

CONNECTICUT AIRQUALITY SUMMARY 1980

Department of Environmental Protection Stanley J. Pac, Comissioner



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I. INTRODUCTION

The 1980 Air Quality Summary of Ambient Air Quality in Connecticut is a compilation of all air pollutant measurements made at Department of Environmental Protection (DEP) air monitoring network sites in the State.

A. Overview of Air Pollutant Concentrations in Connecticut

The following paragraphs briefly describe the status of Connecticut's air quality for the year 1980. The measured concentrations of six pollutants are compared to Federal and State air quality standards. There are two categories of air quality standards: primary - established to protect public health; and secondary - established to protect plants and animals and to prevent economic damage. A more detailed discussion of each of these pollutants is provided in subsequent sections of this Annual Air Quality Summary.

1. Total Suspended Particulates (TSP)

Measured total suspended particulates (TSP) levels did not exceed the primary annual standard of 75 ug/m³ in Connecticut during 1980 but TSP levels did exceed the secondary annual standard of 60 ug/m³ at two sites in 1980. No sites recorded measured values exceeding the primary 24-hour standard of 260 ug/m³ in 1980, but only five sites exceeded the secondary 24-hour standard of 150 ug/m³. Only Waterbury 123 violated the secondary standard by exceeding the 150 ug/m³ level two times. (see Table 1).

In general, measured Total Suspended Particulate levels in Connecticut showed a significant improvement in 1980 as compared to 1979. This improvement is believed to have been caused primarily by eliminating the passive sampling error through the use of retractable lids on the hi-vol monitors. (See the TSP section.)

2. <u>Sulfur Dioxide (S02)</u>

None of the air quality standards for sulfur dioxide were exceeded in Connecticut in 1980. Measured concentrations were substantially below the 80 ug/m³ primary annual standard, the 365 ug/m³ primary 24-hour standard, and the 1300 ug/m³ secondary 3-hour standard. Measured concentrations were closer to, but also below, the 60 ug/m³ secondary annual standard and the 260 ug/m³ secondary 24-hour standard.

The continued attainment of the SO₂ standards can be primarily attributed to Connecticut's low sulfur fuel regulations.

The results of sulfation rate monitoring show that sulfur dioxide levels rose significantly from 1979 to 1980. Temperature is an important factor in determining SO_2 emissions. The general increase in measured SO_2 levels was in large part due to the fact that the year 1980 was cooler than 1979. This can be shown by the

number of "degree days", a measure of heating requirement. The greater the number of degree days, the more fuel that is required to heat homes. At Bridgeport, there was a seven percent increase of degree days over 1979. At Bradley, the increase amounted to eight percent.

3. <u>Ozone (03)</u>

NAAQS - On February 8, 1979, the EPA established an ambient air quality standard for ozone of 0.12 ppm for a one-hour average. That level is not to be exceeded more than once per year. This standard replaces the old photochemical oxidant standard of 0.08 ppm. Furthermore, in order to determine compliance with the 0.12 ppm ozone standard EPA directs the states to record the number of hourly exceedances of 0.12 ppm at a given monitoring site over a consecutive 3-year period and then calculate the average number of exceedances for this interval. If the resulting average value is less than or equal to 1.0; that is, if the fourth highest hourly value in a consecutive 3-year period is less than 0.12 ppm, the ozone standard is considered The definition of the pollutant was also changed along with attained. the numerical value partly because the instruments used to measure photochemical oxidants in the air really measure only ozone. Ozone is only one of a group of chemicals which are formed photochemically in the air and are called photochemical oxidants. In the past, the two terms have often been used interchangeably. This 1980 Annual Summary uses the term "ozone" in conjunction with the new NAAQS to reflect the changes in both the numerical value of the NAAQS and its definition.

The primary 1-hour ozone standard was exceeded at all the DEP monitoring sites in 1980 (see Table 1).

The frequency of ozone levels in excess of the 0.12 ppm ozone standard increased from 1979 to 1980. Some of this difference is attributable to the changes in meteorological factors which occur from year-to-year. An increase in average summer temperatures as well as southwesterly wind transport were important factors during 1980. High temperatures facilitate conversion of hydrocarbons and nitrogen oxides into ozone. Southwest winds transport the emissions of hydrocarbons and nitrogen oxides generated in the New York City Metropolitan Area into Connecticut. Although the Federal emission controls on motor vehicles should be bringing about a yearly reduction in ozone precursor emissions, these emission reductions have not been large enough to cause an improvement in ozone levels.

4. <u>Nitrogen Dioxide (NO2)</u>

Measured nitrogen dioxide levels were lower than the 100 ug/m^3 primary annual standard at all the sampling sites in Connecticut during 1980. A statistical analysis of the data also demonstrates, with 95% confidence, that every site achieved the annual standard for NO₂.

No significant improvement in NO₂ levels took place between 1979 and 1980. Since 60% of the NO₂ emissions in Connecticut come from motor vehicles, some improvement should be occurring due to the Federal emission control program for motor vehicles, as well as continued gasoline conservation. However, yearly differences of weather conditions have probably been an overriding factor in determining overall NO₂ levels.

5. <u>Carbon Monoxide (CO)</u>

The primary eight-hour standard of 9 ppm was exceeded at four of the five carbon monoxide sites in Connecticut during 1980. These were Hartford Oll, New Britain 002, New Haven 007 and Stamford 020. The primary 8-hour standard was exceeded once at Hartford 012, eight times at New Britain 002, once at New Haven 007 and 241 times at Stamford 020. This is down from 330 times at that site last year.

No site, except Stamford 020, violated the primary one-hour standard of 35 ppm. The one-hour standard was exceeded two times at the Stamford 020 site in 1980, unchanged from last year (See Table 1).

A general decrease in carbon monoxide levels took place between 1979 and 1980.

6. Lead (Pb)

<u>National Ambient Air Quality Standard (NAAQS)</u> - On October 5, 1978, the EPA established a new ambient air quality standard for lead of 1.5 ug/m³ for a calendar quarter-year average. The standard is attained only if the quarterly averages of all four calendar quarters in a year do not exceed 1.5 ug/m³.

The primary NAAQS for lead was not exceeded at any sites in 1980, down from seven during 1979. Overall measured concentrations of lead decreased slightly from 1979 to 1980.

Standard Exceeded of Times Air Quality Standards Exceeded in Connecticut in 1980 Based Solely Upon Measured Concentrations Number Level Exceeding 8-Hour/ CARBON MONOXIDE 1-Hour Standards Observed Level, 8-Hour/1-Hour Highest 10.3 (Tiod) 1 1 i 1 I ł of Times Standard Exceeded Number 18 51 I l ł I 201 ł I 27 • I g I 32 I 53 I L ۱ l Level Exceeding <u>1-Hour Standard</u> -OZONE-Observed 0.197 0.240 1 1 1 0.280 -Highest 0.262 __ 0.225 -0.169 0.123 0.252 Level 0.202 1 (Mold) ł ł I ۱ I 11 11 Standard Exceeded of Times Number Standards, ug/m3 Secondary 24-Hour Level Exceeding М 1 TOTAL SUSPENDED PARTICULATES Observed 164 -Highest 157 (Em/pu) I **J60 153** Level · I l I. I. L 1 I I I Level Exceeding Secondary Annual Standards, uq/m3 (60 ug/m3) Secondary <u>г</u> í 64 L SITE 001 002 002 002 002 004 001 001 001 001 002 003 002 003 123 123 TØØ 004 TOO TØØ 53 100 003 TØØ TABLE 1 - NMOL East Hartford New Britain New Britain Middletown Middletown fanchester Burlington New Haven Bridgeport Bridgeport Naugatuck New Haven New Haven Bridgeport Greenwich Greenwich Greenwich Hartford Eastford Hartford Hartford Meriden Norwalk Meriden **Milford** Danbury Enfield Hamden Morris Ansonia Bristol Berlin Derby

OXIDE	8-Hour/ dards	Number of Times Standard <u>Exceeded</u>	7401	
- CARBON MON	Level Exceeding 1-Hour Stan	Highest Observed Level, 8-Hour/1-Hour	21°9/36°Ø	
E	seding andard	Number of Times Standard <u>Exceeded</u>	ო I რ I I I I I I I ლ რ	
OZO	Level Exc 	Highest Observed Level (ppm)	6.18 6.21 6.21 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0 7.0	
	24-Hour s, ug/m3	Number of Times Standard <u>Exceeded</u>		
PARTICULATES	Secondary Standard	Highest Observed Level (ug/m3)	· · · · · · · · · · · · · · · · · · ·	
TOTAL SUSPENDED	Lever Exceeding Secondary Annual Standards, ug/m3	Secondary (60 ug/m3)	111111	
		SITE	001 001 001 001 001 001 001 001 001 001	
		TOWN	Stafford Stratford Torrington Voluntown Waterbury Waterbury Willimantic	

Table 1 , continued

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B. <u>Trends</u>

Any attempt to assess statewide trends in air pollution levels must be able to overcome the tendency for local changes to obscure the statewide pattern. In order to reach some statistically valid conclusions concerning trends in pollutant levels in Connecticut, the DEP has applied the Wilcoxon Matched Pairs, Signed Rank Statistical Test to the annual average data for three pollutants. The Wilcoxon test has been applied to 1968-1980 Total Suspended Particulate (TSP) data, to 1968-1980 Sulfation rate/Sulfuir Dioxide (SO₂) data, and to 1973-1980 Nitrogen Dioxide (NO₂ data.

The Wilcoxon Test is a non-parametric test of high power and efficiency which can be used to ascertain if there was a statistically significant change (increase or decrease) in the annual average pollutant concentrations at all the monitoring sites in Connecticut. This test makes it possible to overcome the trend analyses problems which arise due to the changes in the number and location of monitoring sites from year-to-year and the problems associated with making equitable comparisons among sites. The annual mean levels for consecutive years are compared at each site; there is no inter-site comparison. Data for two consecutive years are required and the size of the change (increase or decrease) is noted. For example, if a high proportion of sites experienced an increase and/or if the magnitude of an increase at several sites is of much greater importance than the magnitude of a decrease at other sites, the test will show if the increase was statistically significant for those two years.

The results of the Wilcoxon test for TSP, Sulfation rate/SO2, and NO2 are presented in Tables 2, 3, and 4, respectively. These analyses were performed only on data computed for sites where the U.S. Environmental Protection Agency (EPA) minimum sampling criteria (see Table 5) were met. The years of data that were paired, the number of sites used, and the statewide arithmetic mean and standard deviation of the pollutant concentrations at the sites are provided in the first four columns of each table. The statistical significance of any changes in the statewide pollutant averages is provided in the last three columns of each table. The significance of change is indicated, by arrows, for two confidence limits, 95% and 99%, and is also given numerically as the number of chances in 10,000 under the heading "actual significance of change". For example, the statewide annual average for TSP decreased between 1968 and 1969 from 73.6 to 66.9. The downward arrows indicate that this change was significant at the 95% and 99% confidence levels. The "actual significance of change" is given as 0.0075. Thus, there are only 75 chances in 10,000 that this measured decrease in TSP levels did not occur.

1. <u>TSP</u>

The results from the Wilcoxon test (see Table 2) show that TSP levels in Connecticut decreased significantly from 1968 to 1969. From 1969 through 1971 there was no significant change. Then, from 1971 to 1974 TSP levels decreased significantly again, but from 1974 to 1975 this decreasing trend was reversed and TSP levels demonstrated a

significant increase. TSP concentrations remained relatively constant from 1975 to 1977 and then decreased significantly once again between 1977 and 1978. Between 1978 and 1979 there was a significant, but not exceedingly large reduction of measured concentrations. Between 1979 and 1980 there was a significant drop in measured TSP levels. This can be attributed to the elimination of passive sampling error through the use of retractable lids on the hi-vol monitors. The lids retract when the monitor is in operation and return to a covered position when it is not in operation. This prevents any particulates from depositing on, or being removed from, the filter during non-operating hours. (Note that these trend analyses do not account for the uncertainty associated with the individual annual means computed for each TSP site. Most TSP sampling is conducted only every-sixth-day, producing a total of 61 samples per yer. Therefore, the Wilcoxon test really compared year-to-year averages of the sampling date concentrations, not actual annual averages. However, the every-sixth-day sampling schedule is believed to be sufficient to produce representative annual averages. The every-sixth-day schedule for TSP sampling did not start until 1971. Since fewer samples were taken at each site from 1968 to 1970 than during recent years, the test results from the early years are not as conclusive as the results from the later years.)

Significant changes in annual TSP levels can also be caused simply by changes of weather. Such changes probably explain most of the decrease in TSP levels observed between 1968 and 1969, the increase observed between 1974 and 1975, and the decrease from 1977 to 1979. The persistent decrease in TSP levels observed from 1971 to 1974 (amounting to 20 ug/m³), however, can certainly be attributed to the emission controls implemented by DEP during those years.

Figure 1 shows the long-term trend of TSP concentrations in Connecticut in a more graphical form. The trend chart is based on data obtained from both high volume and low volume sampling devices. High volume sampler data are included only if there were a sufficient number of samples taken in each year to compute valid geometric means. Low volume sampler data are included for those sites where low volume samplers replaced high volume samplers in 1976.

2. <u>SO2</u>

Connecticut has been measuring sulfur dioxide in the air since prior to the inception of the SO_2 standards in 1971. Several monitoring methods have been employed over that time including bubblers, sulfation plates, and various types of continuous instruments. The bubblers became the EPA reference method, but unfortunately, the field data have turned out to be very unreliable. The sulfation plates have been in use for 10 years and the data are reliable, but they do not measure SO_2 directly. Continuous monitors presently yield reliable data, but this has not always been the case. The earliest monitors (conductometric and coulometric) were subject to interference from many chemicals other than SO_2 and also had difficulties with quality control. As a result, these monitors produced unreliable data. Later generations of instruments (flame photometric and pulsed fluorescent) alleviated these problems, and there has been a corresponding increase in the reliability of the data.

In order to perform a valid trend analysis, the data for the period of interest must be reliable and from similar sampling methods. As indicated above, the only method which fits these criteria is the sulfation plate. However, the air quality standards are not written in terms of sulfation rate, but rather as SO_2 concentrations. There are several suggested conversions in the literature. In order to determine the "best" conversion to use in Connecticut, DEP undertook a study comparing SO_2 levels with sulfation rate. This study involved exposing three sulfation plates at the same location with a flame photometric or pulsed fluorescent continuous SO_2 monitor. Monthly averages were taken at 11 sites from November, 1975 through September, 1978, resulting in a data set of 245 matched pairs. The sulfation rates and SO_2 levels were compared using a least squares regression technique. The equation resulting from this is as follows:

 SO_2 (ppm) = 0.0056 + 0.0195 (sulfation rate)(mg/100 cm²/day)

The level of significance of this regression equation was found to be less than 0.001, and the associated sample correlation coefficient was 0.72.

Using the above equation, historical sulfation rate data were then converted to equivalent SO_2 levels, and these levels were used as input to the Wilcoxon test previously described.

The results of the Wilcoxon test are presented in Table 3. There was no significant change in SO_2 levels from 1968 to 1969 (when there was very little data), but SO_2 levels increased significantly from 1969 to 1970. A large, steady, and highly significant decrease in SO_2 levels took place each year from 1970 to 1973. This was followed by a small, but significant, increase from 1973 to 1974 and then by a small, but significant decrease from 1974 to 1975. There was no significant change in SO_2 levels from 1975 to 1977, but SO_2 levels decreased significantly again from 1977 to 1978 and from 1978 to 1979. From 1979-1980 measured SO_2 levels rose significantly.

As with TSP, annual changes in SO_2 levels can be caused simply by changes in weather. Such changes may explain most of the increase in SO_2 levels from 1969 to 1970 and the decrease in SO_2 levels from 1977 to 1978 and from 1978 to 1979. The dramatic step-by-step drop in SO_2 levels from 1970 to 1973 corresponds exactly to the step-by-step phase-in of Connecticut's low sulfur-in-fuel regulations. As of September 1, 1971, the oil sold and burned in Connecticut was limited to a sulfur content not to exceed 1.0%. As of September 1, 1972, the sulfur content of the oil sold in Connecticut

could not exceed 0.5%, and the burning of oil with a higher sulfur content than 0.5% was not allowed after April 1, 1973. The inescapable conclusion is that the implementation of these sulfur-in-fuel regulations caused the significant reduction in SO_2 levels from 1970 to 1973, such that all SO_2 standards have been attained in Connecticut. During the winter of 1973 to 1974, certain utilities were given emergency permission to burn higher sulfur oil and coal. The temporary increase in SO_2 levels observed in 1974 could have been due in part to this relaxation of the sulfur-in-fuel limitations. The increase from 1979 to 1980 can be attributed to the fact that the winter months of 1980 were colder than 1979. In colder winter months, more oil is required for energy to heat homes.

The long-term trend of SO_2 concentrations, as determined from the sulfation rate data, is shown in graphical form in Figure 2.

3. <u>NO</u>2

The Wilcoxon test shows that NO_2 levels in Connecticut have fluctuated up and down over the last five years, but no overall trend can be observed (see Table 4). The NO_2 levels dropped significantly from 1973 to 1974 and from 1977 to 1978, and they rose significantly from 1974 to 1975 and from 1976 to 1977. No significant change in NO_2 levels occurred between 1975 and 1976, 1978 and 1979, or between 1979 and 1980.

These fluctuations must be largely attributed to year-to-year changes in weather as no corresponding changes in emissions are known to have occurred in the last five years. In the long run, the continuing Federal program to control motor vehicle emissions should help to bring about a drop in NO_2 levels. The NO_2 measurement method changed several times during 1973, 1974, and 1975 which could have caused some of the fluctuation in levels in those years.

C. <u>Air Monitoring Network</u>

A computerized Air Monitoring Network consisting of an IBM System 7 computer and 12 telemetered monitoring sites was put into full operation in 1975. Presently, up to 12 measurement parameters from each site are transmitted via telephone lines to the System 7 unit located in the DEP Hartford office. The data are then compiled into 24-hour summaries twice daily. The telemetered sites are located in the towns of Bridgeport, Danbury, Greenwich, Hartford, New Britain, New Haven, Stamford, and Waterbury.

Measured parameters include the pollutants sulfur dioxide, particulates (COH), carbon monoxide and ozone. Meteorological data consists of wind speed and direction, wind horizontal sigma, temperature, dew point, precipitation, barometric pressure and solar radiation (insolation).

The real-time capabilities of the System 7 telemetry network have enabled the Air Monitoring Unit to report the Pollutant Standards Index for 10 towns on a daily basis while keeping a close watch for high pollution levels which may occur during adverse weather conditions throughout the year.

		AVERAGE OF		SIC	NIFICANCE LI	<u>EVEL</u>
PAIRED YEARS	NUMBER OF SITES	ANNUAL ARITHMETIC MEANS*	STANDARD DEVIATION	<u>TREND</u> 958 LEVEL** 9	<u>AT</u> 98 LEVEL**	ACTUAL SIGNIFICANCE OF CHANGE
68 69	17 17	73.6 66.9	21.6 18.6	¥	¥	0.0075
69 7Ø	21 21	69.Ø 71.7	23.Ø 25.5	N.C.	N.C.	Ø.2891
7Ø 71	23 23	67.8 66.2	20.6 18.2	N.C.	N.C.	Ø . 34585
71 72	40 40	68.4 61.9	22.5 17.3	ţ	¥	0.0013
72 73	39 39	59.1 51.9	13.4 10.2	4	¥	<0.00005
73 74	41 41	51.9 48.3	11.6 10.3	t	N.C.	Ø.Ø143
74 75	4Ø 4Ø	49.9 52.3	10.7 10.1	†	N.C.	Ø.Ø1Ø1
75 76	31 31	52.8 53.Ø	9.8 9.3	N.C.	N.C.	Ø.7539
76 77	37 37	54.9 54.7	10.4 10.1	N.C.	N.C.	Ø.7296
77 78	32 32	55.9 53.8	10.7 10.2	ł	¥	0.0086
78 79	34 34	52.5 50.8	12.8 12.6	¥	N.C.	Ø.Ø293
79 8Ø	34 34	50.7 46.4	12.7 9.4	· · · · ·	¥	<0.00005

TSP TREND, 1968-1980 (WILCOXON SIGNED-RANK TEST)

TABLE 2

* Note that as the year pairings change, the sites available also change. This explains the different averages for a given year, i.e., the averages are taken from different sets of sites.

** Key to Symbols: ⁺ = Significant Downward Trend ⁺ = Significant Upward Trend N.C. = No Significant Change

_	PAIRED	NUMBER OF STITES	AVERAGE OF ANNUAL ARITHMETIC MEANS*	STANDARD DEVIATION	<u>TRE</u> 95% 1 57/57 *	SIGNIFICANCE L	EVEL ACTUAL SIGNIFICANCE
	<u></u>	10			<u>238 1010000</u>	<u> </u>	<u>OF CHANGE</u>
	68 69	12 12	75.4 65.3	29.3 21.3	N.C.	N.C.	Ø.Ø619
	69 7Ø	22 22	56.6 64.4	18.8 20.3	↑	†	0.0006
	7Ø 71	34 34	62.4 50.1	20.9 13.9	 ↓	 ↓	<0.00005
	71 72	40 40	51.6 40.3	14.9 6.8	¥	ł	<0.00005
	72 73	38 38	41.3 34.0	6 .9 4 . 5	¥	4	<0.00005
~	73 74	25 25	35.4 38.2	5.2 6.3	ŕ	†	0.0004
·-;	74 75	25 25	35.9 33.2	8.2 7.8	↓	4	Ø . ØØØ2
	75 76	18 18	33.1 33.6	7.7 6.Ø	N.C.	N.C.	Ø . 1070
	76 77	29 29	35.2 34.9	4.7 4.3	N.C.	N.C.	Ø <u>.</u> 8ØØ9
	77 78	25 25	35 . 1 30 . 4	4.2 3.4	¥	¥	<0.00005
	78 79	25 25	30.0 27.8	4.1 3.1	t	¥	0.0001
	79 8Ø	25 25	27.8 29.2	3.1 3.4	ţ	ŕ	0.0004

TABLE 3

EQUIVALENT SO2 TREND FROM SULFATION RATE, 1968-1980 (WILCOXON SIGNED-RANK TEST)

the shares

*

Note that as the year pairings change, the sites available also change. This explains the different averages for a given year, i.e., the averages are taken from different sets of sites.

TABLE 4

		AVERAGE OF		C لم	SIGNIFICANCE LI	EVEL
PAIRED YEARS	NUMBER <u>OF SITES</u>	ANNUAL ARITHMETIC MEANS*	STANDARD DEVIATION	TREI 95% LEVEL**	<u>10 AT</u> * 998 LEVEL**	ACTUAL SIGNIFICANCE OF CHANGE
73 74	7 7	62.Ø 39.7	32.7 20.0	, ¥	N.C.	0.0180
74 75	24 24	43.5 49.6	17.2 17.2	↑	ţ	0.0004
75 76	13 13	58.Ø 59.4	13.8 10.9	N.C.	N.C.	0.8140
76 77	2Ø 2Ø	56.9 62.2	11.8 12.2	ŕ	N.C.	Ø.Ø158
77 78	19 19	62.3 59.2	12.6 11.5	Ŷ	N.C.	0.0166
78 79	19 19	59.2 60.0	11.5 10.3	N.C.	N.C.	Ø.8721
79 8Ø	18 18	62.Ø 62.8	10.5 11.0	N.C.	N.C.	Ø.1239

NO2 TREND, 1973-1980 (WILCOXON SIGNED-RANK TEST)

* Note that as the year pairings change, the sites available also change. This explains the different averages for a given year, i.e., the averages are taken from different sets of sites.

**	Kev	to	Symbols:	∳		Significant Downward Trend
	A		<u>-</u>	ť	=	Significant Upward Trend
			1	N.C.		No Significant Change

			NATTONAL, AM	BIENT AI	R OUALT	IT STAND	ARDS
	SAMPT, TNG	DATTA	STATISTICAL	PRIMA	RY	SECO	NDARY
DOI J FFFAME	DERTON	REDUCTION	BASE	STAND	ARD	STAN	DARD
TATOTOTOT				tug/m3	ШOO	Eur/bn	uldd
Total Suspended Particulates	24-Hours Every Sixth Day ^l	24-Hour Average	Annual Geometric Mean 24-Hour Concentration ³	75 260		50* 150	
Sulfur Oxides	Continuous ²	1-Hour Average	Annual Arithmetic Mean	80	0.03	60	ຜູຫຼຽລ
(Measured as Sulfur Oxides)			24-Hour Average Concentration ³	365	0.14	260	0 Jga
			3-Hour Average Concentration ³			1300	Ø.5Ø
Nitrogen Dioxide	24-Hours Every Sixth Day ^l	24-Hour Average	Annual Arithmetic Mean	JØØ	Ø . Ø5	Same as	s Primary
Ozone	continuous ²	l-Hour Average	l-Hour Average ⁴	235	0.12	Same as	s Primary
Hydrocarbons	Continuous ²	1-Hour Average	3-Hour Average ³ (6-9 AM)	160**	Ø .24	Same at	s Primary

EPA assessment criteria require at least 5 samples per calendar quarter, and, if one month has no samples, then the other two months in that quarter must have at least two samples each.

Same as Primary Same as Primary

lidd

mg/m3

о К Зуло

100 100 100

8-Hour Average³ 1-Hour Average³

1-Hour Average

Continuous²

Carbon Monoxide

<u>mq/m</u>3

Same as Primary

ل م

Calendar Quarter Average

Quarterly Composite

Every Sixth Day¹

24 Hours

Lead

13

EPA assessment criteria réquire 75% of possible data to compute valid averages.

~~~~

Not to be exceeded more than once per year.

Not to be exceeded more than an average of once per year in three years.

A guide to be used in assessing implementation plans to achieve the 24-hour standard.

For use as a guide in devising implementation plans to achieve the (old) Ø.08 ppm ozone standards. \*\*

ർ

State secondary standards were abrogated in 1981 Units = ug/m<sup>3</sup> = Micrograms per cubic meter; mg/m<sup>3</sup> = Milligrams per cubic meter; ppm = Parts per million

ASSESSMENT OF AMBLENT AIR OUALITY TABLE 5

Trend **Particulate** Matter Suspended Total Neeses Fi 09 U T C

"Percent of sites within each range"





× Number of

Sulfur Dioxide Trend from Sulfation Rate Data N Figure



The complete monitoring network used in 1980 consisted of:

35 Total Suspended Particulate and Lead (Hi-Vol) sites

2 Total Suspended Particulate (Lo-Vol) sites

11 Sulfur Dioxide sites (Continuous Monitors)

10 Ozone sites

18 Nitrogen Dioxide sites (Bubblers)

5 Carbon Monoxide sites

A complete description of all permanent air monitoring sites in Connecticut operated by DEP in 1980 is available from the Department of Environmental Protection, Air Compliance, State Office Building, Hartford, Connecticut, 06106.

### D. Air Quality Standards

Table 5 lists analysis methods and National Ambient Air Quality Standards (NAAQS) for each pollutant. The NAAQS were established by the U.S. Environmental Protection Agency (EPA) and are divided into two categories: primary - established to protect the public health; and secondary - established to protect plants and animals and to prevent economic damage.

Each standard specifies a concentration and an exposure time developed from studies of the effect of various levels of the particular pollutant.

# E. Pollutant Standards Index

The Pollutant Standards Index (PSI) is a daily air quality index recommended for common use in state and local agencies by the U.S. Environmental Protection Agency. Connecticut switched to reporting the PSI on a 7-day a week basis on November 15, 1976. The PSI incorporates five pollutants - carbon monoxide, sulfur dioxide, total suspended particulates, ozone, and nitrogen dioxide. The index converts each air pollutant concentration into a normalized number where the National Ambient Air Quality Standard for each pollutant corresponds to PSI = 100 and the Significant Harm Level corresponds to PSI = 500.

Figure 3 shows the breakdown of index values for the commonly reported pollutants (TSP, SO<sub>2</sub>, CO, and  $O_3$ ) in Connecticut. In 1980, the PSI was reported for the telemetered monitoring sites in Connecticut (Bridgeport, Danbury, Greenwich, Hartford, Middletown, New Britain, New Haven, Stamford, and Waterbury). Each day the pollutant with the highest PSI value of all the pollutants being monitored is reported for each town, along with the dimensionless PSI number, and a descriptor word to characterize the daily air quality.

A telephone recording of the PSI is taped each afternoon at 3 PM, seven days a week, and can be heard by dialing 566-3449. For residents outside of the Hartford telephone exchange, the PSI is now available toll-free from the DEP representative at the Governor's State Information Bureau. The number is 1-800-842-2220. This information is also available to the public weekday afternoons from the Connecticut Lung Association in East Hartford. The number there is 289-5401.



FIGURE 3 UTANT STANDARD

### F. Quality Assurance

In the Thursday, May 10, 1979 Federal Register, Vol. 44, No. 92, EPA promulgated regulations that specify the "Quality Assurance Requirements for State and Local Air Monitoring Stations (SLAMS)." This was a uniform, comprehensive approach to obtaining quality data as well as a statistical method for assessing the quality of that data.

The above comprehensive approach consisted of planning, writing, and implementing a quality assurance program which would produce data of superior quality and adequate quantity. Each program required written procedures for each of the following activities:

Procurement of Equipment Installation of Equipment Calibration of Equipment Equipment Operation Sample Analysis Maintenance of Equipment Equipment Audits Data Handling and Assessment

Completion and implementation of the Quality Assurance Plan was to take place by 1/1/81. By the end of 1980, TSP, SO<sub>2</sub>, and O<sub>3</sub> procedures were completed, while NO<sub>2</sub> and CO were in progress. And, although it was not required, Connecticut fully implemented the TSP program in 1980. In addition, the statistical assessment of O<sub>3</sub> and NO<sub>2</sub> were also implemented in order to fulfill a requirement of an EPA sponsored "Northeast Corridor Study."

The assessment of data quality is accomplished by statistically calculating the results of "Precision" and "Accuracy" data, where precision may be defined as a measure of repeatability of the measuring instrument when measuring the same thing, and accuracy as a measure of closeness of an observed measurement value to the truth. These results are reported as "Probability Limits" of  $\pm 95\%$ .

Precision

#### a) Manual Samplers (TSP)

Duplicate samplers (collocated samplers) is the technique used to assess TSP precision. It involves all parts of the total measurement process as well as using actual concentrations of pollutants in the ambient air. Samplers run for a period of 24 hours, and correlation of the results of the duplicate samples take place at intervals of the regular sampling schedule (every 6 days).

b) Automated Analyzers (SO<sub>2</sub>, O<sub>3</sub>, CO, and NO<sub>2</sub>)

Periodic span checks at ambient concentrations (0.08 to 0.1 ppm for  $SO_2$ ,  $O_3$  and  $NO_2$ , and 8 to 10 ppm for CO) are performed approximately every 2 weeks. These bi-weekly results are not only used to assess precision, but are also used to flag possible instrument malfunctions.

# Accuracy

# a) Manual Sampling

Accuracy assessment is obtained by challenging the flow portion of the measurement system with a calibrated, fixed orifice, transfer standard at normal sampler flow operation. At least 25% of the network is to be audited every quarter.

# b) Automated Analyzers

Accuracy data is obtained from performance audits which are conducted by personnel and equipment other than that used for instrument calibrations. These audits are performed at the following three levels of pollution concentration:

| SO <sub>2</sub> , O <sub>3</sub> , NO <sub>2</sub><br>(PPM) | CO<br>(PPM) |
|-------------------------------------------------------------|-------------|
| 0.03 to 0.08                                                | 3 to 8      |
| 0.15 to 0.20                                                | 15 to 20    |
| 0.35 to 0.45                                                | 35 to 45    |

### TSP:

There are 3 collocated sampler sites in Connecticut for assessing precision; Bridgeport 009, Hartford 003, and Waterbury 005. The network results for the  $\pm 95\%$  probability were:

precision: -6% to +7% accuracy: -11% to -1%

# SO2:

No precision checks were performed in 1980.

Network accuracy was derived from 2 instrument audits performed by an independent auditor (Research Triangle Institute) with the following <u>+95%</u> probability results:

| 0.03 to 0.08 PPM | 0.15 to 0.20 PPM | 0.35 to 0.45 PPM |
|------------------|------------------|------------------|
| -3% to +6 %      | -6% to +5%       | -2% to -1%       |

# 03:

Precision data was obtained from 6 sites and resulted in a network precision of -12% to +14% for the  $\pm 95\%$  probability limits.

Fourteen accuracy audits were performed with the following network results for the  $\pm 95\%$  probability limits:

| 0.03 to 0.08 PPM | 0.15 to 0.20 PPM | 0.35 to 0.45 PPM |
|------------------|------------------|------------------|
| -18% to +10%     | -13% to +12%     | -10% to +10%     |

CO:

No precision checks were performed in 1980.

Assessing of accuracy was obtained from EPA audits which were conducted at all five CO sites. The  $\pm 95\%$  probability limits were:

| @ 6.1 PPM   | @ 20.25 PPM | @ 42.4 PPM   |
|-------------|-------------|--------------|
| -20% to +2% | -12% to +7% | -11% to +12% |

# $NO_2$

There were 3  $NO_2$  sites in 1980 with precision data performed at Greenwich 004 only (only partial data was recorded at Bridgeport and Hartford). The  $\pm 95\%$  probability limits were -14% to  $\pm 3\%$ .

There were a total of 5 audits performed at Greenwich and Hartford with the following results for the  $\pm 95\%$  probability limit for accuracy.

| 0.03 to 0.08 PPM | 0.15 to 0.20 PPM | 0.35 to 0.45 PPM |
|------------------|------------------|------------------|
| -26% to +3%      | -11% to +4%      | -10% to +5%      |

#### G. HEALTH EFFECTS

Here are brief descriptions of the air pollutants for which EPA standards have been set, and summaries of the adverse effects of each on human health.

Sulfur oxides are gases that come from the burning of sulfur-containing fuel, mainly coal and oil, and also from the smelting of metals and from certain industrial processes. They have a distinctive odor. Sulfur dioxide  $(SO_2)$  comprises about 95 percent of these gases, so scientists use a test for  $SO_2$  alone as a measure of all sulfur oxides.

As the level of sulfur oxides in air increases, there is an obstruction of breathing, a choking effect that doctors call "pulmonary flow resistance." The amount of breathing obstruction has a direct relation to the amount of sulfur compounds in the air. The effect of sulfur pollution is enhanced by the presence of other pollutants, especially particulates and oxidants. That is, the harm from two or more pollutants is more than additive. Each augments the other, and the combined effect is greater than the sum of the parts would be.

Many types of respiratory disease are associated with sulfur oxides: coughs and colds, asthma, bronchitis, and emphysema. Some researchers believe that the harm is mainly due not to the sulfur oxide gases but to other sulfur compounds that accompany the oxides: sulfur acids and sulfate salts.

Particulates are solid particles or liquid droplets small enough to remain suspended in air. They include dust, soot, and smoke -- particles that may be irritating but are usually not poisonous -- and bits of solid or liquid substances that may be highly toxic. The smaller the particles, the more likely they are to reach the innermost parts of the lungs and work their damage.

The harm may be physical: clogging the lung sacs, as in anthracosis, or coal miners' "black lung" from inhaling coal dust; asbestosis or silicosis in people exposed to asbestos fibers or dusts from sillicate rocks; and byssinosis, or textile workers' "brown lung" from inhaling cotton fibers.

The harm may also be chemical: changes in the human body caused by chemical reactions with pollution particles that pass through the lung membranes to poison the blood or be carried by the blood to other organs. This can happen with inhaled lead, cadmium, beryllium, and other metals, and with certain complex organic compounds that can cause cancer.

Many studies indicate that particulates and sulfur oxides (they often occur together) increase the incidence and severity of respiratory disease.

Carbon monoxide (CO) is a colorless, odorless, poison gas formed when carbon-containing fuel is not burned completely. It is by far the most plentiful air pollutant. EPA estimates that more than 102 million metric tons of CO are spewed into the air each year in the United States. (A metric ton is 1,000 kilograms, or about 2,200 pounds.)

Fortunately, this deadly gas does not persist in the atmosphere. It is apparently converted by natural processes to harmless carbon dioxide, in ways not yet understood, fast enough to prevent any general buildup. But it can reach dangerous levels in local areas, as in city-street canyons with heavy auto traffic and little wind.

Clinical experience with accidental CO poisoning has shown clearly how it affects the body. When the gas is breathed, CO replaces oxygen in the red blood cells, reducing the amount of oxygen that can reach the body cells and maintain life. Lack of oxygen affects the brain, and the first symptoms are impaired perception and thinking. Reflexes are slowed, judgement weakened, and a person becomes drowsy. An auto driver breathing high levels of CO is more likely to have an accident; an athlete's performance and skill drop suddenly. Lack of oxygen then affects the heart. Death can come from heart failure or general asphyxiation, if a person is exposed to very high levels of CO.

Ozone is a poisonous form of pure oxygen and the principal component of modern smog. Until recently EPA called this type of pollution "photochemical oxidants." The name was changed because ozone was the only oxidant actually measured and by far the most plentiful.

Ozone and other oxidants -- including peroxyacetal nitrates (PAN), formaldehydes, and peroxides -- are not emitted into the air directly. They are formed by chemical reactions in the air from two other pollutants, hydrocarbons and nitrogen oxides. Energy from sunlight is needed for these chemical reactions, hence the term photochemical smog, and the daily variation in ozone levels, increasing during the day and decreasing at night.

Ozone is a pungent-smelling, faintly bluish gas. It irritates the mucuous membranes of the respiratory system, causing coughing, choking and impaired lung function. It aggravates chronic respiratory diseases like asthma and bronchitis and is believed capable of hastening the death, by pneumonia, of persons in already weakened health. PAN and the other oxidants that accompany ozone are powerful eye irritants.

Nitrogen oxides. When any fuel is burned at a high enough temperature -- above  $650^{\circ}C$  (1,200°F) -- some of the abundant nitrogen in the air will react too, forming poisonous, highly reactive gases called nitrogen oxides. Nitrogen dioxide (NO<sub>2</sub>) is the most plentiful of these and the one measured to indicate all. It is a suffocating, brownish-colored gas and a strong oxidizing agent, quick to react with water vapor to form corrosive nitric acid.

Occupational health studies have shown that nitrogen oxides can be fatal at high concentrations. At lower levels, they can irritate the lungs, cause bronchitis and pneumonia, and lower resistance to respiratory infections like influenza. However, the principal harm to people seems to come not from nitrogen oxides directly but from the oxidants they help to form by uniting in sunlit air with hydrocarbons to make ozone and other ingredients of photochemical smog. Hydrocarbons are unburned fuels in gaseous or vapor form. Gasoline, for example, is a mixture of many kinds of hydrocarbons, each containing more than twice as many hydrogen atoms as carbon atoms linked together in molecules of many different sizes and patterns.

At the levels usually found in ambient air, hydrocarbons, as a class of compounds, may have no direct effect on human health. In a confined space, of course, they could cause asphyxiation by displacing the air, and some, like benzene, can be hazardous in themselves. A major problem with hydrocarbons stems from the oxidants they help to form by reacting with nitrogen oxides in sunlight.

Lead. Particles of this metal or its compounds enter the air from auto exhaust (tetraethyl lead, an anti-knock agent in gasoline) and from industries that smelt or process the metal.

Lead is absorbed into the body and accumulates in bone and soft tissues. Its most pronounced effects are on the blood-forming, nervous, and kidney systems, though it may also affect other body functions. Young children are especially susceptible to lead poisoning.

### **II. TOTAL SUSPENDED PARTICULATES**

#### Conclusions:

Measured Total Suspended Particulate (TSP) levels did not exceed the primary annual standard of 75 ug/m<sup>3</sup> in Connecticut during 1980. The secondary annual standard of 60 ug/m<sup>3</sup> was exceeded by less than 10% at two sites, three less than in 1979. No sites had a measured value exceeding the primary 24-hour standard of 260 ug/m<sup>3</sup> during 1980. The highest observed 24-hour TSP level at nine (9) sites exceeded the secondary 24-hour standard of 150 ug/m<sup>3</sup>, however, only five (5) sites violated the standard (i.e., highest second high 24-hour TSP level greater than 150 ug/m<sup>3</sup>) down from seven (7)sites in 1979.

Overall, measured total suspended particulate (TSP) levels in Connecticut showed significant improvement in 1980 as compared to 1979 (see Table 2).

The probable cause of most of the improvement in measured TSP levels is due to the installation of retractable lids on the hi-vol monitors. All hi-vol sites have had the lids since January 1980. These lids retract when the monitor begins to sample and they return to a closed position when the sampling is finished. A more accurate sample is made possible by this method of protecting the filter from excess deposition or erosion. A "passive sampling error" study (see 'Special Studies', "Passive Sampling Error" in the 1979 Annual Air Quality Summary) was performed by DEP which showed that standard hi-vols without lids recorded a positive bias of between 10% to 20%. A comparison of a hi-vol and a "sample saver" hi-vol operating side-by-side at Hartford 123 showed a 7% reduction of measured TSP in the sample saver. This factor alone could explain a significant part of the drop of measured TSP levels in 1980.

Year-to-year changes in the weather also play a role in determining measured TSP levels. The overall northwesterly components of wind directions at area weather stations show an increase in the frequency of northwesterly winds for the year. Northwesterly winds tend to be freer of TSP than winds from the Southwest and South. Besides lower concentrations of TSP, north-westerly winds are also somewhat drier. This is reflected in the 1980 rainfall amounts, which were far below normal at Bradley International Airport in Windsor Locks. Precipitation there was 26% less than normal, while at Sikorsky Memorial Airport precipitation was 8% less than normal. Less precipitation tends to cause less washout of particulates from the air which in turn could result in higher TSP concentrations. However in this case, the effect of precipitation on the amount of TSP washout does not appear to be a major factor. As for temperature, degree days (heating requirement) for 1980 at Bradley and Sikorsky airports were higher than they were for 1979 and also higher than the mean (see Tables 29, 30). An increase in home heating, including the use of wood and coal stoves, is commensurate with an increase of degree days.

Although measured TSP levels decreased in 1980, it would be difficult to pinpoint a specific reason for the reduction other than the installation of retractable lids on the hi-vol monitors. More than half of the particulate emissions in Connecticut are caused by motor vehicles. One third of these emissions are due to fuel combustion. Most of the remaining two-thirds occur when road dust is stirred up by the motion of the vehicles, so road dust emissions are not dependent upon fuel combustion, but rather, upon vehicle miles traveled (VMT's). VMT's for 1980 have remained almost unchanged since 1978 while gasoline consumption continued to decrease. In 1980 the decrease in gasoline consumption amounted to 3.1%.

### Sample Collection and Analysis:

<u>Hi-Volume Sampler (Hi-Vol)</u>: "Hi-Vols" resemble vacuum cleaners in their operation, with an 8" x 10" piece of fiberglass filter paper replacing the vacuum bag. As explained previously, retractable lids have been installed on the hi-vols in order to eliminate the passive sampling error. The samplers operate (from midnight to midnight) every sixth day at most sites and every third day at certain urban stations.

The matter collected on the filters is analyzed for weight and chemical composition. The air flow through the filter is recorded during sampling. The weight in micrograms (ug) divided by the volume of air in cubic meters  $(m^3)$  yields the pollutant concentration for the day, in micrograms per cubic meter.

The chemical composition of the suspended particulate matter is determined as follows. A standardized strip of every other hi-vol filter collected in each quarter-year is cut-out and composited into one sample.<sup>#</sup> This procedure is repeated three times so that three quarterly composited samples are made for each site., One of the composited filter samples is digested in benzene. The organic materials in the sample dissolve and are extracted into the benzene. The benzene is evaporated and the organic residue is weighted. The weight of this residue represents the organic material in the sample and the result is reported as the benzene soluble fraction of the TSP, in ug/m<sup>3</sup>. (This method of determining the benzene solubles, or organic, fraction of the particulates was used until 1977 when the analysis for benzene solubles was discontinued because of health hazards associated with the use of benzene,

<sup>\*</sup> The National Air Sampling Network (NASN) every-12th-day sampling schedule determines which filters go into the composite. The National Air Sampling Network consists of several sites in each State, selected from among the State-operated monitoring sites. Filters collected on the NASN schedule at these NASN sites are used by the States only to compute TSP levels. The filters are then sent to the EPA for their analysis and use. Connecticut performs chemical analyses on <u>non-NASN sampling day filters from the NASN sites</u> in Connecticut and on the <u>NASN sampling day filters</u> from the non-NASN sites in Connecticut. (The NASN sites in Connecticut are Bridgeport 001, New Haven 123, and Waterbury 123.)

which is a carcinogen). Another sample is dissolved in water, re-fluxed and the resulting solution is analyzed to determine the water soluble fraction of the TSP using wet chemistry techniques. Results are reported for each individual constituent of the water soluble fraction in  $ug/m^3$ . The last composited sample is digested in acid and the resulting solution is analyzed for the different metals in the TSP using an atomic absorption spectrophotometer. Results are reported for each individual metal in  $ug/m^3$ .

Lo-Volume Sampler: The low-volume (i.e., Lo-vol) sampler is a 30-day continuous sampler. It is enclosed in a shelter similar to a hi-vol, uses the same glass fiber filter paper, but operates at an air sampling flow rate approximately one-tenth that used by a standard hi-vol (i.e., 4 cfm as opposed to 40-60 cfm). The air flow through the lo-vol is measured by a temperature compensating dry gas meter. The lo-vol measurement is essentially an arithmetic average for the 30-day sampling interval. The filters are chemically analyzed in the same manner as those from the hi-vol sampler.

### Discussion of Data:

<u>Monitoring Network</u> - In 1980 both hi-vol and lo-vol particulate samplers were operated in Connecticut (see Figure 4). Because the Federal EPA does not recognize the lo-vol instrument as an equivalent to the reference (hi-vol) method of sampling for TSP, only hi-vol data are analyzed for compliance with NAAQS.

Annual Averages - The Federal EPA has established minimum sampling criteria (see Table 5) for use in determining compliance with either the primary or secondary annual NAAQS for TSP. Using the EPA criteria, the primary annual standard was not exceeded, while the secondary annual standard was exceeded at two sites. In 1980, of the sites that had valid annual geometric means, 31 hi-vol sites showed lower annual geometric means than in 1979, with twelve of these decreases being greater than 5  $ug/m^3$ . In 1980, only three hi-vol sites showed higher geometric means than 1979, with none of these increases being greater than 4  $ug/m^3$ .

<u>Historical Data</u> - The DEP's historical file of annual average TSP data for 1957-1980 is presented in Table 6. This table of historic TSP data invalidates and replaces all previous compilations. This table also includes an indication of whether the aforementioned EPA minimum sampling criteria were met at each site for each year. If the sampling was insufficient to meet the EPA criteria an asterisk appears next to the number of samples. <u>Statistical Projections</u> - Table 6 is the product of a computer program listing all hi-vol monitoring sites used by DEP. The data for each site and year include the number of samples taken (generally, a maximum of 61 samples per year), the geometric mean, 95% confidence limits about the mean, the standard geometric deviation and a statistical prediction of the number of days in each year the 24-hour primary and secondary NAAQS would have been exceeded if sampling had been conducted every day. This analysis (just as the ambient standards) is based on the assumption that the particulate data are log-normally distributed.

Because manpower and economic limitations dictate that hi-vol sampling for particulate matter can not be conducted every day, a degree of uncertainty as to whether the air quality at a site has either met or exceeded the national standards is introduced. This uncertainty for the annual standard can be quantified by determining 95% confidence limits about each of the annual geometric means. For example (see Table 6), in New Haven at site 123 in 1979, 57 samples were taken and a geometric mean of 56.5 ug/m<sup>3</sup> was calculated. However, the columns labeled "95-PCT-LIMITS" show the lower and upper limits for a 95% confidence interval of 51 and 63 ug/m<sup>3</sup>, respectively. This means that if a larger (i.e., greater than 57 samples) sample set were collected in 1980 at this site there is a 95% chance that the geometric mean would fall between these limits., Since the national secondary standard for particulates (60 ug/<sup>3</sup>) is within this interval, one cannot be 95% confident that the secondary standard was met here in 1979.

In Table 7, the 1980 monitoring sites are examined for compliance with standards, using the State's hi-vol confidence limit criteria. The table shows that no sites exceeded the primary annual standard with 95% confidence. The table also shows that the DEP is 95% confident that the secondary standard was exceeded at two (2) sites during 1980, as compared to four (4) sites in 1979. Last year the standard was exceeded at four sites.

Whether the secondary annual standard was exceeded is uncertain at six (6) sites, down from eleven (11) sites last year. Comparing this to the results using the actual measured levels in the discussion above, both methods shows no site exceeding the primary standard and two (2) sites exceeding the secondary annual standard. However, the statistical projections indicate that more frequent TSP sampling at four (4) sites (Hartford 123; Meriden 05; New Haven 02; Waterbury 123) might have resulted in measured violations of the secondary annual standard.,

<u>24-Hour Averages</u> Table 8 presents 1st and 2nd high 24-hour concentrations recorded at each site. There were no violations of the primary 24-hour standard recorded in Connecticut during 1980. Measured violations of the secondary 24-hour standard were recorded at nine sites in 1980, two more than in 1979. The 2nd high 24-hour average increased at thirteen of the 35 sites which met the minimum EPA sampling criteria in both 1979 and 1980. Two of these increases exceeded 25 ug/m<sup>3</sup>. The 2nd high 24-hour average decreased at twenty-one of the 35 sites, and seven of these decreases exceeded 25 ug/m<sup>3</sup>. The 2nd high at one site (Wallingford, site 001) remained the same. Table 9 summarizes the statistical predictions from Table 6 regarding the number of days exceeding the 24-hour standards. This table shows that if sampling had been conducted every day in 1980 there would have been no sites with violations of the primary 24-hour standard, and fourteen (14) sites with violations of the secondary 24-hour standard. In 1979, two (2) sites were predicted to have exceeded the primary 24-hour standard and twenty-two (22) sites were predicted to have exceeded the secondary 24-hour standard.

<u>Chemical Analyses</u> - Annual averages of seventeen components or characteristics of the particulate matter collected at each hi-vol sampling location have been computed for the year 1980 and are presented in Table 10. For concentrations dating back to 1970, see the 1978 Connecticut Air Quality Summary. The abbreviations used in the table are defined below. All values shown are annual <u>arithmetic</u> means, in micrograms per cubic meter, except for pH.

| <b>#S</b> |             | Number of Samples | V -                | Vanadium               |
|-----------|-------------|-------------------|--------------------|------------------------|
| Al        | (Can)       | Aluminum          | Zn -               | Zinc                   |
| Be        | -           | Berylium          | NO3 -              | Total Nitrates         |
| Cd        | -           | Cadmium           | S04 -              | Total Sulfates         |
| Cr        | <b>6</b> 14 | Chromium          | NH4 -              | Ammonium               |
| Cu        | 80          | Copper            | Na -               | Sodium                 |
| Fe        | <b>8</b> 13 | Iron              | pH                 | Acidity                |
| Pb        | #2az        | Lead              | BENZ -             | Total Benzene Solubles |
| Mn        | 822         | Manganese         | TSP <sup>#</sup> - | Total Suspended        |
| Ni        | -           | Nickel            |                    | Particulates           |
|           |             |                   |                    |                        |

Lo-Vol Averages - For a number of years, the DEP has been experimenting and gathering data with the lo-vol particulate monitor. Lo-vols operate continuously for 30-day periods. The lo-vol has four advantages and one disadvantage in relation to the hi-vol. First, the lo-vol's continuous operation can provide annual averages which include every day of the year, rather than only the fractional portion of the year sampled by every-sixth (or third-) day hi-vol operation. Second, there is no passive sampling error (see Special Studies Section) associated with the lo-vol as there is with the standard hi-vol. Third, the lo-vol needs less frequent servicing (12 times/year) than the hi-vol (e.g., 61 times/year), so it is more cost-effective to operate. Fourth, the lo-vol has a higher collection efficiency than the hi-vol, especially for small, respirable particles. But, a disadvantage of the lo-vol is that it does not provide daily samples for direct comparison to the 24-hour TSP standards (although 24-hour averages can be obtained by statistical interpolation).

\* Note that Table 10 gives the <u>arithmetic</u> means of the <u>every-12th day</u> <u>samples</u> that were used in the composites, whereas Table 6 gives the <u>geometric</u> means of <u>all the scheduled samples</u>. There were two lo-vol sites located at rural locations in the state during 1980. One site was located at Mansfield, the other at Putnam. The use of the low-vols made it possible to continue to obtain data on annual average particulate levels at these rural sites.

Annual averages of the chemical components from the lo-vol TSP monitors have been computed for 1980 and are presented in Table 11. The abbreviations used in Table 11 are identical to those used in Table 10 except for the column which indicates the number of samples.

<u>10 High Days with Wind Data</u> - Table 12 lists the 10 highest 24-hour average TSP readings with the dates of occurrence for each TSP hi-vol site in Connecticut during 1980. This table also shows the average wind conditions which occurred on each of these dates. The resultant wind direction (DIR, in compass degrees from north) and velocity (VEL, in mph), the average wind speed (SPD, in mph), and the ratio between the velocity and the speed are presented for each of four National Weather Service stations located in or near Connecticut. (The resultant wind direction and velocity are vector quantities and are computed from the individual wind direction and speed readings in each day.) The closer the wind speed ratio is to 1.000, the more persistent the wind. Note that the Connecticut stations have local influences which change the speed and shift the direction of the near-surface air flow (e.g., the Bradley Field air flow is channeled north-south by the Connecticut River Valley and the Bridgeport air flow is subject to frequent sea breezes).

On a statewide basis, this table shows that most high TSP days occur with southwesterly winds and most of those days have persistent winds. This relationship between southwest winds and high TSP levels is more prodominant in southwestern Connecticut. However, many of the maximum levels at some urban sites do not occur with southwest winds, indicating that these sites are more influenced by local sources than by the transport of TSP with southwest winds. As noted above, a large scale southwesterly air flow is often diverted into a southerly flow up the Connecticut River Valley. At many sites in the Connecticut River Valley most of the highest TSP days occur when the winds at Bradley Airport are from the south.


| CONNECTICUT 1 | DEPARTM | ENT OF      | ENVIRONMEN | TAL FROTECT | NOI              | 940E             | 1 AI         | R COMPLIANCE                         | ONITCPINOW                           |
|---------------|---------|-------------|------------|-------------|------------------|------------------|--------------|--------------------------------------|--------------------------------------|
| OLLUTANTP     | ARTICUL | ATES        |            |             |                  |                  |              | DISTRIBUTION-                        | LOGN JEWAL                           |
| TOWN NAME     | SITE    | YEAR        | SAMPLES    | GEDM MEAN   | 95-PCT-<br>LOWER | ·LIMITS<br>UPPER | STD GEOM DEV | PREDICTEC<br>DAYS OVER<br>150 UG, MG | PREDICTED<br>DAYS QVER<br>260 UG, M3 |
| ∆h(∿c)NT∆     | 5       | 1001<br>000 | *<br>00    | 9 a b       | c<br>c           | 0<br>1           | 1.<br>545    | ດິ                                   | ហ                                    |
| AN JUNIA      | 55      | 1967        | *10        | 0.08        | 10               | - 0.0            | 1,703        | ະ<br>ເມ                              |                                      |
| AIND: NA      | 0       | 1968        | - 01<br>   | 97.2        | 99               | 133              | 2:120        | 100                                  | ы<br>С                               |
| AN SONIA      | 0       | 1969        | 25         | 102.5       | 97               | 114              | 1.310        | 5 K                                  |                                      |
| ANDENA        | 01      | 1970        | 25         | 132.4       | 113              | 156              | 1.498        | 133                                  | ÷                                    |
| ANSONIA       | 01      | 1971        | 12~        | 143.1       | 117              | 175              | 1.383        | 163                                  | 3 <b>1</b><br>₩                      |
| ANDONIA       | £0      | 1971        | 40*        | 107.5       | <del>3</del> 2   | 122              | 1.524        | 77                                   | ۰.<br>۲                              |
| AN SONIA      | ю<br>0  | 1972        | 50         | . 83.0      | 75               | 91               | 1.501        | 24                                   | <b>-</b>                             |
| ANDONIA       | 03      | 1973        | 57         | 57.3        | 2<br>2<br>2      | 00<br>00         | 1.789        | :6                                   | 2                                    |
| AUGONIA       | ео<br>0 | 1974        | 53         | 56.0        | 50               | 63               | 1.602        | 6                                    |                                      |
| ANDONIA       | Ю<br>О  | 1975        | 58         | 55.7        | 0<br>9           | 62               | 1.539        | 4                                    |                                      |
| ANDUNIA       | 03      | 1976        | 61         | 8-95<br>9   | 53               | 68               | 1.715        | ÷.                                   | <b>*</b>                             |
| ANDONIA       | 60      | 1977        | ,<br>23    | 63.1        | 57               | 02               | 1.537        | œ                                    |                                      |
| ANTENNA       | еo      | 1978        | 117        | 62.5        | 53               | 63               | 1.739        | 20                                   | ¢۷                                   |
| AN JONIA      | Е0      | 1979        | 115        | 56.6        | 53               | 60               | 1.527        | 4                                    |                                      |
| ANDONIA       | 03      | 1980        | 105        | 51.5        | 4<br>0           | ប្               | 1.613        | ى<br>ب                               |                                      |
| BERLIN        | 01      | 1973        | ភូមិ       | 38.6        | 35               | 43               | 1.562        |                                      |                                      |
| BEWLIN        | 10      | 1974        | 50<br>20   | 31.8        | 28               | 36               | 1.722        | <b></b>                              |                                      |
| BEPLIN        | 01      | 1975        | 50         | 36.6        | 93<br>93         | 41               | 1.532        |                                      |                                      |
| BERLIN        | 01      | 1976        | 134        | 38.0        | 29               | 40               | 1.538        |                                      |                                      |
| BEPLIN        | 0       | 1978        | 09         | 31.3        | 23               | 35<br>35         | 1.625        |                                      |                                      |
| BERLIN        | 010     | 1979        | ក<br>ហ     | 30.8        | 27               | 35               | 1.616        |                                      |                                      |
| BERLIN        | 01      | 1930        | មួ         | 30.3        | 27               | ተ<br>ጠ           | 1.601        |                                      |                                      |
| BR: DGEPORT   | 01      | 1970        | 27         | 65.0        | 5                | 77               | 1.551        | 0                                    | ,                                    |
| BR10GEPORT    | 01      | 1971        | ល          | 54.0        | С<br>С<br>С      | 6.0              | 1.445        | •                                    |                                      |
| BRIUGEPORT    | 01      | 1972        | 61         | 56.1        | 52               | 61               | 1.438        | •                                    |                                      |
| BR:UGEPORT    | 01      | 1973        | 60         | 45.5        | 42               | 50               | 1.463        |                                      |                                      |
| BRIUGEPORT    | 01      | 1974        | 60         | 48.6        | す                | ះ÷               | 1.554        | ä                                    |                                      |
| BRIDGEPORT    | 01      | 1975        | 60         | 51.9        | 40<br>10         | 56               | 1.416        | 1                                    |                                      |
| BRIDGEPORT    | 01      | 1976        | 51         | 54.3        | 49               | 0<br>1           | 1.595        | ហិ                                   |                                      |
| BRIDGEPORT    | 01      | 1977        | 58         | 56.7        | 52               | 62               | 1.448        | 54                                   |                                      |

# Table 6 1957-1980 TSP Annual Averages and Statistical Projections

| CONNECTICUT  | DEPARTN | MENT OF           | ENVIRONMEN                                                                                       | TAL PROTECT        | ICN               | PAGE                   | 2                                                                                 | R COMPLIANCE                        |                                     |   |
|--------------|---------|-------------------|--------------------------------------------------------------------------------------------------|--------------------|-------------------|------------------------|-----------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|---|
| POLLUTANTP   | ARTICUI | LATES             |                                                                                                  |                    |                   |                        | -                                                                                 |                                     |                                     |   |
|              |         |                   |                                                                                                  |                    |                   |                        | _                                                                                 |                                     |                                     |   |
| TOWN NAME    | SITE    | YEAR              | SAMPLES                                                                                          | NT 3W 8039         | 95-PCT-1<br>LOWER | STIMI-                 | STD GE3M DEV                                                                      | PREDICTEC<br>DAYS OVER<br>150 UC M0 | PREDICTED<br>DAVS CURE<br>DAO CORRE |   |
|              |         |                   |                                                                                                  |                    |                   |                        |                                                                                   |                                     |                                     |   |
| BR.DGEPORT   | 010     | 1978              | 53                                                                                               | 49.8               | 10                | វេ                     | 100                                                                               | •                                   |                                     |   |
| BRIDGEPORT   | 0       | 1979              | 60                                                                                               | 51.6               | ধ                 | ) L<br>                |                                                                                   | - (                                 |                                     |   |
| BR:UGEPORT   | 01      | 1980              | 57                                                                                               | 47.8               | 4.0               | . ຕ <b>າ</b><br>ທີ່ ທີ | 1.524                                                                             | (۲                                  |                                     |   |
| ROTOGEDORT   | ç       | 0<br>1<br>1       |                                                                                                  |                    |                   |                        |                                                                                   |                                     |                                     |   |
|              |         | 19/2              | 10*                                                                                              | 91.7               | 0<br>4            | 157                    | 2.138                                                                             | 100                                 | ፓ<br>c                              |   |
| GR (JGEFUR)  | 02      | 1973              | 61                                                                                               | 51.1               | 57                | 63                     | 1 576                                                                             |                                     | ŕ<br>t                              |   |
| BRIUGEPORT   | 02      | 1974              | 61                                                                                               | 40.7               | 4                 | ) •-                   |                                                                                   | t <                                 |                                     |   |
| AR LUGEPORT  | 02      | 1975              | *<br>01<br>10                                                                                    | 44.9               | 37                | ា<br>ហ                 |                                                                                   | t +                                 |                                     |   |
|              |         |                   |                                                                                                  |                    |                   | 1                      |                                                                                   |                                     |                                     |   |
| BR INGEPORT  | 05      | 1966              | ង<br>ហេ<br>ទា                                                                                    | ດ<br>ດີ<br>ດີ      | Tu<br>u           | r + +                  | С<br>(<br>1)<br>7                                                                 | (<br>L                              |                                     |   |
| BP1NGEPORT   | ហ<br>0  | 1967              | *<br>1 0<br>1 0                                                                                  | 5 10               | r r<br>3 0        | - t<br>- c             |                                                                                   | n<br>L                              | J                                   |   |
| BRILGEPORT   | ц<br>С  | ayot              | י<br>יי<br>יי                                                                                    | <b>† (</b><br>) () | N 4<br>D 1        | 101                    | 1.524                                                                             | 50                                  | <b>თ</b>                            |   |
| ROINGEDODT   |         |                   | 7                                                                                                | 1                  | 2                 | 68                     | 1.360                                                                             | {                                   |                                     |   |
|              | 0       | 2021              | 54<br>*-                                                                                         | 80.3               | 71                | 60                     | 1.300                                                                             | ო                                   |                                     |   |
| RRIDGEPORT   | сC +    | 10.75             |                                                                                                  |                    | ļ                 |                        |                                                                                   |                                     |                                     |   |
|              |         | n (<br>n (        | * D))                                                                                            | 1.00               | တ<br>က            | 75                     | 1.535                                                                             | 0                                   |                                     |   |
|              | 57.     | 19/61             | 60                                                                                               | 62.4               | 61                | 77                     | 1 638                                                                             | 00                                  | Ţ                                   |   |
| RKINGEPORT   | 123     | 1977              | 120                                                                                              | 20.02              | 67                | 75                     | ) ()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>()<br>( | ) ()<br>  +                         | •                                   |   |
| BR [LGEPORT  | 123     | 1978              | 120                                                                                              | 66.4               | t tr              | ) C<br>- F             |                                                                                   | ) c                                 | ſ                                   |   |
| BRIDGEPORT   | 123     | 1979              | 120                                                                                              | 64.9               | , i               | 4 C<br>- U             |                                                                                   | s I<br>V                            | 7                                   |   |
| BRIDGFPORT   | 103     |                   |                                                                                                  |                    | -                 |                        | 1.491                                                                             |                                     |                                     |   |
|              |         | 0<br>0            |                                                                                                  | 64.2               | 60                | 69                     | 1.669                                                                             | 16                                  | -                                   |   |
| ER; UGEPORT  | A 01    | 1960              | 5<br>4                                                                                           | 86, 5              | +.<br>t-          | 10 F                   | + 600                                                                             | C<br>U                              | Ŧ                                   |   |
| BRINGEPORT   | A 01    | 1962              | 26                                                                                               | 82.2               | 10.               | ) +<br>- +             |                                                                                   | ) (<br>) (                          | t                                   |   |
| BRIDGEPORT   | A 01    | 1966              | 40                                                                                               | C 01               | ) 5               | - ()<br>- ()<br>-      | 0 UU                                                                              | 210                                 | ·                                   |   |
| BRICGEPORT   | A 01    | 000               | . n                                                                                              |                    |                   | 0 0<br>D 1             | 1.055                                                                             | 35                                  | າງ                                  |   |
|              |         |                   | ו ר<br>או                                                                                        | 5<br>1<br>1        | 20                | 7                      | 1.270                                                                             |                                     |                                     |   |
|              | 5       | 2/2-              | 10                                                                                               | 63.9               | 40                | 75                     | 1.510                                                                             | t-                                  |                                     |   |
| BK . UGEPUKI | A 01    | 1971              | 26                                                                                               | 57.9               | 50                | 67                     | 0<br>4<br>7<br>1<br>0                                                             | . ר                                 |                                     |   |
| BRINGEPORT   | A 01    | 1972              | 30                                                                                               | 51.0               | 54                | C U                    | о<br>С<br>С<br>С                                                                  | 4 C                                 |                                     |   |
|              |         |                   |                                                                                                  |                    | ţ                 | 5                      | 000.1                                                                             | r                                   |                                     |   |
| BRISTOL      | 010     | 1970              | 10+                                                                                              | 40.0               | C E               | 5                      | 677 .                                                                             | ٤;                                  |                                     |   |
| BRISTOL      | 0       | 1071              | L<br>L                                                                                           | i c<br>u           |                   | )  <br>] [             | 0.7.7                                                                             | 1                                   |                                     |   |
|              |         | - t<br>- t<br>- t | † (<br>0 i                                                                                       | 4.01               | 4                 | 21                     | 1.642.                                                                            | <b>u")</b>                          |                                     |   |
|              | 5       | 2/21              | 5<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 51.1               | 45                | 90<br>0                | 1.510                                                                             | ç                                   |                                     |   |
| BRISIUL      | 61      | 1973              | 58                                                                                               | 52.5               | <u>ि</u> ष        | ດ<br>ທ                 | 1 573                                                                             | 1 -                                 |                                     |   |
| BRISTOL      | 5       | 1974              | U<br>L                                                                                           | 40 2               | d<br>C            |                        |                                                                                   | re                                  |                                     | • |
| BRISTOL      | 01      | 1075              | ) *:<br>) (3                                                                                     |                    | ) (<br>) '        |                        | 2000                                                                              | 24                                  |                                     |   |
|              | •       | )                 | †<br>N                                                                                           | י כ<br>י א<br>ד    | 5                 | 00<br>0                | 1,644                                                                             | 4                                   |                                     |   |
|              |         |                   |                                                                                                  |                    |                   |                        |                                                                                   |                                     |                                     |   |

. .

Table 6, Continued

| CONNECTICUT D     | EPARTM     | ENT OF B | ENVIRGNMEN.  | TAL PROTECT    | ION          | PAGE        | AIA &        | COMPLIANCE             | MCNITORING             |
|-------------------|------------|----------|--------------|----------------|--------------|-------------|--------------|------------------------|------------------------|
| OLLUTANTPA        | RTICUL     | ATES     |              |                |              |             | <u>с</u>     | ISTRIBUTION-           | TAW-DND1-              |
| •                 |            |          | -            | •              | .95-PCT-     | 1 IMITS     |              | PREDICTEU<br>DAYS DUFR | PREDICTEC<br>DAYS OVER |
| OWN NAME          | SITE       | YEAR     | SAMPLES      | GEOM MEAN      | LOWER        | LEPER       | STD GEOM DEV | 150 UG M3              | 260 UG, M3             |
| BRÍSTOL           | 01         | 1976     | ເຕັ          | 58.1           | 50           | 67          | 1.744        | 16                     | <b>.</b>               |
| 3R1STOL           | 6          | 1977     | 58           | 51.5           | 46           | 57          | 1.531        | 6                      |                        |
| 3R1STOL           | 0          | 1978     | 53           | 47.0           | 40           | 52          | 1.511        |                        |                        |
| 3RISTOL           | 5          | 1979     | 58           | 42.1           | 38           | 47          | 1.573        | -                      |                        |
| 3R [ STOL         | 0          | 1980     | 5.7          | 41.5           | 37           | 46          | 1.521        |                        |                        |
| 3RISTOL           | 02         | 1973     | 19*          | 28.2           | 23           | 35          | 1.583        |                        |                        |
| BRISTOL           | 02         | 1974     | 61           | 29.4           | 26           | 33          | 1.695        |                        |                        |
| 3RISTOL           | Ю<br>О     | 1973     | *00<br>*00   | 40.1           | 32           | 50          | 1.584        | ł                      |                        |
| BRISTOL           | 60         | 1974     | 0.0<br>0.0   | 35.2           | 31           | 40          | 1.653        | • •                    |                        |
| ( <b>01</b> 0,00  | 2          |          | Ċ            | с<br>с<br>ц    | ĊĊ           | (<br>(j     |              | C                      | ,                      |
|                   |            | 9 t C    | * 0<br>- 1   | <b>n</b><br>   | n •          | 010         | 557.1        | ю (                    |                        |
| SHINIUL -         | 5 I<br>7 I | 1974     | с<br>С       | ດ<br>ກ່າ<br>ຈຳ | 44           | រ<br>រ<br>រ | 1.607        | m                      |                        |
| 3R L:, TOL        | 04         | 1975     | 4<br>0       | 53.8           | 46           | 63          | 1.705        | -                      |                        |
| SRISTOL           | 04         | 1976     | 49           | 60.5           | 9<br>9<br>9  | 69          | 1.658        | 13                     | -                      |
| 3RISTOL           | 04         | 1977     | 61           | 56.1           | 52           | 61          | 1,405        | •                      |                        |
| BRISTOL           | 0<br>4     | 1978     | 45*          | 53.4           | 47           | 60          | 1.554        | 4                      |                        |
| BURL INGTON       | . 01       | 1973     | 25*          | 32.5           | 26           | 40          | 1 729        | -                      |                        |
| <b>BURLINGTON</b> | 01         | 1974     | 56           | 27.1           | 53           | 31          | 1.800        | +                      |                        |
| <b>BURLINGTON</b> | 61         | 1975     | 40*          | 27.5           | 24           | 32          | 1.680        | •                      |                        |
| BURL INGTON       | 5          | 1976     | * 2          | 24.3           | 14           | 41          | 1.791        |                        |                        |
| BURL INGTON       | 5          | 1978     | *00          | 26.1           | 22           | 31          | 1.843        | •••                    |                        |
| BURLINGTON        | 01         | 1979     | 116          | 24,4           | 22           | 26          | 1.745        |                        |                        |
| BURLINGTON        | 01         | 1980     | 1:7          | 25.3           | 23           | 27          | 1.665        |                        |                        |
| DANBURY           | 01         | 1966     | *<br>(Y      | 51.1           | 4<br>9       | 60          | 1.475        | <b>***</b>             |                        |
| DANBURY           | 5          | .1967    | <b>3</b> 8*  | 67.1           | វិ<br>ព<br>ព | 82          | 1.692        | 24                     |                        |
| DANBURY           | 5          | 1968     | 21*          | 113.4          | 84<br>44     | 154         | 1.990        | 126                    | 77                     |
| DANEURY           | 0          | 1969     | 16*          | 82.0           | 64<br>8      | 105         | 1.610        | 35                     | رر.                    |
| DANGURY           | 5          | 1970     | к)<br>*<br>* | 82.1           | 63           | 107         | 1.813        | 58                     | 10                     |
| DANEURY           | 01         | 1972     | ů            | B≊.1           | 4G           | 159         | 2.154        | 17                     | 24                     |
| DANBURY           | <u>0</u>   | 1973     | 38           | 59.1           | 0<br>4       | 70          | 1.782        | 20                     | Ń                      |
| DANBURY           | 01         | 1974     | 51           | 51.5           | 46           | ភូន         | 1.588        | <b>ব</b>               | ,                      |

| CONNECTICUT DE | PARTM                           | ENT OF | ENV I RONMEN | TAL PROTECT           | NOI              | PAGE            | 4 AI         | R COMPLIANCE                        | MONITCRING                          |    |
|----------------|---------------------------------|--------|--------------|-----------------------|------------------|-----------------|--------------|-------------------------------------|-------------------------------------|----|
| POLLUTANTPAR   | TICUL                           | ATES   |              |                       |                  |                 |              | DISTRIBUTION-                       | J AMEGNOOJ                          |    |
| TOWN NAME      | SITE                            | YEAR   | SAMPLES      | GEOM MEAN             | 95-PCT-<br>LOWER | LIMITS<br>UPPER | SID GEOM DEV | PREDICTED<br>DAYS OVER<br>150 UG/M3 | PREDICTED<br>DAYS OVER<br>260 UG/M3 |    |
| ранеику        | 6                               | 1975   | *<br>Ø       | 58.1                  | 37               | 91              | 1.722        | -<br>-<br>-                         | -                                   |    |
| DANBURY        | 123                             | 1975   | 49≁          | 53.2                  | 48               | 59              | 1.431        | ۲                                   |                                     | •• |
| DANBURY        | 123                             | 1976   | 60           | 53.0                  | 47               | 60              | 1.671        | 80                                  |                                     |    |
|                | 5) (C<br>(N) (C<br>(C) (F       | 1970   | 00 C         | 00.00<br>00.00<br>000 | to v             | 0 u<br>1 0      | 1.560        | ۰<br>۱                              |                                     |    |
| DAMBURY        | 2 0<br>7 0<br>7 0<br>7 0<br>7 0 | 1979   | ວ່<br>ບໍ່    | 54.4<br>10            | τ<br>1 4<br>1 α  | , c<br>, c      | 1.001        | ~ 00                                |                                     |    |
| DANBURY        | 123                             | 1980   | 58           | 48.9                  | 44               | ល               | 1.595        | ) M                                 |                                     |    |
| DANBURY 01/    | 123                             | 1975   | 57           | 53.9                  | 49               | ະ.ຫ<br>ດ        | 1.478        | CI.                                 |                                     |    |
| DERBY          | 123                             | 1975   | *0           | 55,0                  | 45               | 67              | 1.522        | ო                                   |                                     |    |
| речаү          | 123                             | 1976   | 58           | 6-23.9                | 48               | 61              | 1.634        | 6                                   |                                     |    |
| DERBY .        | 123                             | 1977   | 60           | 53.9                  | 50               | 58              | 1.410        |                                     |                                     |    |
| DERBY          | 123                             | 1978   | 40*          | 48,5                  | 4                | 20              | 1.604        | <b>ന</b>                            |                                     |    |
| EAST HARTFORD  | 01                              | 1974   | 42*          | 42.8                  | 37               | 49              | 1,605        | ,<br><b>5</b> -                     |                                     |    |
| EAST HARTFORD  | 5                               | 1975   | 58           | 49.3                  | 44               | 56              | 1,679        |                                     |                                     |    |
| EASE HARTFORD  | 01                              | 1976   | 11*          | 35.4                  | 21               | 60              | 2.212        | 13                                  | и                                   |    |
| EAST HARTFORD  | 02                              | 1974   | *10          | 41.2                  | 36               | 47              | 1.560        | •                                   |                                     |    |
| EAST HARTFORD  | 02                              | 1975   | 5<br>2<br>2  | 46.6                  | 42               | 52              | 1.540        | •                                   |                                     |    |
| EASE HARTFORD  | 02                              | 1976   | 53           | 41.2                  | 36               | 47              | 1.680        | 2                                   |                                     |    |
| EAST HARTFORD  | 02                              | 1977   | 60           | 47.3                  | 42               | 53              | 1.589        | 2                                   |                                     |    |
| EAST HARTFORD  | 02                              | 1978   | 58           | 49,8                  | 44               | 56              | 1.679        | 7                                   |                                     |    |
| EAST HARTFORD  | 02                              | 1979   | 57           | 44.7                  | 64               | 50              | 1.558        | <b>.</b>                            |                                     |    |
| EASI WINDSOR   | 01                              | 1975   | 80<br>M      | 51.4                  | 45               | 53              | 1.533        | N                                   |                                     |    |
| EASTWINDSOR    | 01                              | 1976   | *0           | 69.0                  | 54               | 88              | 1.512        | 10                                  | <b>1</b>                            |    |
| ENFIELD        | 01                              | 1966   | 12*          | 71:3                  | 53               | 87              | 1.366        | ິຕ                                  |                                     |    |
| ENFIELD        | 5                               | 1967   | 35*          | 76.2                  | 64               | 06              | 1.676        | 35                                  | ັຕ                                  |    |
| ENFIELD        | 5                               | 1968   | *œ           | 99.4                  | 70               | 141             | 2.070        | 1002                                | 35                                  |    |
| ENFIELD        | <u>0</u>                        | 1969   | *or          | 63.6                  | 52               | 91              | 1.810        | 35,                                 | ŝ                                   |    |
| ENFIELD        | 5                               | 1970   | 22*          | 82.4                  | 70               | 97              | 1.466        | 20                                  |                                     |    |

| CONNECTICUT | DEPAR   | TMEN                       | ш<br>ПО<br>Г | V I RONMENT      | AL PROTECTI  | ION              | PAGE            | 5 AIF        | COMPLIANCE                          | MONITORING                          |  |
|-------------|---------|----------------------------|--------------|------------------|--------------|------------------|-----------------|--------------|-------------------------------------|-------------------------------------|--|
| POLLUTANTF  | ARTI CL | JLATE                      | S            |                  |              |                  |                 |              | ISTRIBUTION-                        | LOGN CRMAL                          |  |
| TOWN NAME   | SITE    | и.                         | EAR          | SAMPLES          | GEOM MEAN    | 95-PCT-<br>LOWER | LIMITS<br>UPPER | STD GEOM DEV | PREDICTED<br>DAYS OVER<br>150 UG/M3 | PREDICTED<br>DAYS OVER<br>260 UG/M3 |  |
| ENFIELD     | 0       | 1                          | 971          | 44               | 80 <b>.9</b> | 02               | 94              | 1.686        | 42                                  | ហ                                   |  |
| ENFIELD     | õ       | 1 19                       | 972          | 36               | 74.4         | 60               | 92              | 1.940        | . 50                                | 10                                  |  |
| ENFIELD     | ō       | 1 15                       | 973          | 50               | 55.6         | 49               | 63              | 1.627        | 80                                  |                                     |  |
| ENFIELD     | Ö       | 1                          | 974          | 0<br>0           | 50.5         | 4<br>0           | 57              | 1.654        | ۍ<br>۱                              |                                     |  |
| ENF LELD    | ō       | 1                          | 975          | 21*              | 62.7         | 52               | 76              | 1.558        | Ø                                   |                                     |  |
| ENF I ELD   | ö       | с<br>1<br>1<br>1<br>1<br>1 | 972          | *00              | 64.3         | 50               | 83              | 1.363        | **                                  |                                     |  |
| ENFIELD     | 12:     | е<br>1                     | 975          | *<br>ຕ           | 38.6         | 33               | 4<br>5          | 1.562        |                                     |                                     |  |
| ENF I ELD   | 12,     | 3 15                       | 976          | 55               | 43.2         | 33               | 4               | 1.638        | 2                                   |                                     |  |
| ENFIELD     | 12      | 31 6                       | 977          | 54               | 40.4         | 37               | 4               | 1.487        |                                     |                                     |  |
| ENFIELD     | 12      | е<br>П                     | 978          | 50<br>20         | 41.6         | 38               | 46              | 1.513        |                                     |                                     |  |
| ENFIELD     | 12      | 3 15                       | 979          | 59               | 40.8         | 37               | 4<br>Մ          | 1.575        | 4                                   |                                     |  |
| ENFIELD .   | 12      | τ<br>e                     | 086          | 59               | 37.3         | 34               | 41              | 1.514        |                                     |                                     |  |
| ENFIELD 0   | 1/ 12   |                            | 975          | 54               | 46.6         | 41               | ε<br>Ω          | 1.655        | 4                                   |                                     |  |
| FAIRFIELD   | ö       | т<br>17                    | 966          | . <del>*</del> • | 38.3         | 33               | 44              | 1.523        |                                     |                                     |  |
| FAIRFIELD   | õ       | 5                          | 967          | . 36*            | 44.0         | <b>6</b> E       | 50              | 1.455        |                                     |                                     |  |
| FA:RFIELD   | ä       | 2                          | 968          | 20*              | 49.8         | 40               | 62              | 1.600        | 4                                   |                                     |  |
| FAIRFIELD   | Ö       | μ<br>γ                     | 696          | 20               | 36.9         | 30               | 46              | 1.600        |                                     |                                     |  |
| FAIHFIELD   | Ö       | μ<br>N                     | 970          | 27               | 44.1         | 35               | 56              | 1.883        | 10                                  | T                                   |  |
| FAIRFIELD   | o       | е<br>П                     | 971          | 46               | 65.6         | 56               | 77              | 1.806        | 29                                  | 4                                   |  |
| FAIRFIELD   | o       | 5                          | 972          | 56               | . 43.9       | 40               | 48              | 1.459        |                                     |                                     |  |
| FAIRFIELD   | o       | сч                         | 973          | 41               | 43.6         | 4                | 47              | 1.305        |                                     |                                     |  |
| FAIRFIELD   | o       | 2                          | 974          | 47               | 42.3         | 99<br>9          | 46              | 1.384        |                                     |                                     |  |
| FA[RFIELD . | o       | 5                          | 975          | 34*              | 44.9         | 60<br>0          | 52              | 1.558        | -                                   | -                                   |  |
| GREENWICH   | 0       | **                         | 968          | 25*              | 62.4         | 23               | 75              | 1.610        | 13                                  |                                     |  |
| GREENWICH   | 0       | •                          | 969          | 26               | 62.0         | 5<br>L           | 76              | 1.660        | 16                                  | •                                   |  |
| GREENWICH   | 0       | +                          | 970          | 25               | 55.4         | 4                | 69              | 1.752        | 13                                  | ٢                                   |  |
| GREENWICH   | 0       | 1                          | 97'1         | 52               | 53.9         | 49               | 60              | 1.505        | 7                                   |                                     |  |
| GREENWICH   | 0       | -                          | 97,2         | 58               | 56.9         | 50               | 65              | 1.702        |                                     | <b>7-</b>                           |  |
| GREENWICH   | 0       | -                          | 973          | 56               | 46,5         | 47               | 5               | 1.491        | •                                   |                                     |  |
| GREENWICH   | 0       |                            | 974          | 54               | 52.1         | 46               | 6<br>G          | 1.619        | ۱ñ<br>۲                             |                                     |  |
|             |         |                            |              |                  |              |                  |                 |              | •                                   |                                     |  |

| CONNECTICUT      | DEPARTW    | ENT OF       | ENVIRONMEN  | TAL PROTECT | NOI               | PAGE                                                                                             | 6 AI         | R COMPLIANCE                         | ENIFORINOM                          |
|------------------|------------|--------------|-------------|-------------|-------------------|--------------------------------------------------------------------------------------------------|--------------|--------------------------------------|-------------------------------------|
| POLLUTANTP       | ARTICUL    | ATES         |             |             |                   |                                                                                                  |              | DISTRIBUTION-                        |                                     |
| TOWN NAME        | SITE       | YEAR         | SAMPLES     | GEOM WEAN   | 95-PCT-<br>LOWER  | LIMITS<br>UPPER                                                                                  | STD GEOM DEV | PREDICTED<br>DAYS CVER<br>150 UC, M3 | PREDICTED<br>DAYS OVER<br>280 UG.M3 |
| GREENWICH        | 01         | 1975         | 27.*        | 62.7        | 51                | 78                                                                                               | 1.761        | 24                                   | й                                   |
| GREENWICH        | 6          | 1976         | ю<br>С      | 54.4        | 0<br>4            | 61                                                                                               | 1.567        | す                                    | ÷                                   |
| GREF NWICH       | 01         | 1977         | ហ<br>បា     | 57.7        | 52                | 64                                                                                               | 1.515        | 4                                    |                                     |
| GREENWICH        | 01         | 1978         | *44         | 54.9        | 4                 | 63                                                                                               | 1.624        | 2                                    |                                     |
| GREENWICH .      | 02         | <b>19</b> 66 | *<br>0<br>7 | 59.2        | 50                | 70                                                                                               | 1.567        |                                      |                                     |
| GREENWICH        | 02         | 1967         | ດ<br>ເມ     | 69.1        | 56                | 78                                                                                               | 1.634        | 16                                   | -                                   |
| <b>GREENWICH</b> | 02         | 1968         | 26          | 61.2        | 40                | 78                                                                                               | 1.870        | 29                                   | 4                                   |
| GREENWICH        | 03         | 1969         | 25          | 54.7        | 46                | 65                                                                                               | 1.530        | ო                                    |                                     |
| <b>GREENWICH</b> | 02         | 1970         | 24          | 53.0        | 4 G               | 6<br>5                                                                                           | 1.636        | 7                                    |                                     |
| GREENWICH        | 02         | 1971         | មា<br>ហ     | 60.2        | មា<br>ព្រ         | 69                                                                                               | 1.478        | ष                                    |                                     |
| GREENWICH        | 02         | 1972         | 61          | 60.5        | <del>ក</del><br>ស | 69                                                                                               | 1.700        | 16                                   | 77                                  |
| GREENWICH        | 02         | 1973         | 58          | 58.1        | 52                | 65                                                                                               | 1.570        | 7                                    |                                     |
| GREENWICH        | 02         | 1974         | 50          | 51.3        | 4<br>0            | 58                                                                                               | 1.675        | 2                                    |                                     |
| GREE NWICH       | 02         | 1975         | 58          | 52.6        | 46                | 60                                                                                               | 1.676        | œ                                    |                                     |
| GREENWICH        | 02         | 1976         | 16*         | 54.6        | 44                | 68                                                                                               | 1.502        | <b>ci</b>                            |                                     |
| GREENWICH        | 03         | <b>19</b> 63 | 21          | 53.2        | 43                | 60                                                                                               | 1.650        | 7                                    |                                     |
| GREENWICH        | е0<br>Э    | 1969         | 23          | 51.9        | 44                | 61                                                                                               | 1.480        | -                                    |                                     |
| GREENWICH        | ຕ <u>ວ</u> | 1970         | 26          | 56.2        | 4<br>0            | 66                                                                                               | 1.508        | <b>ო</b>                             |                                     |
| GREE NWICH       | 03         | 1971         | 54          | 58.4        | ល<br>ហ            | - 64                                                                                             | 1.455        | ы                                    |                                     |
| GREENWICH        | ео<br>0    | 1972         | 60          | 55.4        | ເ                 | 63                                                                                               | 1.576        | S<br>S                               |                                     |
| GREENWICH        | е <b>о</b> | 1973         | 9<br>9<br>9 | 51.1        | 46                | 57                                                                                               | 1.568        | ຕ                                    |                                     |
| GREENWICH        | 60         | 1974         | ម<br>ព      | ດ.<br>ເບີ   | 47                | 58                                                                                               | 1.555        | ო                                    |                                     |
| GREENWICH        | то<br>0    | 1975         | с<br>ц      | 50.1        | 4<br>0            | រ<br>ខ្                                                                                          | 1.530        | 6                                    |                                     |
| GREENWICH        | 60         | 1976         | មា          | 55.8        | 50                | 63                                                                                               | 1.580        | ŝ                                    |                                     |
| GREENWICH        | е<br>0     | 1977         | មិល         | 53.2        | 54                | 65                                                                                               | 1.444        | ы                                    |                                     |
| GREENWICH        | 03         | 1978         | 4<br>8      | 58.1        | 20                | 67                                                                                               | 1.631        | 10                                   |                                     |
| GREENWICH        | 04         | 1973         | 47*         | 42.1        | 36                | 9<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 1.751        | ৸                                    |                                     |
| GREENWICH        | 04         | 1974         | 58          | 40.1        | 35                | 46                                                                                               | 1.733        | m                                    |                                     |
| GREENWICH        | 04         | 1975         | 56          | 37.4        | e<br>e            | 43                                                                                               | 1.747        | ณ                                    |                                     |
| GREENWICH        | 04         | 1976         | 57          | 40.3        | 35                | 46                                                                                               | 1.755        | শ                                    |                                     |
| GREENWICH        | 04         | 1977         | ខួខ         | 42.3        | 38                | 47                                                                                               | 1.589        | <b>*</b>                             |                                     |
| GREENWICH        | 04         | 1978         | 58          | 36.4        | 32                | 41                                                                                               | 1.673        | 1                                    |                                     |

| CONNECTICUT      | DEPARTM          | ENT. OF | ENVIRONMEN | TAL PROTECT | NOI              | PAGE             | 7 AI         | R COMPLIANCE                        | SNITCRINDW                          |
|------------------|------------------|---------|------------|-------------|------------------|------------------|--------------|-------------------------------------|-------------------------------------|
| POLLUTANTF       | ARTI CUL.        | ATES    |            |             |                  | •.               |              | DISTRIBUTION                        | LOGNORMAL                           |
| TOWN NAME        | SITE             | YEAR    | SAMPLES    | GEON MEAN   | 95-PCT-<br>LOWER | -LIMITS<br>UPPER | STD GEOM DEV | FREDICTED<br>DAYS CVER<br>150 UG/M3 | PREDICTED<br>DAYS CVER<br>260 UG.M3 |
| GREENWICH        | 04               | 1979    | ις<br>L    | 37.9        | ee               | 43               | 1.719        | 0                                   |                                     |
| GREENWICH        | 40               | 1980    | 60         | 35.7        | 9 19             | 40               | 1.647        | <b>8</b>                            |                                     |
| GREENWICH        | 07               | 1968    | *<br>ភា    | 32.8        | 22               | 48               | 1.650        |                                     |                                     |
| GREENWICH        | 07               | 1969    | 24         | 39-6        | 32               | 4<br>8           | 1.630        |                                     | ,                                   |
| GREENWICH        | 07               | 1970    | 26         | 49.1        | 41               | 59               | 1,622        | 4                                   |                                     |
| GREENWICH        | 07               | 1971    | 55         | 45.6        | 4                | 51               | 1.587        | N                                   |                                     |
| GREENWICH        | 67               | 1972    | 60         | 33.6        | 93<br>93         | 4<br>U           | 1.850        | ហ                                   |                                     |
| GREENWICH        | 07               | 1973    | 50<br>20   | 36.1        | 32               | 41               | 1.607        |                                     |                                     |
| GREENWICH        | 20               | 1974    | 60         | 43.8        | 39               | 49               | 1.652        | m                                   |                                     |
| GREENWICH        | 80               | 1970    | * 2        | 83.5<br>8   | 90<br>90         | 177              | 2.273        | 88                                  | 39                                  |
| GREENWICH        | 08               | 1971    | 50         | 74.9        | 68               | 83               | 1.451        | 10                                  |                                     |
| GREENWICH        | 08               | 1972    | 57         | 70.4        | 63               | 79               | 1.575        | 16                                  |                                     |
| GREENWICH        | 08               | 1973    | 59         | 62.7        | 50               | 70               | 1.620        | 13                                  | *                                   |
| GREENWICH        | 08               | 1974    | 61         | 64.5        | 58               | 72               | 1.608        | 10                                  | •                                   |
| GREENWICH        | 08               | 1975    | - 59       | 61.5        | 53               | 68               | 1.512        | មា                                  |                                     |
| <b>GREENWICH</b> | 08               | 1976    | 57         | 55.2        | 4<br>0           | 62               | 1.668        | യ                                   |                                     |
| GREENWICH        | 08               | 1977    | 60         | 61.2        | 55               | 68               | 1.547        | 7                                   |                                     |
| GREENWICH        | 08               | 1978    | 57         | 51.3        | 45               | ម<br>ភូមិ        | 1.723        | യ                                   |                                     |
| GREENWICH        | 08               | 1979    | 60         | 68.9        | 60               | 80               | 1.858        | ល                                   | (                                   |
| GREENWICH        | 08               | 1980    | 53         | 51.5        | 46               | 57               | 1.580        | প                                   |                                     |
| GREENWICH        | 14               | 1974    | 09         | 63.0        | 57               | 69               | 1.501        | 7                                   |                                     |
| GREENWICH        | 14               | 1975    | 28*        | 53.5        | 52               | 69               | 1.363        |                                     |                                     |
| GREENWICH        | 16               | 1980    | . *<br>ຫ   | 53.5        | 34               | 84               | 1.797        | 13                                  | -                                   |
|                  |                  |         |            |             |                  |                  |              | ,                                   | •                                   |
| GROTON           | 010              | 1967    | 16*        | 36.4        | 28               | 47               | 1.631        | -                                   |                                     |
| GROTON           | 6                | 1968    | 21*        | 61.2        | 46               | 60               | 1.860        | 29                                  | 4                                   |
| GRUTON           | 010              | 1969    | 25         | 72.5        | 62               | 84               | 1.460        | 10                                  |                                     |
| GROTON           | 5                | 1970    | 25         | 1 02.5      | 86               | 122              | 1.555        | 67                                  | I~ 1                                |
| GROTON           | 5                | 1971    | 53         | 87.4        | 77               | <del>6</del> 6   | 1.638        | 50                                  | л                                   |
| GROTON           | 5                | 1972    | 56         | 46.2        | 40               | ខ្មែ             | 1.716        | n                                   |                                     |
| GROTON           | - <mark>0</mark> | 1973    | 52         | 34.8        | 31               | 6<br>0           | 1.652        | •-                                  |                                     |

| CONNECTICUT                                                                                              | DEPARTN                                 | HENT OF                                              | ENV I RONMEN                                                                                     | TAL PROTECT                                                                                      | ION                                       | PAGE                              | თ                                                           | AIR COMPLIANCE                        | CNIGOLINOM                                                                                  |  |
|----------------------------------------------------------------------------------------------------------|-----------------------------------------|------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------|-----------------------------------|-------------------------------------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------|--|
| POLLUTANTP                                                                                               | ARTICUL                                 | ATES                                                 |                                                                                                  |                                                                                                  | ,                                         |                                   |                                                             | DISTRIBUTION                          | LOGN GRMAL                                                                                  |  |
| TGWN NAME                                                                                                | SITE                                    | YEAR                                                 | SAMPLES                                                                                          | GEOM MEAN                                                                                        | 95-PCT-I<br>LGWER                         | LIMITS<br>UPPER                   | STD GEOM DE                                                 | PREDICTED<br>DAYS GVEP<br>V 150 UG/M3 | PREDICTED<br>DAYS OVER<br>260 UG/M3                                                         |  |
| GRUTON<br>GRUTON                                                                                         | 66                                      | 1974<br>1975                                         | 61.<br>25*                                                                                       | 34.5<br>38.5                                                                                     | 35<br>35                                  | 39<br>47                          | 1.674                                                       | •<br>•                                |                                                                                             |  |
| GROTON<br>GROTON                                                                                         | 0 0<br>4 4                              | 1966<br>1967                                         | €<br>4<br>4<br>4                                                                                 | 44.8<br>40.3                                                                                     | 28<br>30                                  | 7<br>55<br>5                      | 1.584                                                       | () ()                                 |                                                                                             |  |
| GROTON<br>GROTON                                                                                         | 1 23                                    | 1975<br>1976                                         | ា<br>ព<br>ព<br>ព<br>ព<br>ព<br>ព<br>ព<br>ព<br>ព<br>ព<br>ព<br>ព<br>ព<br>ព<br>ព<br>ព<br>ព<br>ព<br>ព | 38.8<br>44.7                                                                                     | 9<br>4<br>1<br>1                          | 4 4<br>4 0                        | 1.495                                                       |                                       |                                                                                             |  |
| GRUTUN<br>GROTON<br>GROTON                                                                               | 123                                     | 1977<br>1978<br>1 <b>9</b> 79                        | 61<br>29*                                                                                        | 42.7<br>40.7<br>32.8                                                                             | 39<br>37<br>27                            | 444                               | 1.542<br>1.462<br>1.733                                     | • •                                   |                                                                                             |  |
| GROTON 01                                                                                                | / 123                                   | 1975                                                 | 60                                                                                               | 38.7                                                                                             | 35                                        | 64<br>10                          | 1.555                                                       |                                       |                                                                                             |  |
| HADDAM<br>HADDAM<br>HADDAM<br>HADDAM<br>MADDAM                                                           | 00000                                   | 1975<br>1975<br>1976<br>1976                         | 4 ហ ហ ហ n<br>4 ០ ಙ ០ c                                                                           | 8<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 | 8 8 8 8 8<br>8 9 8 8 8                    | 8 C O 8 C                         | 1.649<br>1.523<br>1.548<br>1.548                            | -                                     |                                                                                             |  |
| HADDAM<br>HADDAM<br>HADDAM                                                                               | 000                                     | 1979<br>1980                                         | 000                                                                                              | 32.3<br>31.4                                                                                     | 5 7 7<br>5 7 7                            | 9 0 0 1<br>0 0 0                  | 1.565<br>1.565<br>1.609                                     |                                       |                                                                                             |  |
| HARTFORD<br>HARTFORD<br>HARTFORD<br>HARTFORD<br>HARTFORD<br>HARTFORD<br>HARTFORD<br>HARTFORD<br>HARTFORD | 000000000000000000000000000000000000000 | 11000110001<br>000110001<br>0001001000<br>0001000000 | ი⊬ოიოო4<br>4⊬⊬იაა4<br>**                                                                         | 00000000000000000000000000000000000000                                                           | 0444444<br>000000000000000000000000000000 | កលកលកលក<br>សហលាល ស<br>សហលាល 4 លាល | 1.374<br>1.572<br>1.572<br>1.572<br>1.650<br>1.466<br>1.472 | N N ++ ++ - 00                        |                                                                                             |  |
| HARTFORD<br>HARTFORD<br>HARTFORD<br>HARTFORD<br>HARTFORD<br>HARTFORD                                     | 0 0 0 0 0<br>0 0 0 0 0                  | 1967<br>1968<br>1968<br>1970                         | 44<br>46<br>46<br>46<br>7<br>7<br>7<br>4<br>6<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0       | 1 3 3 2 4 3 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4                                                        | 11<br>95<br>99<br>83<br>99                | 153<br>1127<br>1127<br>191        |                                                             |                                       | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |

| AIR COMPLIANCE MONITORING |
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| PAGE                      |
| PROTECTION                |
| OF ENVIRONMENTAL          |
| DEPARTMENT                |
| CONNECTICUT               |

| LLUTANT | -PARTI CUL   | ATES              |                   |           |                  |                 |              | DISTRIBUTION                        | LOGNGRMAL                           |
|---------|--------------|-------------------|-------------------|-----------|------------------|-----------------|--------------|-------------------------------------|-------------------------------------|
| NAME    | SITE         | YEAR              | SAMPLES           | GEOM MEAN | 95-PCT-<br>LOWER | LIMITS<br>UPPER | STD GEOM DEV | PREDICTED<br>DAYS CVER<br>150 UG/M3 | PREDICTED<br>DAYS OVER<br>260 UG/M3 |
| FORD    | E0.          | 1972              | 139               | 74.3      | 70               | 79              | 1 602        | 70                                  | <del>.</del>                        |
| FORD    | ΕO           | 1973              | *<br>8<br>8       | 80.7      | 71               | 92              | 1.474        | .0                                  |                                     |
| FORD    | 03           | 1974              | 52                | 62.4      | 56               | 70              | 1.599        | 0                                   |                                     |
| FORD    | 03           | 1975              | 60                | 68.5      | 63               | 75              | 1.471        | ω                                   |                                     |
| FORD    | 03           | 1976              | 58                | 73.5      | 67               | 81              | 1.496        |                                     |                                     |
| FORD    | 03           | 1977              | 105               | 66.2      | 62               | 71              | 1.568        | - <u>m</u>                          |                                     |
| FORD    | . 80         | 1978              | 119               | 64.6      | 60               | 69              | 1.596        | 5                                   |                                     |
| FORD    | 60           | 1979              | . 116             | 61.3      | 58               | 65              | 1.460        | m                                   |                                     |
| FORD    | 03           | 1980              | 121               | 53.7      | ŝ.               | 57              | 1.506        | N                                   |                                     |
| FORD    | 04           | 1968              | 18*.              | 80.6      | 60               | 108             | 1.810        | 99<br>12:                           | α                                   |
| FORD    | 40           | 1969              | 20*               | 119.2     | 92               | 1 ខ្មែរ<br>ព    | 1.770        | 126                                 | 50                                  |
| FORD    | 04           | 1970              | 4 O *             | 158.2     | 104              | 241             | 2.029        | 197                                 | n<br>Ø                              |
| FORD    | 04           | 1972              | 40                | 47.8      | 40               | 57              | 1.757        | . 00                                | 1                                   |
| FORD    | 40           | 1973              | 49                | 49.6      | 43               | 57              | 1.635        | 4                                   |                                     |
| FORD    | + 0 +        | 1974              | 42*               | 48.4      | 42               | 56              | 1.653        | ধ                                   |                                     |
| FORD    | 0<br>4       | 1975              | 58.               | 47.1      | 43               | 52              | 1.527        | . <b></b> .                         |                                     |
| FORD    | 0            | 1976              | *0 <del>-</del> - | 58.6      | 44               | 78              | 1.624        | 10                                  |                                     |
| FORD    | 05           | 1 <del>9</del> 68 | 16*               | 60.7      | 48               | 76              | 1.550        | 2                                   |                                     |
| FORD    | 05           | 1969              | 24                | 53.9      | 4                | 69              | 1.820        | 16                                  | 2                                   |
| FORD    | 05           | 1970              | 13,*              | 101.8     | . 69             | 150             | 1.917        | 100                                 | 29                                  |
| FORD    | 05           | 1971              | 18*               | 117.6     | 68               | 155             | 1,761        | 126                                 | 29                                  |
| FORD    | 02           | 1974              | 48*               | 43.1      | 38               | 49              | 1.623        | 0                                   |                                     |
| FORD    | . 05         | 1975              | 58                | 50.2      | 45<br>1          | 56              | 1.547        | 0                                   |                                     |
| FORD    | 05           | 1976              | 12*               | 55.8      | 44               | 71              | 1.481        | 3                                   |                                     |
| FORD    | 10           | 1966              | 210               | 100.1     | 96               | 104             | 1.597        | . 67                                | σ                                   |
| FORD    | 10           | .1967             | 329               | 90.6      | ტ<br>ც           | 92              | 1.658        | 58                                  | 2                                   |
| FORD    | 10           | 1968              | 96*               | 97.0      | 06               | 104             | 1.510        | 50                                  | m                                   |
| FORD    | <del>6</del> | 1967              | 32+               | 113.1     | 16               | 131             | 1,546        | 100                                 | 10                                  |
| FORD    | 123          | 1976              | 40*               | 47.7      | 40               | 57              | 1.455        |                                     |                                     |
| FORD    | 123          | 1977              | 60                | 65.7      | ហ                | 73              | 1.542        | 10                                  |                                     |

| CONNECTICUT                      | DEPA        | RTME                                                                            | INT OF               | ENVIRONMEN       | TAL FROTECT          | ION                   | PAGE                    | 10 AII                  | R COMPLIANCE                         | MONITCRING                          |  |
|----------------------------------|-------------|---------------------------------------------------------------------------------|----------------------|------------------|----------------------|-----------------------|-------------------------|-------------------------|--------------------------------------|-------------------------------------|--|
| POLLUTANT                        | PARTI       | CULA                                                                            | TES                  |                  |                      |                       |                         | 1                       | DISTRIEUT (CN-                       | LOGNORWAL                           |  |
| TOWN NAME                        | IS          | ш<br>Н                                                                          | YEAR                 | SAMPLES          | GEOM MEAN            | 95+PCT-<br>LOVER      | ·LIMITS<br>UPPER        | STD GEOM DEV            | PREDICTED<br>DAYS OVET<br>150 UG, M3 | PREDICTED<br>DAYS DVER<br>260 LG/M3 |  |
| HARTFORD<br>HARTFORD<br>HARTFORD | dan dun dan | 53<br>53<br>53<br>53<br>53<br>53<br>53<br>53<br>53<br>53<br>53<br>53<br>53<br>5 | 1978<br>1979<br>1980 | 59<br>57         | 67.1<br>66.5<br>55.2 | 90<br>90<br>*         | 74<br>73<br>61          | 1.519<br>1.453<br>1.485 | <u>с</u><br>010 и                    |                                     |  |
| HARTFORD                         | 4           | 10                                                                              | 1957                 | 26               | 110.4                | 00                    | 100<br>100<br>100       | 1.680                   | 0.0                                  | ι <u>ο</u> (<br><del>-</del>        |  |
| HARIFORD<br>HARIFORD             | ৰ ৰ         | 50                                                                              | 1908<br>1908<br>1908 | 0<br>0<br>0<br>0 | 80.6<br>79.6         | 66<br>73<br>6         | 00 M<br>00 00           | 1,500                   | 0 0<br>0 0                           | ŋ <del></del>                       |  |
| HARTFORD                         | . ∢         | 6                                                                               | 1960                 | 26               | 105.0                | 0<br>0<br>0<br>0      | 123                     | 1.510                   | 67                                   | ເບ                                  |  |
| HARTFORD                         | 4 ہ         | 61                                                                              | 1961                 | 53               | 72.2                 | 62                    | 83                      | 1.410                   | 1 2 2 2                              | •                                   |  |
|                                  | <b>a</b> <  | 56                                                                              | 1962                 | ю и<br>С 6       | 112,C                | າ<br>ເງິນ<br>ເ        | 1 2 1<br>1 2 1<br>2 2 1 | 1,600                   | 00L<br>26                            | n                                   |  |
| HARTFORD                         | ۲ م         | 55                                                                              | 1964                 | ט גי<br>א גי     | 105.5                | 0<br>0<br>0<br>0<br>0 | 130                     | 1.690                   | 9<br>9<br>9<br>9                     | α<br>-                              |  |
| HARTFORD                         | 4           | 01                                                                              | 1965                 | 25               | 84.4                 | 71                    | 100                     | 1.530                   | 23                                   | 24                                  |  |
| HARIFORD                         | ۲           | 01                                                                              | 1966                 | 26               | 81.5                 | 68                    | 9 <b>9</b>              | 1.590                   | ម<br>ខ                               |                                     |  |
| HARIFORD                         | A           | 01                                                                              | 1967                 | 26               | 76.0                 | 61                    | 0<br>0                  | 1.790                   | 42                                   | <i>i</i> -                          |  |
| HARTFORD                         | 4           | 01                                                                              | 1968                 | 26               | 60.2                 | 50                    | 72                      | 1.580                   | œ                                    |                                     |  |
| HARTFORD                         | ۲           | 01                                                                              | 1969                 | 25               | 62.3                 | 52                    | 75                      | 1.570                   | 10                                   |                                     |  |
| HARTFORD                         | 4           | 6                                                                               | 1970                 | 26               | 61.9                 | 52                    | 74                      | 1.560                   | œ                                    |                                     |  |
| HARTFORD                         | 4           | 5                                                                               | 1971                 | 23               | 63.8                 | 55                    | 74                      | 1.430                   | ო                                    |                                     |  |
| HARTFORD                         | 4           | 6                                                                               | 1972                 | 50               | 60.5                 | 51                    | 72                      | 1.600                   | 0                                    |                                     |  |
| KENT                             |             | 10                                                                              | 1973                 | 27*              | 38.E                 | 30                    | 49                      | 1.923                   | 7                                    | +                                   |  |
| KENT                             |             | 01                                                                              | 1974                 | 20               | 31.4                 | 27                    | 37                      | 1.859                   | 7                                    |                                     |  |
| KENT                             |             | 0                                                                               | 1975                 | 38*              | 31.9                 | 27                    | 37                      | 1.628                   |                                      |                                     |  |
| MANCHESTER                       |             | 6                                                                               | 1971                 | 26*              | 80.8                 | 66                    | <b>6</b><br>6           | 1.666                   | 42                                   | 4                                   |  |
| MANCHESTER                       |             | 01                                                                              | 1972                 | ۰<br>۲           | 47.3                 | 6 C                   | 57                      | 1.409                   |                                      |                                     |  |
| MANCHESTER                       |             | 01                                                                              | 1973                 | 36*              | 47.8                 | 01                    | 57                      | 1.715                   | -1                                   | ,                                   |  |
| MANCHESTER                       |             | 01                                                                              | 1974                 | 80°              | 45.2                 | 90<br>90              | 52                      | 1.590                   | <b>N</b>                             |                                     |  |
| MANCHESTER                       |             | 01                                                                              | 1975                 | 56               | 44.2                 | 6<br>6                | 50                      | 1.659                   | ო                                    |                                     |  |
| MANCHESTER                       |             | 0                                                                               | 1976                 | 55               | 33.8                 | 35<br>35              | 4<br>U                  | 1.604                   | •                                    |                                     |  |
| MANCHESTER                       |             | 6                                                                               | 1977                 | 60               | 43.5                 | 90<br>9               | 48                      | 1.567                   | •                                    |                                     |  |
| MANCHESTER                       |             | 6                                                                               | 1978                 | ល                | 41.8                 | 38                    | 46                      | 1.541                   |                                      |                                     |  |
| MANCHESTER                       |             | 5                                                                               | 1979                 | 55               | 42.1                 | 38                    | 47                      | 1.531                   |                                      |                                     |  |
| MANCHESTER                       |             | 5                                                                               | 1980                 | 60               | 37.1                 | 4                     | 4                       | 070.1                   |                                      |                                     |  |

AIR COWPLIANCE MONITORIUS ;;

PAGE

CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION

POLLUTANT--PARTICULATES

| POLLUTANT | PARTICUL | ATES          |              |           |                  |                 |              | DISTRIBUTION-                       | - LOGN DRIMAL                       |
|-----------|----------|---------------|--------------|-----------|------------------|-----------------|--------------|-------------------------------------|-------------------------------------|
| TCWN NAME | SITE     | YEAR          | SAMPLES      | GEOM MEAN | 95-PCT-<br>LOWER | LIMITS<br>UPPER | STD GEOM DEV | PREDICTED<br>DAYS GVER<br>150 UG/M3 | PREDICTED<br>DAYS DVER<br>260 UG/M3 |
| MANSFIELD | 01       | 1969          | 4<br>4       | 37.9      | 31               | 47              | 1:460        |                                     |                                     |
| MANSFIELD | 01       | 1970          | 22           | 44.8      | 37               | 55              | 1.593        | 2                                   |                                     |
| MANSFIELD | 10       | 1971          | 4<br>5<br>0  | 45,2      | 40               | с<br>С          | 1,543        | •                                   |                                     |
| MANSFIELD | 01       | 1972          | 20*          | 43.1      | 32               | 28              | 2.101        | 16                                  | m                                   |
| MANSFIELD | 01       | 1973          | + œ+         | 23.2      | m<br>            | 28              | 1.497        |                                     |                                     |
| MANSFIELD | 01       | 1974          | 47           | 34.3      | 30               | 90<br>0         | 1.609        |                                     |                                     |
| MANSFIELD | 01       | 1975          | 60           | 36.5      | en<br>S          | 41              | 1.628        |                                     |                                     |
| MANSFIELD | 01       | 1976          | 4 4          | 40.5      | 31               | 54              | 1.646        | 2                                   |                                     |
| MERIDEN   | 01       | 1971          | 53           | 40.4      | 36               | 45              | 1.535        |                                     |                                     |
| MERIDEN   | 01       | 1972          | 54           | 72.5      | 66               | 80              | 1.484        | 22                                  |                                     |
| MER I DEN | 010      | 1973          | 90*<br>90*   | 53.2      | 43               | 71              | 1.839        | 20                                  | N                                   |
| MER I DEN | 01       | 1974          | 55           | 50.3      | 4<br>N           | 57              | 1.607        | 4                                   |                                     |
| MERIDEN . | 01       | 1975          | ະ<br>ເມື     | 53.2      | 42               | 67              | 2.013        | 24                                  | 4                                   |
| MERIDEN   | 02       | 1968          | 4            | 66.1      | 50               | 87              | 1.630        | 16                                  | •                                   |
| MERIDEN   | 02       | 1969          | 10*          | 79.8      | 99<br>9          | 108             | 1.850        | 58                                  | 10                                  |
| MER [ DEN | 02       | 1970          | 14*          | 97.6      | 97               | 121             | 1.454        | 50                                  | 7                                   |
| MER [ DEN | 02       | 1971          | 85           | 95.4      | 80               | 106             | 1.540        | 58                                  | 4                                   |
| MERIDEN   | 02       | 1972          | 60           | 82.3      | 73               | 92              | 1.620        | 42                                  | ო                                   |
| MERIDEN   | 02       | 1973          | 56           | 66.2      | 5<br>G           | 76              | 1.762        | 23                                  | n                                   |
| MER [ DEN | 02       | 1974          | 23           | 50.4      | 45               | 57              | 1.655        | ம                                   |                                     |
| MER I DEN | 02       | 1975          | 51           | 52.C      | 46               | 5<br>9<br>9     | 1.580        | 4                                   |                                     |
| MERIDEN   | 02       | 1976          | 51           | 51.8      | 4<br>0           | 53              | 1.560        | m                                   |                                     |
| MERIDEN   | 02       | 1977          | 60           | 52.5      | 47               | 58              | 1.550        | ო                                   |                                     |
| MERIDEN   | 02       | 1978          | 60           | 60.7      | ។<br>ហ           | <del>6</del> 8  | 1.596.       | 10                                  |                                     |
| MERIDEN   | 02       | 1979          | 59           | 52.7      | 4<br>0           | 58              | 1.525        | CV                                  |                                     |
| MERIDEN   | 02       | 1980          | 53           | 51.9      | 41               | 57              | 1.496        | N                                   |                                     |
| MERIDEN   | £0       | 1 <b>9</b> 68 | 12*          | 45.0      | 34<br>34         | 60              | 1.570        | <b>f</b>                            |                                     |
| MERIDEN   | 60       | 1969          | * <b>6</b> F | 69.4      | 51               | 95<br>95        | 1 950        | 42                                  | ω                                   |
| MERIDEN   | 80       | 1970          | 20*          | 85.8      | 57               | 110             | 1.721        | 58                                  | œ                                   |
| MERIDEN   | 80       | 1971          | 54           | 79.2      | 67               | 0<br>77         | 1.930        | 58                                  | m                                   |
| MERIDEN   | 03       | 1972          | 53           | 60.4      | 53               | 69              | 1.655        | 13                                  | •                                   |
| MERIDEN   | 03       | 1973          | 57           | ນ, ມ      | 47               | 64              | 1.887        | 20                                  | сц,                                 |

## Table 6, Continued

| MONITORING    |
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| COMPLIANCE    |
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| CONNECTICUT   |

POLLUTANT--PARTI CULATES

| POLLUTANT          | PARTICUL       | ATES         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                  | ·                |                  |                | DISTRIBUTION-                                                                     | -LOCNORMAL                          |
|--------------------|----------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|------------------|------------------|----------------|-----------------------------------------------------------------------------------|-------------------------------------|
| TOWN NAME          | SITE           | YEAR         | SAMPLES                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | GEOM MEAN                                                                                        | 95-PCT-<br>LOWER | -LIMITS<br>UPPER | STD GEDM DEV   | PREDICTED<br>DAYS CVER<br>150 UG/M3                                               | PREDICTED<br>DAYS OVER<br>260 UG M3 |
| MER DEN<br>MER DEN | 0 0<br>0 0     | 1974<br>1975 | 60 C2<br>60 C2<br>60 C2<br>60 C2<br>60 C2<br>60 C2<br>60 C2<br>60 C2<br>70 C2<br>70<br>70 C2<br>70<br>70<br>70 C2<br>70<br>70<br>70<br>70<br>70 | 50.9<br>54.7                                                                                     | 4 4<br>9 4       | ស ស<br>ខ្ម       | 1.798          | 20                                                                                | - (Y                                |
| MERIDEN<br>MERIDEN | 0044           | 1969<br>1970 | 1<br>44<br>* *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 93.8<br>98.8                                                                                     | 0<br>0<br>0      | 127<br>166       | 1.720<br>1.880 | 67<br>88                                                                          | + C<br>0 4                          |
| MERIDEN<br>Megiden | 002            | 1968         | * -<br>00 00<br>7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 128.5                                                                                            | 50               | 331              | 3 140          | + +<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | 000                                 |
| MERIDEN            | າ ເກ<br>ວິວິ   | 1970         | *<br>*<br>*                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | n                                                                                                | 111              | 340-<br>240-     | 2.558          | 226                                                                               | 0<br>0<br>0<br>1                    |
| MERIDEN<br>Meriden | 0 0<br>0 0     | 1971         | 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | . 157.9<br>98.0                                                                                  | 130              | 192<br>412       | 2.179<br>2.206 | 10<br>10<br>10<br>10                                                              | 1<br>0 0<br>0 0                     |
| MERIDEN            | 0<br>0<br>0    | 1973         | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 59.3                                                                                             | 5                | 69               | 1.778          | 20                                                                                | Ņ                                   |
| MERIDEN<br>Meriden | 00<br>00<br>00 | 1974<br>1975 | 57<br>7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | ο<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | ດ<br>4 C         | 74               | 1.871          | 00<br>70                                                                          | 4 (*                                |
| MERIDEN            | 00             | 1976         | 10<br>10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 62.8                                                                                             | 54.5             | 13               | 1.926          | r IO<br>V CO                                                                      | 0 00                                |
| MERIDEN            | 05             | 1977         | 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 61.5                                                                                             | 4<br>10          | 69               | 1.671          | 16                                                                                | ÷                                   |
| MERIDEN            | 05             | 1978         | 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 54.2                                                                                             | 48               | 61               | 1.657          | æ                                                                                 |                                     |
| MERIDEN            | 05             | 1979         | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 55.8                                                                                             | 94               | 64               | 1.803          | 16                                                                                | 3                                   |
| MER [ DEN          | 02             | 1980         | 57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 55,6                                                                                             | 49               | 63               | 1.652          | ŝ                                                                                 | ÷                                   |
|                    | •              |              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                  |                  |                  |                |                                                                                   |                                     |

Table 6, Continued

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|-------------|--------------------|--------------|-------------|----------------------------|------------------|-------------------|----------------|-------------------------------------|-------------------------------------|
| 1 TE        |                    | re J<br>FAR  | SAMPLES     | GEOM MEAN                  | 95-PCT-<br>LOWER | LIMITS<br>UPPER   | STD GEOM DEV   | PREDICTED<br>PAYS OVER<br>150 UG/M3 | PREDICTED<br>DAYS OVER<br>260 UG/M3 |
| 5           | •                  | 1972         | 23          | 47.3                       | 42               | 53                | 1.602          | ო <u>-</u>                          | ¢                                   |
| 55          | A A                | 1973<br>1974 | ល<br>ល<br>ល | 50.7<br>34.6               | 4 <del>6</del>   | 0<br>0<br>0       | 1.680<br>1.679 | 9 -                                 | 2                                   |
| 02          |                    | 1966         | 25*         | 46,8                       | 3 <del>0</del>   | 56                | 1.584          | (1                                  |                                     |
| 05          | •                  | 1967         | *86<br>8    | 45,4                       | ტ<br>ტ           | 52                | 1.569          | ¥                                   |                                     |
| 60          | •                  | 1968         | 20*         | 59.6                       | 50               | 7.1               | 1.450          | 3                                   |                                     |
| е о         | •                  | 1969         | 25          | 66.5                       | ម<br>ហ           | 82                | 1.700          | 24                                  | 7                                   |
| 60          |                    | 1970         | 24          | . 66.1                     | 56               | 78                | 1.482          |                                     |                                     |
| 60          |                    | 1971         | .57         | 65.9                       | 60               | 74                | 1.543          | 0                                   |                                     |
| ю<br>0      |                    | 1972         | 23<br>2     | 59.0                       | 52               | 66                | 1.638          | 10                                  |                                     |
| 60          |                    | 1973         | 53          | 54.5                       | 40               | 60                | 1.514          | • <del>د</del>                      |                                     |
| <b>ЕО</b> . |                    | 1974         | 61          | 52.1                       | 41               | 0<br>0<br>0<br>0  | 1.585          | 4 (                                 |                                     |
| ю<br>0      |                    | 1975         | ស           | 53.7                       | 1)<br>1          | 09                | 179-1          | <b>N</b> (                          |                                     |
| 0 0<br>0    |                    | 1976         | 60          | 0<br>0<br>0<br>0<br>0<br>0 | 0 F              | יט<br>מ<br>נו     | 1.501          | יז <del>מ</del>                     |                                     |
|             |                    | 1201         | D U         | 3 C<br>4 C<br>4 C          | v<br>۲           | - C<br>- C<br>- C | 1 775          | 24                                  | 2                                   |
| 0 00<br>0   |                    | 6261         | ០<br>៣<br>៣ | 40.8                       | 4<br>1<br>1      | ។ ហ<br>រ          | 1.555          | 2                                   |                                     |
| 80          |                    | 1980         | 20          | 46.8                       | 43               | 51                | 1.468          |                                     |                                     |
| 04          |                    | 1973         | 52*         | 51.4                       | 4<br>(1          | 63                | 2.245          | 35                                  | ω                                   |
| 5           |                    | 1968         | +0+         | 59.3                       | 44               | 81                | 1.930          | 29                                  | ហ                                   |
| 0           |                    | 1969         | 22*         | 43.2                       | 35<br>35         | 53                | 1.630          | 7                                   |                                     |
| 5           |                    | 1970         | 16.         | 58.0                       | 46               | 74                | 1.580          | -                                   |                                     |
| 5           |                    | 1971         | 53          | 53.7                       | 48               | 60                | 1.552          | ব                                   |                                     |
| 0           |                    | 1972         | ទា          | 49.2                       | 44               | រព<br>ហ           | 1.613          | 4                                   |                                     |
| 0           |                    | 1973         | 40*         | 43.8                       | Ф<br>С           | 40                | 1.476          |                                     |                                     |
| 5           |                    | 1974         | 60          | 46.7                       | 42               | 52                | 1,552          | -                                   |                                     |
| 5           |                    | 1975         | 58          | 45.7                       | 41               | თ<br>1            | 1.537          | <b>-</b> - (                        |                                     |
| 5           |                    | 1976         | 60          | 50.5                       | 4<br>U           | 56                | 1.566          | <b>.</b> (7)                        |                                     |
| 01          |                    | 1977         | ហ<br>ហ      | 45.6                       | 4                | ព្                | 1.556          | - (                                 |                                     |
| 6           |                    | 1978         | 32*         | 48.4                       | 42               | 50<br>0           | 1.549          | [7]                                 |                                     |

| CONNECT I CUT | DEPARTM | ENT OF                | ENVIRONMEN   | TAL PROTECT | NOI              | PAGE             | 14          | AIR COMPLIANCE                        | CNICCLINOW                          |
|---------------|---------|-----------------------|--------------|-------------|------------------|------------------|-------------|---------------------------------------|-------------------------------------|
| POLLUTANTF    | ARTICUL | ATES                  |              |             |                  |                  |             | DISTRIBUTION                          | LOGN DRITAL                         |
| TO.N NAME     | SITE    | YEAR                  | SAMPLES      | GEOM WEAN   | 95-PCT-<br>LOWER | -LIMITS<br>UPPER | STD GEOM DE | PREDICTED<br>DAYS DVER<br>V 150 UG/M3 | PREDICTED<br>DAYS OVER<br>260 UG/M3 |
| MILFORD       | 02      | <b>19</b> 68          | + 95<br>+    | 64.7        | 4<br>0           | 85               | 1.750       | 24                                    | 7                                   |
| MILFORD       | 02      | 1969                  | 20           | 67.7        | 56               | 81               | 1.500       | œ                                     |                                     |
| MILFORD       | 02      | 1970                  | 16*          | 75.9        | 63               | 92               | 1.442       | 10                                    |                                     |
| MILFORD       | 02      | 1971                  | 54           | 65.1        | 69               | 72               | 1,469       | ŋ                                     |                                     |
| MILFORD       | 02      | 1972                  | 56           | 55.5        | 4<br>9           | 63               | 1.725       | 13                                    | -                                   |
| MILFORD       | . 20    | 1973                  | 54           | 49.9        | 46               | ល<br>ល           | 1.440       |                                       |                                     |
| MILFORD       | 02      | 1974                  | 5<br>4       | 51.2        | 9<br>77          | 57               | 1.525       | <b>CN</b>                             |                                     |
| MILFORD       | 02      | 1975 '                | ក<br>ហ្វ     | 62.5        | 57               | 63               | 1.459       | 4                                     |                                     |
| MILFORD       | 02      | 1976                  | 58           | 52.2        | 47               | 58<br>2          | 1.538       | ~1                                    |                                     |
| MILFORD       | 02      | 1977                  | 58           | 57.3        | 53               | 62               | 1.424       |                                       |                                     |
| MILFORD       | 02      | 1978                  | 54           | 53.9        | 4<br>0           | 50<br>50         | 1,439       | -                                     |                                     |
| MILFORD       | 02      | 1979                  | 60           | 52.3        | 47               | 58               | 1.554       | m                                     |                                     |
| MILFORD       | 02      | 1980                  | 5.0          | 45.2        | <u>.</u><br>म    | 49               | 1.454       |                                       |                                     |
| MILFORD       | 06      | 1970                  | *            | មួយ         | Ц<br>Ц           | 84               | 1 801       | 00                                    | ~                                   |
| MI FORD       | 90      | 1071                  | 9            | 0 C P       | ) ()<br>()       | 40               | <br>        |                                       |                                     |
|               | 200     | - 10 F                | ) (1<br>  14 |             | ) <del>+</del>   | ייים<br>מי<br>נ  |             | v                                     |                                     |
| MILFORD       | 90      | 1 F<br>- 1-0<br>- 1-0 | 2 (I         | 0.04        | - 0<br>7 C       | ) (<br>) (       |             | ) +                                   |                                     |
|               |         |                       |              |             | 010              | - u<br>t <       |             | -                                     |                                     |
|               |         | 1 / D                 | e<br>C       | 5<br>5      | 31               | 4<br>U           |             |                                       |                                     |
| MILFORD       | 06      | 1975                  | 56           | 41.6        | 33               | 46               | 1.496       |                                       |                                     |
| MDRRIS        | 01      | 1967                  | ,<br>*<br>*  | 29.4        | 23               | 37               | 2.002       | 4                                     |                                     |
| MORRIS        | 01      | 1968                  | 24           | 55.2        | 4<br>10          | 70               | 1.710       | <del>ل</del>                          | -                                   |
| MORRIS        | 01      | 1 <b>9</b> 69         | 27           | 41.9        | 5<br>0           | 51<br>ວ          | 1.670       | <b>Ci</b>                             |                                     |
| MORIS         | 01      | 1970                  | 26           | 45.0        | 46<br>94         | 0<br>0<br>0      | 2.040       | 16                                    | 2                                   |
| MORRIS        | 010     | 1971                  | 48           | 35.8        | 31<br>31         | 41               | 1.692       | •                                     |                                     |
| MORRIS        | 61      | 1972                  | 51           | 34.4        | <b>0</b> 0       | 39               | 1.699       | -                                     |                                     |
| MORRIS        | 010     | 1973                  | 57           | 31.4        | 27               | 36               | 1.812       | 7                                     |                                     |
| MORRIS        | 01      | 1974                  | 60           | 27.7        | ন<br>স           | 32               | 1.746       |                                       |                                     |
| MORRIS        | 01      | 1975                  | 60,          | 25.8        | 26               | 32               | 1.644       |                                       |                                     |
| MORRIS        | 01      | 1976                  | 42*          | 35.6        | 25               | 50               | 1.753       | 6                                     |                                     |
| MORRIS        | 01      | 1978                  | 120          | 27.4        | 26               | 29               | 1.636       |                                       |                                     |
| MORRIS        | 10      | 1980                  | 111          | 29.6        | 28               | 32               | 1.567       |                                       |                                     |
| MORRIS DAM    | 01      | 1979                  | 119          | 27.9        | . 26             | 30               | 1.662       |                                       |                                     |

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Table 6, Continued

| AIR COMPLIANCE MONITORING |
|---------------------------|
| 1<br>U                    |
| PAGE                      |
| PROTECTION                |
| ENVIRONMENTAL             |
| ö                         |
| CONNECTICUT · DEPARTMENT  |

POLLUTANT--PARTI CULATES

| POLLUTANTP# | RTICUL | ATES |         |           |                   |                 |              | ISTRIBUTION-                        | -LOGNORWAL                          |
|-------------|--------|------|---------|-----------|-------------------|-----------------|--------------|-------------------------------------|-------------------------------------|
| TOWN NAME   | SITE   | YEAR | SAMPLES | GEOM MEAN | -95-9CT+<br>LOWER | LIMITS<br>UPPER | STD GEOM DEV | PREDICTED<br>DAYS OVER<br>150 UG/M3 | PREDICTED<br>DAYS OVER<br>260 UG/M3 |
| NAUGATUCK   | 01     | 1966 | 24*     | 62.0      | 51                | 75              | 1.578        | 10                                  |                                     |
| NAUGATUCK   | 01     | 1967 | 34*     | 76.6      | 63                | 92              | 1.762        | 42                                  | പ                                   |
| NAUGATUCK   | 01     | 1968 | 20      | 98.9      | 77                | 128             | 1.750        | 88                                  | 1<br>G                              |
| NAUGATUCK   | 01     | 1969 | 23      | 92.6      | 74                | 116             | 1.710        | 67                                  | 10                                  |
| NAUGATUCK   | 01     | 1970 | 50      | 0.98      | 80<br>80          | 120             | 1.676        | 77                                  | 10                                  |
| NAUGATUCK   | 01     | 1971 | 52      | 85.7      | 76                | 9<br>0<br>0     | 1.571        | 42                                  | 7                                   |
| NAUGATUCK   | 5      | 1972 | 61      | 72.1      | 64                | 81              | 1.673        | 23                                  | 7                                   |
| NAUGATUCK   | 0      | 1973 | 50      | 70.2      | 62                | 79              | 1.653        | 24                                  | ۲۹                                  |
| NAUGATUCK   | 01     | 1974 | 61      | 61.1      | 5<br>4            | 69              | 1.646        | 13                                  | -                                   |
| NAUGATUCK   | 0      | 1975 | 60      | 56.8      | 51                | 63              | 1.603        | 7                                   |                                     |
| NAUCATUCK   | 01     | 1976 | . 09    | 54.6      | 49                | 62              | 1.685        | 10                                  |                                     |
| NAUGATUCK   | 6      | 1977 | 60      | 57.7      | 51<br>17          | 64              | 1.530        | ហ                                   | ,                                   |
| NAUGATUCK   | 5      | 1978 | 58      | 50.8      | ່<br>ເຊິ          | 57              | 1.659        | ۲-                                  |                                     |
| NAUGATUCK   | 5      | 1979 | 60      | 47.0      | 4                 | 52              | 1.576        | 2                                   |                                     |
| NAUCATUCK   | 010    | 1980 | U<br>U  | 44.4      | 40                | 50              | 1.577        |                                     |                                     |
| NEW BRITAIN | 01     | 1968 | 26      | 87.6      | 75                | 103             | 1.510        | ЗС<br>ЗС                            | 6                                   |
| NEW BRITAIN | 5      | 1969 | 26      | 76.8      | 64                | 63              | 1.620        | 29                                  | ณ                                   |
| NEW BRITAIN | 5      | 1970 | 26      | 80.1      | 70                | 92              | 1.430        | 13                                  |                                     |
| NEW BRITAIN | 5      | 1971 | 55.     | 74.1      | 66                | 84              | 1.638        | . 29                                | 7                                   |
| NEW BRITAIN | 01     | 1972 | 34*     | 77.6      | 68                | 88              | 1.477        | 16                                  |                                     |
| NEW BRITAIN | 0      | 1973 | 18*     | 49.8      | 41                | 61              | 1.496        |                                     |                                     |
| NEW BRITAIN | 0      | 1974 | 61      | 52.4      | 47                | 6               | 1.617        | ល                                   |                                     |
| NEW BRITAIN | 02     | 1968 | 25      | 96.9      | 82                | 114             | 1.510        | 50                                  | m                                   |
| NEW BRITAIN | 02     | 1969 | 27      | 1001      | 85                | 117             | 1.520        | 58                                  | 4                                   |
| NEW BRITAIN | 02     | 1970 | 26      | 88.2      | 75                | 104             | 1.517        | 35                                  | 3                                   |
| NEW BRITAIN | 02     | 1971 | 57      | 93.6      | 83                | 105             | 1.599        | ,<br>28<br>9<br>9<br>9              | ណ                                   |
| NEW BRITAIN | 02     | 1972 | 60      | 82.8      | 73                | 94              | 1.679        | 50                                  | ى<br>ب                              |
| NEW BRITAIN | 02     | 1973 | 56      | 77.7      | 69                | 68              | 1.660        | 35                                  | m                                   |
| NEW BRITAIN | 02     | 1974 | 58      | 70.1      | 53                | 79              | 1.600        | 20                                  | 4                                   |
| NEW BRITAIN | 02     | 1975 | 58.     | 83.4      | 76                | 92              | 1.464        | 24                                  | <b>*</b>                            |
| NEW BRITAIN | 02     | 1976 | 19*     | 100.7     | 82                | 123             | 1.532        | 67                                  | IJ                                  |
| NEW BRITAIN | 03     | 1966 | 24*     | 105.8     | 86                | 130             | 1,644        | 9<br>8                              | £1<br>ع                             |

Table 6, Continued

| NNDC         | ECTICUT D          | EPARTM   | ENT OF | ENVIRONMEN.                                                             | TAL PROTECT    | ION              | PAGE            | 16    | AIR      | COMPLIANCE                          | MONITORING                          |
|--------------|--------------------|----------|--------|-------------------------------------------------------------------------|----------------|------------------|-----------------|-------|----------|-------------------------------------|-------------------------------------|
| סררו         | JTANTPA            | RTICUL   | ATES   |                                                                         |                |                  |                 |       |          | ISTRIBUTION-                        | EDGN ORMAL                          |
| TOWN         | NAME               | SITE     | YEAR   | SAMPLES                                                                 | GEOM MEAN      | 95-PCT-<br>LOWER | LIMITS<br>UPPER | STD 0 | JEOM DEV | PREDICTED<br>DAYS OVER<br>150 UG/M3 | PREDICTED<br>DAYS OVER<br>260 UG.M3 |
| - 397<br>397 | SRITAIN<br>Scitain | 80       | 1967   | 3 8<br>7 | 111.7          | 10               | 137             |       | 1.727    | 113                                 | տ<br>4 ն                            |
|              | NIVIAN             | 200      | 0000   | ם וני<br>ע ני                                                           | 20.00          | 70               | +               |       | 710      | + C -                               | 0 (L<br>-                           |
|              | BRITAIN            | 0<br>0   | 020    | 99 G                                                                    | 20.00<br>00.00 | - 24             | 4               |       | 826      | 77                                  | - <del>-</del>                      |
| NEN<br>NEN   | BRITAIN            | 0<br>0   | 1971   | 8                                                                       | 86.3           | រ<br>ត           | 66              |       | 1.782    | 58                                  | 10                                  |
| NEW          | <b>BRITAIN</b>     | Ю<br>О   | 1972   | 59                                                                      | 69.9           | 61               | 80              |       | 1.724    | 29                                  | ო                                   |
| N E W        | <b>BRITAIN</b>     | 03       | 1973   | 57                                                                      | 73.9           | 64               | 85              |       | 1.751    | 35                                  | ហ                                   |
| 3 HZ         | BRITAIN            | 60       | 1974   | 60                                                                      | 62.9           | 56               | 71              |       | 1.676    | 16                                  | <del></del>                         |
| _<br>N⊡X     | BRITAIN            | 03       | 1975   | 60                                                                      | 72.9           | 66               | 80              |       | 1.487    | 13                                  |                                     |
| -<br>⊒<br>Z  | BRITAIN            | 60       | 1976   | 57.                                                                     | . 64.7         | 57               | .73             |       | 1.688    | 20                                  | •                                   |
| мшN          | BRITAIN            | 03       | 1977   | 31*                                                                     | 84.7           | 70               | 102             |       | 1.692    | 50                                  | 7                                   |
| NEW          | BRITAIN            | 04       | 1968   | ນ<br>ເ<br>,                                                             | 62.4           | 52               | 76              |       | 1.620    | 13                                  | ,                                   |
| NEw          | BRITAIN            | 04       | 1963   | 25                                                                      | 49.3           | 41               | 60              |       | 1.630    | 4                                   | ~                                   |
| MEN          | BRITAIN            | 04       | 1970   | 26                                                                      | 55.3           | 47               | 65              |       | 1.506    | ო                                   |                                     |
| NEN          | BRITAIN            | 04       | 1971   | 56                                                                      | 49.C           | 44               | 54              |       | 1.526    | CI                                  |                                     |
| NEW          | BRITAIN            | 04       | 1972   | 58                                                                      | 52.4           | 47               | 58              |       | 1.565    | 4                                   |                                     |
| NEW          | BRITAIN            | 04       | 1973   | 59                                                                      | 51.1           | 45               | 58              |       | 1.726    | 60                                  |                                     |
| ≫⊔N<br>N⊔N   | BRITAIN            | 40       | 1974   | 60                                                                      | 38.0           | 93<br>93         | 4<br>0          |       | 1.744    | C1                                  |                                     |
| NEW          | BRITAIN            | 04       | 1975   | 6                                                                       | 44.4           | 4<br>0           | 49              |       | 1.478    |                                     |                                     |
| NEW          | BRITAIN            | 04       | 1976   | 10*                                                                     | 43.7           | 37               | 64              |       | 1.575    | <b>CN</b>                           |                                     |
| NEw          | BRITAIN            | 05       | 1968   | 25                                                                      | 49.0           | 40               | 60              |       | 1.690    | 7                                   |                                     |
| NEN          | BRITAIN            | 05       | 1969   | 26                                                                      | 41.4           | 35               | 50              |       | 1.590    |                                     |                                     |
| MUN          | BRITAIN            | 30<br>20 | 1970   | 26                                                                      | 44.7           | 38<br>98         | 53              |       | 1.566    | •~                                  |                                     |
| NEN          | BRITAIN            | 05       | 1971   | 57                                                                      | 49.4           | 4<br>10          | ភូច             |       | 1.494    | <b>*</b>                            |                                     |
| NEW          | BRITAIN            | 05       | 1972   | ມີ<br>ເມ                                                                | 42.1           | 37               | 49              |       | 1.816    | 7                                   |                                     |
| NEW          | BRITAIN            | 05       | 1973   | 58                                                                      | 45.5           | 40               | 51<br>1         |       | 1.638    | m                                   |                                     |
| NEW          | BRITAIN            | 05       | 1974   | ភូន                                                                     | 38.8           | 33               | 45              |       | 1.863    | ហ                                   | •                                   |
| NEW          | BRITAIN            | 06       | 1966   | 24*                                                                     | 74.8           | 64               | 88              |       | 1.490    | 16                                  |                                     |
| NEW          | BRITAIN            | 00       | 1967   | <b>3</b> 9*                                                             | 71.1           | 63               | 81              |       | 1.422    | 7                                   |                                     |
| мЦN          | BRITAIN            | 1 23     | 1975   | **<br>**                                                                | 63.1           | . 0<br>10        | 62              |       | 1.475    | 'n                                  |                                     |
| R L N        | BRITAIN            | 1 23     | 1976   | ;<br>;                                                                  | 56.7           | ,<br>I           | 63              |       | 1.607    | 7                                   |                                     |

| MONITORING     | LOGNORMAL    |
|----------------|--------------|
| AIR COMPLIANCE | DISTRIBUTION |

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PAGE

POLLUTANT--PARTI CULATES

CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION

| Рас<br>рас<br>рас<br>рас<br>рас<br>рас<br>рас<br>рас<br>р                                                                                                                                 | - Ю-айааада                                                                                                                                              |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|
| 4<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20                                                                                                           |                                                                                                                                                          |
| STD GEOM DEV<br>1.444<br>1.564<br>1.516<br>1.510<br>1.570<br>1.570<br>1.550<br>1.535<br>1.439<br>1.439                                                                                    |                                                                                                                                                          |
| LIMITS<br>UPPER<br>UPPER<br>61<br>51<br>100<br>1107<br>1100<br>1100<br>1100<br>1100<br>1100<br>1                                                                                          | 40000<br>7008<br>6000<br>7008<br>700<br>700<br>700<br>700<br>700<br>700<br>700<br>700                                                                    |
| СС<br>СС<br>СС<br>СС<br>СС<br>СС<br>СС<br>СС<br>СС<br>СС<br>СС<br>СС<br>СС                                                                                                                | ຎຎຎຎ ფიഗფიഗაციადადა<br>4.4.20 ფივაფიიიის/40ა20                                                                                                           |
| СШ<br>П<br>М<br>М<br>М<br>М<br>М<br>М<br>М<br>М<br>М<br>М<br>М<br>М<br>М<br>М<br>М<br>М<br>М<br>М                                                                                         | 4000 040000000040000004<br>4000 0400000004<br>4000 0400000004                                                                                            |
| SAMP<br>AMP<br>1120<br>255<br>1110<br>1121<br>255<br>1128<br>255<br>1128<br>255<br>1128<br>255<br>1128<br>255<br>1128<br>255<br>255<br>255<br>255<br>255<br>255<br>255<br>255<br>255<br>2 | ດດາຍອອນສຸດາຊາຍອີນອີນອີນອີນອີນອີນອີນອີນອີນອີນອີນອີນອີນອ                                                                                                   |
| YEAR<br>19978<br>19978<br>19959<br>19967<br>19968<br>1972<br>1971<br>1973<br>1973                                                                                                         | 1974<br>1975<br>1975<br>1976<br>1970<br>1970<br>1972<br>1977<br>1977<br>1978<br>1978<br>1978<br>1978<br>1978                                             |
| SITE<br>1233<br>1233<br>1233<br>1233<br>1233<br>1233<br>1233<br>123                                                                                                                       | 000000000000000000000000000000000000000                                                                                                                  |
| DWN NAME<br>EEW BRITAIN<br>EEW BRITAIN<br>EEW BRITAIN<br>EEW BRITAIN<br>EEW BRITAIN<br>EEW BRITAIN<br>EEW HAVEN<br>EEW HAVEN<br>EEW HAVEN<br>EEW HAVEN<br>EEW HAVEN                       | EW HAVEN<br>EW HAVEN<br>EW HAVEN<br>EW HAVEN<br>HAVEN<br>HAVEN<br>HAVEN<br>HAVEN<br>HAVEN<br>HAVEN<br>HAVEN<br>HAVEN<br>HAVEN<br>HAVEN<br>HAVEN<br>HAVEN |

Table 6, Continued

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NEW HAVEN

| CONMECTICUT | DEPARTM        | ENT OF | ENVIRONMEN        | TAL PROFECT | NOI              | PAGE            | 18 A         | IR COMPLIANCE                       | MONITOR:NG                          |
|-------------|----------------|--------|-------------------|-------------|------------------|-----------------|--------------|-------------------------------------|-------------------------------------|
| POLLUTANTI  | PARTICUL       | ATES   |                   |             |                  |                 |              | DISTRIBUTION-                       | LOGNORMAL                           |
| TOWN NAME   | SITE           | YEAR   | SAMPLES           | GEOM MEAN   | 95-PCT-<br>LOWER | LIMITS<br>UPPER | STD GEOM DEV | PREDICTED<br>DAYS OVER<br>150 UG,M3 | PREDICTED<br>DAYS OVER<br>260 UG:#3 |
| NEW HAVEN   | 03             | 1968   | 76                | 53.4        | 62               | 76              | 1.670        | 40                                  | 2                                   |
| NEW HAVEN   | 03             | 1969   | 69                | 63.8        | 58               | 70              | 1.550        | 0                                   |                                     |
| NEW HAVEN   | E0             | 1970   | 7*                | 84.3        | 6                | 117             | 1.433        | 20                                  |                                     |
| NEW HAVEN   | Ю<br>О         | 1971   | 47*               | 48.2        | 42               | с<br>С          | 1 634        | 4                                   |                                     |
| NEW HAVEN   | 03             | 1972   | 69                | 50.2        | 46               | ំហ<br>ហ         | 1.569        |                                     |                                     |
| NEW HAVEN   | 03             | 1973   | 6                 | 43.4        | 40               | 48              | 1.489        |                                     |                                     |
| NEW HAVEN   | <del>С</del> 0 | 1974   | 61                | 46.4        | 41               | 52              | 1.650        | 4                                   |                                     |
| NEN HAVEN   | 03             | 1975   | 59.               | 52.1        | しな               | 58              | 1.544        | m                                   |                                     |
| NEW HAVEN   | E0             | 1976   | +<br>0<br>+       | 49.2        | 41               | 50<br>20        | 1.396        |                                     |                                     |
| NEW HAVEN   | 05             | 1967   | ស<br>ភូមិ<br>ភូមិ | 63.9        | 50               | 81              | 2.610        | 67                                  | 24                                  |
| NEW HAVEN   | 02<br>0        | 1968   | €0∻               | 69.7        | 62               | 79              | 1.680        | 24                                  | Ņ                                   |
| NEW HAVEN   | 05             | 1969   | 57*               | 61.4        | 54               | 70              | 1.670        | 16                                  | <b></b>                             |
| NEW HAVEN   | 05             | 1971   | *00<br>0          | 67.4        | 61               | 74              | 1.526        | 10                                  |                                     |
| NEW HAVEN   | 03             | 1972   | 70                | 54.8        | 50               | 60              | 1.504        | 3                                   |                                     |
| NEN HAVEN   | 05             | 1973   | 58                | 57.6        | 51               | 66              | 1.704        | 13                                  | •                                   |
| NEW HAVEN   | SO<br>OC       | 1974   | 58                | 47.2        | 42               | ນ<br>4          | 1.687        | S                                   |                                     |
| NEW HAVEN   | 02             | 1975   | 58.               | 53.4        | 43               | 59              | 1.552        | 4                                   |                                     |
| NEW HAVEN   | 02             | 1976   | +0+               | 53.3        | 41               | 69              | 1.760        | 13                                  | F                                   |
| NEW HAVEN   | 90             | 1967   | 60<br>90          | 38.1        | 85               | 113             | 1.950        | 100                                 | 24                                  |
| NEW HAVEN   | 90             | 1968   | ¥00               | 115.8       | 102              | 132             | 1.710        | 113                                 | 24                                  |
| NEW HAVEN   | 90             | 1969   | 42*               | 106.5       | 06               | 126             | 1.790        | 100                                 | 24                                  |
| NE# HAVEN   | 07             | 1966   | 53*               | 63° 2       | 77               | 113             | 1.578        | 5                                   | 'n                                  |
| NEW HAVEN   | 60             | 1971   | 63*               | 59.4        | 54               | 65              | 1.510        | ß                                   |                                     |
| NEW HAVEN   | 60             | 1972   | 65                | 52.4        | 48               | 58              | 1.544        | ო<br>,                              |                                     |
| NEW HAVEN   | 60             | 1973   | 61                | 48.8        | 45               | ខ្មា            | 1.461        |                                     |                                     |
| NEW HAVEN   | 60             | 1974   | . 09              | 50.7        | 46               | 56              | 1.544        | 7                                   |                                     |
| NEW HAVEN   | 60             | 1975   | + 40+             | 54.8        | 00               | 61              | 1.388        |                                     |                                     |
| NEW HAVEN   | 123            | 1977   | 46*               | 63.2        | 56               | 63              | 1.403        | 7                                   |                                     |
| NEW HAVEN   | 123            | 1978   | 122               | 74.0        | 9 <b>9</b>       | 79              | 1.555        | 20                                  |                                     |
| NEW HAVEN   | 123            | 1979   | 119               | 79.2        | 75               | 84              | 1.454        | 16                                  |                                     |

| CONNECTICUT C | DEPARTN  | AENT OF | ENVIRONMEN.     | TAL PPDTECT | ION              | PAGE            | 54<br>₹4     | R COMPLIANCE                        | SK. POTINOM                         |
|---------------|----------|---------|-----------------|-------------|------------------|-----------------|--------------|-------------------------------------|-------------------------------------|
| POLLUTANTPJ   | ARTI CUL | S314.   |                 |             |                  |                 |              | DISTRIBUTION-                       | LOGNORMA-                           |
| TOWN NAME     | SITE     | YEAR    | SAMPLES         | GEON MEAN   | 95-PCT-<br>LOWER | LIMITS<br>UPPER | STD GEOM DEV | PREDICTED<br>DAYS GVER<br>150 UG/M3 | PREDICTEU<br>DAYS C1ER<br>260 UG 43 |
| NEW HAVEN     | 123      | 1980    | 1<br>0          | 61.7        | 53               | 66              | 1.505        | ß                                   | -                                   |
| NEW HAVEN     | 101      | 1957    | 23              | 92.6        | 78               | 110             | 1.500        | 42                                  | (N                                  |
| NEW HAVEN     | 1 01     | 1958    | 5<br>CN         | 79.5        | 69               | 92              | 1.430        | 13                                  |                                     |
| NEW HAVEN     | A 01     | 1959    | 23              | 86.8        | 73               | 104             | 1.530        | 35                                  | C)                                  |
| NEW HAVEN     | ۶<br>01  | 1960    | 25              | 81.7        | 70               | 95              | 1.450        | 20                                  |                                     |
| NEW HAVEN     | 4 01     | 1961    | 26              | 84.5        | 73               | 67              | 1.440        | 20                                  |                                     |
| NEW HAVEN     | A 01     | 1962    | 26              | 80.0        | 71               | 06              | 1.340        |                                     |                                     |
| NEW HAVEN     | A<br>01  | 1963    | 25              | 79.7        | 69               | 92              | 1.450        | 16                                  |                                     |
| NEW HAVEN     | A 01     | 1964    | 26              | 103.2       | 84               | 126             | 1.650        | 88                                  | 13                                  |
| NEW HAVEN     | A 01     | 1965    | 24              | 99.2        | 84               | 117             | 1.500        | 58                                  | 'n                                  |
| NEW HAVEN     | A 01     | 1965    | 25              | 100.7       | 85               | 119             | 1.510        | 58                                  | 4                                   |
| NEW HAVEN     | A 01     | 1967    | 26              | 82.3        | 67               | 102             | 1.730        | 50                                  | (~                                  |
| NEW HAVEN     | A 01     | 1968    | 26              | 63.4        | ក<br>ខ្ល         | 80              | 1.510        | 0                                   |                                     |
| NEW HAVEN     | A 01     | 1969    | 26              | 9°,98       | 72               | 102             | 1.570        | 42                                  | 2                                   |
| NEW HAVEN     | A 01     | 1970    | 26              | 93.2        | 80               | 109             | 1.480        | 42                                  | 2                                   |
| NEW HAVEN     | A 01     | 1971    | 26              | 89.4        | 79               | 102             | 1.390        | , 20                                |                                     |
| NEW HAVEN     | A 01     | 1972    | 29              | 59.7        | 52               | 69              | 1.480        | 4                                   |                                     |
| NEW LONDON    | 01       | 1966    | 14*             | 59.3        | 50               | 71              | 1.375        | <b>₹</b>                            |                                     |
| NORTH CANAAN  | 01       | 1974    | ទ               | 38-0        | 34               | 4<br>3          | 1.687        | 3                                   |                                     |
| NORTH CANAAN  | 01       | 1975    | 50              | 49.2        | 41<br>CI         | ហ<br>ហ          | 1.672        | ហ                                   |                                     |
| NORTH CANAAN  | 5        | 1976    | 50 <sup>.</sup> | 39.6        | 34               | 46              | 1.794        | থ                                   |                                     |
| NORTH CANAAN  | 01       | 1977    | 41*             | 40.8        | 36               | 47              | 1.574        |                                     |                                     |
| NCRWALK       | 01       | 1968    | 7*              | 44.5        | 25               | 70              | 1.630        | 3                                   |                                     |
| NORWALK       | 01       | 1.969   | 26              | 58.0        | 50               | 67              | 1.470        | 2                                   |                                     |
| NORWALK       | 5        | 1970    | 25              | 59.7        | 43               | 74              | 1.700        | Ω                                   | -                                   |
| NDRWALK       | 6        | 1971    | 57              | 57.0        | 52               | 63              | 1.469        | 7                                   |                                     |
| NORWALK       | -0       | 1972    | ទទ              | 55, 2       | с<br>Ц           | 61              | 1.487        | 61                                  |                                     |
| NORWALK       | 5        | 1973    | <del>6</del> 6  | 52.E        | 47               | 58              | 1.560        | თ i                                 |                                     |
| NDRWALK       | 01       | 1974    | 57              | 53.1        | 47               | 60              | 1.603        | ທ i                                 |                                     |
| NORWALK       | -0       | 1975    | 57.             | 53.8        | 48               | 61              | 1.619        | 7                                   |                                     |
| NORWALK       | 0        | 1976    | 10*             | 63.3        | 52               | 06              | 1.470        | മ                                   |                                     |

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| CONNECTICUT D | EPARTM  | IENT OF | ENVIRONMEN     | TAL PROTECT                     | NOI                                                                                         | PAGE             | 20 AI        | R COMPLIANCE                        | DNINDRINOM                          |
|---------------|---------|---------|----------------|---------------------------------|---------------------------------------------------------------------------------------------|------------------|--------------|-------------------------------------|-------------------------------------|
| POLLUTANTPA   | RTICUL  | ATES    |                |                                 |                                                                                             |                  |              | DISTRIBUTION-                       |                                     |
| TOWN NAME     | SITE    | YEAR    | SAMPLES        | GEOM MEAN                       | 95-PCT-<br>LOWER                                                                            | -LIMITS<br>UPPER | STD GEOM DEV | PREDICTED<br>DAYS OVER<br>150 UG/M3 | PREDICTED<br>DAYS OVER<br>260 UG/M3 |
| NORWALK       | 03      | 1968    | 26             | 69.8                            | 55                                                                                          | 68               | 1.850        | 42                                  | 7                                   |
| NORWALK       | 90<br>0 | 1970    | 26             | 65,9                            | ហ                                                                                           | 79               | 1 615<br>7   | 1                                   | F                                   |
| NORWALK       | 05      | 1971    | 00             | 69.3                            | 9 9                                                                                         | 75               | 1.396        | 9 4                                 | -                                   |
| NORWALK       | 05      | 1972    | 61             | 63.0                            | 57                                                                                          | -<br>69          | 1.481        | . n                                 |                                     |
| NORWALK       | ល<br>០  | 1973    | 61             | 58.1                            | 53                                                                                          | 64               | 1.513        | 4                                   |                                     |
| NORWALK       | 05      | 1974    | 57             | 66.4                            | 5<br>C                                                                                      | 75               | 1.640        | 20                                  | -                                   |
| NORWALK       | 05      | 1975    | 56             | 56.1                            | 51                                                                                          | 62               | 1.480        | 2                                   |                                     |
| NORWALK       | 0<br>0  | 1976    | 53             | 58.7                            | 52                                                                                          | 66               | 1.620        | 10                                  |                                     |
| NORWALK       | 05      | 1977    | 60             | 60.8                            | 55                                                                                          | 67               | 1.471        | 4                                   |                                     |
| NORWALK       | 05      | 1978    | 60             | 57.0                            | 50                                                                                          | 64               | 1.674        | 10                                  | •                                   |
| NORWALK       | 05      | 1979    | 116            | 57.2                            | 54                                                                                          | 61               | 1.497        | (r)                                 |                                     |
| NORWALK       | 05      | 1980    | 117            | 53.7                            | 50                                                                                          | 57               | 1.567        | ्य                                  |                                     |
| NORWICH       | 0       | 1966    | 43             | 67.8                            | ĥ1                                                                                          | 76               | 1 450        | ٢                                   |                                     |
| NDRWICH       | 6       | 1967    | 10.4           | 9 9<br>9 9                      | , r                                                                                         | C                |              | - 1                                 |                                     |
| NORWICH       | - 10    | 1968    | - u<br>- 0     | 67.4                            | - 0<br>1                                                                                    | 76               |              | - (                                 |                                     |
| NORWICH       | 0       | 1969    | 50             | 61.3                            | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 2.2              |              | ıur                                 |                                     |
| NOFWICH       | 0       | 1970    | 25             | 62.3                            | 1 4<br>1 4                                                                                  | 71               | 1,405        | 2                                   |                                     |
| NOPWICH       | 0       | 1971    | 52             | 65.3                            | 61                                                                                          | 73               | 1.437        | 4                                   |                                     |
| NDRWICH       | 5       | 1972    | 53             | 59.4                            | ម<br>ប្រ                                                                                    | 66               | 1,522        | י יע<br>י                           |                                     |
| NORWICH       | 0       | 1973    | 50             | 58.0                            | 5<br>C1                                                                                     | 65               | 1.533        | n<br>N                              |                                     |
| NORWICH       | 5       | 1974    | 58             | 47.7                            | 42                                                                                          | 54               | 1.675        | ú                                   |                                     |
| NDEWICH       | 01      | 1975    | 60             | . 47.8                          | 43                                                                                          | 53               | 1.517        | -                                   |                                     |
| NOFWICH       | 5       | 1976    | 53             | 49.6                            | 45                                                                                          | 55<br>25         | 1.489        |                                     |                                     |
| NORWICH       | 5       | 1977    | 61             | 47.1                            | 64<br>4                                                                                     | 51               | 1.452.       |                                     |                                     |
| NORWICH       | 5       | 1978    | 60             | 45.7                            | 42                                                                                          | 50               | 1.417        |                                     |                                     |
| NOP VICH      | 01      | 1979    | 58             | 44.9                            | 41                                                                                          | 50               | 1.517        | -                                   |                                     |
| NOKWICH       | 6       | 198ú    | 60             | 44.6                            | 4                                                                                           | 49               | 1.464        |                                     |                                     |
| NORWICH       | 01      | 1963    | 26             | 65.1                            | 55                                                                                          | 77               | 1.530        | 00                                  |                                     |
| NORWICH       | 0       | 1965    | 24             | 73.5                            | 62                                                                                          | 86               | 1.490        | 13                                  |                                     |
| OLD SAYBROOK  | 01      | 1973    | ע<br>ארט<br>אר | 62<br>. E                       | 52                                                                                          | 62               | 1 247        | ŗ                                   | -                                   |
| OLD SAYBROOK  | 5       | 1010    |                | )<br>1<br>1<br>1<br>1<br>1<br>1 | t ថ<br>ហ                                                                                    | 4 4              | - t t        | า u<br>•                            | ٣                                   |
|               | •       | r<br>•  | 2              |                                 | n<br>n                                                                                      | <b>f</b>         | - 10, -      | 0                                   | -                                   |

| CTICUT D                                       | EPARTM       | ENT OF                               | ENVIRONMEN                 | TAL PROTECT                                                                                 | ION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | PAGE                                                                                             | 21 A.                                     | R COMPLIANCE                                                               | DWINDRING                           |
|------------------------------------------------|--------------|--------------------------------------|----------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------|-------------------------------------|
| NTPA                                           | RTICUL       | ATES                                 |                            |                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                                  |                                           | DISTRIBUTION-                                                              | LOGN ORWAL                          |
| ME                                             | SITE         | YEAR                                 | SAMPLES                    | GEOM MEAN                                                                                   | 95-PCT-<br>LOWER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | -LIMITS<br>UPPER                                                                                 | STD GEOM DEV                              | PREDICTED<br>DAYS OVER<br>150 UG/M3                                        | PREDICTED<br>DAYS OVER<br>260 UG.M3 |
| /BROOK<br>/BROOK<br>/BROOK<br>/BROOK<br>/BROOK | 55555        | 1975<br>1976<br>1977<br>1978<br>1979 | 000004<br>000-04           | 6667<br>6667<br>6769<br>6750<br>6750<br>6750<br>6750<br>6750<br>6750<br>6750<br>6750        | លលលល4<br>004000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 71<br>66<br>90<br>90                                                                             | 1.490<br>1.569<br>1.535<br>1.447<br>1.603 |                                                                            |                                     |
|                                                | 0 0<br>0     | 1968                                 | •<br>•                     | 42.2                                                                                        | 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 61                                                                                               | 2.160                                     | 20                                                                         | ო                                   |
|                                                | 8 8<br>0 0   | 1969<br>1970                         | * 7<br>* *                 | 58<br>9<br>9<br>9<br>9                                                                      | 4 U<br>4 U                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 51<br>77                                                                                         | 1.380                                     | 13                                                                         | <b>.</b>                            |
|                                                | 0 0<br>0     | 1971                                 | 47                         | 40.6                                                                                        | <u>3</u> 6<br>7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 4 n<br>0 z                                                                                       | 1.579                                     | <del>، ا</del>                                                             |                                     |
|                                                | ი ო<br>ი ი   | 1973                                 | 00-                        | 45.6                                                                                        | 4<br>7<br>7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | † ល<br>ព                                                                                         | 1.619                                     | ~ M                                                                        | ,                                   |
|                                                | 80           | 1974                                 | *<br>9<br>9                | 43.4                                                                                        | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 58                                                                                               | 1.731                                     | 7                                                                          |                                     |
|                                                | 50           | 1967<br>1968                         | 25*                        | 51.7<br>69.5                                                                                | 43<br>57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 8<br>8<br>7<br>7<br>8                                                                            | 1.579                                     | 4.00                                                                       |                                     |
|                                                | 0000<br>0000 | 1968<br>1969<br>1970                 | ດ ທ ທ<br>ຫ ທ ທ<br>ຫ 4 ທ ສຸ | 48889<br>8889<br>9673<br>978<br>978<br>978<br>978<br>978<br>978<br>978<br>978<br>978<br>978 | 38873<br>8873<br>88873<br>88873<br>88873<br>88873<br>88873<br>88873<br>88873<br>88873<br>88873<br>88873<br>88873<br>88873<br>8873<br>8873<br>8873<br>8873<br>8873<br>8873<br>8873<br>8873<br>8873<br>8873<br>8873<br>8873<br>8873<br>8873<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8773<br>8775<br>8773<br>8773 | 700<br>100<br>100<br>100<br>100                                                                  | 1.670<br>1.550<br>1.685                   | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | លហល                                 |
|                                                | 0000         | 1972<br>1973<br>1974                 | រ ប ប<br>4                 | 53<br>42.8<br>34.8<br>0<br>84.0                                                             | 44<br>76<br>76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0 0 0<br>0 0 0                                                                                   | 1.618<br>1.750<br>1.835                   | ហេ ហេ ហ                                                                    |                                     |
|                                                | 000          | 1975                                 | - 00<br>00<br>0            | 63.5<br>63.5                                                                                | 944<br>007                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 8<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 1.773                                     | 0<br>4 4                                                                   | N                                   |
|                                                | 03           | 1966                                 | 27*                        | 52.6                                                                                        | 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 61                                                                                               | 1.458                                     | <b>-</b>                                                                   |                                     |
| RD                                             | ţ0           | 1966                                 | 21 *                       | 88.8                                                                                        | 69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 114                                                                                              | 1.754                                     | 67                                                                         | 2                                   |
| 020                                            | 55           | 1967<br>1968                         | *<br>ო<br>ო                | 76.0<br>87.6                                                                                | 65<br>71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 88<br>88<br>88<br>88<br>88                                                                       | 1.559                                     | 4 0                                                                        | - IU                                |
| RD<br>D                                        | . 10         | 1969                                 | 25.                        | 70.3                                                                                        | - 99<br>- 99                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | )<br>9<br>7<br>7                                                                                 | 1,560                                     |                                                                            | , <del></del> (                     |
| 02 02                                          | 55           | 1970                                 | 22<br>44                   | 100.5                                                                                       | 8<br>8<br>8<br>8<br>8<br>8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 118                                                                                              | 1.466<br>1.663                            | ល<br>ខ្លួ                                                                  | N M                                 |

| 3           | . I<br>•      | ៣៤៩<br>០៥១                          |                                                                                 |                                             |                                  |                                              |                                                                                                                                              | ,                                                                                |                                                                                                  |
|-------------|---------------|-------------------------------------|---------------------------------------------------------------------------------|---------------------------------------------|----------------------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| 1 SOLINOW   | FOGNO84       | PREDICT<br>DAYS CV<br>260 UG.       | ы<br>м<br>С                                                                     | - V                                         | 0 0<br>9 6)                      | 10 <b>* *</b>                                | - N M N M N '                                                                                                                                | ~ ~                                                                              | 100                                                                                              |
| COMPLIANCE  | NISTRIBUTION- | PREDICTED<br>DAYS DVER<br>150 UG/M3 | ະ<br>ເມີດ<br>ເມີດ<br>ເບີດ<br>ເບີດ<br>ເບີດ<br>ເບີດ<br>ເບີດ<br>ເບີດ<br>ເບີດ<br>ເບ | 5 4                                         | 16<br>113<br>126                 |                                              |                                                                                                                                              | 4<br>U@1-401-U                                                                   | 7 7<br>5 8<br>6                                                                                  |
| 22 AIF      |               | STD GEOM DEV                        | 1.748<br>1.487<br>4.735                                                         | 1.609                                       | 1.500<br>1.648<br>1.773          | 1,895<br>1,805<br>1,691<br>1,494             | 7.<br>9.<br>9.<br>9.<br>9.<br>1.<br>9.<br>9.<br>1.<br>1.<br>9.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1. |                                                                                  | 2.023<br>2.156                                                                                   |
| PAGE        |               | -LIMITS<br>UPPER                    | 146<br>121<br>121                                                               | - 0 6<br>9 7 7 9<br>9 7 9                   | 9<br>9<br>444<br>6<br>6          | 141<br>55<br>66<br>77                        | 07080740<br>07080740<br>07077804                                                                                                             | 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7                                            | 129<br>87<br>44                                                                                  |
| NOL         |               | 95-PCT-<br>LOWER                    | 100<br>80<br>81                                                                 | 0 4 N                                       | 62<br>93<br>102                  | 0 4 0 0<br>0 0 0 0                           | 6 4 4 6 6 6 6 6 6 6 7 6 7 6 7 6 7 6 7 7 7 7                                                                                                  | らううううう 50 4<br>こです 4 0 + C                                                       | ម<br>មេល<br>កំពុល                                                                                |
| TAL PRDTEC  |               | GEOM MEAN                           | - 22 4<br>2 9 4<br>0 9 4                                                        | 00<br>00<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 75.5<br>115.9<br>122.2           | 112.5<br>46.7<br>57.5<br>65.5                | 4 0 0 0 8 4 4 4<br>9 0 0 0 0 0 1 0<br>- 0 1 - 0 0 0 0 0 0                                                                                    | 00000000000000000000000000000000000000                                           | 8<br>9<br>9<br>7<br>9<br>7<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 |
| ENVIRONMEN' |               | SAMPLES                             | ・*<br>すいい<br>すいり                                                                | 194 <del>-</del>                            | 384<br>384<br>8                  | 0.4 N Q<br>0.0 0 N<br>* * * *                | +004604+<br>7000007+                                                                                                                         | 4 സ സ സ സ സ സ<br>യ 4 യ ഹ സ യ യ യ<br>*                                            | - 4 ແ<br>ት ተ ແ                                                                                   |
| ENT OF      | VTES          | YEAR                                | 1972<br>1973<br>1973                                                            | 1975<br>1976                                | 1969<br>1970<br>1971             | 1972<br>1974<br>1975<br>1976                 | 1969<br>1970<br>1971<br>1972<br>1973<br>1975<br>1975                                                                                         | 1974<br>1975<br>1975<br>1975<br>1977<br>1979<br>1980                             | 1971<br>1972<br>1973                                                                             |
| DEPARTME    | ARTI CULA     | SITE                                | 222                                                                             | 555                                         | 0 0 0<br>0 0 0                   | 0 0 0 0<br>0 0 0 0                           | 000000000<br>4444444                                                                                                                         | 07<br>07<br>07<br>07<br>07<br>07                                                 | 000                                                                                              |
| CONNECTICUT | POLLUTANTF    | TOWN NAME                           | STAMFORD<br>STAMFORD<br>STAMFORD                                                | STAMFORD                                    | STAMFORD<br>STANFORD<br>STAMFORD | STAWFORD<br>STAWFORD<br>STAWFORD<br>STAMFORD | STAMFORD<br>STAMFORD<br>STAMFORD<br>STAMFORD<br>STAMFORD<br>STAMFORD<br>STAMFORD<br>STAMFORD                                                 | STAMFORD<br>STAMFORD<br>STAMFORD<br>STAMFORD<br>STAMFORD<br>STAMFORD<br>STAMFORD | STAMFORD<br>STANFORD<br>STAMFORD                                                                 |

PREDICTED DAYS DJER 260 UG.M3 AIR COMPLIANCE MONITURING DISTRIBUTION--LOGNORWAL м 50 PREDICTED DAYS OVER 150 UG/M3 00400 NOON MUNDUDAND നമമ លភ្ល លុយ ທມວນດ 7 STD GEOM DEV 1.446 1.621 1.611 . 596 . 596 . 596 .634 .670 .756 .713 .673 .628 .628 .858 .697 .690 .640 .488 .514 1.555 1.486 1.745 1.536 .840 .410 .538 23 PAGE 56 66 60 95-PCT-LIMITS LOWER UPPER 123 99 67 5148 00 24 24 24 24 ហ ហ 000404 CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION GEOW WEAN 44000040044440 0004094-0000-00 •04040000-000 75.4 75.2 75.2 64.1 57.9 58.0 52.7 96.7 82.6 61.2 57.4 62.6 53.1 59.3 60.6 \* \* \* \* 08844 0984 SAMPLES \*04 \*0.4 \*0.0 0040044404400 00404404400 \*\*\* 0 0 0 0 0 0 6 . 1973 1974 1975 1966 1967 1967 1969 1970 1973 1975 1975 1976 1976 1968 1969 1970 1971 1957 1960 1962 1976 1976 1977 1978 1979 1980 YEAR POLLUTANT--PARTI CULATES 000000 123 11000000000000 1233 SITE 555 03/ **a a a** . STRATFORD STAMFORD STAMFORD STAMFORD TOWN NAME STAMFORD STAMFORD STAMFORD STAMFORD STAMFORD STAMFORD STAWFORD

Table 6, Continued

| CONNECTICUT | DEPARTW    | ENT OF        | ENVIRONMEN            | TAL PROTECT | NOI              | PAGE             | 24          | AIR COMPLIANCE                      | MONITCRING                          |
|-------------|------------|---------------|-----------------------|-------------|------------------|------------------|-------------|-------------------------------------|-------------------------------------|
| POLLUTANT   | PARTI CUL  | ATES          |                       |             |                  |                  |             | DISTRIBUTION                        | LOGNOPMAL                           |
| TOWN NAME   | SITE       | YEAR          | SAMPLES               | GEOM MEAN   | 95-PCT-<br>LGWER | -LIMITS<br>UPPER | STD GEOM DE | PREDICTED<br>DAYS OVER<br>150 UG/M3 | PREDICTED<br>DAYS DVER<br>260 UG/MS |
| STRATFORD   | 05         | 1976          | 60                    | 60.0        | 54               | 67               | 1.567       | თ                                   |                                     |
| STRATFORD   | 05         | 1977          | 53                    | 57.9        | ស<br>ស           | 69               | 1.584       | 7                                   |                                     |
| STRATFORD   | 05         | 1978          | 61                    | 55.3        | 50               | 62               | 1.598       | 7                                   |                                     |
| SIRATFORD   | 05         | 1979          | 58                    | 56.4        | 51               | 62               | 1:483       | 2                                   |                                     |
| STRATFORD   | 05         | 1980          | 58                    | 50.4        | 5<br>13<br>13    | ល                | 1.488       | •                                   |                                     |
| THOMASTON   | 01         | 1967          | *<br>ෆ<br>ෆ           | 82.0        | 67               | 101              | 1.839       | 5                                   | 10                                  |
| THOMASTON   | ЕО         | 1 <b>9</b> 68 | 1<br>*                | 75.2        | 59               | 96               | 1.570       | 24                                  |                                     |
| THOMASTON   | E0         | 1969          | *<br>80<br>7          | 67.1        | 5 <u>5</u>       | 81               | 1.450       | 00                                  |                                     |
| THOMASTON   | 03         | 1970          | 24*                   | 74.2        | 62               | 88               | 1.537       | 20                                  | <b>•</b>                            |
| THOWASTON   | 03         | 1971          | 47                    | 72.2        | 61               | 85               | 1.799       | 42                                  | ŵ                                   |
| THOMASTON   | е <b>о</b> | 1972          | 45                    | 65.0        | ទួល              | 76               | 1.754       | 24                                  | <ul> <li></li> <li></li> </ul>      |
| THOWASTON   | 03         | 1973          | 57                    | 39.7        | 35               | 45               | 1.625       | -                                   |                                     |
| THON'ASTON  | 60         | 1974          | 6<br>5                | 41.7        | 36               | 48               | 1.767       | ŝ                                   |                                     |
| THOMASTON   | 03         | 1975          | . 57                  | 44.7        | 40               | 50               | 1.584       | <b>(N</b> ) -                       |                                     |
| THOMASTON   | 04         | 1966          | 29*                   | 63.9        | 53               | 77               | 1.644       | 16                                  | <b>F</b>                            |
| TORRINGTON  | 01         | 1966          | 26*                   | 39.4        | ee<br>S          | 47               | 1.598       | •                                   | ň                                   |
| TORRINGTON  | 01         | 1967          | 25.4                  | 51.8        | 44               | 61               | 1.537       | 7                                   |                                     |
| TORRINGTON  | 01         | 1968          | 23                    | 61.0        | 50               | 74               | 1.570       | ß                                   |                                     |
| TORRINGTON  | 01         | 1969          | 23                    | 62.9        | 53               | 75               | 1,530       | 8                                   |                                     |
| TORRINGTON  | 6          | 1970          | 4<br>4<br>1<br>1<br>4 | 83.1        | 17               | 98               | 1.489       | 24                                  | <b>,</b>                            |
| TORRINGTON  | -0<br>-    | 1971          | 51                    | 77.5        | 67               | 68               | 1.710       | . 42                                | ব                                   |
| TORR INGTON | 10         | 1972          | 22                    | 64.9        | 56               | 75               | 1.763       | 24                                  | ຕ                                   |
| TORR INGTON | 01         | 1973          | с<br>С                | 47.3        | 4                | 53               | 1.651       | ব                                   |                                     |
| TOPRINGTON  | 10         | 1974          | 60                    | 53.4        | 47               | 60               | 1.681       | ß                                   |                                     |
| TORKINGTON  | 01         | 1975          | *00                   | 68.3        | 53               | 80               | 1.582       | 16                                  | <b>-</b>                            |
| TORPINGTON  | 123        | 1975          | 30<br>7               | 450.E       | 40               | 52               | 1.401       |                                     |                                     |
| TORPINGTON  | 123        | 1976          | 57                    | 67.7        | 6<br>13          | 77               | 1.702       | 54                                  | c1                                  |
| TORRINGTON  | 123        | 1977          | 61                    | 62.7        | 56               | 71               | 1.653       | 16                                  | ٠                                   |
| TOARINGTON  | 123        | 1978          | 120                   | 59.7        | 50<br>4          | 66               | 1,929       | 29                                  | ເກ                                  |
| TORRINGTON  | 123        | 1979          | 116                   | 59.4        | 55               | 64               | 1.702       | 16                                  | -                                   |

| ONNECTICUT DE | EPARTM  | ENT OF        | ENVIRONMEN           | TAL PROTECT | NOI                    | PAGE             | 25             | AIR        | COMP LI ANCE                        | MONITORING                          |
|---------------|---------|---------------|----------------------|-------------|------------------------|------------------|----------------|------------|-------------------------------------|-------------------------------------|
| OLLUTANTPAF   | NTI CUL | ATES          |                      |             |                        |                  |                | ā          | ISTRIBUTION-                        | -LOGNORMAL                          |
| OWN NAME      | SITE    | YEAR          | SAMPLES              | GECM MEAN   | 95-PCT-<br>LOWER       | -LIMITS<br>UPPER | STD GEOM       | I DEV      | PREDICTED<br>DAYS OVER<br>150 UG/M3 | PREDICTED<br>DAYS OVER<br>260 UG/M3 |
| NOTONI ARO    | 123     | 1980          | 011                  | 51.0        | 48                     | 54               | 1.5            | 18         | C¥                                  |                                     |
| TORRINGTON 1/ | 123     | 1975          | ម<br>អ្              | 56.2        | 50                     | 63               | ۰<br>۲         | : 23       | in                                  |                                     |
| /OLUNTOWN     | 01      | 1973          | <b>4</b><br>8        | 28.6        | 54                     | 34               | 1.5            | 358        | <del>1.</del>                       |                                     |
| /OLUNTOWN     | 5       | 1974          | 56.                  | 25.6        | 55                     | o e              |                | 100<br>101 | - •                                 |                                     |
| /OLUNTOWN     | 5 5     | 1975<br>1976  | 4<br>7<br>* 4<br>* * | 28.8        | † 00<br>N <del>-</del> | 1 0<br>1 0       | - 4            | 107        | -                                   |                                     |
| VOLUNIOWN     | 55      | 1978          | 119                  | 26.4        | 2 4                    | 00               | 1.6            | 597        |                                     |                                     |
| VOLUNTOWN     | 50      | 1979          | 117                  | . 25.7      | 24                     | 28               | . <del>.</del> | 669        |                                     |                                     |
| VOLUNTOWN     | 01      | 1980          | 119                  | 28.0        | 54                     | 28               | 1.6            | 513        |                                     |                                     |
| MALL INGEORD  | 01      | 1975          | *<br>00<br>0         | 43.3        | 37                     | 51               | 1.4            | 186        |                                     |                                     |
| MALLINGFORD   | 5       | 1976          | 60                   | 58.4        | 52                     | 65               | 1.6            | 508        | ω                                   |                                     |
| MALL INGFORD  | 5       | 1977          | ເກ                   | 57.1        | ິ<br>ມີ                | 64               | 1.(            | 501        | 7                                   |                                     |
| WALLINGFORD   | 6       | 1978          | 61                   | 57.0        | 50                     | 65               | -              | 799        | 20                                  | N                                   |
| WALLINGFORD   | 6       | 1979          | 54                   | 54.1        | 49                     | 60               | 4.             | 472        | 2                                   |                                     |
| WALLINGFORD   | 01      | 1980          | 52                   | 47.1        | 43                     | 52               |                | 513        | F                                   |                                     |
| WALLINGFORD   | 02      | 1970          |                      | 43.0        | 25                     | 75               | 1.1            | 826        | 7                                   |                                     |
| WALLINGFORD   | 80      | 1970          | · *<br>01            | 39.3        | 25                     | 61               | -<br>-         | 795        | 4                                   |                                     |
| WALLINGFORD   | 04      | 1970          | . <b>*</b><br>ຫ      | 42.0        | 24                     | 72               | 3              | 053        | 13                                  | N                                   |
| WALLINGFORD   | 05      | 1970          | °.*                  | 66.1        | 4                      | 0<br>0           | -              | 480        | 1-                                  |                                     |
| WATERBURY     | 5       | 1 <b>9</b> 66 | 34*                  | 84.0        | 71                     | 6<br>6           | •              | 657        | С<br>П                              | ,<br>≀ م                            |
| WATFRBURY     | 01      | 1967          | . 60.                | . 80.0      | 70                     | 91               | ÷              | 770        | 20<br>21                            | ~ (                                 |
| WATERBURY     | 01      | 1968          | 24*                  | 83.2        | 71                     | 110              | -              | 720        | 58                                  | ມ                                   |
| WATERBURY     | 5       | 1969          | 25                   | 95.4        | 82                     | 111              | <br>-          | 460        | 4                                   |                                     |
| WATERBURY     | 01      | 1970          | 25                   | 95.0        | 76                     | 118              | ÷.             | 730        | 77                                  | τ<br>Γ                              |
| WATERBURY     | 01      | 1971          | 55                   | 84.4        | 75                     | 9<br>9<br>2      |                | 588        | 47                                  | ימי                                 |
| WATERBURY     | 0       | 1972          | 60                   | 78.9        | 70                     | 0<br>0           | •<br>•         | 638        | 5)<br>5)<br>6)                      | י<br>יי<br>יי                       |
| WATERBURY     | 0       | 1973          | 20*                  | 76.9        | 65                     | 91               | <br>           | 556        | 24                                  | -                                   |

| CONNECTICUT | DEPARTN  | MENT OF | ENVIRONMEN | TAL PROTECT       | NOI              | PAGE            | 26 AIF       | COMPLIANCE                          | SNIGDTINOW                            |
|-------------|----------|---------|------------|-------------------|------------------|-----------------|--------------|-------------------------------------|---------------------------------------|
| POLLUTANT   | PARTICUL | ATES    |            |                   |                  |                 | L            | NISTRI BUTION-                      |                                       |
| TOWN NAME   | SITE     | YEAR    | SAMPLES    | GEOM MEAN         | 95-PCT-<br>LOWER | LIMITS<br>UPPER | STD GEOM DEV | PREDICTED<br>DAYS CVER<br>150 UG/M3 | PREDICTED<br>DAYS OVER<br>260 U.3. M3 |
| WATERBURY   | 01       | 1974    | 5.1 .      | 72.3              | 63               | 83              | 1.725        | с<br>С                              | ष                                     |
| WATERBURY   |          | 1975    | 80 X       | 82.6              | 64               | 107             | 1.749        | 0.0                                 | t.                                    |
| WATERBURY   | 02       | 1974    | · *<br>()  | 53.2              | 42               | 68              | 1 715        | 5                                   | ·                                     |
| WATERBURY   | 02       | 1975    | ອ<br>ເມ    | 00:<br>00:<br>00: | ី ហ              | 73              | 0 C C C C    |                                     | -                                     |
| WATERBURY   | 02       | 1976    | 60         | 60.1              | ) प<br>11        | 57              | 1000 - F     |                                     |                                       |
| WATERBURY   | 02       | 1977    | 60         | 79.0              | - <del>1</del>   | 77              |              |                                     |                                       |
| WA FERBURY  | 02       | 1978    | 60         | 62.3              | ំ<br>ហ           | 7.2             | 1 840        | - 0                                 | þ                                     |
| WATERBURY   | 02       | 1979    | <u>д</u>   | 49.8              | 40               | 01<br>14        | 1.452        | }                                   | r                                     |
| WATERBURY   | 02       | 1980    | 59         | 48.8              | 4                | 53              | 1.603        | 63                                  |                                       |
| 'WATERBURY  | 60<br>0  | 1975    | 52.        | 57.1              | 51<br>10         | 64              | 1 5a6        | 4                                   |                                       |
| WATERBURY   | е0<br>З  | 1976    | *<br>      | 65.0              | - 4              | t d             |              | t c<br>ç                            | c                                     |
| •           |          | 1       |            |                   | -                | 0               |              | 2                                   | v                                     |
| WATERBURY   | 123      | 1975    | 37*        | 84.7              | 74               | 97              | 1.539        | 35                                  | 2                                     |
| WALERBURY   | 123      | 1976    | 60         | 85.5              | 76               | 86              | 1.689        | 0<br>0<br>0<br>0<br>0               | - 1-                                  |
| WATERBURY   | 123      | 1977    | 118        | 81.3              | 75               | 8               | 1.651        | 42                                  | - দ                                   |
| WATERBURY   | 123      | 1978    | 122        | 80.0              | 74               | 86              | 1.715        | . 4                                 | · u                                   |
| WATERBURY   | 123      | 1979    | 117        | 69.6              | 65               | 74              | 1.518        | 1 m                                 | )                                     |
| WATERBURY   | 123      | 1980    | 119        | 57.8              | 54               | 62              | 1.579        | 7                                   |                                       |
| WA TERBURY  | A 01     | 1963    | 25         | 64.9              | ។<br>ហ           | 77              | 1.560        | 0                                   |                                       |
| WATERBURY   | A 01     | 1965    | 26         | 105.2             | 85               | 130             | 1.740        | 100                                 | 20                                    |
| WATERBURY   | A 01     | 1969    | 26         | 79.3              | 68               | 92              | 1.480        | 20                                  |                                       |
| WATERBURY   | A 01     | 1970    | 25         | 85.9              | 71               | 104             | 1.620        | 42                                  | ন                                     |
| WATERBURY   | A 01     | 1971    | 26         | 87.7              | 75               | 102             | 1.470.       | 29                                  | ۰.                                    |
| WATERBURY   | A 01     | 1972    | 28         | 68. <i>8</i>      | 28               | 82              | 1.590        | 16                                  | <b>*</b> **                           |
| WATERFORD   | 01       | 1974    | 4<br>, 04  | 31.1              | 27               | 36              | 1.745        | F                                   |                                       |
| WATERFORD   | 01       | 1975    | 60         | 32.3              | 23               | 37              | 1.753        | <b>.</b> -                          |                                       |
| WATERFORD   | 61       | 1976    | 57         | 34.3              | 30               | 90<br>00        | 1.633        |                                     |                                       |
| WATERFORD   | 5        | 1977    | 61         | 32.2              | 29               | 00<br>00        | 1.669        |                                     |                                       |
| WATERFORD   | 61       | 1978    | 61         | 33.0              | 30               | 36              | 1.523        |                                     |                                       |
| WATERFORD   | 5        | 1979    | 58         | 30.2              | 26               | 35              | 1.736        | •-                                  |                                       |
| WATERFORD   | 01       | 1980    | 57         | 34.1              | 31               | 38              | 1.563        | ,                                   |                                       |

| CONNECTICUT [ | <b>JEPARTM</b> | ENT OF | ENVIRONMEN' | TAL PROTECT. | ION               | PAGE             | 27 1         | ALR COMPLIANCE                      | MONITGRING                          |
|---------------|----------------|--------|-------------|--------------|-------------------|------------------|--------------|-------------------------------------|-------------------------------------|
| POLLUTANTPJ   | ARTI CUL.      | ATES   |             |              |                   |                  |              | DISTRIBUTION                        | TEMEC NDOT                          |
| TOWN NAME     | SITE           | YEAR   | SAMPLES     | GEOM WEAN    | -95-PCT-<br>LOWER | -LIMITS<br>UPPER | STD GEOM DEV | PREDICTED<br>DAYS OVEP<br>150 UG/M3 | PREDICTED<br>DAYS OVER<br>260 UG/M3 |
| WILLIMANTIC   | 01             | 1973   | 28<br>*     | 45.7         | di<br>M           | 53               | 1,476        |                                     |                                     |
| WILLIMANTIC   | 01             | 1974   | 61          | 40.1         | 36                | 45               | 1.591        | • <b>(</b>                          |                                     |
| WILLIMANTIC   | 01             | 1975   | 00          | 48.7         | ণ<br>ঘ            | ე<br>4           | 1.531        | CN)                                 |                                     |
| WILLIMANTIC   | 01             | 1976   | *<br>       | 54.7         | 4<br>ሀ            | 65               | 1.377        |                                     |                                     |
| WILLIMANTIC   | 02             | 1979   | 15*         | 43.2         | 36                | 52               | 1.424        |                                     |                                     |
| WILLIMANTIC   | 02             | 1980   | 60          | 42.2         | 38                | 47               | 1.550        |                                     |                                     |
| WINCHESTER    | 01             | 1967   |             | 80.8         | 56                | 117              | 1.868        | 58                                  | 5                                   |
| WINCHESTER    | 01             | 1968   | 22*         | 61.9         | 50                | 77               | 1.640        | 5                                   | -                                   |
| WINCHESTER    | 010            | 1969   | 3.3*        | 51.0         | 44                | 59               | 1.430        |                                     |                                     |
| WINCHESTER    | 01             | 1970   | 25          | 55,4         | 47<br>10          | 64               | 1.420        | • ·                                 | •                                   |
| WINCHESTER    | 01             | 1971   | 56          | 58.2         | 23                | 64               | 1.504        | ব                                   |                                     |
| WINCHESTER    | 01             | 1972   | 50          | 50.0         | С †               | ម<br>ខ្ល         | 1.746        | ω,                                  |                                     |
| WINCHESTER    | 0              | 1973   | 58          | 40.6         | 36                | 46               | 1.731        | τ <b>η</b> Ι                        |                                     |
| WINCHESTER    | 0              | 1974   | 60          | 44.7         | 68<br>9           | ម្               | 1.722        | IN I                                |                                     |
| WINCHESTER    | 0              | 1975   | 58.         | 52.0         | 46                | 58<br>28         | 1.606        | ហ                                   | t                                   |
| WINCHESTER    | 01             | 1976   | + O F       | 68.7         | 47                | 100              | 1.886        | 42                                  | 1                                   |
| WINCHESTER    | ео             | 1966   | 20*         | 48.7         | . 4               | 5<br>0           | 1.536        | N                                   |                                     |
| WINCHESTER    | 03             | 1967   | 11*         | 51.8         | 6°                | 98               | 1.524        | N                                   |                                     |
|               |                |        |             |              |                   |                  |              |                                     |                                     |

SAMPLING NOT RANDOM OR OF INSUFFICIENT SIZE FOR REPRESENTATIVE AWNUAL STATISTICS.

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TABLE 7

# CONFIDENCE OF COMPLIANCE WITTH ANNUAL TSP STANDARDS (1986)

# PRIMARY STANDARD

| Uncertain Whether | Standard Has  | Been Achieved | Or Exceeded         |
|-------------------|---------------|---------------|---------------------|
|                   | 95% Confident | Standard Has  | Been Exceeded (>75) |

# SECONDARY STANDARD

| Uncertain Whether | Standard Has  | Been Achieved | Or Exceeded          |
|-------------------|---------------|---------------|----------------------|
|                   | 95% Confident | Standard Has  | Been Exceeded (> 60) |

n Achieved ndard Has Or Exceeded

New Haven Ø2 Waterbury 123 Hartford 123 Meriden Ø5

Bridgeport 123 New Haven 123

TABLE 8

## 1980 MAXINUM 24-HOUR TSP CONCENTRATIONS\*

I

| SITE           | lst<br><u>HIGH</u> | 2HD<br>HIGE | 0100      | 150 200            | 260                 | 400 |
|----------------|--------------------|-------------|-----------|--------------------|---------------------|-----|
| Ansonia-003    | 2/21               | 12/20       | 161       |                    |                     |     |
| Berlin-001     | 2/21               | 8/1         | 70<br>64- |                    |                     |     |
| Briågeport-001 | 2/21               | 6/2         | 124       |                    |                     |     |
| Bridgeport-123 | 5/24               | 7/20        | 176       |                    |                     | ů.  |
| Bristol-001    | 3/4                | 6/26        | 86        |                    |                     |     |
| Burlington-001 | 5/24               | 6/26        | 74        |                    |                     |     |
| Danbury-123    | 12/17              | 3/4         | 223       | 1                  |                     |     |
| Enfield-123    | 2/21               | 11/23       |           |                    |                     |     |
| Greenwich-04   | 7/20               | 8/1         | 91        |                    |                     |     |
| Greenwich-08   | 7/14               | 1/22        | 119       |                    |                     |     |
| Greenwich-016  | 7/20               | 6/25        |           |                    |                     |     |
| Haddam-002     | 6/2                | 12/29       |           |                    |                     | :   |
| Hartford-003   | 2/21               | 5/24        | 167       | gan gan dari ber   | :<br>               |     |
|                |                    |             | Seco      | l<br>náary<br>dard | Primary<br>Standard |     |

\* Units in ug/m<sup>3</sup>

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### --TAPLE 8, continued--

|                | 1ST         | 2ND         | 150 260                                |
|----------------|-------------|-------------|----------------------------------------|
| SITE           | <u>HIGH</u> | <u>HIGH</u> | 0 100 200 300 400                      |
| Hartford-123   | 2/21        | 7/2         | 152                                    |
| Manchester-001 | 8/1         | 7/20        | 83                                     |
| Meriden-002    | 3/4         | 2/21        | 119                                    |
| Meriden-005    | 3/4         | 6/26        | 151                                    |
| Middletown-003 | 2/21        | 7/20        |                                        |
| Milford-002    | 2/21        | 3/4         | 106                                    |
| Morris-001     | 5/24        | 7/20        | 90                                     |
| Naugatuck-001  | 2/21        | 12/23       | 120                                    |
| N. Britain-123 | 2/21        | 5/24        | 114                                    |
| N. Haven-002   | 7/20        | 2/21        | 190                                    |
| N. Haven-123   | 12/17       | 2/21        | 165<br>164                             |
| Norwalk-005    | 2/21        | 3/7         | 142                                    |
| Norwich-001    | 2/21        | 3/4         | 102                                    |
| Stamford-007   | 7/20        | 7/2         | 115                                    |
| Stamford-123   | 2/21        | 6/2         | 120                                    |
| Stratford-005  | 2/21        | 12/17       | 138                                    |
|                |             |             | Secondary Primary<br>Standard Standard |

\* Units in  $ug/m^3$ 

--TABLE 8, continued--



\* Units in ug/m<sup>3</sup>

|              | SITES WITH $\geq 2$ DAY<br>THE SECONDARY STANDAR | S EXCEEDING<br>D (150 ug/m3) | SITES WITH $\geq 2$ D<br>THE PRIMARY STANDA | AYS EXCEEDING<br>RD (260 ug/m3) | TOTAL #            |
|--------------|--------------------------------------------------|------------------------------|---------------------------------------------|---------------------------------|--------------------|
| YEAR         | Number of Sites                                  | % of<br>Total Sites          | Number of Sites                             | % of<br><u>Total Sites</u>      | OF HI-VOL<br>SITES |
| 1971         | 37                                               | 84%                          | 20                                          | 45%                             | 44                 |
| 1972         | 43                                               | 938                          | 13                                          | 28%                             | 46                 |
| 1973         | 31                                               | 7Ø8                          | 11                                          | 25%                             | 44                 |
| 1974         | 49                                               | 79%                          | 5                                           | 88                              | 62                 |
| 1975         | 41                                               | 75%                          | 2                                           | 48                              | 55                 |
| 1976         | 36                                               | 888                          | 3                                           | 78                              | 41                 |
| 1977         | 27                                               | 69%                          | 1                                           | 38                              | 39                 |
| <b>19</b> 78 | 22                                               | 61%                          | 7                                           | 19%                             | 36                 |
| 1979         | 22                                               | 63%                          | 2                                           | 68                              | 35                 |
| 198Ø         | 14                                               | 4Ø8                          | Ø                                           | Øŧ                              | 35                 |

## TABLE 9 SUMMARY OF THE STATISTICALLY PREDICTED NUMBER OF SITES EXCEEDING THE 24-HOUR TSP STANDARDS

-PAGE 分 分 十

CONNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTION 05/13/1982 AIR COMPLIANCE MCNITCRING QUARTERLY COMPOSITES

PROJECT 01 AGENCY F SITE CO3 AREA 0008. TOWN NAME ANSONIA YEAR 1980

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| **                                 | *********                    | ******                                     | *****                                |                                  | ********                     | = METALS ⇒                   |                              |                                  | * + - + + + + + + + + + +        | * • • • • • • • • •     | ***                       |
|------------------------------------|------------------------------|--------------------------------------------|--------------------------------------|----------------------------------|------------------------------|------------------------------|------------------------------|----------------------------------|----------------------------------|-------------------------|---------------------------|
| DUARTER                            | AL<br>12101/92<br>UG/M3      | BE<br>12105/92<br>UG/M3                    | CD<br>12110/92<br>UG/M3              | CR<br>12112/92<br>UG/M3          | CU<br>12114/92<br>UG/M3      | FE<br>12126/92<br>UG/M3      | PB<br>12128/92<br>UG/M3      | MN<br>12132/92<br>UG/M3          | NI<br>12136/92<br>UG/M3          | V.<br>12164/92<br>UG/M3 | 2N<br>12167/92<br>UG/M3   |
| FIRST<br>SECOND<br>THIRD<br>FJURTH |                              | 80L<br>80L<br>80L<br>80L                   | 0.0201<br>0.0193<br>0.0143<br>0.0519 | 0.003<br>0.007<br>0.006<br>0.016 | 0.26<br>0.25<br>0.33<br>0.43 | 1•13<br>0•71<br>0•73<br>0•07 | 1.02<br>0.52<br>0.58<br>0.58 | 0.024<br>0.019<br>0.018<br>0.018 | 0.007<br>0.003<br>0.010<br>0.014 | 0.02<br>0.02<br>0.02    | 0.64<br>0.63<br>1.31      |
| YEAR AVG<br>COUNT                  |                              | 0.0001<br>57                               | 0.0244                               | 0.008                            | 0¢31<br>57                   | 0•82<br>57                   | 0•68<br>57                   | 0-020                            | 600 <b>°</b> 0                   | 0°03<br>57              | 0•81<br>42                |
| •                                  | ·<br>                        | ₩<br>+ + + + + + + + + + + + + + + + + + + | ×⇔- WATER S                          | oruares -*                       | * * * * * *                  | Ŷ                            | ⊭≉BENZ SCL≎                  | ¥<br>\$                          | :⇔- TSP -≲                       | e<br>e                  | ₩ \$P\$                   |
| ជួUARTER                           | NITRATE<br>12306/92<br>UG/M3 | SULFATE<br>12403/92<br>UG/M3               | AMMONIUM<br>12301/91<br>UG/M3        | SODIUM<br>12184/92<br>UG/M3      | РН<br>12602/91<br>РН-UNITS   |                              | TOTAL<br>11103/91<br>UG/M3   |                                  | ARITH AV<br>11101/91<br>UG/M3    |                         | APPROX<br>SAMPLE<br>Count |

Table 10 Quarterly Chemical Characterization of Hi-Vol TSP, 1980

53

110112

75 538 48

9.40 8.70 9.10 7.20

0.11 8DL 0.11 0.14

5°46 4°02 9°41 6°03

· 3 • 30 2 • 34 1 • 90

FIRST SECOND THIRD FOURTH

8°71 57

0°09

6°30 57

YEAR AVG COUNT

PAGE

N

CUNNECTICUT DEPARTMENT OF ENVIRONMENTAL PROTECTICN 05/13/1982 AIR COMPLIANCE MONITCRING QUARTERLY COMPOSITES

YEAR TOWN NAME AREA SITE AGENCY PROJECT 1980 Berlin 0028 col F 03

|                                    | 9<br>                          | ☆                                        | *                                     | ******                           | ()))))))))))))))))))))))))))))))))))))                                                      | <pre>% METALS </pre>         | **                           | ********                         | \$ <b>*</b> \$                   | *                            | *******                                                                   |
|------------------------------------|--------------------------------|------------------------------------------|---------------------------------------|----------------------------------|---------------------------------------------------------------------------------------------|------------------------------|------------------------------|----------------------------------|----------------------------------|------------------------------|---------------------------------------------------------------------------|
| QUARTER                            | AL<br>12131/92<br>UG/M3        | ыЕ<br>12105/92<br>UG/M3                  | CD<br>12110/92<br>UG/M3               | CR<br>12112/92<br>UG/M3          | CU<br>12114/92<br>UG/M3                                                                     | FE<br>12126/92<br>,UG/M3     | PB<br>12128/92<br>UG/M3      | MN<br>12132/92<br>UG/M3          | NI<br>12136/92<br>UG/M3          | V<br>12164792<br>UG/M3       | ZN<br>12167/92<br>UG/M3                                                   |
| FIRST<br>Second<br>THIRD<br>FUURTH |                                | 80L<br>80L<br>0.0001<br>80L              | 0•0013<br>0•0012<br>0•0010            | 0.003<br>0.004<br>0.003<br>0.003 | 0.29<br>0.66<br>0.40<br>0.29                                                                | 0°34<br>0°24<br>0°26<br>0°15 | 0.28<br>0.20<br>0.19<br>0.20 | 0.009<br>0.011<br>0.009<br>0.009 | 0.002<br>0.005<br>0.004<br>0.004 | 0.05<br>0.01<br>0.01<br>0.03 | C.11<br>0.04<br>0.07                                                      |
| YEAR AVG<br>Count                  |                                | J.0001<br>56                             | 0•0012<br>56                          | 0.003<br>56                      | 0 - 39<br>56                                                                                | 0.25<br>56                   | 0 • 2 2<br>5 6               | 0•009<br>56                      | 0•004<br>56                      | 0°03<br>56                   | 0°07<br>41                                                                |
|                                    | 0                              | 0<br>                                    | *≎- WATER S                           | OLUBLES -*                       | 100                                                                                         | *                            | ¢≎BENZ SCL¢:                 | *                                | :⇔- TSP -*                       | *                            | \$P\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$\$ |
| QUART ER                           | NITRATE<br>12306/92<br>·UG/M3  | SuLFATE<br>12403/92<br>UG/M3             | AMMONIUM<br>12301/91<br>UG/M3         | SODIUM<br>12184/92<br>UG/M3      | РН<br>12602/91<br>РН-UNITS                                                                  |                              | T0TAL<br>11103/91<br>UG/M3   |                                  | ARITH AV<br>11Í01/91<br>UG/M3    |                              | APPROX<br>SAMPLE<br>COUNT                                                 |
| FIRST<br>SECJND<br>THIRD<br>FOURTH | 3.34<br>3.56<br>1.889<br>1.889 | 5 • 5 0<br>5 • 6 2<br>5 • 8 9<br>3 • 5 2 | .0.10<br>0.04<br>0.10<br>0.10<br>0.10 | <b>`</b>                         | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 |                              |                              |                                  | а<br>94<br>19<br>24              |                              |                                                                           |

Table 10, Continued

33

8.80 56

0,08 56

4.40 56

2•66 56

YEAR AVG COUNT 4

. . . . .

the second second second

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|                                    |                                                                       | ប័                                    | ONNECTICUT<br>AIR                    | DEPARTMEN<br>CUMPLIANCE          | T OF ENVIRO<br>E MONITCRIN                                                                   | NMENTAL PH<br>16 QUARTE      | RLY COMPO                    | <b>35/13/1982</b><br>SITES                |                                            | PAGE 3                                                            |                                                                                             |
|------------------------------------|-----------------------------------------------------------------------|---------------------------------------|--------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------|------------------------------|------------------------------|-------------------------------------------|--------------------------------------------|-------------------------------------------------------------------|---------------------------------------------------------------------------------------------|
|                                    |                                                                       |                                       | YEAR T(<br>1980 Bl                   | OWN NAME<br>Ridgeport            |                                                                                              | AREA 51<br>0060 00           | ITE AGENC                    | Y PRUJEC                                  | L                                          |                                                                   |                                                                                             |
| •                                  | 00<br>   <br>   <br>   <br>   <br>   <br>   <br>   <br>   <br>   <br> | · · · · · · · · · · · · · · · · · · · | :*<br>                               | :*<br>                           | 44<br>4<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | ≈ METALS **                  |                              | ·*<br>+ + - + - + - + - + + - + + + + + + | * *<br>*<br> <br> <br> <br> <br> <br> <br> | 4<br> <br> | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
| JUARTER                            | AL<br>12101/92<br>UG/M3                                               | 85<br>12105/92<br>UG/M3               | CD<br>12110/92<br>UG/M3              | CR<br>12112/92<br>UG/M3          | CU<br>12114/92<br>UG/M3                                                                      | FE<br>12126/92<br>UG/M3      | PB<br>12128/92<br>UG/M3      | MN<br>12132/92<br>UG/M3                   | NI<br>12136/92<br>UG/M3                    | V<br>12164/92<br>UG/M3                                            | ZN<br>12167/92<br>UG/M3                                                                     |
| FIRST<br>SECOND<br>THIRD<br>FJURTH |                                                                       | 30L<br>30L<br>0.0001<br>80L           | 0.0028<br>0.0050<br>0.0036<br>0.0028 | 0.004<br>0.004<br>0.006<br>0.006 | 0.23<br>0.69<br>0.48<br>0.09                                                                 | 0.59<br>0.61<br>0.92<br>0.33 | 0.67<br>0.68<br>0.83<br>0.38 | 0.017<br>0.025<br>0.033<br>0.013          | 0.004<br>0.010<br>0.010<br>0.006           | 0.04<br>0.02<br>0.02<br>0.02                                      | 0.20<br>0.46<br>0.07                                                                        |
| YEAR AVG<br>CJUNT .                |                                                                       | 0•6031<br>29                          | 0.0036<br>29                         | 0 <b>.</b> 004<br>29             | 0•40<br>29                                                                                   | 0•63<br>29                   | 0•66<br>29                   | 0 • 023.<br>29                            | 0°008<br>29                                | 0°02<br>29                                                        | 0.26<br>22                                                                                  |
|                                    |                                                                       | *****                                 | **- WATER S                          | OLUBLES -*                       |                                                                                              | *                            | ¢BENZ SOL*                   | **                                        | ¢- TSP -\$                                 | а<br>Ф                                                            | 000                                                                                         |
| QUARTER                            | NITRATE<br>12306/92<br>UG/M3                                          | SULFATE<br>12403/92<br>UG/M3          | AMMONIUM<br>12301/91<br>UG/M3        | SODIUM<br>12184/92<br>UG/M3      | РН<br>12602/91<br>РН-UNITS                                                                   |                              | T0TAL<br>11103/91<br>UG/M3   |                                           | ARITH AV<br>11101/91<br>UG/M3              |                                                                   | APPROX<br>SAMPLE<br>COUNT                                                                   |
| FIRST<br>SECOND<br>THIRD<br>FJURTH | 4.41<br>7.03<br>2.23<br>2.80                                          | 5°39<br>10-55<br>7°15<br>7°76         | 0.12<br>0.05<br>0.11<br>0.02         |                                  | 9 50<br>8 60<br>8 8 80<br>8 70                                                               |                              |                              |                                           | 5<br>6<br>6<br>2<br>5<br>2<br>5            |                                                                   | ► 8 8 4                                                                                     |
| YEAR AVG<br>COUNT                  | 4 <b>e</b> 20<br>29                                                   | 7.79<br>29                            | 0 • C8<br>29                         |                                  | 8°39<br>29                                                                                   |                              |                              |                                           | 55<br>29                                   |                                                                   |                                                                                             |
|                                    |                                                                       |                                       |                                      |                                  |                                                                                              |                              |                              |                                           |                                            |                                                                   |                                                                                             |

Table 10, Continued

| 4                                   |                              |
|-------------------------------------|------------------------------|
| PAGE                                |                              |
| ENVIRONMENTAL PROTECTION 05/13/1982 | ITCRING QUARTERLY COMPOSITES |
| щщ                                  | INOM                         |
| DFPARTMENT                          | <b>COMPLIANCE</b>            |
| CONNECTICUT                         | AIR                          |

| PROJECT   | 01         |
|-----------|------------|
| AGENCY    | u.         |
| SITE      | 123        |
| AREA      | 0000       |
| TOWN NAME | BRIDGEPORT |
| YEAR      | 1930       |

|                                    | *                                                                                                | *****                        |                                      |                                  | ***                          | e METALS ⇒                   | ***                          | ÷                                | ** + *                           | ***                          | ***                        |
|------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------|--------------------------------------|----------------------------------|------------------------------|------------------------------|------------------------------|----------------------------------|----------------------------------|------------------------------|----------------------------|
| UUARTER                            | AL<br>12101/92<br>UG/Å3                                                                          | BE<br>12105/92<br>UG/M3      | CD<br>12110/92<br>UG/M3              | CR<br>12112/92<br>UG/M3          | CU<br>12114/92<br>UG/M3      | FE<br>12126/92<br>UG/M3      | PB<br>12128/92<br>UG/M3      | MN<br>12132/92<br>UG/M3          | NI<br>12136/92<br>UG/M3          | V<br>12164/92<br>UG/M3       | ZN<br>12167/92<br>UG/M3    |
| FIRST<br>SECGND<br>THIRD<br>FJURTH |                                                                                                  | .80L<br>80L<br>0.0031        | 0.0064<br>0.0035<br>0.0034<br>0.0027 | 0.010<br>0.012<br>0.008<br>0.008 | 0.25<br>0.15<br>0.20<br>0.12 | 1.19<br>1.41<br>1.51<br>0.71 | 1.03<br>0.69<br>0.71<br>0.60 | 0.033<br>0.046<br>0.040<br>0.024 | 0.009<br>0.015<br>0.019<br>0.009 | 0.05<br>0.02<br>0.03<br>0.03 | 0 • 18<br>0 • 23<br>0 • 09 |
| YEAR AVG<br>CJUNT                  |                                                                                                  | 0 • 0001<br>60               | 0-0040                               | 0•009<br>60                      | 0•18<br>60                   | 1•22<br>60                   | 0 <b>.</b> 76<br>60          | 0.036<br>60                      | 0.013<br>60                      | 0-03<br>60                   | 0-17<br>45                 |
|                                    | 8<br>8<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 | \$\$;                        | *⇔- WATER S                          | ornares -≉                       |                              | **                           | ⇔BENZ SCL ↔                  | *                                | ¢− TSP -\$;                      |                              | ******                     |
| QUARTER                            | NITRATE<br>12306/92<br>UG/M3                                                                     | SULFATE<br>12403/92<br>UG/M3 | AMMONIUM<br>12301/91<br>16/M3        | SODIUM<br>12184/92<br>UG/M3      | РН<br>12602/91<br>РН-UNITS   |                              | TOTAL<br>11103/91<br>UG/M3   |                                  | ARITH AV<br>11101/91<br>UG/M3    |                              | APPROX<br>SAMPLE<br>COUNT  |
| FIRST<br>Sécond<br>Third<br>Fourth | 5.04<br>2.06<br>2.11                                                                             | 5.07<br>7.65<br>8.17<br>4.61 | 0.018<br>0.04<br>0.08<br>0.05        | ,                                | 9.60<br>8.50<br>8.80<br>7.80 |                              |                              |                                  | 75<br>72<br>45                   |                              | 155<br>146                 |
| YEAR AVG<br>CUUNT                  | 3 83<br>60                                                                                       | 6°44<br>60                   | 0°09<br>60                           |                                  | 8•69<br>60                   |                              |                              |                                  | 67<br>60                         |                              |                            |
|                            |                             | *****                                  | ZN<br>12167/92<br>UG/M3 | 0.13<br>0.09<br>0.09                 | 0•10<br>44        |   | 00111111111100 | APPRUX<br>SAMPLE<br>COUNT     | 15<br>15<br>14                                                                                   |                     |   |
|----------------------------|-----------------------------|----------------------------------------|-------------------------|--------------------------------------|-------------------|---|----------------|-------------------------------|--------------------------------------------------------------------------------------------------|---------------------|---|
| PAGE 5                     |                             | ······································ | V<br>12164/92<br>UG/M3  | 0.02<br>0.01<br>0.01<br>0.02         | 0°01<br>57        |   | ÷.             | ·                             |                                                                                                  |                     |   |
|                            |                             | *                                      | NI<br>12136/92<br>UG/M3 | 0.005<br>0.003<br>0.005<br>0.005     | 0.004<br>57       |   | a- TSP -a      | ARITH AV<br>11101/91<br>UG/M3 | 5<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | ት ሪ<br>ረ            |   |
| 5/13/1982<br>ITES          | PRUJECT<br>01               |                                        | MN<br>12132/92<br>UG/M3 | 0.017<br>0.013<br>0.015<br>0.015     | 0°014<br>57       |   | ÷              | ·                             |                                                                                                  |                     |   |
| ROTECTION O<br>Erly compos | ITË AGENCY<br>01 F          | ******                                 | PB<br>12128/92<br>UG/M3 | 0.59<br>0.32<br>0.41<br>0.41         | 0.43<br>57        |   | ¢BENZ SOL¢≎    | TDTAL<br>11103/91<br>UG/M3    |                                                                                                  |                     |   |
| NMENTAL P.                 | AREA S<br>0070 C            | METALS ☆                               | FE<br>12126/92<br>UG/M3 | 0.67<br>0.39<br>0.39<br>0.33         | 0•48<br>57        |   | <b>0</b>       |                               |                                                                                                  |                     |   |
| E OF ENVIRG                |                             | 244                                    | CU<br>12114/92<br>UG/M3 | 0°17<br>0°17<br>0°11<br>0°08         | 11°0              |   | *******        | РН<br>12602/91<br>РН-UNITS    | 9.50<br>8.60<br>7.80                                                                             | 8 <b>.</b> 71<br>57 |   |
| DEPARTMENI<br>CUMPLIANCE   | DWN NAME<br>RISTOL          |                                        | CR<br>12112/92<br>UG/M3 | 0.005<br>0.004<br>0.003<br>0.003     | 0 • 004<br>57     |   | oruBrES -⇔     | SUDIUM<br>12184/92<br>UG/M3   | `                                                                                                |                     |   |
| DNNECTICUT<br>AIR          | ҮЕА <b>R T</b> (<br>1980 Bi | *****                                  | CD<br>12110/92<br>UG/M3 | 0.0038<br>0.0026<br>0.0072<br>0.0273 | 0.0102            | • | ⇔- WATER S     | AMMUNIUM<br>12301/91<br>UG/M3 | 0.11<br>8DL<br>0.12<br>0.16                                                                      | 0.10<br>57          |   |
| 3                          |                             | · · · · · · · · · · · · · · · · · · ·  | BE<br>12105/92<br>UG/M3 | 80L<br>80L<br>0.6001<br>80L          | 1000°C            |   | *****          | SULFATE<br>12403/92<br>UG/M3  | 1.90<br>7.39<br>4.70<br>7.51                                                                     | 5 46                |   |
|                            |                             | :                                      | AL<br>12101/92<br>UG/M3 |                                      |                   |   | 外ート・ ート・ ー や   | NITRATE<br>12306/92<br>UG/M3  | 5 - 0<br>0 - 4<br>0 - 4<br>0 - 4<br>0 - 4<br>0 - 4<br>0 - 4<br>0 - 4                             | 3 • 4 6<br>5 7      | t |
|                            |                             | *                                      | QUARTER                 | FIRST<br>SECUND<br>THIRD<br>FOURTH   | YEAR AVG<br>COUNT |   | ÷              | QUARTER.                      | FIRST<br>SECOND<br>THIRD<br>FOURTH                                                               | YEAR AVG<br>Count   |   |

|                                    |                              | ũ                            | UNNECTICUT<br>AIR                    | DEPARTMENI<br>COMPLIANCE               | T' DF ENVIRO<br>E MCNITCRIN  | NMENTAL PI                   | ROTECTION -                  | 05/13/1982<br>SITES                   | -                                       | PAGE 6                       |                           |
|------------------------------------|------------------------------|------------------------------|--------------------------------------|----------------------------------------|------------------------------|------------------------------|------------------------------|---------------------------------------|-----------------------------------------|------------------------------|---------------------------|
|                                    |                              |                              | YEAR TC<br>1980 BL                   | JWN NAME<br>JRLINGTON                  |                              | AREA S<br>0085 CI            | NITE AGENC                   | Y PROJEC<br>03                        |                                         |                              |                           |
| w                                  | 0<br>                        | ₩<br>  +  <br>               | *****                                | ************************************** |                              | METALS *                     | ·*                           | · · · · · · · · · · · · · · · · · · · | · ~ + + + + + + + + + + + + + + + + + + |                              | ***<br>                   |
| u krter                            | AL<br>12101/92<br>UG/M3      | вЕ<br>12105/92<br>UG/M3      | CD<br>12110/92<br>UG/M3              | CR<br>12112/92<br>UG/M3                | CU<br>12114/92<br>UG/M3      | FE<br>12126/92<br>UG/M3      | PB<br>12128/92<br>UG/M3      | MN<br>12132/92<br>UG/M3               | NI<br>12136/92<br>.UG/M3                | v<br>12164792<br>UG/w3       | ZN<br>12167/92<br>UG/M3   |
| FIRST<br>SECOND<br>THIRD<br>FCURTH |                              | 80L<br>80L<br>0.6001<br>80L  | 0.0016<br>0.0011<br>0.0008<br>0.0008 | 0.001<br>0.004<br>0.002<br>0.002       | 0.13<br>0.10<br>0.26<br>0.26 | 0.27<br>0.21<br>0.29<br>0.10 | 0.19<br>0.13<br>0.15<br>0.15 | 0.008<br>0.009<br>0.008<br>0.008      | 0.001<br>0.002<br>0.003<br>0.003        | 0.03<br>0.01<br>0.01<br>0.01 | 0.11<br>0.03<br>0.02      |
| YEAR AVG<br>CCUNT                  |                              | 65<br>1000°C                 | 0°0010                               | 0.002<br>59                            | 0•19<br>59                   | 0•22                         | 0.15<br>59                   | 0•037<br>59                           | 0•002<br>59                             | 0.01                         | 0•05<br>45                |
|                                    |                              | 97                           | ⇔- WATÉR SI                          | 0ruBLES -≎                             | 00<br>                       | *                            | *⇔BêNZ SOL≎                  | *<br>*                                | .⇔- TSP -*                              | 43<br>45                     | 00000<br>                 |
| QUARTER                            | NITRATE<br>12306/92<br>UG/M3 | SULFATE<br>12403/92<br>UG/M3 | AMMONIUM<br>12301/91<br>UG/M3        | SUDIUM<br>12184/92<br>UG/M3            | РН<br>12602/91<br>РН-UNITS   |                              | TDTAL<br>11103/91<br>UG/M3   |                                       | ARITH AV<br>11101/91<br>UG/M3           |                              | APPRCX<br>SAMPLE<br>COUNT |
| FIRST<br>SECOND<br>THIRD<br>FCURTH | 3 59<br>3 20<br>1 30         | 1.34<br>5.70<br>7.85<br>4.15 | 0.08<br>BDL<br>0.11                  |                                        | 9.70<br>8.80<br>9.20<br>8.30 |                              |                              |                                       | 30<br>36<br>18                          |                              | 14<br>15<br>16            |
| YEAR AVG<br>COUNT                  | 2°21<br>59                   | 4°&8<br>59                   | 0-06<br>59                           |                                        | 9°00<br>59                   |                              |                              | -<br>-<br>-                           | 30<br>59                                |                              |                           |
|                                    |                              |                              |                                      |                                        |                              |                              |                              |                                       |                                         |                              |                           |

|                                    |                                        | ū                                      | DNNECTICUT<br>AIR                                                 | DEPARTMENI                               | T OF ENVIRUE<br>MONITCRIN                                          | NMENTAL PF<br>G CUARTE       | SOTECTICN (<br>ERLY COMPOS           | 05/13/1982<br>SITES              | -                                    | PAGE 7                                                   |                                                                      |
|------------------------------------|----------------------------------------|----------------------------------------|-------------------------------------------------------------------|------------------------------------------|--------------------------------------------------------------------|------------------------------|--------------------------------------|----------------------------------|--------------------------------------|----------------------------------------------------------|----------------------------------------------------------------------|
|                                    |                                        |                                        | YEAR TÜ<br>1980 DA                                                | JWN NAME<br>ANBURY                       |                                                                    | AREA SI<br>0175 12           | ITE AGENCY<br>23 F                   | r PROJECI<br>01                  | L                                    |                                                          |                                                                      |
|                                    | ************************************** | ······································ | 000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>00 | ······································   | 外部 未来自己的 医子宫部                                                      | METALS #1                    |                                      | . <del>(</del> )                 |                                      | 45<br> <br> | 0000<br>0000<br>0000<br>0000<br>0000<br>0000<br>0000<br>0000<br>0000 |
| JUARTER                            | AL<br>12101/92<br>. UG/M3              | BE<br>12105/92<br>UG/M3                | CD<br>12110/92<br>UG/M3                                           | CR<br>12112/92<br>UG/M3                  | CU<br>12114/92<br>UG/M3                                            | FE<br>12126/92<br>UG/M3      | PB<br>12128/92<br>UG/M3              | MN<br>12132/92<br>UG/MJ          | NI<br>12136/92<br>UG/M3              | V<br>12164/92<br>UG/M3                                   | ZN<br>12167/92<br>UG/M3                                              |
| FIRST<br>SECGND<br>THIRD<br>FOURTH |                                        | 30L<br>80L<br>0.0001<br>80L            | 0.0014<br>0.0013<br>0.0009<br>0.0010                              | 0 • 003<br>0 • 005<br>0 • 003<br>0 • 003 | 0.13<br>0.26<br>0.77<br>0.31                                       | 1.01<br>0.64<br>0.67<br>0.67 | 0 • 62<br>0 • 31<br>0 • 49<br>0 • 65 | 0.027<br>0.017<br>0.015<br>0.018 | 0.002<br>0.004<br>0.007<br>0.008     | 0 • 0 2<br>0 • 0 1<br>0 • 0 2<br>0 • 0 3                 | 0 • 14<br>0 • 04<br>• 06                                             |
| rear avg<br>Count                  |                                        | 0.0001<br>58                           | 0.0011<br>58                                                      | 0.003<br>58                              | 0.37<br>58                                                         | 0.e78<br>58                  | 0 • 5 2<br>5 8 ·                     | 0°019<br>58                      | 0•005<br>58                          | 0-02<br>58                                               | 0<br>• C<br>4 3                                                      |
|                                    | ;<br>                                  |                                        | ₩ATER SO                                                          | orubles -≎                               | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1) | *                            | ⇔BENZ SCL≎                           | ÷                                | ¢+ TSP +≎                            | с                                                        | 00<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>0<br>0                      |
| <b>"UARTER</b>                     | NITRATE<br>12306/92<br>UG/M3           | SULFATE<br>12403/92<br>UG/M3           | AMMONIUM<br>12301/91<br>UG/M3                                     | SODIUM<br>12184/92<br>UG/M3              | РН<br>12602/91<br>РН-UNITS                                         |                              | TCTAL<br>11103/91<br>UG/M3           |                                  | ARITH AV<br>11101/91<br>UG/M3        |                                                          | APPRUX<br>Sample<br>Count                                            |
| FIRST<br>SECOND<br>THIRD<br>FJURTH | 3.26<br>3.91<br>1.54<br>2.51           | 2.32<br>5.72<br>10.60<br>4.77          | 0.11<br>0.04<br>0.17<br>0.15                                      |                                          | 9 - 70<br>8 - 80<br>8 - 80<br>8 - 80<br>8 - 80                     |                              |                                      |                                  | 8<br>2<br>1<br>4<br>1<br>1<br>,<br>1 |                                                          | 15<br>13<br>15                                                       |
| YEAR AVG<br>COUNT                  | 2.77<br>5.8                            | 5 • 8 6<br>5 8                         | 0•12<br>58                                                        |                                          | 8<br>53<br>53                                                      |                              |                                      |                                  |                                      |                                                          |                                                                      |
|                                    |                                        |                                        |                                                                   |                                          |                                                                    |                              |                                      |                                  |                                      |                                                          |                                                                      |

|                           | •                  | **<br> <br> | ZN<br>12167792<br>· UG7M3 | 0.13<br>0.05<br>0.19                 | 0。12<br>44        | 00<br>00<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>0<br>0 | APPRCX<br>SAMPLE<br>COUNT     | 15<br>16<br>16<br>16               |                   |
|---------------------------|--------------------|--------------------------------------------------------------------|---------------------------|--------------------------------------|-------------------|-----------------------------------------------------------------|-------------------------------|------------------------------------|-------------------|
| PAGE 8                    |                    | 4<br>                                                              | v<br>12164/92<br>UG/M3    | 0°07<br>0°01<br>0°02<br>0°03<br>0°03 | ,<br>0•03<br>59   | *                                                               |                               |                                    |                   |
|                           | F                  | 0<br> <br>            | NI<br>12136/92<br>UG/M3   | 0-003<br>0-006<br>0-005<br>0-005     | 0•005<br>59       | . tsp.≁.<br>*- tsp.≁.                                           | ARITH AV<br>11101/91<br>UG/M3 | 10m4                               | 54<br>1           |
| 05/13/1982<br>SITES       | r PROJEC           |                                                                    | MN<br>12132/92<br>UG/M3   | 0.013<br>0.012<br>0.012<br>0.012     | 0.012<br>59       | ¥                                                               |                               |                                    |                   |
| ROTECTION (<br>ERLY COMPO | ITE AGENCY<br>23 F | **************************************                             | PB<br>12128/92<br>UG/M3   | 0.46<br>0.29<br>0.36<br>48           | 0•40<br>59        | *BENZ SOL⇔≮                                                     | TUTAL<br>11103/91<br>UG/M3    |                                    |                   |
| NMENTAL PI                | AREA 5<br>0250 1   | * METALS **                                                        | FE<br>12126/92<br>UG/M3   | 0 • 44<br>0 • 44<br>0 • 45<br>0 • 25 | 0•40<br>53        | ŏ                                                               |                               |                                    |                   |
| E OF ENVIR                |                    |                                                                    | CU<br>12114/92<br>UG/M3   | 0.33<br>0.31<br>0.21<br>0.16         | 0 • 25<br>59      |                                                                 | РН<br>12602/91<br>РН-UNITS    | 9.50<br>9.30<br>9.40<br>7.90       | 9• 05<br>59       |
| DEPARTMEN<br>COMPLIANCI   | DWN NAME<br>Vfield |                                                                    | CR<br>12112/92<br>UG/M3   | 0.003<br>0.003<br>0.004<br>0.004     | 0.004<br>59       | JLUBLES -*:                                                     | SUDIUM<br>12184/92<br>UG/M3   | ,                                  |                   |
| DNNECT ICUT<br>AIR        | YEAR T(<br>1980 EI | 8<br> <br> <br> <br> <br> <br> <br> <br> <br> <br>                 | CD<br>12110/92<br>UG/M3   | 0.0015<br>0.0031<br>0.0008<br>0.0013 | 0•0016<br>59      | ¢- WATER SI                                                     | AMMONIUM<br>12301/91<br>UG/M3 | 0.08<br>0.01<br>0.16<br>0.10       | 0•09<br>59        |
| Ū                         |                    | ₩<br>                                                              | 3E.<br>12105/92<br>UG/M3  | 20L<br>20L<br>0.0001<br>80L          | 0.0001<br>59      | **<br>                                                          | SULFATE<br>12403/92<br>UG/M3  | 2.65<br>2.60<br>3.76<br>2.70       | 4•31<br>59        |
|                           |                    | *<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                | AL<br>12101/92<br>UG/M3   |                                      |                   | 33<br>                                                          | NITRATE<br>12306/92<br>UG/M3  |                                    | 2<br>50<br>50     |
|                           |                    | ÷                                                                  | GUARTER                   | FIRST<br>SECOND<br>THIRD<br>FUURTH   | YEAR AVG<br>CJUNT | *                                                               | UARTER.                       | FIRST<br>SECOND<br>THIRD<br>FUURTH | YEAR AVG<br>COUNT |

|                            |                      | **<br>**<br>• • • • • • • • * | 2N<br>12167792<br>UG/M3  | 0 • 0 4<br>0 • 0 5<br>0 • 6 5        | 0 • ()6<br>46     | **<br>**<br>                                                      | APPROX<br>SAMPLE<br>COUNT       | 1 T T T T T T T T T T T T T T T T T T T                                                                 |                   |
|----------------------------|----------------------|-------------------------------|--------------------------|--------------------------------------|-------------------|-------------------------------------------------------------------|---------------------------------|---------------------------------------------------------------------------------------------------------|-------------------|
| PAGE 9                     |                      | \$\$;                         | V .<br>12164/92<br>UG/M3 | 0.03<br>0.01<br>0.02<br>0.02         | 0• 02<br>60       | *<br>*                                                            |                                 |                                                                                                         |                   |
| ĸ                          |                      | \$<br>                        | NI<br>1 2135/92<br>UG/M3 | 0.003<br>0.003<br>0.007<br>0.007     | 0•005<br>60       | <br>*- TSP -                                                      | ARITH AV<br>11101/91<br>UG/M3   | м 4<br>2<br>9<br>2<br>2<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | 4 ð<br>0 0        |
| 5/13/1982<br>ITES          | PROJECT<br>01        |                               | MN<br>12132/92<br>UG/M3  | 0.013<br>0.012<br>0.016<br>0.0016    | 0•012<br>60       | *                                                                 | -                               |                                                                                                         | •                 |
| ROTECTICN O<br>ERLY COMPOS | ITE AGENCY<br>04 F   | なな ・ ・ ・ ・ ・ ・ ・ や            | PB<br>12128/92<br>UG/M3  | 0.28<br>0.22<br>0.31<br>0.21         | 0•26<br>60        | ⇔8€NZ SOL¢≎                                                       | TOTAL<br>11103/91<br>UG/M3      |                                                                                                         |                   |
| INMENTAL P<br>IG QUART     | AREA 5<br>0330 0     | MET'ALS *                     | FE<br>12126/92<br>UG/M3  | 0.33<br>0.31<br>0.60<br>0.22         | 0•38<br>60        |                                                                   |                                 |                                                                                                         |                   |
| T OF ENVIRC<br>E MONITCRIN |                      | 17日<br>                       | CU<br>12114/92<br>UG/M3  | 0.24<br>0.07<br>0.15<br>0.21         | 0•17<br>60        |                                                                   | РН<br>12602/91<br>РН-UNITS      | 9.50<br>9.30<br>9.30<br>9.00                                                                            | 9.27<br>50        |
| DEPARTMEN<br>COMPLIANC     | OWN NAME<br>Reenwich | ****                          | CR<br>12112/92<br>UG/M3  | 0.002<br>0.004<br>0.004<br>0.004     | 0.003<br>60       | ornares -*                                                        | SJDIUM<br>12184/92<br>UG/M3     | •                                                                                                       |                   |
| DNNECTICUT<br>AIR          | YEAR TI<br>1980 GI   |                               | CD<br>12110/92<br>UG/M3  | 0.0017<br>0.0014<br>0.0009<br>0.0009 | 0•0012<br>60      | °- WATER S                                                        | AMMUNIUM<br>12301/91<br>' UG/M3 | 0.05<br>0.05<br>0.12<br>0.07                                                                            | 0•07<br>60        |
| 3                          |                      | ***                           | BE<br>12105/92<br>UG/M3  | 80L<br>80L<br>0.0001<br>80L          | 0 • 000 1<br>60   | *<br> <br> | SULFATE<br>12403/92<br>UG/M3    | 2.98<br>6.71<br>6.11<br>2.59                                                                            | 4.67<br>00        |
|                            |                      | ¥∲                            | AL<br>12101/92<br>.UG/M3 |                                      |                   | 0<br>                                                             | NITRATE<br>123U6/92<br>UG/M3    | .3.89<br>3.34<br>0.67                                                                                   | 2.65<br>60.       |
|                            |                      | ÷                             | JUARTER                  | FIRST<br>SECOND<br>THIRD<br>FUURTH   | YEAR AVG<br>COUNT | ,<br>,                                                            | QUARTER                         | FIRST<br>SECOND<br>THIRD<br>FOURTH                                                                      | YEAR AVG<br>CUUNT |

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|                          |                      | ***        | ZN<br>12167/92<br>UG/M3  | 0 • 10<br>0 • 07<br>0 • 05           | 0.08<br>44         |                                                                                             | APPROX<br>SAMPLE<br>COUNT     | 12<br>12<br>13                                           |                   |
|--------------------------|----------------------|------------|--------------------------|--------------------------------------|--------------------|---------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------------------------|-------------------|
| PAGE 10                  |                      | *****      | V<br>12164/92<br>UG/M3   | 0.02<br>0.01<br>0.02<br>0.03         | 0.02<br>58         | ŏ                                                                                           |                               |                                                          |                   |
|                          | Ť                    | *******    | NI<br>1 2136/92<br>UG/M3 | 0.004<br>0.004<br>0.008<br>0.008     | 0.006<br>58        | * - TSP<br>* -                                                                              | ARITH AV<br>11101/91<br>UG/M3 | 5<br>5<br>7<br>8<br>7<br>7<br>8<br>7<br>7<br>8<br>7<br>1 | 57<br>58          |
| 05/13/1982<br>SITES      | Y PROJEC             | *          | MN<br>12132/92<br>UG/M3  | 0.017<br>0.016<br>0.020<br>0.020     | 0.017<br>58        | *                                                                                           |                               |                                                          |                   |
| RUTECTION (              | ITE AGENC'<br>38 F   | **         | PB<br>12128/92<br>UG/M3  | 0.55<br>0.55<br>0.57<br>0.57         | 0•51<br>58         | ¢₿ÊNZ SOL⇔                                                                                  | TCTAL<br>11103/91<br>UG/M3    |                                                          |                   |
| CNMENTAL PI              | AREA S.<br>0330 CC   | × METALS ☆ | FE<br>12126/92<br>UG/M3  | 0.89<br>0.72<br>1.06<br>0.54         | 0. 80<br>58        | ä                                                                                           |                               |                                                          |                   |
| T'OF ENVIR<br>E MONITCRI |                      | *****      | CU<br>12114/92<br>UG/M3  | 0•13<br>0•16<br>0•23<br>0•14         | 0 <b>.17</b><br>58 | +<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+ | РН<br>12602/91<br>РН-UNITS    | 9.60<br>9.20<br>8.80<br>8.80                             | 9°22<br>58        |
| DEPARTMEN<br>COMPLIANC   | DWN NAME<br>Reenwich | ⊹<br>      | CR<br>12112/92<br>UG/M3  | 0.002<br>0.005<br>0.005<br>0.004     | 0.003<br>58        | aru₿LES -≎                                                                                  | SUDIUM<br>12184/92<br>UG/M3   | `                                                        |                   |
| ONNECTICUT<br>AIR        | Y EAR T<br>1 980 G   | *          | CD<br>12110/92<br>UG/M3  | 0.0017<br>0.0014<br>0.0011<br>0.0001 | 0.0013<br>58       | ⇔- WATÊR S                                                                                  | MUINCMMA<br>12301/91<br>UG/M3 | 0.02                                                     | 0 • 0 8<br>5 8    |
| J                        |                      | *          | ыЕ<br>12105/92<br>UG/M3  |                                      | 0.0001.<br>58      |                                                                                             | SULFATE<br>12403/92<br>UG/M3  | 2.43<br>5.79<br>9.33<br>3.91                             | 5 • 4 1<br>5 8    |
|                          |                      | ₩ .<br>    | AL<br>12101/92<br>UG/M3  |                                      |                    |                                                                                             | NITRATE<br>12306/92<br>UG/M3  | 2 • 85<br>4 • 83<br>2 • 72<br>2 • 57<br>2 • 57           | 3°22<br>58        |
|                          |                      | *          | QUARTER                  | FLRST<br>SECOND<br>THIRD<br>FJURTH   | YEAR AVG<br>COUNT  | ,<br>,45                                                                                    | ⊊UARTER.                      | FIRST<br>SECOND<br>THIRD<br>FOURTH                       | YEAK AVG<br>COUNT |

|                           |                      | 00<br>00<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>0 | 2N<br>12167/92<br>UG/M3 | 0.15<br>0.06                       | 0.11<br>18        | 00<br>00<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>0<br>0              | APPROX<br>SAMPLE<br>COUNT        | 11<br>7                            |                   |
|---------------------------|----------------------|----------------------------------------------------------------------|-------------------------|------------------------------------|-------------------|-------------------------------------------------------------------------|----------------------------------|------------------------------------|-------------------|
| PAGE 11                   |                      | ↔<br> <br> <br> <br> <br> <br> <br> <br> <br>                        | v<br>12164792<br>UG/M3  | 0•01<br>0•02                       | 0°01<br>18        |                                                                         |                                  |                                    |                   |
|                           | L                    |                                                                      | NI<br>12136/92<br>UG/M3 | 0.006<br>0.010                     | 0.008             | ⇔- TSP                                                                  | ARITH AV<br>11101/91<br>UG/M3    | 59<br>65                           | 61<br>18          |
| 15/13/1982<br>51TE S      | PRJJEC               |                                                                      | MN<br>12132/92<br>UG/M3 | 0.015<br>0.014                     | 0°015<br>18       | *                                                                       |                                  |                                    |                   |
| CTECTION C                | LTE AGENCY           |                                                                      | PB<br>12128/92<br>UG/M3 | 0 • 34<br>0 • 43                   | 0.37<br>18        | ¢BENZ SOL≎                                                              | T0TAL<br>11103/91<br>UG/M3       |                                    |                   |
| JNMENTAL' PH<br>VG QUARTE | AREA SI<br>0330 CI   | ⇔ METALS                                                             | FE<br>12126/32<br>UG/#3 | 0-62<br>0-59                       | 0¢61<br>18        | *                                                                       |                                  |                                    |                   |
| T OF ENVIRGE MONITCRIN    |                      |                                                                      | CU<br>12114/92<br>UG/M3 | 0. 20<br>0 33                      | 0•46<br>18        | ☆<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓ | РН<br>12602/91<br>РН-UNITS       | ,<br>9°30<br>9°60                  | 9.42<br>18        |
| DEPARTMEN<br>COMPLIANCI   | OWN NAME<br>Reenwich |                                                                      | CR<br>12112/92<br>UG/M3 | 0.007<br>0.002                     | 0.005<br>18       | מרטטרבS −≎                                                              | SODIUM<br>12184/92<br>UG/M3      | •                                  |                   |
| NNECTICUT<br>AIR          | YEAR TI<br>1980 GI   | 4<br>     <br>   <br>   <br>   <br>   <br>   <br>                    | CD<br>12110/92<br>UG/M3 | 0.0017                             | 0.0015<br>18      | ∵⇔- WATER S                                                             | AMMUNUMMA<br>• 12301/91<br>UG/M3 | 0.03<br>0.05                       | 0 • 04<br>18      |
| Ū                         |                      | 0<br>                                                                | BE<br>12105/92<br>UG/M3 | 80L<br>0.0001                      | 0.0001<br>18      | ₩<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+                          | SULFATE<br>12403/92<br>UG/M3     | 3°73                               | 6•13<br>18        |
|                           |                      |                                                                      | ыс<br>12101/92<br>ис/мз |                                    |                   | ₩<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>0                     | NITRATE<br>12306/92<br>UG/M3     | 4                                  | 3 64<br>18        |
|                           |                      | ÷                                                                    | ,<br>DARTER             | FIRST<br>SECOND<br>THIRD<br>FUURTH | YEAR AVG<br>CJUNT |                                                                         | QUARTER                          | FIRST<br>Sécond<br>Third<br>Fuurth | YEAR AVG<br>COUNT |

|                          |                    | 000                                                                                              | 2N<br>12167/92<br>UG/M3  | 0 • 05<br>0 • 02<br>0 • 05               | 0 • C 4<br>4 5    |   |             | APPRCX<br>SAMPLE<br>COUNT      | 15<br>15<br>15<br>15               |                    |
|--------------------------|--------------------|--------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------|-------------------|---|-------------|--------------------------------|------------------------------------|--------------------|
| PAGE 12                  | 1                  | 0<br> <br>  | V<br>12164/92<br>UG/M3   | 0.01<br>0.01<br>0.01<br>0.03             | 0•01<br>60        | • |             |                                |                                    |                    |
| · .                      |                    | 47<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                                       | NI<br>1,2136/92<br>UG/M3 | 0.003<br>0.003<br>0.003<br>0.003         | 0•004<br>60       |   | 10- +b      | ARITH AV<br>11101/91<br>UG/M3  | 2 2 4 1<br>2 4 1<br>2 6            | 35<br>60           |
| 5/13/1982<br>1TES        | PROJECT<br>02      | ***                                                                                              | MN<br>12132/92<br>UG/M3  | 0.010<br>0.008<br>0.009<br>0.006         | 0.008<br>60       | 4 |             | -                              |                                    |                    |
| RUTECTION O              | LTE AGENCY<br>32 F | 44<br>44<br>1                                                                                    | PB<br>12128/92<br>UG/M3  | 0.22<br>0.19<br>0.22<br>0.22             | 0.21<br>60        |   | ⇔BENZ SUL≉: | TCTAL<br>11103/91<br>UG/M3     |                                    |                    |
| NMENTAL PR               | AREA S             | - METALS ☆                                                                                       | FE<br>12126/92<br>UG/M3  | 0.28<br>0.15<br>0.34<br>0.15             | 0.23<br>60        |   | *           |                                |                                    |                    |
| OF ENVIRC<br>MONITCRIN   |                    |                                                                                                  | CU<br>12114/92<br>UG/M3  | 0•07<br>0•18<br>0•29<br>0•18             | 0•19<br>60        |   | *           | РН<br>12602/91<br>РН-UNITS     | 9.70<br>9.50<br>8.00               | 9•17<br>60         |
| C BARTMENT<br>COMPLIANCE | WN NAME<br>DDAM    |                                                                                                  | CR<br>12112/92<br>UG/M3  | 0 • 002<br>0 • 003<br>0 • 003<br>0 • 003 | 0•002<br>60       |   | orus∟es ~≈  | 5001UM<br>12134/92<br>UG/M3    |                                    |                    |
| NNEC-TICUT<br>AIR        | УЕАК ТО<br>1980 на | 00<br>00<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                       | CD<br>12110/92<br>UG/M3  | 0.0004<br>0.0007<br>0.0007<br>0.0007     | 0°0008<br>60      |   | - WATER S   | AMMUNIUM<br>-12301/91<br>UG/M3 | 0.03<br>801<br>0.11                | 0•07<br>60         |
| 00                       |                    | 分<br>分<br>十<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 8E<br>121C5/92<br>UG/M3  | 80L<br>80L<br>80L<br>80L                 | 0.0001<br>60      |   |             | SULFATE<br>12403/92<br>UG/M3   | 1.65<br>5.74<br>3.68<br>3.68       | 4.6<br>5<br>0<br>0 |
|                          |                    | ••<br>                                                                                           | AL<br>12101/92<br>UG/M3  |                                          |                   |   | *****       | NITRATE<br>12306/92<br>UG/M3   | 2°73<br>3°53<br>1°46<br>0°71       | 2 - 23             |
|                          |                    | 00<br>43                                                                                         | GUARTER                  | FIRST<br>SECUND<br>THIRD<br>FOURTH       | YEAR AVG<br>CJUNT |   |             | QUARTER                        | FIRST<br>SECOND<br>THIRD<br>FOURTH | YEAR AVG<br>COUNT  |

|                                    |                                                     | U                                                                                           | DNNECTICUT<br>AIR<br>YEAR T                    | DEPARTMEN<br>CUMPLIANC<br>DWN NAME        | I OF ENVIRC<br>E MONITCRIV                                                                   | DNMENTAL PI<br>VG QUARTI<br>AREA S | RDTECTICN (<br>ERLY COMPC:<br>TTE AGENCY | 05/13/1982<br>SITES<br>Y PROJEC  | -                                | PAGE 13                                              |                           |
|------------------------------------|-----------------------------------------------------|---------------------------------------------------------------------------------------------|------------------------------------------------|-------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------|------------------------------------------|----------------------------------|----------------------------------|------------------------------------------------------|---------------------------|
| 0                                  | +<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+ | 00<br>                                                                                      |                                                |                                           | 00<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 0420 CO                            | 03 F                                     | 01                               | **<br>                           | **<br>**<br> <br> <br> <br> <br> <br> <br> <br> <br> |                           |
| UARTER                             | AL<br>12101/92<br>UG/M3                             | BE<br>12105/92<br>UG/M3.                                                                    | CD<br>12110/92<br>UG/M3                        | CR<br>12112/92<br>UG/M3                   | CU<br>12114/92<br>UG/M3                                                                      | FE<br>12126/92<br>UG/M3            | PB<br>12128/92<br>UG/M3                  | MN<br>12132/92<br>UG/M3          | NI<br>12136/92<br>UG/M3          | v<br>12164792<br>UG/M3                               | ZN<br>12167/92<br>UG/M3   |
| FIRST<br>SECOND<br>THIRD<br>FOURTH | ·                                                   | 80L<br>80L<br>80L<br>80L                                                                    | 0.0017<br>0.0016<br>0.0018<br>0.0018<br>0.0024 | 0.004<br>0.003<br>0.003<br>0.005<br>0.005 | 0.23<br>0.18<br>0.24<br>0.16                                                                 | 0.82<br>0.69<br>0.92<br>0.57       | 0.15<br>0.51<br>0.60<br>0.67             | 0.018<br>0.017<br>0.021<br>0.021 | 0.005<br>0.005<br>0.008<br>0.012 | 0.05<br>0.01<br>0.02<br>0.05                         | 0.07<br>0.09<br>0.12      |
| EAR AVG<br>COUNT                   |                                                     | u•0001<br>60                                                                                | 0.0019                                         | 0•004<br>60                               | 0•20                                                                                         | 0•76<br>60                         | 0•48<br>60                               | 0.018<br>60                      | 0•007<br>60                      | 0•03<br>60                                           | 0.09<br>45                |
| *                                  | ₩<br>                                               | **<br> <br> | ¢- WATER S                                     | orveles -*                                | ☆☆                                                                                           | ÷                                  | ¢8ENZ SOL¢                               | ů<br>a                           | ¢- TSP ≁⇔                        | ŏ                                                    | ↔<br>↓<br>↓<br>↓<br>↓     |
| UARTER                             | NITRATE<br>12306/92<br>UG/M3                        | SULFATE<br>12403/92<br>UG/M3                                                                | AMMONIUM<br>12301/91<br>UG/M3                  | 5001UM<br>12134/92<br>UG/M3               | РН<br>12662/91<br>РН-UNITS                                                                   |                                    | TDTAL<br>11103/91<br>UG/M3               |                                  | ARITH AV<br>11101/91<br>UG/M3    |                                                      | APPRCX<br>SAPPLE<br>COUNT |
| FIRST<br>SECOND<br>THIRD<br>FJURTH | . 2 • 3 2<br>5 • 1 3<br>3 • 0 3<br>1 • 5 7          | 2°75<br>4°08<br>10°20<br>4°80                                                               | 0.08<br>0.01<br>0.19<br>0.07                   |                                           | 9.50<br>9.40<br>8.20                                                                         |                                    |                                          |                                  | 504<br>501<br>01                 |                                                      | 155<br>155<br>14          |
| EAR AVG<br>CJUNT                   | 3 <b>-</b> 04<br>60                                 | 5<br>• 5<br>0<br>0                                                                          | 0°09<br>60                                     |                                           | 9 <b>.</b> 14<br>60                                                                          |                                    |                                          |                                  | 60<br>60                         |                                                      |                           |

|                          |                     | 000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>00 | ZN<br>12167/92<br>UG/M3 | 0 • 0 3<br>0 • 0 3<br>0 • 0 6        | 0.07<br>42        | 0<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>0<br>0                                               | APPRCX<br>SAMPLE<br>CCUNT     | 15<br>15<br>12                         |                     |
|--------------------------|---------------------|-------------------------------------------------------------------|-------------------------|--------------------------------------|-------------------|---------------------------------------------------------------------------------------------------|-------------------------------|----------------------------------------|---------------------|
| PAGE 14                  |                     | *<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-                         | v<br>12164/92<br>UG/M3  | 0°02<br>0°02<br>0°02<br>0°04         | 0.03<br>57        | й<br>-                                                                                            |                               |                                        |                     |
|                          |                     | 80 F F F F F F F F F F                                            | NI<br>12136/92<br>UG/M3 | 0.005<br>0.005<br>0.007<br>0.011     | 0.007<br>57       | *- TSP -*                                                                                         | ARITH AV<br>11101/91<br>UG/M3 | 00<br>00<br>00<br>00<br>00<br>00<br>00 | 60<br>57            |
| 5/13/1982<br>ITES        | PROJECT<br>01       | **<br>                                                            | MN<br>12132/92<br>UG/M3 | 0.020<br>0.019<br>0.018<br>0.012     | 0.018<br>57       | •                                                                                                 |                               |                                        | . **                |
| RALY COMPOS              | ITE AGENCY<br>23 F  | 44<br>44<br>1                                                     | PB<br>12128/92<br>UG/M3 | 0.56<br>0.50<br>0.55<br>0.55         | 0.56<br>57        | ⇔₽€NZ SOL⇔                                                                                        | TOTAL<br>11103/91<br>UG/M3    |                                        |                     |
| NMENTAL PI               | AREA 5<br>0420 1    | * METALS *                                                        | FE<br>12126/92<br>UG/M3 | 0.73<br>0.74<br>0.83<br>0.57         | 0.73<br>57        | 9<br>9                                                                                            |                               |                                        |                     |
| TOF ENVIRCE<br>MONITCRIM |                     |                                                                   | CU<br>12114/92<br>UG/M3 | 0.17<br>0.19<br>0.16<br>0.07         | 0•15<br>57        | 公<br> <br>   | РН<br>12602/91<br>РН-UNITS    | 9. 50<br>9. 60<br>9. 20<br>8. 70       | 9.28<br>57          |
| DEPARTMENT<br>CUMPLIANCE | DWN NAME<br>ARTFORD |                                                                   | CR<br>12112/92<br>UG/M3 | 0.004<br>0.004<br>0.005<br>0.005     | 0.005<br>57       | oruares -≎                                                                                        | SODIUM<br>12184/92<br>UG/M3   | `                                      |                     |
| NNECTICUT<br>AIR         | YEAR TC<br>1980 HA  |                                                                   | CD<br>12110/92<br>UG/M3 | 0.0015<br>0.0013<br>0.0014<br>0.0033 | 0.0018<br>57      | ⇔+ WATER S                                                                                        | AMMUNIUM<br>12301/91<br>UG/M3 | 0•16<br>ëDL<br>0•19<br>0•15            | 0.12<br>57          |
| 00                       |                     |                                                                   | аЕ<br>12105/92<br>UG/M3 | BDL<br>BDL<br>0.0001<br>BDL          | 0.0001<br>57      | 80<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | SULFATE<br>12403/92<br>UG/M3  | 3.37<br>3.97<br>7.90<br>4.61           | 4 <b>.</b> 98<br>57 |
|                          |                     | 000                                                               | AL<br>12101/92<br>UG/M3 |                                      |                   | ()<br>                                                                                            | NITRATE<br>12306/92<br>UG/M3  | 6.43<br>4.00<br>1.72<br>1.73           | 3 • 5 7<br>5 7      |
|                          |                     | 43                                                                | ūU AR T ER              | FIRST<br>SECOND<br>THIRD<br>FUURTH   | YEAR AVG<br>COUNT | · *<br>·                                                                                          | GUARTER                       | FIRST<br>SECOND<br>THIRD<br>FOURTH     | YEAR AVG<br>COUNT   |

| CUNN<br>FE<br>FE<br>FE<br>FE<br>FE<br>FE<br>FE<br>FE<br>FE<br>FE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| CUNNECTICUT DEPAR<br>AIR COMPI<br>YEAR TOWN NU<br>YEAR TOWN NU<br>1980 LTCH C<br>15/92 12110/92 1211.<br>M3 UG/M3 UG/M3 UG/<br>M3 UG/M3 UG/M3 UG/<br>M001 0.0008 BI<br>001 0.0008 0.<br>1001 0.0008 0.<br>1211.<br>M3 UG/M3 UG/M3 UG/M3<br>M3 UG/M3 UG/M3 UG/M3<br>M3 UG/M3 UG/M3 UG/M3<br>M6/ 0.128<br>M3 UG/M3 UG/M3 UG/M3<br>M6/ 0.128<br>M6/ 0.1 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

| PAGE                         |                      |
|------------------------------|----------------------|
| MENTAL PROTECTION 05/13/1982 | QUARTERLY COMPOSITES |
| OF ENVIRON                   | MONITCRING           |
| <b>CEPARTMENT</b>            | COMPL I ANCE         |
| CONNECTICUT                  | AIR                  |

| PROJECT<br>01           |
|-------------------------|
| AGENCY<br>F             |
| SITE<br>COL             |
| AREA<br>0510            |
| TOWN NAME<br>MANCHESTER |
| Y E A R<br>1980         |

| 57                                 | ***                          | *******                                                                                               |                                      | ***                              | **                                    | ≈ METALS ⇔                   | **                           | *******                          |                                  | ↔<br>- + + +                 | *****                     |
|------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------|---------------------------------------|------------------------------|------------------------------|----------------------------------|----------------------------------|------------------------------|---------------------------|
| JUARTER                            | AL<br>12101/92<br>UG/M3      | BE<br>12105/92<br>UG/M3                                                                               | .CD<br>12110/92<br>UG/M3             | CR<br>12112/92<br>UG/M3          | CU<br>12114/92<br>UG/M3               | FE<br>12126/92<br>UG/M3      | PB<br>12128/92<br>UG/M3      | MN<br>12132/92<br>UG/M3          | NI<br>NI<br>N2136/92<br>UG/M3    | V<br>12164/92<br>UG/43       | 2N<br>12167/92<br>UG/M3   |
| FIRST<br>SÉCOND<br>THIRD<br>FOURTH |                              | . 80L<br>80L<br>80L<br>80L                                                                            | 0.0010<br>0.0010<br>0.0010<br>0.0010 | 0.001<br>0.002<br>0.004<br>0.004 | 0.11<br>0.09<br>0.12<br>0.07          | 0.35<br>0.29<br>0.28<br>0.28 | 0.39<br>0.30<br>0.39<br>0.42 | 0•010<br>0•010<br>0•013<br>0•003 | 0.003<br>0.004<br>0.006<br>0.006 | 0.02<br>0.01<br>0.02<br>0.02 | 0.07<br>0.05<br>0.05      |
| KEAR AVG<br>CJUNT                  |                              | 0.0001<br>59                                                                                          | 0•0010                               | 0•003<br>59                      | 0 • 1·0<br>59                         | 0°35<br>59                   | 0.37<br>59                   | 0.011<br>59                      | 0.005                            | 0-02<br>59                   | 0<br>• C<br>• C           |
| Ň                                  | ↔<br>                        | ** * * * * * * * * *                                                                                  | **- WATER SI                         | OLUBLES -*                       | · · · · · · · · · · · · · · · · · · · | ÷                            | ¢BENZ SOL¢:                  | *                                | ⇔- TSP -≎                        | *<br>*                       | *******                   |
| JUARTER                            | NITRATE<br>12306/92<br>UG/M3 | SULFATE<br>12403/92<br>UG/M3                                                                          | AMMONIUM<br>12301/91<br>06/M3        | SODIUM<br>12184/92<br>UG/M3      | РН<br>12602/91<br>РН-UNITS            |                              | T0FAL<br>11103/91<br>UG/M3   |                                  | ARITH AV<br>11101/91<br>UG/M3    |                              | APPRCX<br>SAMPLE<br>COUNT |
| FIRST<br>SECOND<br>THIRD<br>FUURTH | 2。57<br>2。73<br>1。66<br>2。08 | и<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9      | 0°08<br>0°01<br>0°12<br>0°19         | x                                | 9.80<br>9.60<br>8.90<br>8.50          |                              |                              |                                  | 0.446<br>0.000                   |                              | 15<br>16                  |
| YEAR AVG<br>Count                  | 2 • 25<br>59                 | ν<br>5<br>5<br>4<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 0•10<br>59                           |                                  | 9 • 20<br>59                          |                              |                              |                                  | 41<br>59                         | ·                            |                           |

Table 10, Continued

YEAR AVG Count

|                                    |                                                     | ũ                                                                                                | UNNECTICUT<br>AIR                    | JËPARTMENI<br>COMPLIANCE         | COF ENVIRO<br>MONITCRIN      | NMENTAL PI                   | ROTECTIÓN<br>ERLY COMPO                                                                         | 05/13/1982<br>SITES              |                                  | PAGE 17                               |                                                                                             |
|------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------|------------------------------|------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------|
|                                    |                                                     |                                                                                                  | YEAR T(<br>1980 MI                   | OWN NAME<br>Eriden               |                              | ARÉA S<br>0540 0             | ITE AGENC<br>02 F                                                                               | Y PROJECT<br>01                  | L                                |                                       |                                                                                             |
| 36                                 | 00000000000000000000000000000000000000              | ·*                                                                                               | : \$ + \$                            | ₩Å   + +   +   + + ₩             | *****                        | ≈ METALS ≎                   | 谷<br> <br> |                                  | ÷<br>                            | · · · · · · · · · · · · · · · · · · · | 000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>00                           |
| DUARTER                            | AL<br>12101/92<br>UG/M3                             | BE<br>12105/92<br>UG/M3                                                                          | CD<br>12110/92<br>UG/M3              | CR<br>12112/92<br>UG/M3          | CU<br>12114/92<br>UG/M3      | FE<br>12126/92<br>UG/M3      | PB<br>12128/92<br>UG/M3                                                                         | MN<br>12132/92<br>UG/M3          | NI<br>12136/92<br>UG/M3          | v<br>12164/92<br>UG/M3                | ZN<br>12167/92<br>UG/M3                                                                     |
| FIRST<br>SECOND<br>THIRD<br>FUURTH |                                                     | 80L<br>80L<br>3.0001                                                                             | 0.0024<br>0.0020<br>0.0011<br>0.0015 | 0.004<br>0.002<br>0.003<br>0.003 | 0.10<br>0.08<br>0.10<br>0.14 | 0.77<br>0.49<br>0.70<br>0.48 | 0 • 6 3<br>0 • 6 3<br>0 • 5 2<br>0 • 5 2<br>0 • 5 2                                             | 0*013<br>0*017<br>0*017<br>0*013 | 0.007<br>0.007<br>0.009<br>0.011 | 0.04<br>0.01<br>0.02<br>0.02          | 0 • 28<br>0 • 21<br>0 • 30                                                                  |
| YEAR AVG<br>COUNT                  |                                                     | 0.0001<br>59                                                                                     | 0°0017                               | 0•003<br>59                      | 0•11<br>59                   | 0.61<br>59                   | 0•53<br>59                                                                                      | 0 <b>.</b> 016<br>59             | 0.009<br>59                      | 0•03<br>59                            | 0 = 26<br>46                                                                                |
| ."                                 | ☆<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓ | 0<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+ | **- WATER S                          | oruares ⊸≎                       |                              | 0                            | ⇔8ENZ SOL≎                                                                                      | *<br>*                           | ⇔- TSP -≎                        | 4                                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
| QUARTER                            | NITRATE<br>12306/92<br>UG/M3                        | SULFATE<br>12403/92<br>UG/M3                                                                     | AMMUN'IUM<br>. 12301/91<br>. UG/M3   | SODIUM<br>12134/92<br>UG/M3      | РН<br>12602/91<br>РН-UNITS   |                              | TCTAL<br>11103/91<br>UG/M3                                                                      |                                  | ARITH AV<br>11101/91<br>UG/M3    |                                       | APPROX<br>SAMPLE<br>CGUNT                                                                   |
| FIRST<br>SECOND<br>THIRD<br>FOURTH | .3.11<br>3.15<br>2.01<br>0.87                       | 1 • 15<br>8 • 28<br>11 • 48<br>3 • 96                                                            | 0.09<br>0.04<br>0.13<br>0.07         |                                  | 9.60<br>9.60<br>9.30<br>7.70 |                              |                                                                                                 |                                  | 0<br>0<br>0<br>0<br>0<br>0       |                                       | 1 1 1 3<br>7 6 9 3<br>7 6                                                                   |
| YEAR AVG<br>COUNT                  | 2 • 25<br>59                                        | 6 •48<br>59                                                                                      | 0•08<br>59                           |                                  | 9°04<br>59                   |                              |                                                                                                 |                                  | 56<br>59                         |                                       |                                                                                             |

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|                                    |                                        | Ö                                                                                               | UNNECTICUT<br>AIR                    | COMPLIANCE                       | T OF ENVIRG<br>E MONITCRIP             | UNMENTAL PF<br>VG QUARTE       | ROTECTION C                          | 05/13/1982<br>SITES              | -                                     | AĠE 18                                                                                      |                                                          |
|------------------------------------|----------------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------|----------------------------------------|--------------------------------|--------------------------------------|----------------------------------|---------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------|
|                                    |                                        |                                                                                                 | YEAR TI<br>1980 Mi                   | DWN NAME<br>Eriden               |                                        | AREA S<br>0540 CC              | ITE AGENCY<br>05 F                   | r PROJEC                         | F                                     |                                                                                             |                                                          |
| v                                  | 00000000000000000000000000000000000000 | *<br> <br> |                                      | ****                             |                                        | ¢ METALS ☆                     | ¥\$ + + + + + + + + + + + +          |                                  | · · · · · · · · · · · · · · · · · · · | ₩<br>•<br>•<br>•<br>•<br>•<br>•<br>•                                                        | 0<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>0 |
| UARTER                             | AL<br>12101/92<br>UG/M3                | BE<br>12105/92<br>UG/M3                                                                         | CD<br>12110/92<br>UG/M3              | CR<br>12112/92<br>UG/M3          | CU<br>12114/92<br>UG/M3                | FE<br>12126/92<br>UG/M3        | PB<br>12128/92<br>UG/M3              | MN<br>12132/92<br>UG/M3          | NI<br>12136/92<br>.UG/M3              | V<br>12164/92<br>UG/M3                                                                      | 2N<br>12167/92<br>UG/M3                                  |
| FIRST<br>SECOND<br>THIRD<br>FJURTH |                                        | 801<br>801<br>9001                                                                              | 0.0039<br>0.0038<br>0.0028<br>0.0024 | 0.005<br>0.005<br>0.003<br>0.003 | 0。21<br>0,21<br>0.14<br>0.14           | 0 8 80<br>0 83<br>0 92<br>0 55 | 0 - 55<br>0 - 41<br>0 - 41<br>0 - 41 | 0.026<br>0.028<br>0.026<br>0.014 | 0.006<br>0.009<br>0.010<br>0.009      | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 4.15<br>2.43<br>1.07                                     |
| EAR AVG<br>CJUNT                   |                                        | 0.0001<br>55                                                                                    | 0.0033<br>55                         | 0.004<br>55                      | 0•18<br>55                             | 0•80<br>55                     | 0<br>4<br>0<br>0<br>0<br>0           | 0•025<br>55                      | 0.008<br>55                           | C= 02<br>55                                                                                 | 2 <b>.</b> 77<br>40                                      |
|                                    |                                        | * + + + + + + + + + + + + + + +                                                                 | *⇔- WATER S                          | orusres -*                       | ************************************** | <b>4</b>                       | :⇔BENZ SOL≎                          | 42                               | ¢- TSP -≎                             | с<br>с                                                                                      | 444<br>1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1               |
| UARTER                             | NITRATE<br>12306/92<br>UG/M3           | SULFATE<br>12403/92<br>UG/M3                                                                    | AMMUNUMA<br>19/101/91<br>UG/M3       | SODIUM<br>12184/92<br>UG/M3      | РН<br>12602/91<br>РН-UNITS             |                                | TCTAL<br>11103/91<br>UG/M3           | -                                | ARITH AV<br>11101/91<br>UG/M3         |                                                                                             | APPROX<br>SAMPLE<br>COUNT                                |
| FIRST<br>SECOND<br>THIRD<br>FCURTH | 3.93<br>2.91<br>1.50<br>1.31           | 4.40<br>4.40<br>4.00<br>4.00<br>4.00                                                            | 0.22<br>80L<br>0.13<br>0.15          |                                  | 9.70<br>9.60<br>9.30<br>7.90           |                                |                                      |                                  | 7070                                  |                                                                                             | 15<br>16<br>9                                            |
| EAR AVG<br>CCUNT                   | 2°52<br>55                             | 5 • 56<br>55                                                                                    | 0 • 1 2<br>5 5                       |                                  | 9°26<br>55                             | -                              |                                      |                                  | 63<br>55                              |                                                                                             |                                                          |

|                                    |                              | ر                                    | AIR                                  | COMPLIANCE                       | E MONITCRIN                  | JAMENIAL PE             | ERLY COMPOS                  | SITES                            | -                                | 7AGE 14                      |                                                     |
|------------------------------------|------------------------------|--------------------------------------|--------------------------------------|----------------------------------|------------------------------|-------------------------|------------------------------|----------------------------------|----------------------------------|------------------------------|-----------------------------------------------------|
|                                    |                              |                                      | YEAR T(<br>1980 M                    | OWN NAME<br>Iddletown            |                              | AREA SI<br>0570 CC      | ITE AGENCY<br>03 F           | Y PROJECT<br>01                  | L                                |                              |                                                     |
|                                    |                              |                                      |                                      |                                  |                              |                         |                              |                                  |                                  |                              |                                                     |
|                                    | *****                        | ********                             |                                      | (今)))・・・・・・                      | *****                        | > METALS ☆              | ********                     | *********                        |                                  | ***                          | *******                                             |
| QUARTER                            | AL<br>12101/92<br>UG/M3      | BE<br>12105/92<br>UG/M3              | CD<br>12110/92<br>UG/M3              | CR<br>12112/92<br>UG/M3          | CU<br>12114/92<br>UG/M3      | FE<br>12126/92<br>UG/M3 | PB<br>12128/92<br>UG/M3      | MN<br>12132/92<br>UG/M3          | NI<br>1 2136/92<br>UG/M3         | V<br>12164/92<br>UG/M3       | 2N<br>12167/92<br>UG/M3                             |
| FIRST<br>SECUND<br>THIRD<br>FOURTH |                              | 30L<br>301<br>30001                  | 0.0016<br>0.0016<br>0.0014<br>0.0020 | 0.004<br>0.002<br>0.005<br>0.005 | 0.08<br>0.17<br>0.33<br>0.20 | 0.50<br>0.51<br>0.84    | 0000<br>• 44<br>• 44<br>• 44 | 0.016<br>0.016<br>0.020<br>0.013 | 0.003<br>0.005<br>0.007<br>0.008 | 0.03<br>0.02<br>0.02<br>0.02 | 0•00<br>000000                                      |
| YEAR AVG<br>COUNT                  |                              | 0.0001<br>59                         | 0.0017<br>59                         | 0.004<br>59                      | 0•20<br>59                   | 0.57<br>59              | 0.51<br>59                   | 0.016<br>59                      | 0°006<br>59                      | 0°03<br>59                   | 0•08<br>45                                          |
|                                    | 2<br>                        | *                                    | :⇔- WATER S                          | aruares -≎                       |                              | ÷                       | ⇔BENZ SOL≎                   | 4)<br>42                         | ¢- TSP -≎                        | 4<br>0                       | 0<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>0 |
| QUARTER.                           | NITRATE<br>12306/92<br>UG/M3 | SULFATE<br>12403/92<br>UG/M3         | AMMONIUM<br>12301/91<br>UG/M3        | SUDIUM<br>12184/92<br>UG/M3      | РН<br>12602/91<br>РН-UNITS   |                         | TDTAL<br>11103/91<br>UG/M3   |                                  | ARITH AV<br>11101/91<br>UG/M3    |                              | APPROX<br>SAPPLE<br>COUNT                           |
| FIRST<br>SECOND<br>THIKD<br>FOURTH | 2.97<br>3.35<br>1.39<br>0.72 | 4 • 14<br>4 • 34<br>6 • 22<br>4 • 09 | 0.10<br>0.02<br>0.13<br>0.13<br>0.08 |                                  | 9.70<br>9.70<br>9.00<br>8.20 |                         |                              |                                  | 4 N N A<br>4 N N A               |                              | 14<br>15<br>15                                      |
| YEAR AVG<br>COUNT                  | 2 • 09<br>59                 | 4•71<br>59                           | 0.08<br>59                           |                                  | 9 <b>.</b> 14<br>59          |                         |                              |                                  | 50                               |                              |                                                     |

| PAGE                  |                   |
|-----------------------|-------------------|
| PROTECTION 05/13/1982 | KTERLÝ COMPOSITES |
| OF ENVIRONMENTAL      | MONITORING QUAR   |
| DEPARTMENT            | COMPLIANCE        |
| CONNECTICUT           | AIR               |

|     | MILFORD |  |
|-----|---------|--|
| 281 | 1930    |  |

-\*\* METALS \*\*-

4) 4)

| ******           | #          | - TSP -**   | **          | ¢BENZ SOL ¢¢ | . <del>ф</del>    | **             | oruв∟es -⇔∶          | ¢- WATER S | \$<br>• • • • • • • • ↓<br>• • • • • • • • ↓ | ******** | י<br>י            |
|------------------|------------|-------------|-------------|--------------|-------------------|----------------|----------------------|------------|----------------------------------------------|----------|-------------------|
| 0 = 08<br>44     | 0•03<br>59 | 0.016<br>59 | 0.014<br>59 | 0•46<br>59   | 0.54<br>59        | 0 • 1.7<br>5 9 | 0 <b>°</b> 005<br>59 | 0.0020     | 0.0001                                       |          | YEAR AVG<br>COUNT |
| 0•05             | 0.07       | 0-029       | 0.011       | 0.35         | 0•46              | 0.13           | 0.004                | 0-0015     | BOL                                          |          | FUUKIH            |
| 0.06             | 0.02       | 0.008       | 0.015       | 0.49         | 0.69              | 12.0           | 0,002                | 0.0013     | 0.0001                                       |          | THIRD             |
| 0.11             | 0.01       | 0.016       | 0.011       | 0.41         | 0-43              | 0.421          | 0 • 00.2             | 0,0021     | BDL                                          |          | SECOND            |
|                  | 0•03       | 0.014       | 0.019       | 0.59         | 0.57              | 0.13           | 0.011                | 0.0032     | BDL                                          |          | FIRST             |
| 1210/72<br>UG/M3 | 16/W3      | UG/M3       | UG/M3       | 16/M3        | 12120/92<br>UG/M3 | nG/M3          | NG/M3                | NG/M3      | UG/M3                                        | UG/W3    |                   |
| ZN               | >          | IN          | NM          | P.B.         | ц                 | CU             | ся                   | CD         | 8E                                           | AL       | I                 |

| QUARTER  | NITRATE<br>12306/92<br>UG/M3 | SULFATE<br>12403/92<br>UG/M3 | AMMONIUM<br>12301/91<br>UG/M3 | SODIUM<br>12184/92<br>UG/M3 | РН<br>12602/91<br>РН-UNITS | T0TAL<br>11103/91<br>UG/M3 |
|----------|------------------------------|------------------------------|-------------------------------|-----------------------------|----------------------------|----------------------------|
| FIRST    | ,3 <b>.</b> 78               | 6.26                         | . 0.05                        |                             | 9 • 50                     |                            |
| SECOND   | 4 • 08                       | 3.49                         | 0-05                          |                             | 9.60                       |                            |
| THIRD    | 1.00                         | 7.88                         | 0.13                          |                             | 9.30                       | •                          |
| FOURTH   | L = 4 I                      | 5.31                         | 0.07                          |                             | 7.80                       |                            |
| YEAR AVG | 2 °58                        | 5.79                         | 0.08                          |                             | 9.10                       |                            |
| COUNT    | 59                           | 59                           | 59                            |                             | 59                         |                            |

Table 10, Continued

APPRCX SAMPLE COUNT

ARITH AV 11101/91 UG/M3

15 16 13

350

|                                    |                                           | U                                                                                                | ONNECTICUT<br>AIR                    | DEPARTMENI<br>COMPLIANCE         | T DF ENVIRO<br>E MONITORIN | INMENTAL PI                  | RDTECTION (<br>ERLY COMPO     | 05/13/1982<br>SITES              |                                  | PAGE 21                      |                                                                         |
|------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------|----------------------------------|----------------------------|------------------------------|-------------------------------|----------------------------------|----------------------------------|------------------------------|-------------------------------------------------------------------------|
|                                    |                                           |                                                                                                  | YEAR T(<br>1980 NJ                   | DWN NAME<br>AUGATUCK             |                            | AREA S<br>0660 C(            | ITE AGENC'<br>01 F            | Y PROJEC                         | F                                |                              | ·                                                                       |
| *                                  | *<br>                                     | 4)<br> <br>                          | ₩ <b>₩</b>                           | ****                             | **                         | .⇔ METALS ⇔:                 |                               | *****                            | ·**                              | ***                          | **<br>+<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br> |
| JUARTER                            | AL<br>12101/92<br>UG/M3                   | BE<br>12105/92<br>UG/M3                                                                          | CD<br>12110/92<br>UG/M3              | CR<br>12112/92<br>UG/M3          | CU<br>12114/92<br>ÚG/M3    | FE<br>12126/92<br>UG/M3      | PB<br>12128/92<br>UG/M3       | MN<br>12132/92<br>UG/M3          | NI<br>12136/92<br>UG/M3          | V .<br>12164/92<br>UG/M3     | ZN<br>12167/92<br>UG/M3                                                 |
| FIRST<br>SECOND<br>THIRD<br>FOURTH |                                           | 80L<br>80L<br>0.0001<br>80L                                                                      | 0.0030<br>0.0023<br>0.0023<br>0.0023 | 0.005<br>0.003<br>0.003<br>0.003 | 0.31<br>0.34<br>0.23       | 1•00<br>0•56<br>0•58<br>0•55 | 0.66<br>0.43<br>0.473<br>0.68 | 0.030<br>0.020<br>0.022<br>0.019 | 0.006<br>0.006<br>0.006<br>0.006 | 0•03<br>0•01<br>0•01<br>0•02 | 0.11<br>0.06<br>0.12                                                    |
| rear avg<br>Ccunt                  |                                           | 0.0001<br>55                                                                                     | 0.0024<br>55                         | 0 • 004<br>55                    | 0 • 30<br>55               | 0°72<br>55                   | 0 • 5 6<br>5 5                | 0.023                            | 0•006<br>55                      | 0.02                         | 0.10<br>42                                                              |
| ,<br>,                             | 0<br>++<br>++<br>++<br>++<br>++<br>0<br>0 | ☆<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+ | *⇔- WATER SI                         | ornBres -≎:                      | **                         | ÷                            | ¢BENZ SOL≎                    | ě                                | ¢- TSP -¢                        | ÷                            | ******                                                                  |
| JUARTER                            | NITRATE<br>12306/92<br>UG/M3              | SULFATE<br>12403/92<br>UG/M3                                                                     | AMMONIUM<br>12301/91<br>UG/M3        | SGDIUM<br>12184/92<br>UG/M3      | РН<br>12602/91<br>РН-UNITS |                              | TDTAL<br>11103/91<br>UG/M3    |                                  | ARITH AV<br>11101/91<br>UG/M3    | ·                            | APPROX<br>Sample<br>Count                                               |
| FIRST<br>SECOND<br>THIRD<br>FCURTH | 3•44<br>3•17<br>1•41<br>1•04              | 6.06<br>7.88<br>8.01<br>4.16                                                                     | 0.01<br>0.02<br>0.07<br>0.11         |                                  | 9.50<br>9.50<br>8.60       |                              | •                             |                                  | чиа<br>444<br>6                  |                              |                                                                         |
| YÊAR AVG<br>COUNT.                 | 2 • 2 0<br>5 5                            | 6 • 4 7<br>55                                                                                    | 0°08<br>55                           |                                  | 9°30<br>55                 |                              | •<br>•                        |                                  | 4<br>4<br>7<br>3<br>7<br>3       |                              |                                                                         |

|                          |                      | ***                                                                                                | ZN<br>12167/92<br>UG/M3 | 0 • 08<br>• 05<br>0 8                    | 0.07<br>41           | 44<br>44<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4 | APPROX<br>SAMPLE<br>COUNT      | 113<br>13<br>13                    |                      |
|--------------------------|----------------------|----------------------------------------------------------------------------------------------------|-------------------------|------------------------------------------|----------------------|------------------------------------------------------------------------------------------|--------------------------------|------------------------------------|----------------------|
| PAGE 22                  |                      | **<br>*<br>*<br>*<br>*<br>*                                                                        | V<br>12164/92<br>UG/M3  | 0.04<br>0.01<br>0.02<br>0.02             | 0•02<br>54           | 2<br>2                                                                                   | •                              |                                    |                      |
|                          | L                    |                                                                                                    | NI<br>12136/92<br>UG/M3 | 0.006<br>0.005<br>0.011                  | 0.007<br>54          | ⇔- TSP -*                                                                                | ARITH AV<br>11101/91<br>UG/M3  | 944<br>944<br>944                  | 540                  |
| 5/13/1982<br>ITES        | PROJECI<br>01        | 76<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4  | MN<br>12132/92<br>UG/M3 | 0.013<br>0.011<br>0.015<br>0.015         | 0.013<br>54          | 4)<br>24                                                                                 |                                |                                    |                      |
| DTECTICN D<br>RLY COMPOS | TE AGENCY<br>3 F     | **                                                                                                 | PB<br>12128/92<br>UG/M3 | 0 • 5 6<br>0 • 4 1<br>0 • 4 8<br>0 • 4 8 | 0 • 5 0<br>5 4       | senz sor≉:                                                                               | TOTAL<br>11103/91<br>UG/M3     | ·                                  | ·                    |
| NMENTAL PR<br>G QUARTE   | AREA SI<br>0680 12   | METALS **                                                                                          | FE<br>12126/92<br>UG/M3 | 0.44<br>0.39<br>0.56<br>0.52             | 0.48<br>54           | ¥.                                                                                       |                                | ·                                  |                      |
| OF ENVIRO<br>MONITCRIN   |                      | **<br>**<br>                                                                                       | CU<br>12114/92<br>UG/M3 | 0.16<br>0.16<br>0.27<br>0.17             | 0.19<br>54           | · · · · · · · · · · · · · · · · · · ·                                                    | РН<br>12602/91<br>РН-UNITS     | 9.70<br>9.60<br>9.40<br>8.80       | 9 <b>.</b> 38<br>54  |
| DEPARTNENT<br>COMPLIANCE | WN NAME<br>W BRITAIN | 47<br>47<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4      | СR<br>12112/92<br>UG/M3 | 0.008<br>0.002<br>0.003<br>0.003         | 0 <b>°</b> 004<br>54 | orubles -≎≎                                                                              | SODIUM<br>12184/92<br>UG/M3    | •                                  |                      |
| NNECTICUT<br>AIR         | YEAR TU<br>1980 NE   | \$<br>\$<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | CD<br>12110/92<br>UG/M3 | 0.0012<br>0.0012<br>0.0009<br>0.0015     | 0.0012<br>54         | WATER SC                                                                                 | AMMON IUM<br>12301/91<br>UG/M3 | .0.03<br>0.02<br>0.10<br>0.14      | 0.07<br>54           |
| CO                       |                      |                                                                                                    | BE<br>12105/92<br>UG/M3 | 80L<br>80L<br>0.0001                     | 0.0001<br>54         | **                                                                                       | SULFATE<br>12403/92<br>UG/M3   | . 5.38<br>7.88<br>3.47             | , 6.48<br>548<br>548 |
|                          |                      | \$P\$\$}<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓                          | AL<br>12101/92<br>UG/M3 |                                          |                      | **************************************                                                   | NITRATE<br>12306/92<br>106/M3  | 1 °97<br>3 •40<br>0 •53<br>1 •41   | L•83<br>54           |
|                          |                      | *                                                                                                  | JUAR TER                | FIRST<br>SECOND<br>THIRD<br>FOURTH       | YEAR AVG<br>CJUNT    | ÷.                                                                                       | 2<br>QUARTER                   | FIRST<br>SECOND<br>THIRD<br>FOURTH | YEAR AVG<br>COUNT    |

Table 10, Continued

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|                          |                    | **                                                                                               | ZN<br>167/92<br>G/M3        | 0.15<br>0.09<br>0.10                  | 0 <b>.11</b><br>39 | *<br>*<br>-<br>-<br>-<br>-                                                                      | APPRCX<br>SAMPLE<br>COUNT     | 13<br>174<br>132                         |            |
|--------------------------|--------------------|--------------------------------------------------------------------------------------------------|-----------------------------|---------------------------------------|--------------------|-------------------------------------------------------------------------------------------------|-------------------------------|------------------------------------------|------------|
| 16E 23                   |                    | <br> -<br> <br> <br> <br> <br> <br> <br> <br> <br> <br>                                          | V<br>12164/92 12<br>UG/M3 U | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0°04<br>52         | 1<br>33<br>33                                                                                   |                               |                                          |            |
| 4<br>4                   |                    | · ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~                                                           | NI<br>12136/92<br>UG/M3     | 0.007<br>0.007<br>0.013<br>0.011      | 0.009<br>52        | *- TSP -**                                                                                      | ARITH AV<br>11101/91<br>UG/M3 | 65<br>41<br>41                           | 59<br>52   |
| 5/13/1982<br>ITES        | PROJECT<br>01      | ₩<br>₩<br> <br> <br> <br> <br> <br> <br> <br>                                                    | MN<br>12132/92<br>UG/M3     | 0.017<br>0.019<br>0.027<br>0.017      | 0.020<br>52        | ë                                                                                               |                               |                                          |            |
| DIECTICN O               | TE AGENCY<br>2 F   | 44<br>44<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4         | PB<br>12128/92<br>UG/M3     | 1.20<br>0.59<br>0.72<br>0.70          | 0 • 80<br>5 2      | *BENZ SOL                                                                                       | TDTAL<br>11103/91<br>UG/M3    |                                          |            |
| NMENTAL PRI<br>G QUARTEI | AREA SI<br>0700 CU | METALS **                                                                                        | FE<br>12125/92<br>UG/M3     | 1.31<br>0.72<br>1.12<br>0.73          | 0 • 9'6<br>52      | 45<br>45                                                                                        |                               |                                          |            |
| OF ENVIRO<br>MONITORIN   |                    | 00<br>                                                                                           | CU<br>12114/92<br>UG/M3     | 0.27<br>0.21<br>0.39<br>0.18          | 0.e26<br>52        | 4<br> <br> | РН<br>12602/91<br>РН-UNITS    | 9.60<br>9.80<br>9.50<br>8.70             | 9.41<br>52 |
| DEPARTMENT<br>COMPLIANCE | WN NAME<br>W HAVEN | 44<br>44<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1    | CR<br>12112/92<br>UG/M3     | 0.004<br>0.006<br>0.003<br>0.003      | 0.005<br>52        | orubres -*                                                                                      | SODIUM<br>12184/92<br>UG/M3   |                                          |            |
| NNECTICUT I              | YEAR TO            | 0<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | CD<br>12110/92<br>UG/M3     | 0.0018<br>0.0012<br>0.0011<br>0.0011  | 0•0014<br>52       | *- WATER S                                                                                      | AMMONIUM<br>12301/91<br>UG/M3 | . 0.10<br>3DL<br>0.14<br>0.22            | 0.11       |
| COL                      |                    | 43<br>43<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1    | BE<br>12105/92<br>UG/M3     | 80L<br>80L<br>0.0001<br>80L           | 0.0001<br>52       |                                                                                                 | SULFATE<br>12403/92<br>UG/M3  | 5.98<br>8.13<br>4.20                     | 7°38<br>52 |
|                          |                    |                                                                                                  | AL<br>12101/92<br>UG/M3     |                                       |                    | ······································                                                          | NITRATE<br>12306/92<br>116/M3 | 2 • 0 0<br>2 • 0 0<br>2 • 0 0<br>1 • 0 0 | 2°79<br>٤2 |
|                          |                    | 4                                                                                                | JUARTER                     | FIRST<br>SECOND<br>THIXD<br>FAURTH    | YEAR AVG<br>COUNT  | .*                                                                                              | QUAR TER                      | FIRST<br>SECOND<br>THIRD<br>FOURTH       | YEAR AVG   |

|                                    |                                                                                                                                | ū                                                                                               | ONNECTICUT<br>AIR                     | DEPARTMEN<br>COMPLIANCE                | E OF ENVIRO                  | NMENTAL PR                   | RLY COMPO:                   | 05/13/1982<br>SITES              |                                  | 0AGE 24                               |                                                                                               |
|------------------------------------|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|---------------------------------------|----------------------------------------|------------------------------|------------------------------|------------------------------|----------------------------------|----------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------------|
|                                    |                                                                                                                                |                                                                                                 | YEAR TI<br>1930 NE                    | OWN NAME<br>Ew Haven                   |                              | AREA 51<br>0700 12           | ITE AGENC'<br>23 F           | Y PROJEC                         |                                  |                                       |                                                                                               |
| 52                                 | 80 + - + +                                                                                                                     | *<br> <br>                                    | · · · · · · · · · · · · · · · · · · · | ~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~ | **<br>*                      | • METALS ☆☆                  |                              |                                  | · * + - *                        | · · · · · · · · · · · · · · · · · · · | (1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)<br>(1)                            |
| QUARTER                            | AL<br>12101/92<br>UG/M3                                                                                                        | BE<br>12105/92<br>UG/M3                                                                         | CD<br>12110/92<br>UG/M3               | CR<br>12112/92<br>UG/M3                | CU<br>12114/92<br>UG/M3      | FE<br>12126/92<br>UG/M3      | PB<br>12128/92<br>UG/M3      | MN<br>12132/92<br>UG/M3          | NI<br>1 2136/92<br>UG/M3         | V .<br>12164/92<br>UG/M3              | ZN<br>12167/92<br>UG/M3                                                                       |
| FIRST<br>SECOND<br>THIRD<br>FUURTH |                                                                                                                                | 30L<br>80L<br>0.0001<br>80L                                                                     | 0.0013<br>0.0022<br>0.0009<br>0.0019  | 0.004<br>0.005<br>0.003<br>0.003       | 0•15<br>0•26<br>0•22<br>0•22 | 0•91<br>1•08<br>0•99<br>0•69 | 0.68<br>0.85<br>0.78<br>0.83 | 0.022<br>0.024<br>0.019<br>0.014 | 0.007<br>0.009<br>0.012<br>0.012 | 0.07<br>0.02<br>0.03<br>0.03          | 0.15<br>0.07<br>0.02                                                                          |
| YEAR AVG<br>COUNT                  |                                                                                                                                | 0 • 0001<br>28                                                                                  | 0.0016<br>28                          | 0.004<br>28                            | 0 • 21<br>28                 | 0•92<br>28                   | 0. 79<br>28                  | 0•020<br>28                      | 0.010<br>28                      | 0 • 0 4<br>2 8                        | 0.08<br>21                                                                                    |
| •                                  |                                                                                                                                | ↔<br> <br> | :⇔- WATER S                           | oruBLES -≎                             | X3                           | 8                            | ¢BENZ SCL¢                   | ₩.,                              | *+ TSP +*                        | *                                     | 444<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |
| <b>UARTER</b>                      | NITRATE<br>12306/92<br>. UG/M3                                                                                                 | SULFATE<br>12403/92<br>UG/M3                                                                    | AMMON IUM<br>12301/91<br>UG/M3        | SODIUM<br>12134/92<br>UG/M3            | РН<br>12602/91<br>РН-UNITS   |                              | TOTAL<br>11103/91<br>UG/M3   |                                  | ARITH AV<br>11101/91<br>UG/M3    |                                       | APPRCX<br>SAMPLE<br>COUNT                                                                     |
| FIRST<br>SECOND<br>THIRD<br>FUURTH | 3<br>9<br>9<br>9<br>9<br>9<br>1<br>8<br>1<br>8<br>1<br>8<br>1<br>8<br>1<br>8<br>1<br>8<br>9<br>9<br>1<br>8<br>9<br>9<br>9<br>9 | 7•11<br>7•27<br>11•09<br>6•49                                                                   | 0.05<br>0.02<br>0.22<br>0.30          |                                        | 9.60<br>9.60<br>9.40<br>8.40 |                              |                              |                                  | 67<br>77<br>48                   |                                       | r & or                                                                                        |
| YEAR AVG<br>COUNT                  | 2 • 8 3<br>2 8                                                                                                                 | 7•85<br>28                                                                                      | 0•14<br>28                            |                                        | 9°26<br>28                   |                              |                              |                                  | 66<br>28                         |                                       |                                                                                               |

|                          |                     | **<br>**<br>**                                                    | ZN<br>12167/92<br>UG/M3   | 0.12<br>0.09<br>0.11                                | 0•11<br>44              | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0       | APPROX<br>SAMPLE<br>COUNT     | 14<br>155<br>14                                                                                                                                                                                                                                                                                           |                   |
|--------------------------|---------------------|-------------------------------------------------------------------|---------------------------|-----------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------------|-------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------|
| PAGE 25                  |                     | * *<br> <br> <br> <br> <br> <br> <br>                             | V.<br>12164/92<br>UG/M3   | 0 • 0 3<br>0 • 0 1<br>0 • 0 2<br>0 • 0 2<br>0 • 0 3 | 0 • 02<br>58            |                                                                                                   |                               | ·                                                                                                                                                                                                                                                                                                         |                   |
| _                        |                     | 8<br>1<br>1<br>1<br>1                                             | NI<br>1 2136/92<br>UG/M3  | 0.004<br>0.005<br>0.007<br>0.007                    | 0.006<br>58             | °- 15P -≎                                                                                         | ARITH AV<br>11101/91<br>UG/M3 | 69<br>64<br>54<br>55<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75<br>75                                                                                                                                                                                                              | 5<br>7<br>8       |
| 15/13/1982<br>11TES      | r PROJECT<br>01     | н<br>Н<br> <br> | MN<br>12132/92<br>UG/M3   | 0.024<br>0.014<br>0.016<br>0.022                    | 0°019<br>58             | 4)<br>-<br>                                                                                       | <b>.</b> .                    |                                                                                                                                                                                                                                                                                                           |                   |
| OTECTION O<br>RLY COMPOS | TE AGENCY           | **************************************                            | PB<br>12128/92<br>UG/M3   | 0.71<br>0.49<br>0.62<br>0.55                        | Ü <del>5</del> 59<br>58 | ¢BENZ SOL≉                                                                                        | TOTAL<br>11103/91<br>UG/M3    |                                                                                                                                                                                                                                                                                                           |                   |
| NMENTAL PR<br>G QUARTE   | AREA SI<br>0820, 00 | : METALS ☆                                                        | FE<br>12126/92<br>UG/M3   | 0.84<br>0.55<br>0.79<br>1.14                        | 0                       | *                                                                                                 |                               |                                                                                                                                                                                                                                                                                                           |                   |
| OF ENVIRO<br>MONITORIN   |                     | **************************************                            | CU<br>12114/92<br>UG/M3   | 0.21<br>0.33<br>0.38<br>0.41                        | 0, 33<br>58             | 42<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4                | РН<br>12602/91<br>РН-UNITS    | 9.70<br>9.50<br>8.50                                                                                                                                                                                                                                                                                      | 9.38<br>58        |
| DEPARTNENT<br>COMPLIANCE | JWN NAME<br>JRMALK  |                                                                   | CR'<br>12112/92<br>UG/M3  | 0.003<br>0.003<br>0.002<br>0.002                    | 0.003<br>58             | orubres -*                                                                                        | SODIUM<br>12184/92<br>UG/M3   | ×                                                                                                                                                                                                                                                                                                         |                   |
| NN ECTICUT<br>AIR        | YEAR TC<br>1980 NC  | 8<br>8<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1               | CD<br>12110/92<br>UG/M3   | 0.0017<br>0.0016<br>0.0013<br>0.0013                | 0.0015<br>58            | ¢- WATER S                                                                                        | AMMDNIUM<br>12301/91<br>UG/M3 | 0.16<br>80<br>0.05<br>15                                                                                                                                                                                                                                                                                  | 0°09<br>· · 58    |
| 0                        |                     | ;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;;                            | аЕ<br>12105/92<br>UG/M3   | 80L<br>80L<br>0.0001<br>80L                         | 0 • 0001<br>58          | 55<br>9<br>8<br>9<br>8<br>9<br>8<br>9<br>8<br>9<br>8<br>9<br>8<br>9<br>8<br>9<br>8<br>9<br>8<br>9 | SULFATE<br>12403/92<br>16/M3  | 7.12<br>5.78<br>8.73<br>5.20                                                                                                                                                                                                                                                                              | 6•73<br>58        |
|                          |                     | **<br> <br>          | AL<br>12101/92<br>. UG/M3 |                                                     |                         | *<br> <br> <br> <br> <br> <br> <br>                                                               | NITRATE<br>12306/92<br>UG/M3  | . 3<br>. 6<br>. 6<br>. 7<br>. 8<br>. 8<br>. 8<br>. 9<br>. 1<br>. 6<br>. 7<br>. 8<br>. 7<br>. 7<br>. 8<br>. 7<br>. 7<br>. 7<br>. 7<br>. 7<br>. 7<br>. 7<br>. 7<br>. 7<br>. 7 | 2°75<br>58        |
|                          |                     | ÷                                                                 | QUARTER                   | FIRST<br>SECOND<br>THIRD<br>FOURTH                  | YEAR AVG<br>COUNT       | *                                                                                                 | QUARTER                       | FIRST<br>SECOND<br>THIRD<br>FOURTH                                                                                                                                                                                                                                                                        | YEAR AVG<br>COUNT |

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|                          |                    | ***                                                                                              | ZN<br>12167/92<br>UG/M3    | 0 • 10<br>0 • 03<br>0 • 05               | 0 • C 6<br>4 6    | 000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>00 | AP PRCX<br>SAMPLE<br>COLNT     | 14<br>15<br>16                     |                   |
|--------------------------|--------------------|--------------------------------------------------------------------------------------------------|----------------------------|------------------------------------------|-------------------|-------------------------------------------------------------------|--------------------------------|------------------------------------|-------------------|
| 0AGE 26                  |                    | *<br>                                                                                            | v<br>12164/92<br>UG/M3     | 0.03                                     | 0° 03             |                                                                   |                                |                                    | ,                 |
|                          | <b>L</b>           | · · · · · · · · · · · · · · · · · · ·                                                            | NI<br>12136/92<br>12136/92 | 0.003<br>0.005<br>0.007<br>0.008         | 0°06<br>60        | - TSP - 1                                                         | ARITH AŬ<br>11101/91<br>UG/M3  | 5<br>5<br>4<br>1<br>4<br>1         | 6 <del>6</del> 8  |
| 5/13/1982<br>1TES        | PRUJECT<br>01      |                                                                                                  | MN<br>12132/92<br>UG/M3    | 0.008<br>0.005<br>0.011<br>0.009         | 0°039<br>60       | *                                                                 | -                              |                                    |                   |
| OTECTION O<br>RLY COMPOS | TE AGENCY<br>1 F   | ው<br>የ<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | PB<br>12128/92<br>UG/M3    | 0.40<br>0.26<br>0.31<br>0.34             | 0.33<br>60        | ¢BENZ SOL≎                                                        | TDTAL<br>11103/91<br>UG/M3     |                                    |                   |
| NMENTAL PR<br>G QUARTE   | AREA SI<br>0840 CO | METALS **                                                                                        | FE<br>12126/92<br>UG/M3    | 0.37<br>0.37<br>0.64<br>0.47             | 0°47.<br>60       | *                                                                 |                                |                                    |                   |
| OF ENVIRO<br>MONITCRIH   |                    | **<br>**<br>* * * * * * *                                                                        | CU<br>12114/92<br>UG/M3    | 0 ° 08<br>0 • 18<br>0 • 10               | 0•11<br>60        | 00<br>                                                            | РН<br>12602/91<br>РН-UNITS     | 9°60<br>9°60<br>9°40<br>8°60       | 9°35<br>60        |
| CUMPLIANCE               | WN NAME<br>Rwich   |                                                                                                  | CR<br>12112/92<br>UG/M3    | 0 • 002<br>0 • 003<br>0 • 003<br>0 • 003 | 0°012<br>60       | orubies -≉                                                        | SCDIUM<br>12184/92<br>UG/M3    | •                                  |                   |
| NNECTICUT<br>AIR         | YEAR TO<br>1980 ND | 44<br>44<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1    | CD<br>12110/92<br>UG/M3    | 0.0010<br>0.0014<br>0.0008<br>0.0008     | 090100-0          | °- WATER S                                                        | AMMONİUM<br>-12301/91<br>UG/M3 | 0.08<br>80L<br>0.12<br>0.06        | 0°07<br>60        |
| CO                       |                    | **<br>                                                                                           | 8E<br>12105/92<br>UG/M3    | 80L<br>80L<br>601<br>60L                 | 0•0001<br>60      | **<br>                                                            | SULFATE<br>12403/92<br>UG/M3   | 5.78<br>5.16<br>11.30<br>4.51      | 6。78<br>60        |
|                          |                    | ☆☆<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓                                                       | AL<br>12101/92<br>UG/M3    |                                          |                   | ;;;<br>                                                           | NITRATE<br>12306/92<br>UG/M3   | 4°65<br>4°65<br>1°98<br>1°80       | 3.12<br>60        |
|                          |                    | **                                                                                               | QUARTER                    | FIRST<br>SECOND<br>THIRD<br>FOURTH       | YEAR AVG<br>COUNT | .*                                                                | QUARTER                        | FIRST<br>SECOND<br>THIRD<br>FOURTH | YEAR AVG<br>CUUNT |

|                                        |                     | 44<br>44<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4        | ZN<br>12167792<br>UG/M3  | 0.30<br>0.10<br>0.18                     | 0.1945            | \$\$<br>\$\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$<br>\$ | APPRCX<br>SAMPLF<br>COUNT     | 14<br>15<br>15<br>15                                                                        |                     |
|----------------------------------------|---------------------|-------------------------------------------------------------------------------------------------|--------------------------|------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------------------|-------------------------------|---------------------------------------------------------------------------------------------|---------------------|
| AGE 27                                 |                     | ·谷谷!<br>                                                                                        | V<br>12164/92<br>UG/M3   | 6.02<br>0.01<br>0.02<br>0.05             | 0•03<br>59        | 00<br>40<br>40                                                                                               |                               | ·                                                                                           |                     |
| o.                                     |                     |                                                                                                 | NI<br>12136/92<br>.UG/M3 | 0.005<br>0.006<br>0.003<br>0.010         | 0.007<br>59       | ¢- TSP -≎                                                                                                    | ARITH AV<br>11101/91<br>UG/M3 | 5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 58<br>59            |
| 5/13/1982<br>ITES                      | PROJECT<br>01       |                                                                                                 | MN<br>12132/92<br>UG/M3  | 0.015<br>0.022<br>0.021<br>0.020         | 0 ° 0 2 0<br>5 9  | *                                                                                                            |                               |                                                                                             |                     |
| DIECTION O                             | TE AGENCY<br>7 F    |                                                                                                 | PB<br>12128/92<br>UG/M3  | 0 • 4 3<br>0 • 9 7<br>0 • 4 4<br>0 • 4 0 | 0•41<br>59        | ¢BENZ SCL≉1                                                                                                  | TDTAL<br>11103/91<br>UG/M3    |                                                                                             |                     |
| MENTAL PRO                             | AREA SI<br>1080 CO  | METALS ⇔#                                                                                       | FE<br>12126/92<br>UG/M3  | 0 • 44<br>0 • 58<br>0 • 84<br>55         | 0•61<br>59        | ÷.                                                                                                           |                               | ·                                                                                           |                     |
| OF ENVIRON<br>MONITORING               |                     | ***                                                                                             | CU<br>12114/92<br>UG/M3  | 0.43<br>0.30<br>0.35<br>0.22             | 0 • 3 2<br>5 9    | ₩₩  <br>                                                                                                     | РН<br>12602/91<br>РН-UNITS    | 9.60<br>9.70<br>9.20<br>9.40                                                                | 9 <u>4</u> 47<br>59 |
| JEPART MENT <sup>.</sup><br>COMPLIANCE | AN NAME<br>Amford   | - 44<br>44<br>4<br>4<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | CR<br>12112/92<br>UG/M3  | 0.000<br>0.000<br>0.000<br>0.003         | 0.004<br>59       | tubLES -**                                                                                                   | SODIUM<br>12184/92<br>UG/M3   |                                                                                             |                     |
| WNECTICUT C<br>AIR (                   | YEAR TOU<br>1980 ST | **************************************                                                          | CD<br>12110/92<br>UG/M3  | 0.0024<br>0.0037<br>0.0017<br>0.0024     | 0-0026<br>59      | *- WATER SC                                                                                                  | AMMONIUM<br>12301/91<br>UG/M3 | 0.04<br>0.01<br>0.17<br>0.15                                                                | 0<br>0<br>0<br>0    |
| COL                                    |                     | ↔<br>↔<br> <br> <br> <br> <br> <br> <br> <br> <br>                                              | аЕ<br>12105/92<br>UG/M3  | 80L<br>80L<br>6.001<br>80L               | 0.0001<br>59      |                                                                                                              | SULFATE<br>12403/92<br>UG/M3  | 4 6 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4 6 4                                                     | 7°01                |
|                                        |                     | 0<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                        | AL<br>12101/92<br>UG/M3  |                                          |                   | **************************************                                                                       | NITRATE<br>12306/92<br>UG/M3  | 6.77<br>6.54<br>2.51<br>3.86                                                                | 4 • 89<br>59        |
|                                        |                     | 4<br>22                                                                                         | QUARTER                  | FIRST<br>SēCOND<br>THIRD<br>Füurth       | YEAR AVG<br>CCUNT | ş                                                                                                            | QU≜RTER                       | FIRST<br>SECOND<br>THIRD<br>FOURTH                                                          | YEAR AVG<br>COUNT   |

|   | PAGE                                   |                                 |
|---|----------------------------------------|---------------------------------|
|   | OF ENVIRONMENTAL PROTECTION 05/13/1982 | MONITORING QUARTERLY COMPOSITES |
| • | DEPARTMENT                             | <b>COMPLIANCE</b>               |
|   | CONNECTICUT                            | AIR                             |

| PROJECT   | 10       |
|-----------|----------|
| AGENCY    | L        |
| SITE      | . 123    |
| AREA      | 1080     |
| TOWN NAME | STAMFORD |
| YEAR      | 1980     |

| *<br>*<br>+<br>+                            | 5 2                       | 2 - 5                                    | <b>6</b> 4           | 8<br>8<br>1<br>1                                                                                 | ×Ψ                             |
|---------------------------------------------|---------------------------|------------------------------------------|----------------------|--------------------------------------------------------------------------------------------------|--------------------------------|
|                                             | ZN<br>12167/<br>UG/M3     |                                          | 0<br>9<br>0 4        |                                                                                                  | APPRC<br>Sampl<br>Count        |
| \$                                          | v<br>12164/92<br>UG/M3    | 0, 04<br>0, 02<br>0, 02<br>0, 02         | 0°03<br>58           | <del>й</del><br>н                                                                                |                                |
| **                                          | NI<br>.2136/92<br>UG/M3   | 0.004<br>0.004<br>0.007<br>0.010         | 0• 006<br>53         | - TSP - **                                                                                       | 4RITH AV<br>11101/91<br>UG/M3  |
|                                             | MN<br> 2132/92 1<br>UG/M3 | 0.017<br>0.017<br>0.017<br>0.017         | 0.016<br>58          | 4<br>4                                                                                           |                                |
| • \$ \$ • • • • • • • • •                   | PB<br>12128/92<br>UG/M3   | 0 • 5 4<br>0 • 5 4<br>0 • 5 6<br>0 • 5 6 | 0•52<br>58           | ¢B€NZ SOL¢¢                                                                                      | TGTAL<br>11103/91<br>UG/M3     |
| METALS 🖘                                    | FE<br>12126/92<br>UG/M3   | 0.60<br>0.62<br>0.70<br>0.41             | 0, 5<br>5<br>8       | ÷                                                                                                |                                |
| \$\$<br>                                    | CU<br>12114/92<br>UG/M3   | 0.19<br>0.26<br>0.33<br>0.26             | 0•26<br>58           | **                                                                                               | РН<br>12602/91<br>РН-UNITS.    |
| ***                                         | CR<br>12112/92<br>UG/M3   | 0.005<br>0.005<br>0.002<br>0.003         | 0 <b>.</b> 004<br>58 | orubres -∻*                                                                                      | SOCIUM<br>12184/92<br>UG/M3    |
| *****                                       | CD<br>12110/92<br>UG/M3   | 0.0019<br>0.0021<br>0.0014               | 0.0016<br>58         | ¢- WATER SI                                                                                      | AMMUN IUM<br>12301/91<br>UG/M3 |
| **<br>+ + + + + + + + + + + + + + + + + + + | BE<br>12105/92<br>UG/M3   | 30L<br>80L<br>80L<br>80L                 | 0•0001<br>58         | - <del>0</del> +                                                                                 | SULFATE<br>12403/92<br>UG/M3   |
| 20 +                                        | AL<br>12101/92<br>UG/M3   |                                          |                      | 0<br>0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | NITRATE<br>12306/92<br>UG/M3   |
| *                                           | QUARTER                   | FIRST<br>SECOND<br>THIRD<br>FUURTH       | YEA? AVG<br>COUNT    | •                                                                                                | ូUARTER                        |

Table 10, Continued

12.01

65 62 57 39

9.50 9.70 9.60 8.60

0.08 0.03 0.15 0.15

5.01 7.14 9.98 2.83

4•06 5•79 1•87 1•35

FIRST SECOND THIRD FOURTH 9°21 58

0.09 58

6.25 58

3°21 58

YEAR AVG COUNT

555 58

| PAGE                       |                      |
|----------------------------|----------------------|
| VTAL PROTECTICN 05/13/1982 | QUARTERLY COMPOSITES |
| OF ENVIRONMEN              | MONITCRING           |
| DEPARTMENT                 | <b>COMPLIANCE</b>    |
| CONNECTICUT                | AIR                  |

| PROJECT   | 10        |
|-----------|-----------|
| AGENCY    | L         |
| SITE      | C05       |
| AREA      | 1110      |
| TOWN NAME | STRATFORD |
| YEAR      | 1980      |

| /92<br>3                                                        |
|-----------------------------------------------------------------|
| 0.0031 0.0<br>0.0021 0.0<br>0.0016 0.0                          |
| 0.0020 0 58                                                     |
| *** WALCA SOLUGE<br>AMMONIUM SOCI<br>12301/91 1218<br>UG/M3 UG/ |
| 0.04<br>BDL<br>0.17<br>0.07                                     |
| 0.07<br>58                                                      |

Table 10, Continued

|                                    |                                                                                                  | U                            | DNNECTICUT<br>AIR             | DEPARTMEN<br>CUMPL IANCI    | T OF ENVIRU<br>E MONITCRIN                     | NMENTAL P<br>VG DUART                | PROTECTICN<br>TERLY COMPO                                                                       | 05/13/1982<br>ISTTES    |                                                                                             | PAGE 30                                                                                           |                                                                                 |
|------------------------------------|--------------------------------------------------------------------------------------------------|------------------------------|-------------------------------|-----------------------------|------------------------------------------------|--------------------------------------|-------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|
|                                    |                                                                                                  |                              | YEAR T<br>1980 T              | OWN NAME<br>CRRINGTON       |                                                | AREA S<br>1160 1                     | SITE AGENC<br>123 F                                                                             | Y PROJEC<br>01          | Ŧ                                                                                           |                                                                                                   |                                                                                 |
| Υ¢                                 | *<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+ | ↓                            |                               | ·☆                          | 774<br>- + + + + + + + + + + + + + + + + + + + | ≈ METALS ≎                           | 4<br> <br> | \$}<br>                 | 0<br> <br> <br> <br> <br> <br> <br> <br> <br> <br>                                          | 40<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+<br>+ | 80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>8 |
| QUARTER                            | AL<br>12101/92<br>UG/M3                                                                          | BE<br>12105/92<br>UG/M3      | CD<br>12110/92<br>UG/M3       | CR<br>12112/92<br>UG/M3     | CU<br>12114/92<br>UG/M3                        | FE<br>12126/92<br>UG/M3              | PB<br>12128/92<br>UG/M3                                                                         | MN<br>12132/92<br>UG/M3 | NI<br>12136/92<br>UG/M3                                                                     | v<br>12164/92<br>UG/M3                                                                            | ZN<br>12167/92<br>UG/M3                                                         |
| FIRST<br>SECOND<br>THIRD<br>FOURTH |                                                                                                  | 80L<br>80L<br>80L<br>80L     | 6000°0<br>6000°0<br>0°0000    | 0.005<br>0.004<br>0.004     | 0•19<br>0•21<br>0•26<br>0•19                   | 0 • 75<br>0 • 77<br>0 • 63<br>0 • 63 | 0 • 6 6<br>0 • 4 0<br>0 • 4 2<br>0 • 6 7                                                        | 0.017<br>0.017<br>0.014 | 0.001<br>0.004<br>0.004<br>0.004                                                            | 0 0 0<br>0 0 0<br>0 0 0<br>0 0<br>0 0<br>3                                                        | 0.12<br>0.05<br>0.69                                                            |
| YEAR AVG<br>CJUNT                  |                                                                                                  | 0•0001<br>59                 | 0.0009<br>59                  | 0.005<br>59                 | 0.21<br>59                                     | 0.72<br>59                           | 0 <b>.</b> 54<br>59                                                                             | 0.016<br>59             | 0 <b>.</b> 004<br>59                                                                        | 0.02<br>59                                                                                        | 0 <b>a</b> 29<br>44                                                             |
| ··                                 | (* * * * * * * * * * * * * * * * * * *                                                           | * * * - *:                   | ∷⇔- WATER S                   | orneres -*                  | ₩<br>₩<br>₩<br>₩<br>₩                          |                                      | ≎⇔BENZ SOL≉                                                                                     | \$<br>}                 | :⇔- TSP -\$                                                                                 | 42<br>                                                                                            | **<br>**<br>**<br>**                                                            |
| QUARTER                            | NITRATE<br>12306/92<br>UG/M3                                                                     | SULFATE<br>12403/92<br>UG/M3 | AMMONIUM<br>12361/91<br>UG/M3 | SODIUM<br>12184/92<br>UG/M3 | РН<br>12602/91<br>РН-UNITS                     |                                      | TDTAL<br>11103/91<br>UG/M3                                                                      |                         | ARITH AV<br>11101/91<br>UG/M3                                                               |                                                                                                   | APPRUX<br>SAMPLE<br>COUNT                                                       |
| FIRST<br>SECOND<br>THIRD<br>FOURTH | 2.87<br>3.01<br>1.40<br>1.78                                                                     | 3.69<br>4.08<br>9.70<br>4.23 | 0.02<br>60L<br>0.07<br>0.10   |                             | 9.60<br>9.90<br>9.30<br>9.50                   |                                      |                                                                                                 |                         | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |                                                                                                   | 15<br>15<br>15                                                                  |
| YEAR AVG<br>COUNT                  | 2°25<br>59                                                                                       | 5°45<br>59                   | 0°05<br>59                    |                             | 9°57<br>59                                     |                                      |                                                                                                 | x                       | 58<br>59                                                                                    |                                                                                                   |                                                                                 |

| PAGE 31                  |                      | 00 0 0 0 0 0 0                                                                                  | VI V ZN<br>36/92 12164/92 12167/92<br>/M3 UG/M3 UG/M3 | .002 BDL<br>.003 C.01 C.C9<br>.003 C.01 C.C9<br>.003 0.01 C.02<br>.003 0.02 0.31 | •003 0•01 0•14<br>60 60 45 | ss≎s                                                                                            | TH AV APPRCX<br>01/91 SAMPLE<br>/M3 COUNT | 34 15<br>36 15<br>32 15<br>17 15   | 30<br>60            |
|--------------------------|----------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------------------|----------------------------------------------------------------------------------|----------------------------|-------------------------------------------------------------------------------------------------|-------------------------------------------|------------------------------------|---------------------|
| 5/13/1982<br>ITES        | PROJECT<br>03        | ·\$                                                                                             | MN<br>12132/92 121<br>UG/M3 UG                        | 0 004<br>0 006<br>0 006<br>0 006<br>0 006                                        | 0•005<br>60                | <br>                                                                                            | AR1<br>111<br>UC                          |                                    | Ţ                   |
| RDTECTION O              | ITE AGENCY<br>01 F   | **<br>**<br><br>*                                                                               | РВ<br>12128/92<br>UG/M3                               | 0.13<br>0.11<br>0.11<br>0.08                                                     | 0•11<br>60                 | :⇔BENZ SCL ¢≎                                                                                   | T0TAL<br>11103/91<br>UG/M3                |                                    |                     |
| JNMENTAL PI<br>NG QUARTI | AREA S<br>1205 C     | ⇔ METALS ≉                                                                                      | FE<br>12126/92<br>UG/M3                               | 0.12<br>0.11<br>0.27<br>0.07                                                     | 0°14'<br>60                | ¥                                                                                               |                                           |                                    |                     |
| T OF ENVIR<br>E MCNITCRI |                      | 0<br> <br> <br> <br> <br> <br> <br> <br> <br> <br>                                              | CU<br>12114/92<br>UG/M3                               | 0 • 14<br>0 • 15<br>0 • 14<br>0 • 05                                             | 0 • 1 2<br>6 0             |                                                                                                 | РН<br>12602/91<br>РН-UNITS                | 9•70<br>9•90<br>9•80<br>9•80       | 9 <b>.</b> 72<br>60 |
| COMPLIANC                | OWN NAME<br>Oluntown | 公<br> <br> | CR<br>12112/92<br>UG/M3                               | 0.002<br>0.002<br>0.002<br>0.002                                                 | 0•002<br>60                |                                                                                                 | SODIUM<br>12184/92<br>UG/M3               |                                    |                     |
| DNNECTICUT<br>AIR        | YEAR TI<br>1980 V    | 00000000000000000000000000000000000000                                                          | CD<br>12110/92<br>UG/M3                               | 0.0006<br>0.0016<br>0.00055<br>0.0005                                            | 0°0008<br>60               | **- WATER                                                                                       | AMMONIUM<br>19/101/91<br>06/M3            | 0.02<br>8DL<br>0.07<br>0.10        | 0°05<br>60          |
| Ŭ                        |                      | *****                                                                                           | BE<br>121C5/92<br>UG/M3                               | . 80L<br>80L<br>0.0001<br>80L                                                    | 09<br>1000°0               | ÷<br>                                                                                           | SULFATE<br>12403/92<br>UG/M3              | 1.34<br>2.35<br>11.95<br>4.57      | 5°05<br>60          |
|                          |                      | :                                                                                               | AL<br>12101/92<br>UG/M3                               |                                                                                  | •                          | 0<br> <br> | NITRATE<br>12306/92<br>UG/M3              | 3°52<br>2°87<br>2°10<br>2°10       | 2.68<br>60.         |
|                          |                      | ÷                                                                                               | DUARTER                                               | FIRST<br>SECOND<br>THIRD<br>FJURTH                                               | YEAR AVG<br>COUNT          |                                                                                                 | QUARTER                                   | FIRST<br>SECOND<br>THIRD<br>FOURTH | YEAR AVG<br>Count   |

| \$<br>X                                                                                         |                          |                                      |                    | \$3<br>\$3                             |                               |                                                                                                  |                         |
|-------------------------------------------------------------------------------------------------|--------------------------|--------------------------------------|--------------------|----------------------------------------|-------------------------------|--------------------------------------------------------------------------------------------------|-------------------------|
| ₩<br> <br> <br> <br> <br> <br> <br> <br> <br> <br>                                              | ZN<br>12167/92<br>UG/M3  | 0°10<br>0°66<br>1°23                 | 0•37<br>40         |                                        | AP PR OX<br>SAMPLE<br>COUNT   | 15<br>16<br>16<br>10                                                                             |                         |
|                                                                                                 | V .<br>12164/92<br>UG/M3 | 0.01<br>0.01<br>0.03<br>0.03         | 0+02               | 45                                     |                               |                                                                                                  |                         |
|                                                                                                 | NI<br>1.2136/92<br>UG/M3 | 0.007<br>0.006<br>0.009<br>0.009     | 0.008<br>55        | ¢- TSP -≎                              | ARITH AV<br>11101/91<br>UG/M3 | 8<br>8<br>8<br>9<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 5.0                     |
| 01                                                                                              | MN<br>12132/92<br>UG/M3  | 0.031<br>0.012<br>0.014<br>0.014     | 0.018<br>55        | ÷.                                     | -                             |                                                                                                  |                         |
| )] F                                                                                            | PB<br>12128/92<br>UG/M3  | 0 • 6 6<br>0 • 3 8<br>0 • 4 4<br>5 5 | 0 • 20<br>2 2      | ¢BENZ SOL⇒                             | TOTAL<br>11103/91<br>UG/M3    |                                                                                                  |                         |
| 1210 CC                                                                                         | FE<br>12126/92<br>UG/M3  | 0 • 80<br>0 • 39<br>0 • 54<br>8 4    | 0 • 5 8<br>5 5     |                                        |                               |                                                                                                  |                         |
| **<br> <br>     | CU<br>12114/92<br>UG/M3  | 0.14<br>0.14<br>0.19<br>0.32         | 0•19<br>55         | *                                      | РН<br>12602/91<br>РН-UNITS    | 9.00<br>10.00<br>9.00<br>9.40                                                                    | 9<br>• 5<br>5<br>5<br>5 |
| LL INGFORD                                                                                      | CR<br>12112/92<br>UG/M3  | 0.006<br>0.003<br>0.003<br>0.003     | 0 • 004<br>55      | OLUBLES -≎:                            | SDDIUM<br>12184/92<br>UG/M3   |                                                                                                  |                         |
| 1980 WA                                                                                         | CD<br>12110/92<br>UG/M3  | 0.0013<br>0.0001<br>0.0008<br>0.0008 | 0.0008<br>55       | ¢- WATER SI                            | AMMONIUM<br>12301/91<br>UG/M3 | 0.05<br>80L<br>0.16<br>0.06                                                                      | 0.07                    |
|                                                                                                 | BE<br>12105/92<br>UG/M3  | 80L<br>80L<br>80L<br>80L             | 0•0001<br>55       | ······································ | SULFATE<br>12403/92<br>UG/M3  | 3.35<br>3.16<br>5.28<br>0.48<br>0.48                                                             | ດ<br>ເກ<br>ເກ           |
| 0<br> <br> | AL<br>12101/92<br>UG/M3  |                                      |                    |                                        | NITRATE<br>12306/92<br>UG/M3  | 5.38<br>5.22<br>646<br>2.46<br>2.46                                                              | 3•76<br>55              |
| ŏ                                                                                               | QUARTER                  | FIRST<br>SECOND<br>THIRD<br>FOURTH   | Y EAR AVG<br>COUNT | · #                                    | QUAR TER                      | FIRST<br>SECOND<br>THIRD<br>FOURTH                                                               | YEAR AVG<br>COUNT       |

CONNECTICUT UEPARTMENT DF ENVIRONMENTAL PROTECTION 05/13/1982 AIR COMPLIANCE MONITORING QUARTERLY COMPOSITES

PRUJECT

AGENCY

SITE

AREA

TOWN NAME

YEAR

PAGE 32

Table 10, Continued

[

|                                    |                                       | U                            | ONNECTICUT<br>AIR                                                                               | UEPARTMEN<br>COMPLIANCI          | T OF ENVIRO<br>E MONITORIN                                                                   | NMENTAL PR<br>G QUARTE       | RLY COMPO                                                                                       | 05/13/1982<br>SITES                                                                              |                                                                                                   | PAGE 33                      |                                           |
|------------------------------------|---------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------|----------------------------------|----------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|------------------------------|-------------------------------------------|
|                                    |                                       |                              | YEAR T<br>1980 W                                                                                | OWN NAME<br>Aterbury             |                                                                                              | AREA 51<br>1240 00           | ITE AGENC                                                                                       | Y. PROJEC<br>01                                                                                  | Т                                                                                                 |                              |                                           |
| 24                                 | 0<br>                                 | \$<br>                       | 5<br> <br> |                                  | **<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>*<br>* | METALS #:                    | 1<br> <br> | 4)<br> <br> | 43<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |                              |                                           |
| QUAR TER                           | AL<br>12101/92<br>UG/M3               | BE<br>12105/92<br>UG/M3      | CD<br>12110/92<br>UG/M3                                                                         | CR<br>12112/92<br>UG/M3          | CU<br>12114/92<br>UG/M3                                                                      | FE<br>12126/92<br>UG/M3      | PB<br>12128/92<br>UG/M3                                                                         | MN<br>12132/92<br>UG/M3                                                                          | NI<br>12136/92<br>UG/M3                                                                           | V<br>12164/92<br>UG/M3       | ZN<br>12167/92<br>-UG/M3                  |
| FIRST<br>SECOND<br>THIRD<br>FJURTH |                                       | 300001<br>300001<br>300001   | 0.0027<br>0.0125<br>0.0049<br>0.0069                                                            | 0.016<br>0.018<br>0.008<br>0.008 | 0.38<br>0.28<br>0.61<br>0.43                                                                 | 0.94<br>1.24<br>0.77<br>0.52 | 0.62<br>0.41<br>0.44                                                                            | 0.030<br>0.036<br>0.019<br>0.019                                                                 | 0.007<br>0.027<br>0.013<br>0.012                                                                  | 0.02<br>0.01<br>0.02<br>0.02 | 0.32<br>0.13<br>0.19                      |
| YEAR AVG<br>CJUNȚ                  | •                                     | 0•0001<br>59                 | 0.0069<br>59                                                                                    | 0.012<br>59                      | 0•43<br>59                                                                                   | 0.86<br>59                   | 0-50<br>59                                                                                      | 0.025<br>59                                                                                      | 0.015<br>59                                                                                       | 0• 02<br>59                  | 0 <b>.</b> 21<br>46                       |
| 'n                                 |                                       | * • • • • • * *              | ⇔- WATER S                                                                                      | ornares -*                       | \$<br>\$<br>\$                                                                               | *                            | ¢BËNZ SOL¢                                                                                      | *                                                                                                | *- TSP -*                                                                                         | *                            | 800 ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( |
| QUARTER                            | NITRATE<br>12306/92<br>UG/M3          | SULFATE<br>12403/92<br>UG/M3 | AMMUNUMA<br>12301/91<br>UG/M3                                                                   | SODIUM<br>12184/92<br>UG/M3      | РН<br>12602/91<br>РН-UNITS                                                                   |                              | T0TAL<br>11103/91<br>UG/M3                                                                      | <b>.</b> .                                                                                       | ARITH AV<br>11101/91<br>UG/M3                                                                     |                              | APPROX<br>SAMPLE<br>COUNT                 |
| FIRST<br>SECOND<br>THIRD<br>FOURTH | 3 • 1 1<br>2 • 80<br>1 • 91<br>1 • 25 | 2.61<br>6.89<br>9.56<br>4.23 | 0.02<br>8DL<br>0.16<br>0.16                                                                     |                                  | 9°30<br>10°00<br>9°40<br>9°20                                                                |                              |                                                                                                 |                                                                                                  | Ф<br>Ф<br>М<br>Ф<br>Ф<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С<br>С  |                              | 13<br>166<br>116                          |
| YEAR AVG<br>CJUNT                  | 2°23<br>59.                           | 5°99                         | 0°09<br>59                                                                                      |                                  | 9°59<br>59                                                                                   |                              |                                                                                                 |                                                                                                  | 56                                                                                                |                              |                                           |

95

.

| 34                        |                        | ****                                                                  | ZN<br>4/92 12167/92<br>83 UG/M3    | • 02<br>• 02 0• 25<br>• 02 0• 33<br>• 03 0• 27 | 1•02 0•28<br>30 23   | ***                | APPRCX<br>SAMPLE<br>COUNT      | - α ω -                                                                           |          |
|---------------------------|------------------------|-----------------------------------------------------------------------|------------------------------------|------------------------------------------------|----------------------|--------------------|--------------------------------|-----------------------------------------------------------------------------------|----------|
| PAGE                      | F                      | ***********                                                           | NI V<br>12136/92 1216<br>UG/M3 UG/ | 0.009<br>0.010<br>0.007<br>0.009<br>0.009      | 0•009<br>30          | +⇔+<br>- 1 S T +⇔⇒ | ARITH AV<br>11101/91<br>UG/M3  | 77<br>72<br>57<br>52                                                              | 65<br>20 |
| 05/13/1932<br>JSITES      | CY PROJEC<br>01        | 0<br>                                                                 | MN<br>12132/92<br>UG/M3            | 0.02 <sup>a</sup><br>0.025<br>0.019<br>0.016   | 0.022<br>30          | 44<br>44           | _                              |                                                                                   |          |
| PROTECTION<br>Terly compe | SITE AGENO<br>123 F    |                                                                       | PB<br>12128/92<br>UG/M3            | 1.07<br>0.92<br>0.78<br>0.92                   | 0.92<br>30           | ¢⇔BENZ SOL         | T0TAL<br>11103/91<br>UG/M3     |                                                                                   |          |
| RUNMENTAL<br>ING QUAR     | AREA<br>1240           | •⇔⇔ METALS                                                            | FE<br>12126/92<br>UG/M3            | 1.11.0.98<br>0.98<br>0.899<br>0.63             | 0.90                 | 45<br>45<br>1      | S                              |                                                                                   |          |
| INT OF ENVI               |                        |                                                                       | CU<br>2 12114/90<br>UG/M3          | 0 • 20<br>0 • 19<br>0 • 20<br>0 • 23           | 0 • 20               |                    | РН<br>12602/9<br>РН-UNIT       | 9 • 90<br>9 • 90<br>9 • 20                                                        | 9°20     |
| T JEPARTME<br>R CUMPLIAN  | TOWN NAME<br>Waterbury |                                                                       | CR<br>12112/91<br>UG/M3            | 0.022<br>0.014<br>0.014<br>0.017               | 0 <b>.</b> 017<br>30 | SOLUBLES           | M SADIUM<br>1 12184/9<br>UG/M3 |                                                                                   |          |
| DUNECTICU<br>AIF          | YEAR<br>1980           |                                                                       | CD<br>12110/92<br>UG/M3            | 0.0030<br>0.0036<br>0.0042<br>0.0022           | 0.0033<br>30         | ⇔⇔- WATER          | MMNUN<br>10110511- :<br>102003 | 0.02<br>8DL<br>0.20                                                               | 0.13     |
| U                         |                        | ¥                                                                     | BE<br>12105/92<br>UG/M3            | . BDL<br>BDL<br>0.001                          | 0.0001<br>30         |                    | SULFATE<br>124C3/92<br>UG/M3   | 4 • 0<br>• 9 9<br>• 9 9 0<br>• 5 8 8<br>• 5 3 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 | 7.23     |
|                           |                        | 40<br>   <br>   <br>   <br>   <br>   <br>   <br>   <br>   <br>   <br> | AL<br>1.2101/92<br>UG/M3           |                                                |                      |                    | NITRATE<br>12306/92<br>UG/M3   | 3.55<br>3.55<br>2.054<br>2.054<br>2.054                                           | 2 • 56.  |
|                           |                        | *                                                                     | QUARTER                            | FIRST<br>SECOND<br>THIRD<br>FOURTH             | YEAR AVG<br>COUNT    |                    | QUARTER                        | FIRST<br>SECOND<br>THIRD<br>FOURTH                                                | YEAR AVG |

|                      | PAGE                  |
|----------------------|-----------------------|
| DPUTELIAN OF/12/2000 | TEDIX CONDUCTION (985 |
| OF ENVIRONMENTAL     | MONITCRING OLIVE      |
| UEPARTMENT           | COMPLIANCE            |
| CONNECTICUT          | AIR                   |

| 5 | PRUJECT<br>02          |
|---|------------------------|
|   | AGENCY<br>F            |
|   | SITE<br>COI            |
|   | AREA<br>1260           |
|   | TOWN NAME<br>Waterford |
|   | Y E A R<br>1 980       |

| ¢\$<br>2N<br>12167/92<br>.UG/M3                               | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0•06<br>43        | ***<br>+ + + + + + + + + + + + | AP PROX<br>SAMPLE<br>COUNT     |                                      |                   |
|---------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------|--------------------------------|--------------------------------|--------------------------------------|-------------------|
|                                                               | 0 • 0 1<br>0 • 0 1<br>0 • 0 2<br>0 • 0 2<br>0 • 0 2                                         | 0•02<br>57        | •                              |                                |                                      |                   |
| ***<br>NI<br>I 2136/92<br>UG/M3                               | 0.002<br>0.003<br>0.005<br>0.005                                                            | 0.004<br>57       | - TSP -**                      | ARITH AV<br>11101/91<br>UG/M3  | 2 1 1 3<br>2 4 3<br>2 4 1 3          | 37<br>57          |
| *:<br>MN<br>12132/92<br>UG/M3                                 | 0.007<br>0.010<br>0.014<br>0.015                                                            | 0.009<br>57       | **                             | -                              |                                      | ·                 |
| ¢¢¢<br>РВ<br>12128/92<br>UG/M3                                | 0.16<br>0.15<br>0.22<br>0.13                                                                | 0°17<br>57        | ¢8ENZ SCL≎¢                    | TOTAL<br>11103/91<br>UG/M3     |                                      | -                 |
| <pre>     METALS      **     FE     12126/92     UG/M3 </pre> | 0.23<br>0.23<br>0.58<br>0.18                                                                | 0.34<br>57        | ÷.                             |                                |                                      |                   |
| *********************************                             | 0.11<br>0.00<br>0.05<br>0.05<br>0.08                                                        | 0.11              | 10                             | РН<br>12602/91<br>РН-UNITS     | 9 • 80<br>9 • 90<br>9 • 40<br>9 • 10 | 9•55<br>57        |
| «»<br>СR<br>12112/92<br>UG/M3                                 | 0.003<br>0.003<br>0.006<br>0.005                                                            | 0.004<br>57       | otuBLES -⇔                     | SGDIUM<br>12184/92<br>UG/M3    |                                      |                   |
| **<br>CD<br>12110/92<br>UG/M3                                 | 0.0009<br>0.0009<br>0.0007<br>0.0007                                                        | 0.0008<br>57      | ¢- WATER Si                    | AMMUNIUM<br>-12301/91<br>UG/M3 | 0.02<br>BDL<br>0.15<br>0.03          | 0°05<br>57        |
| ¢¢<br>ВЕ<br>12105/92<br>UG/M3                                 | . BDL<br>BDL<br>0.001<br>8DL                                                                | 0.001             | *                              | SULFATE<br>12403/92<br>UG/M3   | 2.18<br>3.26<br>6.94<br>3.10         | 3°92<br>57        |
| :¢¢<br>АL<br>12101/92<br>UG/M3                                |                                                                                             |                   | ÷÷                             | NITRATE<br>12306/92<br>UG/M3   | 3°46<br>4°61<br>1°66<br>1°52         | 2°79<br>57 ·      |
| QUARTER                                                       | FIRST<br>SECUND<br>THIRD<br>FOURTH                                                          | YEAR AVG<br>COUNT | *<br>*                         | JUAR TER                       | FIRST<br>SECOND<br>THIRD<br>FUURTH   | YEAR AVG<br>COUNT |

Table 10, Continued

| CTICN 05/13/1982 PAGE 36<br>Composites | AGENCY PROJECT<br>F 01 | ***************************************                      | PB MN NI V ZN<br>28/92 12132/92 12136/92 12164/92 12167/92<br>/M3 UG/M3 UG/M3 UG/M3 UG/M3 | 0.43         0.014         0.007         0.07         0.07           0.23         0.012         0.007         0.02         0.12           0.31         0.609         0.004         0.02         0.03           0.35         0.009         0.011         0.05         0.03 | 0-33 0-011 0-007 0-04 0-C6<br>60 60 60 60 60 45 | 42 SOL¢¢ ¢¢- TSP -¢¢ ¢¢≎¢                           | JTAL ARITH AV APPROX<br>103/91 11101/91 SAMPLE<br>5/M3 UG/M3 COUNT | 61 15<br>47<br>40 15<br>37 15        | 46<br>60          |
|----------------------------------------|------------------------|--------------------------------------------------------------|-------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------|--------------------------------------|-------------------|
| PAGE                                   |                        |                                                              | NI<br>2136/92 121<br>UG/M3 UG                                                             | 0.007<br>0.007<br>0.004<br>0.004                                                                                                                                                                                                                                          | 0.007<br>60                                     | TSP - **                                            | RITH AV<br>1101/91<br>UG/M3                                        | 441<br>940                           | 46<br>60          |
| 5/13/1982<br>ITES                      | PROJECT<br>01          | -<br>                                                        | MN<br>12132/92 T<br>UG/M3                                                                 | 0.014<br>0.012<br>0.009<br>0.009                                                                                                                                                                                                                                          | 0.011<br>60                                     | <br>                                                | ₹.₩                                                                |                                      |                   |
| RUTECTION O                            | ITE AGENCY<br>32 F     |                                                              | PB<br>12128/92<br>UG/M3                                                                   | 0.43<br>0.23<br>0.31<br>0.35                                                                                                                                                                                                                                              | 0•33<br>60                                      | ¢BENZ SOL¢≎                                         | TDTAL<br>11103/91<br>UG/M3                                         |                                      |                   |
| UNMENTAL PI                            | AREA 5<br>1410 CC      | ⇔ METALS 🕫                                                   | FE<br>12126/92<br>UG/M3                                                                   | 0.66<br>0.40<br>0.45<br>0.45<br>0.45                                                                                                                                                                                                                                      | 0•48<br>60                                      | *                                                   |                                                                    |                                      |                   |
| OF ENVIR                               |                        | 40<br>   <br>   <br>   <br>   <br>   <br>                    | CU<br>12114/92<br>UG/M3                                                                   | 0.10<br>0.27<br>0.43<br>0.17                                                                                                                                                                                                                                              | 0 • 24<br>60                                    |                                                     | РН<br>12602/91<br>РН-UNITS                                         | 9 - 80<br>9 - 90<br>9 - 40<br>9 - 40 | 9 • 60<br>60      |
| DEPARTMENT<br>COMPLIANCE               | JWN NAME<br>[LLIMANTIC |                                                              | CR<br>12112/92<br>UG/M3                                                                   | 0.004<br>0.004<br>0.002<br>0.002                                                                                                                                                                                                                                          | 0 • 004<br>60                                   | oruares -≎                                          | SUDIUM<br>12184/92<br>UG/M3                                        |                                      |                   |
| DNNEČTICUT<br>AIR                      | YEAR TC<br>1980 WJ     | ₩<br> <br> | CD<br>12110/92<br>UG/M3                                                                   | 0.0010<br>0.0007<br>0.0005<br>0.0005                                                                                                                                                                                                                                      | 0.0007<br>60                                    | *- WATER S                                          | AMMUNIUM<br>12301/91<br>UG/M3                                      | 0.02<br>0.01<br>0.03<br>0.03         | 0.03              |
| 33                                     |                        | ₩<br>\$<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1    | 8E -<br>12105/92<br>UG/M3                                                                 | 80L<br>80L<br>0.60J1<br>80L                                                                                                                                                                                                                                               | 0 • 0001<br>60                                  | 4)<br> <br> <br> <br> <br> <br> <br> <br> <br> <br> | SULFATE<br>12403/92<br>UG/M3                                       | 5°81<br>3°87<br>4°78<br>4°78         | 4<br>• 6<br>0 0   |
|                                        |                        | ×↔<br>   <br>   <br>   <br>   <br>   <br>   <br>             | AL<br>12101/92<br>UG/M3                                                                   |                                                                                                                                                                                                                                                                           |                                                 | 44<br>                                              | NITRATE<br>12306/92<br>UG/M3                                       | 4°73<br>4°73<br>1°52<br>2°19         | 3.07.<br>60       |
|                                        |                        | ů,                                                           | QUARTER                                                                                   | FIRST<br>SECOND<br>THIRD<br>FJURTH                                                                                                                                                                                                                                        | YEAR AVG<br>COUNT                               | *                                                   | QUARTER                                                            | FIRST<br>SECJND<br>THIRD<br>FJURTH   | YEAR AVG<br>COUNT |

- 11 e -

Table 10, Continued

|                          |                      | **                                                                                          | ZN<br>12167/92<br>UG/M3  |                              | 0.• 10       | 0.05<br>0.05 | 0.05    | 0.02           | 0.04                 | 0 • 05<br>0 • 04 | 0-05     | 10    | 889<br>                                                            |          | SAMPLE               |                     |       | اسو ا | <b>1</b> -                 | 4 pa                    | r-1 -        |          |                      | <b>4</b><br>- |                     |
|--------------------------|----------------------|---------------------------------------------------------------------------------------------|--------------------------|------------------------------|--------------|--------------|---------|----------------|----------------------|------------------|----------|-------|--------------------------------------------------------------------|----------|----------------------|---------------------|-------|-------|----------------------------|-------------------------|--------------|----------|----------------------|---------------|---------------------|
| PAGE 1                   |                      | 2<br> <br>                      | v<br>12164/92<br>UG/M3   | 0•02<br>0•03<br>0•03         | 0.02         | 0.01<br>20L  | 0.03    | 0.02           | 0.03                 | 0.03             | 0-02     | 12    | ¥.                                                                 |          |                      |                     |       |       |                            |                         |              |          |                      |               |                     |
|                          |                      | 0<br> <br> <br> <br> <br> <br> <br>                                                         | NI<br>12136/92<br>UG/M3  | 0.002                        | 0.006        | 0.003        | 0-005   | 0.004          | 0-004                | 0.005<br>0.006   | 0•004    | 12    | *- TSP -*                                                          | APTIH AV | 11101/00<br>UG/M3    | 39                  | 1 4   | 11    | 4 0<br>7 8                 | 4 1<br>1<br>1<br>1<br>1 | 26.<br>33    | 23       | 24                   | 05            | 37<br>12            |
| 5/14/1982<br>EDIT        | PROJECT<br>01        | ₩<br>数<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                    | MN<br>12132/92<br>UG/M3  | 0.009<br>0.011<br>0.008      | 0.010        | 0.006        | 0.009   | 0.036<br>0.009 | 0.006                | 0.006<br>0.006   | 0.038    | 12    |                                                                    |          |                      |                     |       |       |                            |                         |              |          |                      |               |                     |
| JTECTICN D<br>TSP DATA   | TE AGENCY<br>E F     | **<br>**<br>* * *                                                                           | PB<br> 2128/92<br>UG/M3  | 0.18<br>0.19<br>0.09         | 0.24         | 0.09         | 0.16    | 0.13           | 0.18                 | 0.18<br>C.16     | 0.16     | 12    | BENZ SOL≉≎                                                         | TUTAI    | 11103/91<br>UG/M3    |                     |       |       |                            |                         |              |          |                      |               |                     |
| NMENTAL PRO<br>G LO VCL  | AREA SI<br>0520 CO   | METALS ***                                                                                  | FE<br>12126/92<br>UG/M3  | 0°36<br>0•48<br>0°77         | 0.33         | 0.20         | 0.34    | 0•42<br>0•42   | 0.23                 | 0.22<br>0.29     | 0.30     | 12    | *                                                                  |          |                      |                     | •     |       |                            |                         |              |          |                      |               |                     |
| OF ENVIRO<br>MONITCRIN   |                      | ☆☆<br>                                                                                      | CU<br>12114/92.<br>UG/M3 | 10°0<br>10°0                 | BCL          | 80L          | 0.01    | BOL            | 0.01                 | 0.01             | 0.01     | 12    | ↔<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓<br>↓ | Нd       | 12602/91<br>PH-UNITS | 9.60<br>0.50        | 9.60  | 9.70  | 9.80<br>9.80               | 6<br>9                  | 8•90<br>8•50 | 9.20     | 9.20<br>6.20         | 00.00         | 9.39                |
| DEPARTMENT<br>COMPLIANCE | JWN NAME<br>INSFIELD | 4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4 | CR<br>12112/92<br>UG/M3  | 0.002<br>0.003<br>0.003      | 0.006        | 0.002        | 0.001   | 100.0          | 0.002                | 0.002<br>0.002   | 0,002    | 12    | r⇔- Siustes                                                        | Sontum   | 12184/92<br>UG/M3    |                     |       |       |                            |                         |              |          |                      |               |                     |
| NNECTICUT<br>AIR         | YEAR TC<br>1980 M    |                                                                                             | CD<br>12110/92<br>UG/M3  | · 0.0005<br>0.0010<br>0.0003 | 0.0006       | 0.0003       | .0.0006 | 0.0005         | 0.0007               | 0.0006           | 0-0005   | 12    | *- WATER SI                                                        | AMMONIUM | 12301/91<br>UG/M3    | 0.06                | 0.01  | 0.61  | BDL                        | 0 • 0.5                 | 0•09<br>0•11 | 0.14     | 0.01                 | +<br>•<br>•   | 0.05                |
| C                        |                      | ¢%                                                                                          | BE<br>12105/92<br>UG/M3  | BDL<br>BDL<br>BDL            | 8DL<br>ADI   | BCL          | 80L     | BDL            | BDL                  | eur<br>eor       | 0 • 0000 | 12    | **                                                                 | SULFATE  | 12403/92<br>UG/M3    | 4 e 6 5<br>2 a 2    | 1.36  | 11-11 | 4 • 50<br>5 • 90<br>9 • 90 | 5.52                    | 5•71<br>5•71 | 3.88     | 9 ° 9 0              |               | 4 <b>.</b> 80<br>12 |
|                          |                      |                                                                                             | AL<br>12101/92<br>UG/M3  |                              | •            |              |         |                |                      |                  |          |       |                                                                    | NITRATE  | 12306/92<br>UG/M3    | 1 • 4 4<br>1 - 4 1  |       | 2.19  | 1。31<br>1。49               | 1.73                    | 0.58<br>1.79 | . 2 • 54 | 1.69<br>2.11         |               | 1.57<br>12          |
|                          |                      | 0<br>0                                                                                      | ADNTH                    | JANUARY<br>FEBRUARY<br>March | APRIL<br>MAY | JUNE         | JULY    | SEPTEMBER      | CCTOBER<br>A DVENSER |                  | YEAR AVG | COUNT | *                                                                  |          | жОNТН                | JANUARY<br>Ferruary | MARCH | APRIL | 4 A Y<br>L C N E           | JULY                    | SEPTEMBER    | OCTOBER  | NUVENER<br>DECENSION |               | YEAR AVG<br>CJUNT   |

Table 11 Monthly Chemical Characterization of Lo-Vol TSP, 1980

|                          |                    |                                        | ZN<br>67/92<br>/M3            | 0.05                                                                        | 0,=08      | 0.05   | 0.04           | 0.02   |           | 0.04                 | 0•03     | 0.04              | ***                                                                                              | P P R O X<br>A M P L E<br>O U N T |         | -44      | I              |           |                  | -1 -   |                        | 1 F      | 4        |                     |
|--------------------------|--------------------|----------------------------------------|-------------------------------|-----------------------------------------------------------------------------|------------|--------|----------------|--------|-----------|----------------------|----------|-------------------|--------------------------------------------------------------------------------------------------|-----------------------------------|---------|----------|----------------|-----------|------------------|--------|------------------------|----------|----------|---------------------|
| 3Е. 2                    |                    | ●                                      | v<br>.2164/92 121<br>UG/M3 UG | 0-01<br>0-02<br>.02                                                         | 0.02       | 0.01   | 0.02           | 0.02   | 20-0      | 0.02                 | 0.05     | 0.02<br>12        | 1<br>1<br>4<br>4<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | Υ                                 |         |          |                |           |                  |        |                        |          |          |                     |
| ۷d                       |                    |                                        | NI<br>12136/92 1<br>UG/M3     | 0-005                                                                       | 0.003      | 0.004  | 0.006          | 0.007  |           | 0.005                | 0.007    | 0.005             | ⇔- TSP -⊹⊹                                                                                       | ARITH AV<br>11101/00<br>UG/M3     | 48      | 59<br>47 | 35             | 47<br>42  | 4<br>1<br>1<br>1 | 32     | 2 4<br>2 4             | 27       | 90       | 41<br>12            |
| 5/14/1982<br>EDIT        | PROJECT<br>01      | · Η.                                   | MN<br>12132/92<br>UG/M3       | 0.009                                                                       | 0.009      | 0.015  | 0.007          | 0,009  |           | 0.006                | 0.013    | 0.009<br>11       | *                                                                                                |                                   |         |          |                |           |                  |        |                        |          |          |                     |
| DTECTICN 0<br>TSP DATA 1 | TE AGENCY<br>2 F   | *<br>*<br>*<br>*                       | PB<br>12128/92<br>UG/M3       | 0.26<br>0.23<br>1.7                                                         | 0.15       | 0.16   | 0.17           | 0-18   | 0.18      | 0.04                 | 0.25     | 0.19<br>12        | ×BENZ SOL☆☆                                                                                      | TCTAL<br>11103/91<br>UG/M3        |         |          |                |           |                  |        | •                      |          |          | ·                   |
| NMENTAL PR               | AREA SI<br>0900 CO | METALS **                              | FE<br>12126/92<br>UG/M3       | 0 • 4<br>• 5<br>• 5<br>• 5<br>• 5<br>• 5<br>• 5<br>• 5<br>• 5<br>• 5<br>• 5 | 0.11       | 0.41   | 0.28           | 0.31   | 0.13      | 0.24                 | 0.57     | 0.37<br>12        | *                                                                                                |                                   |         |          |                |           |                  |        |                        | •        |          |                     |
| OF ENVIRO<br>MONITCRIN   |                    | **<br>**<br>*<br>*<br>*<br>*<br>*<br>* | CU<br>12114/92<br>UG/M3       | 80ר<br>סיסי                                                                 | 80 F       | BDL    |                | 0.01   | BCL       | 80L<br>0.01          | 0.01     | 0.01              | ******                                                                                           | РН<br>12602/91<br>РН-UNITS        | 9°20    | 9°20     | 9.70           | 9.60<br>6 | 9°-70            | 8.30   | 9 - 20<br>- 80<br>- 80 | 01.6     | 7.30     | 9 <b>.</b> 26<br>12 |
| DEPARTMENT<br>COMPLIANCE | WN NAME<br>TNAM    | ₩                                      | CR<br>12112/92<br>UG/M3       | 0 - 004<br>0 - 005<br>0 - 005                                               | 0.003      | 0.002  | 0.003<br>0.001 | 0.004  | 0.004     | 0.003                | 0.005    | 0.003<br>12       | arubLES -≉*                                                                                      | SODIUM<br>12184/92<br>UG/M3       |         |          | •              | •         |                  |        |                        |          |          |                     |
| NWECTICUT<br>AIR         | YEAR TO<br>1980 PU |                                        | CD<br>12110/92<br>UG/M3       | .0.0005<br>0.0008                                                           | 0.0005     | 0.0008 | 0.000 0        | 0.0005 | 0=0004    | 6000°0               | 0.0006   | 0.0006<br>12      | - WATER SI                                                                                       | AMMUNIUM<br>12301/91<br>UG/M3     | 0.07    | 0.06     |                | 0.03      | 0.01             | 0.10   | 0.06                   | 0.05     | 0.17     | 0.06<br>12          |
| CO                       |                    | **                                     | BE<br>12105/92<br>UG/M3       | 80L<br>30L                                                                  | вUL<br>bDL | BDL    | 80L<br>3DI     | BDL    | SDL       | BCL                  | BDL      | 0.0030<br>12      | ****                                                                                             | SULFATE<br>12403/92<br>UG/M3      | 3.59    | 4 • 39   | 2°-70<br>77.7  | 5.95      | 7 • 4 8          | 5 • 81 | 4 °11<br>4 54          | 4 • 2 8  | 4.62     | 5.10                |
|                          |                    | 0<br>0<br>1<br>1<br>1<br>1             | AL<br>12101/92<br>UG/M3       |                                                                             | •          |        |                |        |           |                      |          |                   | **                                                                                               | NITRATE<br>12306/92<br>UG/M3      | 1.56    | 1.70     | 87°1 .         | 1.72      | 1.44             | 0.27   | 0.41                   | 2.27     | 3.47     | 1 • 75<br>12        |
|                          |                    | 6<br>0                                 | MONTH                         | JANUARY<br>February                                                         | APRIL      | YAY    |                | AUGUST | SEPTEMBER | OC TOBER<br>NOVENAED | DECEMBER | YEAR AVG<br>COUNT | **                                                                                               | MCNTH                             | JANUARY | FEBRUARY | MARCH<br>ADDII | MAY       |                  | AUGUST | SEPTEMBER              | NOVEMBER | DECEMBER | YEAR AVG<br>COUNT   |

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Table 11, Continued

| CONNECTICUT DEPARTMENT OF ENV.    | I ROMENTAL P               | ROTECTIO          | 7                       |                      | PAGE                    | খ                    |                                      |                | AIR COMPI                                                                                        | LIANCE ENG                 | INEERING                                                            |
|-----------------------------------|----------------------------|-------------------|-------------------------|----------------------|-------------------------|----------------------|--------------------------------------|----------------|--------------------------------------------------------------------------------------------------|----------------------------|---------------------------------------------------------------------|
| POLLUTANTTOTAL SUSPENDED PA       | 195<br>RTICULATES          | IO TEN HI         | GHEST 24                | HR AVG TSP           | DAYS WIT                | D QNIM H             | ATA.                                 | UMITS : 1      | <b>WICROGRAM</b>                                                                                 | S PER CUBI                 | C METER                                                             |
| TOWN NAME SI                      | TE SAMPLES                 | •                 | N                       | (7)                  | থ                       | 'n                   | Q                                    | 7              | Ø                                                                                                | თ                          | 0                                                                   |
| ANSONIA                           | 3 103<br>7475              | 161<br>3/21/90    | 153<br>19/20/80         | 130<br>17/80         | 129<br>1/ 7/80          | 115<br>1/10/80       | 115<br>2/18/80                       | 111<br>3/ 4/80 | 3/ 7/80                                                                                          | 100<br>2/24/80             | 100<br>3/10/80                                                      |
| METEORDLOGICAL SITE<br>NEWARK     | DIR (DEG)<br>Vel (MPH)     | 200<br>300<br>6.5 | 310                     | 12.1                 | 210                     | 270                  | 250                                  | 230            | 100                                                                                              | 3.1                        | 130                                                                 |
|                                   | SPD (MPH)                  | 9.3<br>603        | 12.8                    | 12.8<br>0 048        | 13.9<br>0 067           | 8.2<br>0 778         | 11.8<br>0 078                        | 12.7<br>D.940  | 9.1<br>D.861                                                                                     | 9.2<br>0.337               | 0.630<br>0                                                          |
| METEOROLOGICAL SITE               | DIR (DEG)                  | 330               | 310                     | 340                  | 210                     | 250                  | 210                                  | 240            | 210                                                                                              | 190                        | 06                                                                  |
| BRADLEY                           | VEL (MPH)                  | 6.8<br>7.5        | 6.0                     | 0.0<br>- 0           | 0,00                    | 2.7<br>6.5           | 6.2<br>7.0                           | 4 N<br>4 N     | 6.3<br>0.3                                                                                       | 9.7<br>9.7                 | ບ ດ<br>ວ ອ                                                          |
|                                   | RATIC                      | <b>0</b> .905     | 0.941                   | 0.844                | 0.943                   | 0.412                | 0.879                                | 0.810          | 0.503                                                                                            | 0.649<br>0.6               | 0.823                                                               |
| METEOROLOGICAL SITE<br>BDIACEDADT | DIR (DEG)                  | 320<br>6.7        | 300                     | 320<br>13.3          | 230<br>19.8             | 280<br>4 2           | 15.50<br>15.50                       | 240<br>10.3    | 210<br>6.2                                                                                       | 5.1<br>5.1                 | ວ<br>ເນ<br>− ເດ                                                     |
|                                   | SPD (MPH)                  | 9.2               | 10.9                    | 13.5                 | 20.7                    | 100<br>00            | 15.7                                 | 11.6           | ທີ່<br>ເຄີ                                                                                       | 7.8                        | ເສ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ |
| 2111 EODOL OCTOR                  | RATIC                      | 0.723             | 0.942                   | 0.984<br>210         | 0.956                   | 0.432                | 0.989<br>วิคับ                       | 0.888<br>260   | 0.657<br>230                                                                                     | 260                        | 210                                                                 |
| WEIEUKULUGICAL SIIE<br>WORCESTER  | VEL (MPH)                  | 8.2               | 0.9                     | ວ.<br>ຕຸ             | 5,67                    | 4                    | 10.5                                 | 8.2            | 0<br>0<br>0<br>0                                                                                 | 2.5                        | 6                                                                   |
|                                   | SPD (MPH)                  | 10.1              | 9.0<br>0.0              | 0.0<br>0.0           | 10.5<br>0 074           | ດ<br>ເມີຍ<br>ເມືອ    | 10.8<br>979                          | 8.3<br>979     | 0.3<br>0.48                                                                                      | 4.7<br>0.533               | 7.20.873                                                            |
|                                   | IN TO                      | 010.0             | - A0A                   |                      |                         |                      |                                      |                |                                                                                                  |                            |                                                                     |
| BERLIN                            | 1 56<br>DATE               | 70<br>2721/80     | 64<br>8/1/80            | 62<br>7/ 2/80        | 59<br>6/ 2/80           | 56<br>6/26/80        | 54<br>6/14/80                        | 54<br>12/23/80 | 50<br>4/27/80                                                                                    | 48<br>5/3/80               | 3/ 4/80                                                             |
| METEOROLOGICAL SITE               | DIR (DEG)                  | 300               | 180                     | 220                  | 240                     | 170                  | 150                                  | 330            | 80                                                                                               | 280                        | 230                                                                 |
| NEWARK                            | ( VEL (MPH)                | 0.0<br>0.0        | 6.<br>1                 | 2.7                  | 10.1                    | ດ.ບ<br>ດີ            | 0<br>1<br>1<br>1<br>1<br>1<br>1      | 00 0<br>u      | 00 C<br>07 U                                                                                     |                            | 5                                                                   |
|                                   | SPD (MPH)                  | 9.9<br>603        | 2 8 2<br>2 2 2<br>2 2 2 | 10.5<br>27.4         | 0.01<br>0.060           | 0 879<br>0           | 0.363                                | a.261          | 0.837                                                                                            | 0.712                      | 0.940                                                               |
| WETEORDLOGICAL SITE               | DIR (DEG)                  | 0000              | 200                     | 200                  | 210                     | 200                  | 60                                   | 160            | 50                                                                                               | 260                        | 240                                                                 |
| BRADLEY                           | VEL (MPH)                  | 9<br>8            | 4.1                     | 7.5                  | ອງ<br>ເ                 | 1.01                 | ດ.<br>ເຊິ່                           | 0.0<br>0.0     | ຕຸ<br>ທຸ                                                                                         | 0 u<br>0 u                 | ช บ<br>ช                                                            |
|                                   | SPD (MPH)                  | 7.5<br>005        | 0.0<br>134              | 9.7<br>946           | 4 0<br>7 7 7 7<br>7 7 7 | 10.5<br>0            | 0.63.0                               | 0,996          | 0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 0.359                      | 0.810                                                               |
| METEORDLOGICAL SITE               | DIR (DEG)                  | 320               | 140                     | 170                  | 230                     | 210                  | 200                                  | 340            | 70                                                                                               | 210                        | 240                                                                 |
| BRIDGEPORI                        | r vel (MPH)                | 6.7               | 4.4                     | 6.6                  | 7.0                     | 10.6                 | 1.7                                  | ດ.<br>ເ        | 12.8                                                                                             | 7.7                        |                                                                     |
|                                   | SPD (MPH)                  | 0.0               | 0.2<br>0.7              | 8.8<br>77.7          | 0 7.0<br>015            | 11.6<br>0 907        | 0<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 0.526          | 0.896                                                                                            | 0.815<br>5                 | 0.888                                                               |
| METEDROLOGICAL SITE               | DIR (DEG)                  | 310               | 210                     | 220                  | 270                     | 240                  | 00                                   | 200            | 60                                                                                               | 300                        | 260                                                                 |
| WORCESTER                         | R VEL (MPH)                | 8.2               | 4.9                     | 8°0                  | 1 • 1                   | 7.7                  | ب<br>م                               | เง             | ດ<br>ທີ່ເ                                                                                        | 00<br>4 C                  | 200                                                                 |
|                                   | SPD (MPH)                  | 10.1<br>818       | 5.6<br>7,883            | 0.929<br>0.929       | 4.2                     | 7.9<br>0.976         | 5.3<br>0.280                         | 5.5<br>0.697   | 0.93G                                                                                            | 0.698                      | 0.978                                                               |
|                                   | 27.44                      | )<br><br>•        |                         |                      |                         |                      |                                      | 1              | ł                                                                                                | Ē                          | 20                                                                  |
| BRIDGEPORT                        | 1 55<br>7816               | 124°              | 101<br>6/ 2/80          | 100<br>7/20/80       | 89<br>5/21/80           | 86<br>8/ 1/80        | 79<br>6/14/80                        | 3/ 4/80        | د/<br>7/ 2/80                                                                                    | 7/ 8/80                    | 3/10/80                                                             |
| METEOROLOGICAL SITE               | DIR (DEG)                  | 300               | 240                     | 230                  | 20                      | 180                  | 150                                  | 230            | 220                                                                                              | 230                        | 130                                                                 |
| . NEWARI                          | K VEL (MPH)                | 6.5<br>1          | 10.2                    | 10.8                 | 12,4                    | 4.<br>0.1            | 69 U                                 | 0, r           | 2.7                                                                                              | - 5                        | ກ ເ<br>ດ ເ                                                          |
|                                   | SPD (MPH)                  | ຕາ (<br>ດີ<br>ເ   | 10.5                    | 2.11.2               | 4.00                    | 0.0<br>0.0<br>0<br>0 | 0.7<br>0                             |                | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1      | 0.811                      | 0,639                                                               |
|                                   | RATIC                      | 0.0C              | 0.969                   | 0. 304               | 072.0                   | 1000                 | 507.0<br>000                         | 040<br>040     | 200                                                                                              | 230                        | 190                                                                 |
| BRALFURULUGICALAL                 | ע ביז ליוני<br>ע עור (MPH) | , 0<br>, 0        | , v<br>, v              | 2.3                  | 6.2                     | 4.4                  | 2.3                                  | 4              | 7.2                                                                                              | 0.0                        | ທູ<br>ບໍ່ເ                                                          |
|                                   | SPD (MPH)                  | 7.5               | 4.2                     | 80 (<br>10 (<br>10 ( | 7.0                     | ດ<br>ເຊິ່ງ<br>ເຊິ່ງ  | 3.6                                  | ເບີດ<br>ຈີດເບ  | 7.9                                                                                              | 0<br>0<br>1<br>0<br>1<br>0 | 0.80.0<br>0.00                                                      |
|                                   | RATIC                      | 0.905             | 0.451                   | 0.258                | 0.8/5                   | 0.731                | 0.035                                | 2.0.0          | 011.0                                                                                            | - 11.2                     | 110.0                                                               |

Table 12

| CONNECTICUT DEPARTMENT OF ENV                                         | TROMENTAL                                                                                             | PROTECTIO                                                                        | z                                                                                     |                                                                                    | PAGE                                                                                         | ហ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                |                                                                                                     | AIR COMP                                                                                    | LIANCE EN                                                                                                                              | GINEERING                                                                                                 |
|-----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|---------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|
| POLLUTANTTOTAL SUSPENDED PA                                           | 191<br>RTICULATES                                                                                     | BO TEN HI                                                                        | GHEST 24                                                                              | HR AVG TS                                                                          | P DAYS WI                                                                                    | TH WIND D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ATA.                                                                                                           | UNITS :                                                                                             | WICROGRAM                                                                                   | S PER CUB                                                                                                                              | IC METER                                                                                                  |
| TOWN NAME SI                                                          | TE SAMPLES                                                                                            | ←                                                                                | N                                                                                     | ო                                                                                  | ধ                                                                                            | n                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Q                                                                                                              | 7                                                                                                   | Ø                                                                                           | Ø                                                                                                                                      | 0                                                                                                         |
| METEOROLOGICAL SITE<br>BRIDGEPORT                                     | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                                                   | 320<br>6.7<br>.0                                                                 | 230<br>7.0                                                                            | 210<br>210<br>8,8                                                                  | 40<br>10.4                                                                                   | + 4<br>4 4<br>4 4<br>0 4 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 200                                                                                                            | 240                                                                                                 | 170                                                                                         | 220                                                                                                                                    | 120<br>120<br>120                                                                                         |
| METEOROLOGICAL SITE<br>WORCESTER                                      | RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC                                                 | 0.723<br>3.10<br>8.10<br>8.18<br>18<br>18                                        | 0.915<br>270<br>1.1<br>0.268                                                          | 0.843<br>270<br>8.5<br>937                                                         | 0.857<br>30<br>5.7<br>6.5<br>0.889                                                           | 0.705<br>210<br>4.9<br>5.6<br>883                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.352<br>30<br>1.5<br>0.280<br>0.280                                                                           | 0.888<br>260<br>8.2<br>8.2<br>0.978<br>0.978                                                        | 0.755<br>0.755<br>0.920<br>0.220<br>0.220                                                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                     | 0.665<br>210<br>6.3<br>0.873<br>0.873                                                                     |
| BRIDGEPORT 1<br>METEOROLOGICAL SITE NEWARK                            | 23 120<br>DATE<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                                 | 176<br>5/24/80<br>170<br>6.9                                                     | 160<br>7/20/80<br>230<br>10.8                                                         | 142<br>2/21/80<br>6.5<br>9.3                                                       | 131<br>7/11/80<br>8.9<br>8.9                                                                 | 130<br>8/1/80<br>180<br>4.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 130<br>6/23/80<br>190<br>8.1                                                                                   | 123<br>7/ 5/80<br>170<br>3.6                                                                        | 120<br>8/28/80<br>300<br>2.7                                                                | 119<br>7/17/80<br>9.3                                                                                                                  | 119<br>6/ 2/80<br>240                                                                                     |
| METEOROLOGICAL SITE<br>BRADLEY                                        | RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                                          | 0.665<br>170<br>2.8<br>7.0                                                       | 0<br>280<br>280<br>496<br>496<br>496<br>496<br>496<br>496<br>496<br>496<br>496<br>496 | 0.693<br>330<br>6.8                                                                | 0.0<br>210<br>3.5<br>0<br>.5<br>0<br>.5<br>0<br>0<br>.5<br>0<br>0<br>.5<br>0<br>0<br>.0<br>0 | 0<br>5.81<br>5.60<br>7.6<br>7.6<br>7.6<br>7.6<br>7.6<br>7.6<br>7.6<br>7.6<br>7.6<br>7.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 0<br>895<br>7<br>805<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8<br>8 | 0.363<br>490<br>7.9                                                                                 | 0<br>0 4 0<br>0 0 0 4 €<br>0 0 0 4 €                                                        | 0<br>- 8<br>- 6<br>- 6<br>- 6<br>- 7<br>- 6<br>- 7<br>- 6<br>- 7<br>- 6<br>- 6<br>- 6<br>- 6<br>- 6<br>- 6<br>- 6<br>- 6<br>- 6<br>- 6 | 0<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>0                            |
| METEOROLOGICAL SITE<br>BRIDGEPORT<br>METEOROLOGICAL SITE<br>WORCESTER | RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC | 0.395<br>130<br>8.5<br>8.5<br>0.387<br>78<br>78<br>78<br>78<br>78<br>76<br>0.660 | 0.258<br>210<br>210<br>11.6<br>0.843<br>270<br>2.70<br>8.5<br>0.937                   | 0.905<br>320<br>6.7<br>9.223<br>9.223<br>9.23<br>8.2<br>8.2<br>8.2<br>8.2<br>0.818 | 0.885<br>9.80<br>9.83<br>9.99<br>250<br>7.50<br>7.6<br>7.6                                   | 0, 73<br>4, 40<br>4, 40<br>6, 7, 7<br>4, 40<br>6, 80<br>8, 90<br>8, 90<br>8, 90<br>8, 90<br>8, 90<br>8, 90<br>9, 9 | 0.533<br>7.20<br>7.59<br>7.59<br>7.90<br>7.90<br>.90<br>.90<br>.90<br>.90                                      | 0.857<br>3.66<br>0.816<br>0.418<br>0.418<br>0.720<br>0.749                                          | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                       | 0 0 0 661<br>0 1 2 2 3 0 0<br>0 9 0 4 4 9 0 0<br>0 8 0 0 6 4 4 9 0 0<br>0 8 0 0 0 6 4 4 9 0 0<br>0 8 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0   | 0 0 233<br>240<br>240<br>240<br>240<br>268<br>268<br>268<br>268<br>268<br>268<br>268<br>268<br>268<br>268 |
| BRISTOL<br>METEOROLOGICAL SITE<br>NEWARK                              | 1 57<br>DATE<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                                   | 3/ 4/80<br>2/ 4/80<br>11.9<br>12.7                                               | 82<br>6/26/80<br>170<br>8.8                                                           | 79<br>2/21/80<br>300<br>6.5<br>9.3                                                 | 78<br>7/20/80<br>230<br>10.8                                                                 | 77<br>7/2/80<br>220<br>2.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 74<br>12/23/80<br>330<br>1.8                                                                                   | 72<br>3/10/80<br>5.9                                                                                | 71<br>8/1/80<br>180<br>4.9<br>8.5                                                           | 69<br>6/2/80<br>240<br>10.2                                                                                                            | 64<br>3/28/80<br>170<br>7.1                                                                               |
| METEOROLOGICAL SITE<br>BRADLEY                                        | RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                                          | 0.940<br>240<br>4.4<br>5.5<br>810                                                | 0.859<br>200<br>10.1<br>10.5                                                          | 0.693<br>330<br>6.8<br>0.5<br>0.5                                                  | 0.964<br>2833<br>8833<br>8833<br>893                                                         | 0.258<br>7.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.261<br>0.66<br>0.6                                                                                           | 0.0<br>0.0<br>0.0<br>0.0<br>0<br>0.0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>000 ← 4<br>000 ← 4                                                                                                                | 0.880<br>190<br>7.2<br>7.5                                                                                |
| METEOROLOGICAL SITE<br>BRIDGEPORT<br>METEOROLOGICAL SITE<br>WORCESTER | VEL (MPH)<br>SPD (MPH)<br>SPD (MPH)<br>RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0               | 0<br>2210<br>2210<br>200<br>200<br>200<br>200<br>200<br>200<br>200                    | 0. 320<br>320<br>310<br>310<br>10.1                                                | 0<br>22<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20              | 0.440<br>0.755<br>8.70<br>8.00<br>8.00<br>8.00<br>8.00<br>8.00<br>8.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                    | 0.823<br>9.80<br>9.80<br>0.665<br>7.30<br>2.00<br>2.30<br>2.30<br>2.30<br>2.30<br>2.30<br>2.30<br>2 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                            | 0.00<br>0.02<br>0.02<br>0.02<br>0.02<br>0.00<br>0.00<br>0.00                                              |
|                                                                       | RATIC                                                                                                 | 0.978                                                                            | 0.976                                                                                 | 0.818                                                                              | 0.937                                                                                        | 0.929                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.697                                                                                                          | 0.873                                                                                               | 0.883                                                                                       | 0.268                                                                                                                                  | 0.902                                                                                                     |

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| CONNECTICUT DEPARTMENT OF ENV.    | IROMENTAL P              | ROTECTION                  |                  |                 | PAGE             | Q                    |                |                       | AIR COMPL                                                                                   | LIANCE ENC                                                                                       | INEERING                                                                                         |
|-----------------------------------|--------------------------|----------------------------|------------------|-----------------|------------------|----------------------|----------------|-----------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| POLLUTANTTOTAL SUSPENDED PA       | 198<br>RTICULATES        | O TEN HIG                  | SHEST 24 H       | IR AVG TSP      | LIM SARD         | YO ONIM HJ           | 17.8.          | UNITS :               | WICROGRAMS                                                                                  | S PER CUB1                                                                                       | CMETER                                                                                           |
| TOWN NAME . SI                    | TE SAMPLES               | <del>~</del>               | а                | ო               | <b>4</b>         | ល                    | Ø              | ٢                     | 00                                                                                          | Ø                                                                                                | 10                                                                                               |
| BURLINGTON                        | 1 117                    | 74                         | 71               | 65              | 62               | 60                   | 55             | 54                    | 54                                                                                          | 4<br>6<br>7<br>6<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 0<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0 |
| METEOROLOGICAL SITE               | DATE<br>DIR (DEG)        | 5/24/80<br>170             | 6/26/80<br>170   | 7/20/80<br>230  | 7/ 2/80<br>220   | 8/ 1/80<br>180       | 9/21/80<br>230 | 7/11/80<br>240        | 8/ 4/80<br>190                                                                              | 5/ 6/80<br>260                                                                                   | 8/28/80<br>300                                                                                   |
| NEWARK                            | VEL (MPH)                | 4.6<br>0.7                 | 7.5              | 40-8<br>6-8     | 2.7              | 410<br>01u           | 10.5           | ອ<br>ອີ<br>ອີ         |                                                                                             | 1.<br>1. ç                                                                                       | 2.0                                                                                              |
|                                   | SPU (MPH)<br>RATIC       | 0.665                      | 8.8<br>0.859     | 0.964           | 0.258            | 0.581                | 0.985          | 0.940                 | 0.862                                                                                       | 0.204                                                                                            | 0.321                                                                                            |
| METEOROLOGICAL SITE<br>BOADIEV    | DIR (DEG)                | 170<br>2 8                 | 200              | 280             | 200<br>7 5       | 200                  | 200<br>4<br>8  | 210<br>7              | 250                                                                                         | 50                                                                                               | 20                                                                                               |
|                                   | SPD (MPH)                | 2.0                        | 10.5             | .00             | ה<br>ה<br>ה<br>ה | - 9.<br>G            | 0.1            | ອີ                    | 1 C4                                                                                        | 9<br>9                                                                                           | e<br>N                                                                                           |
|                                   | RATIC                    | 0.395                      | 0.962            | 0.258           | 0.946            | 0.731                | 0.970          | 0.885                 | 0.685<br>222                                                                                | 0.424                                                                                            | 0.714                                                                                            |
| METEURULUGICAL SITE<br>BRIDGEPORT | VEL (MPH)                | 130<br>3.3                 | 210<br>10.6      | 0.8<br>0.8      | 1/0<br>6.6       | 4 40                 | 13.3           | 07.8<br>8.8           | 8.0<br>8                                                                                    | 001<br>8.6                                                                                       | 200                                                                                              |
|                                   | (HdW) QdS                | 8.5                        | 11.6             | 11.6            | 8                | 6.2                  | 13.7           | ດ.<br>ດ               | ຕ<br>ຕ                                                                                      | 10.9                                                                                             | 11.8                                                                                             |
| MET CODO! OCITA! CITE             | RATIC                    | 0.387                      | 0.907            | 0.843           | 0.755            | 0.705                | 0.974          | 0.883<br>750          | 0.920                                                                                       | 0.896<br>70                                                                                      | 0.407<br>340                                                                                     |
| MELECACCOGICAL STIR               | VEL (MPH)                | о                          | 7.7              | 7.9             | 8.0              | 4 4<br>2 0           | 6.8<br>8       | 7.4                   | )<br>)<br>)<br>)                                                                            | ີ <del>ເ</del>                                                                                   | ) en                                                                                             |
|                                   | SPD (MPH)                | 5.0<br>7 660               | 7.9<br>0.076     | 8.5<br>037      | 8.6<br>0.030     | 5.6<br>823           | 7.3<br>0 033   | 7.6<br>0 973          | 5.6<br>25.6                                                                                 | 8.6<br>0.967                                                                                     | 0<br>.0<br>.0<br>.0<br>.0<br>.0<br>.0<br>.0<br>.0<br>.0<br>.0<br>.0<br>.0<br>.0                  |
|                                   |                          |                            |                  |                 | 0                | )<br>)<br>)<br>)     |                |                       |                                                                                             |                                                                                                  |                                                                                                  |
| DANBURY                           | 123 58<br>DATE 1         | 221<br>2/17/80             | 129<br>3/ 4/80 · | 96<br>11/23/80  | 87<br>7/ 2/80    | 85<br>12/23/80       | 84<br>2/21/80  | 79<br>8/1/80          | 7/20/80                                                                                     | 76<br>3/28/80                                                                                    | 75 °                                                                                             |
| METEOROLOGICAL SITE               | DIR (DEG)                | 340                        | 230              | 230             | 220              | 330                  | 300            | 180                   | 230                                                                                         | 170                                                                                              | 270                                                                                              |
| NEWAR                             | ( VEL (MPH)              | 12.1                       | 0.11<br>0.51     | 0.<br>0.        | 2.7              | - 4<br>8 0           | ເດ<br>ເຊິ່າ    | 4 a<br>o n            | 10.8<br>8.6                                                                                 | τ.α<br>•••                                                                                       | ຫ<br>ຕ<br>ຕິ ແ                                                                                   |
|                                   | RATIC                    | 0.948                      | 0.940            | 0.947           | 0.258            | 0.261                | 4.J            | 0.581                 | 0.964                                                                                       | 0.880<br>0.880                                                                                   | 0.228                                                                                            |
| WETEOROLOGICAL SITE               | DIR (DEG)                | 340                        | 240              | 210             | 200              | 160                  | 330            | 200                   | 280                                                                                         | 190                                                                                              | 220                                                                                              |
| BRADLEN                           | Y VEL (MPH)<br>SOD (MPH) | 0<br>0<br>0                | 4 n<br>4 n       | ~ ~<br>0 ((     | 2°.5             | 0.6<br>6.6           | 0.<br>0.0      | 4 R.                  | () (C                                                                                       | 7.2                                                                                              | 2<br>2<br>2<br>2<br>2<br>2<br>2                                                                  |
|                                   | RATIC                    | 0.844                      | 0.810            | 0.769           | 0.946            | 0.996                | 0.905          | 0.731                 | 0.258                                                                                       | 0.961                                                                                            | 0.412                                                                                            |
| METEOROLOGICAL SITE               | DIR (DEG)                | 320                        | 240              | 210             | 170              | 340                  | 320            | 40                    | 210                                                                                         | 210                                                                                              | 280                                                                                              |
| RATOGEPOK                         | I VEL (MPH)<br>SPD (MPH) | າ<br>ຕິ<br>ເ               | 10.3<br>9,11     | 4 0<br>0 0      | 0 0<br>0 0       | טא<br>טיע            | 9.2            | 0<br>1<br>1<br>1<br>1 | 9 C<br>0 0                                                                                  | 0 CV<br>- 00                                                                                     | 10)<br>100                                                                                       |
|                                   | RATIC                    | <b>0</b> .984              | 0.888            | 0.767           | 0.755            | 0.526                | 0.723          | 0.705                 | 0.843                                                                                       | 0.946<br>                                                                                        | 0.432                                                                                            |
| METEOROLOGICAL SITE               | DIR (DEG)                | 0<br>0<br>0<br>0<br>0<br>0 | 260              | 270<br>6 9      | 220              | 200<br>200           | ο r<br>ο r     | 200                   | 00                                                                                          | 220<br>6-2                                                                                       | 2 4<br>2 4                                                                                       |
|                                   | SPD (MPH)                | າ ຫ                        | 9 00<br>9 00     | 7.6             | 9.0<br>9.0       | 9 5<br>9             | 10.1           | 5.0<br>.0             | ູພ                                                                                          | 0.0                                                                                              | ີ<br>ເບີ                                                                                         |
|                                   | RATIC                    | <b>0</b> .935              | 0.978            | 0.910           | 0.929            | 0.697                | 0.818          | 0.883                 | 0.937                                                                                       | 0.902                                                                                            | 0.813                                                                                            |
| ENFIELD                           | 123 59<br>Date           | 82 °                       | 78<br>11/02/00   | 76<br>17/70/80  | 71<br>6/36/20    | 69<br>4 2 / 1 7 / 20 | 67<br>8/1/80   | 65<br>7/20/80         | 65<br>6/ 3/80                                                                               | 63<br>7/ 2/80                                                                                    | 63<br>3/ 4/RD                                                                                    |
| METEOROLOGICAL SITE               | DIR (DEG)                | 300                        | 230              | 30              | 170              | 340                  | 180            | 230                   | 240                                                                                         | 220                                                                                              | 230                                                                                              |
| NEWARI                            | K VEL (MPH)              | 0<br>5<br>0                | 0<br>0           | 13,0            | 7.5              | 12.1                 | ດ ເ<br>• •     | 10.8                  |                                                                                             | 2.7                                                                                              | 0.                                                                                               |
|                                   | SPD (MPH)<br>RATIC       | 5°8<br>0,693               | 7.3<br>0.947     | 13.996<br>0,996 | 0.859<br>0       | 12.8<br>0.948        | 0.581<br>0.581 | 0.964                 | 0.969<br>0                                                                                  | 0.258                                                                                            | 0.940                                                                                            |
| METEOROLOGICAL SITE               | DIR (DE                  | 330                        | 210              | 5               | 200              | 340                  | 200            | 280                   | 210                                                                                         | 0 U<br>0 0<br>1 17                                                                               | 240                                                                                              |
| BRADLE                            | Y VEL (MP.)              | ۰ د<br>۳ ۵                 |                  | ບ.<br>ບັນ       |                  | 80<br>1.4            | 4 u<br>4 u     | ς, α<br>α             | 5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 0, L                                                                                             | ៤ ៤<br>៤                                                                                         |
|                                   |                          | 0.905<br>0                 | 0.769            | 0.985           | 0.962            | 0.844                | 0.731          | 0.258                 | 0.451                                                                                       | 0.946                                                                                            | 0.810                                                                                            |

|             |                  |           |                                     |                                                                                             |                                                     | Table                                                                                          | 12, Co                                                                                           | ntinued                                      |                                                     |                                                                                                                        |                                                       |
|-------------|------------------|-----------|-------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------|
| GINEERING   | IC METER         | 40        | 240<br>10.3                         | 0.88<br>260<br>8.20<br>9.93<br>9.93<br>9.93<br>9.93<br>9.93<br>9.93<br>9.93<br>9.9          | 58<br>2/21/80<br>300<br>6.5<br>9.3                  | 0.693<br>6.8<br>7.6                                                                            | 0.905<br>9.20<br>9.20                                                                            | 0.723<br>310<br>8.2<br>10.1<br>0.818         | 83<br>8/7/80<br>290<br>6.4<br>9.8                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                            | 0.000000<br>0.000000<br>0.000000000000000000          |
| LIANCE EN   | s per cub        | Ø         | 1 70<br>0 6                         | 0.755<br>220<br>8.0<br>8.929                                                                | 62<br>8/7/80<br>290<br>6.4<br>9.8                   | 0.651<br>9.20<br>9.34<br>0.34<br>0.3                                                           | 0.03<br>0.00<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.                       | 0.0/0/20<br>290<br>0.20<br>0.66              | 2/27/80<br>2/27/80<br>230<br>13.8                   | 0.83<br>0.83<br>0.83<br>0.444<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.20<br>0.2                                   | 0.823<br>240<br>5.3<br>6.3<br>0.831                   |
| AIR COMP    | MICROGRAM        | ø         | 230<br>2.00<br>2.10                 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 63<br>6/26/80<br>170<br>7.5<br>8.8                  | 0.859<br>10.1<br>10.1                                                                          | 0.962<br>210<br>10.6                                                                             | 0.976<br>0.976                               | 85<br>12/17/80<br>340<br>12.1<br>12.8               | 0.00<br>9.00<br>9.00<br>9.00<br>9.00<br>9.00<br>9.00<br>9.00                                                           | - 0<br>.0.0000<br>.80000<br>.400000                   |
|             | : STINU          | 2         | 0 5<br>0 8 9                        | 0.843<br>7.9<br>93.5                                                                        | 64<br>8/19/80<br>190<br>5.5<br>6.6                  | 0,835<br>9,220<br>9,61<br>1,61                                                                 | 0.590<br>7.20<br>8.3                                                                             | 0.858<br>160<br>2.0<br>5.3<br>0.375          | 7/ 2/80<br>220<br>2.7<br>10.4                       | 0, 20<br>2, 20<br>2, 2, 20<br>2, 2, 20<br>2, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0, 0,                                    | 0.755<br>220<br>8.0<br>8.6<br>0.929                   |
|             | ATA.             | Q         | 440<br>440                          | 0.705<br>210<br>5.6<br>5.6<br>0.883                                                         | 68<br>6/14/80<br>150<br>2.8<br>7.6                  | 0.363<br>3.63<br>3.63<br>3.63<br>3.63<br>3.63<br>3.63<br>3.63                                  | 0.633<br>200<br>4.9                                                                              | 0.280<br>0.280                               | 91<br>2/21/80<br>300<br>6.5<br>9.3                  | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0                                                            | 0.723<br>310<br>8.2<br>10.1<br>0.818                  |
| 7           | TH WIND D        | ល         | 320<br>13.3                         | 0.984<br>310<br>9.9<br>935<br>0.935                                                         | 70<br>6/.2/80<br>240<br>10.2                        | 0.969<br>210<br>4.2                                                                            | 230<br>7.6<br>7.6                                                                                | 0.268<br>0.268                               | 7/20/80<br>230<br>10.8                              | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                            | 0.843<br>270<br>8.5<br>0.937                          |
| PAGE        | DAYS WI          | ধ         | 210<br>10.6                         | 0.907<br>240<br>7.7<br>0.976                                                                | 7/26/80<br>210<br>4.7<br>7.8                        | 0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0                                           | 2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>200                                      | 0,962                                        | 102<br>6/2/80<br>245<br>10.2                        | 0<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4                                                     | 0.915<br>270<br>4.2<br>0.268                          |
|             | IR AVG TSI       | რ         | 10<br>12.6                          | 0.975<br>300<br>5.6<br>0.243                                                                | 7/ 2280<br>220<br>2.7                               | 200<br>200<br>2.5<br>200<br>2.5<br>2.5<br>2.5<br>2.5<br>2.5<br>2.5<br>2.5<br>2.5<br>2.5<br>2.5 | 0.410<br>6.60<br>7.88<br>7.60<br>7.60<br>7.60<br>7.60<br>7.60<br>7.60<br>7.60<br>7.60            | 0.220<br>8.0<br>8.6<br>929                   | 105<br>8/1/80<br>180<br>4.9<br>8.5                  | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                     | 0.705<br>210<br>4.9<br>5.6<br>0.883                   |
| . 7         | SHEST 24 1       | N         | 210<br>6.6                          | 0.767<br>270<br>6.9<br>7.6<br>0.910                                                         | 8/ 1/80<br>180<br>4.9<br>8.5                        | 2001<br>2014<br>2014<br>2014<br>2014<br>2014<br>2014<br>2014                                   | 0.15<br>0.15<br>0.15<br>0.15<br>0.15<br>0.15<br>0.15<br>0.15                                     | 0.210<br>210<br>5.6<br>883<br>0.883          | 118<br>1/22/80<br>5.8<br>8.2                        | 0.02<br>22<br>22<br>24<br>24<br>24<br>24<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | 0.648<br>230<br>3.7<br>0.695                          |
| ROTECTION   | SD TEN HIG       | <b>*</b>  | 320<br>6.7<br>9.2                   | 0.723<br>310<br>8.2<br>10.1<br>0.818                                                        | 91<br>230<br>10.8<br>11.2                           |                                                                                                | 2210<br>210<br>210<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20 | 270<br>270<br>8.5<br>937                     | 7/14/80<br>210<br>2.7<br>7.6                        | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                            | 0,660<br>260<br>4.6<br>907<br>907                     |
| ROMENTAL I  | 198<br>TICULATES | E SAMPLES | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH) | RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC                                       | 4 60<br>DATE<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH) | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                                            | VEL (MPH)<br>SPD (MPH)                                                                           | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC | 8 58<br>DATE<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH) | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC<br>DIR (DEG)<br>VEL (MPH)<br>VEL (MPH)                                    | RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC |
| T OF ENVI   | ENDED AR         | SIT       | AL SITE<br>IDGEPORT                 | AL SITE<br>ORCESTER                                                                         | AL SITE<br>NEWARK                                   | AL SITE<br>BRADLEY                                                                             | AL SITE<br>IDGEPORT                                                                              | AL SITE<br>ORCESTER                          | AL SITE<br>Newark                                   | AL SITE<br>BRADLEY<br>BRADLEY<br>:AL SITE<br>:AL SITE                                                                  | AL SITE<br>ORCESTER                                   |
| T DEPARTMEN | -TOTAL SUSP      | DWN NAME  | ETEOROLOGIC<br>BR                   | ET EOROLOGIC<br>W                                                                           | ICH<br>Et Eorologic                                 | ETEOROLOGIC                                                                                    | ETEOROLOGIC<br>Br                                                                                | ET EOROLOGIC<br>M                            | ICH<br>Et Eorologic                                 | ET EOROLOGIC<br>ET EOROLOGIC<br>BR                                                                                     | ET EOROLOGIC                                          |
| CONNECTICU  | POLLUTANT        | Ĩ         | M                                   | W                                                                                           | GREENW                                              | æ                                                                                              | ×                                                                                                | 2                                            | GREENW                                              | 2 2                                                                                                                    | <b>æ</b>                                              |

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|               |                   |           | Table 12, Continued                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                    |                                                                                                              |
|---------------|-------------------|-----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------|
| INEERING      | C METER           | 10        | 0.80.2<br>0.80.3<br>0.80.3<br>0.80.3<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.8<br>0.90.7<br>0.90.8<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7<br>0.90.7                                                                                                             |                                                                                                    | 7/8/88<br>230<br>10.1<br>12.5<br>12.5<br>12.5<br>230<br>230<br>3.0<br>6.6<br>6.6                             |
| LANCE ENG     | PER CUBI          | Ø         | 71<br>210<br>6.8<br>6.8<br>6.8<br>7.2/8<br>0.828<br>7.2/8<br>0.828<br>7.1.3<br>0.648<br>11.23<br>0.648<br>0.655<br>0.655<br>0.655<br>0.655<br>0.814<br>0.814<br>0.814<br>0.814<br>0.814<br>0.814<br>0.814<br>0.812<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.655<br>0.555<br>0.655<br>0.555<br>0.655<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.555<br>0.5550<br>0.5550<br>0.5550<br>0.55500000000                                                           | 7.6<br>0.882                                                                                       | 4/ 3/80<br>220<br>2.9<br>2.5<br>2.5<br>0.465                                                                 |
| AIR COMPL     | ICROGRAMS         | 60        | 2/ 71<br>3/3/80<br>17.33/80<br>17.33/80<br>11.73<br>11.77<br>11.77<br>11.77<br>11.77<br>11.73<br>11.73<br>11.73<br>11.73<br>11.73<br>11.73<br>11.73<br>11.73<br>11.73<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.921<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.9210<br>0.92100<br>0.92100<br>0.92100<br>0.92100<br>0.92100000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                      | 0.8<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 | 5/ 3/80<br>5/ 3/80<br>7.55<br>0.712<br>2.0<br>2.50<br>0.359<br>0.359                                         |
|               | UNITS : W         | 7         | 3/   3/   75     75   75   9/   24/80     11.9   24/80   240   24/80     11.9   11.6   240   268     0.9   9/   810   343     0.978   810   343   343     0.978   9/   40   343     0.9343   9/   868   343     0.9343   9/   868   343     0.9343   9/   868   343     0.150   9/   86.80   343     0.150   9/   86.20   343     0.160   9/   86.20   343     0.170   9/   86.20   343     0.170   9/   86.20   343     0.170   9/   86.20   343     0.170   9/   10/   10/     0.170   9/   10/   10/     0.170   9/   10/   10/     0.170   9/   10/   10/     0.170   9/   10/   10/     1.10 </td <td>8.1<br/>8.894</td> <td>53<br/>2 4/80<br/>11.9<br/>12.7<br/>0.940<br/>240<br/>240<br/>240<br/>25.5<br/>0.810</td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 8.1<br>8.894                                                                                       | 53<br>2 4/80<br>11.9<br>12.7<br>0.940<br>240<br>240<br>240<br>25.5<br>0.810                                  |
|               | TA.               | Q         | 6/14/80<br>150<br>2.8<br>2.8<br>2.8<br>2.8<br>2.8<br>2.8<br>2.8<br>0.353<br>0.533<br>0.533<br>0.280<br>0.280<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.533<br>0.533<br>0.533<br>0.533<br>0.533<br>0.533<br>0.533<br>0.533<br>0.537<br>0.533<br>0.537<br>0.533<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.537<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.520<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>0.5200<br>00                                           | 2.7<br>4.5<br>0.606                                                                                | 55<br>12/23/80<br>330<br>1.8<br>1.8<br>1.8<br>1.8<br>0.5<br>0.6<br>0.6<br>0.6                                |
| ω             | H WIND DA         | വ         | 3/10/80     3/10/80     5.9     5.9     5.9     5.9     5.9     5.9     6.3     5.8     6.3     6.3     6.3     6.3     7/14/80     7/14/80     6.3     6.3     6.3     6.3     6.3     6.3     7/14/80     7/15     6.3     6.3     6.3     6.3     6.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4.6<br>5.0<br>0.907                                                                                | 61<br>2/21/80<br>300<br>6.5<br>9.3<br>6.8<br>330<br>6.8<br>6.8<br>6.8<br>6.8<br>6.8<br>0.905                 |
| PAGE          | DAYS WIT          | থ         | 6/20/80<br>858<br>858<br>8.8<br>8.8<br>250<br>2220<br>2220<br>2220<br>10.2<br>4.17<br>1190<br>1190<br>1190<br>1190<br>1190<br>1190<br>1190<br>11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 8.0<br>8.6<br>0.929                                                                                | 64<br>64<br>180<br>180<br>4.9<br>8.5<br>200<br>5.5<br>4.1<br>200<br>200<br>200<br>200<br>200                 |
|               | R AVG TSP         | ო         | 6/26     86     22/80     10.2     10.5     10.5     10.5     10.5     10.5     10.5     10.5     10.5     10.5     10.5     10.5     10.5     12.0     12.0     12.0     12.0     12.0     12.4     12.4     12.4     12.4     12.4     12.4     12.4     12.4     12.4     12.4     12.4     12.4     11.9     11.9     11.9     11.9     11.9     11.9     11.1     11.1     11.1     11.1     11.1     11.1     11.1     11.1     11.1     11.1     11.1     11.1     11.1 <tr< td=""><td>7.6<br/>8.9<br/>849</td><td>7/20/80<br/>230<br/>10.8<br/>11.2<br/>260<br/>2.3<br/>2.3<br/>2.3<br/>0.258</td></tr<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 7.6<br>8.9<br>849                                                                                  | 7/20/80<br>230<br>10.8<br>11.2<br>260<br>2.3<br>2.3<br>2.3<br>0.258                                          |
|               | HEST 24 M         | ,<br>N    | 6/25/80<br>210<br>12.9<br>13.4<br>12.9<br>0.955<br>0.955<br>0.954<br>0.954<br>0.954<br>0.954<br>0.954<br>0.954<br>0.954<br>0.954<br>0.954<br>0.954<br>0.954<br>0.956<br>0.958<br>0.581<br>0.731<br>0.705<br>0.705<br>0.705                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0.5.6<br>5.6<br>833                                                                                | 12/29/80<br>13.9<br>13.9<br>0.996<br>5.1<br>5.1<br>0.985                                                     |
| RDTECTION     | D TEN HIG         | +         | <b>5/22/80</b><br>8.4<br>9.8<br>9.8<br>9.8<br>9.8<br>9.8<br>9.8<br>0.850<br>10.6<br>11.4<br>0.936<br>11.4<br>0.936<br>11.3<br>11.3<br>11.3<br>11.4<br>0.936<br>11.4<br>0.936<br>11.3<br>11.3<br>11.3<br>11.3<br>0.957<br>0.957<br>0.957<br>0.958<br>0.957<br>0.957<br>0.958<br>0.957<br>0.958<br>0.957<br>0.958<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.956<br>0.957<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.957<br>0.957<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.956<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.957<br>0.9570<br>0.9570<br>0.9570<br>0.95700<br>0.95700000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 7.9<br>8.5                                                                                         | 6/2/80<br>240<br>10.2<br>10.5<br>0.969<br>210<br>210<br>210<br>210<br>210<br>210<br>210<br>210<br>210<br>210 |
| ROMENTAL PF   | 1980<br>TICULATES | E SAMPLES | 5 24<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>SPD (MPH)<br>SPD (MPH)<br>VEL (MPH)<br>VEL (MPH)<br>NATIC<br>DIR (DEG)<br>VEL (MPH)<br>NATIC<br>DIR (DEG)<br>VEL (MPH)<br>RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD | VEL (MPH)<br>SPD (MPH)<br>DATTO                                                                    | 2 60<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>SATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>SPD (MPH)     |
| T OF ENVI     | ENDED PAR         | SIT       | AL SITE<br>NEWARK<br>NEWARK<br>BRADLEY<br>SAL SITE<br>SAL SITE<br>CAL SITE<br>NEWARK<br>CAL SITE<br>CAL SITE<br>CAL SITE<br>CAL SITE<br>CAL SITE<br>CAL SITE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | WORCESTER                                                                                          | CAL SITE<br>NEWARK<br>ICAL SITE<br>ICAL SITE<br>BRADLEY                                                      |
| DEPARTMEN     | TOTAL SUSP        | WN NAME   | ETEOROLOGIC<br>ETEOROLOGIC<br>ETEOROLOGIC<br>ETEOROLOGIC<br>ETEOROLOGIC<br>ICH *<br>ICH 8<br>ETEOROLOGI<br>ETEOROLOGI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                    | METECROLOGI<br>METECROLOGI<br>METEOROLOGI                                                                    |
| CONNECT I CUT | POLLUTANT         | TC        | GR M M M M MI<br>B<br>B<br>B<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                                                                    | HADDAI                                                                                                       |

\* Special Study, Partial Year Only

Table 12. Continued

| CONNECTICUT DEPARTMENT OF ENV            | I ROMENT AL                                                        | PROTECTIO                                                                           | z                                              |                                                                          | PAGE                                                                         | თ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                         |                                                                                             | AIR COMP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | LIANCE EN                                                                                        | GINEERING                                                                                        |
|------------------------------------------|--------------------------------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------|------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| POLLUTANTTOTAL SUSPENDED PA              | 19<br>RTICULATES                                                   | BO TEN HI                                                                           | GHEST 24                                       | HR AVG TS                                                                | DAYS WI                                                                      | TH WIND D                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ata.                                    | UNITS :                                                                                     | MICROGRAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | S PER CUB                                                                                        | IC METER                                                                                         |
| TOWN NAME . SI                           | TE SAMPLES                                                         | T                                                                                   | N                                              | m                                                                        | ধ                                                                            | ດ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | ß                                       | 7                                                                                           | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ũ                                                                                                | 0                                                                                                |
| METEDROLOGICAL SITE<br>BRIDGEPORT        | DIR (DEG)<br>VEL (MPH)                                             | 230                                                                                 | 10                                             | 210<br>9.8<br>9.8                                                        | 140<br>4.4                                                                   | 320<br>6.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 340<br>2.9                              | 240<br>10.3                                                                                 | 210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 230                                                                                              | 220                                                                                              |
| METEOROLOGICAL SITE<br>WORCESTER         | SPU (MPH)<br>RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC | 0.915<br>270<br>1.1<br>4.2<br>0.268                                                 | 12.9<br>0.975<br>300<br>1.4<br>5.6<br>0.243    | 0.937<br>0.843<br>7.9<br>7.9<br>0.937                                    | 6.2<br>210<br>4.9<br>5.6<br>0.83                                             | 9.2<br>310<br>8.2<br>10.1<br>0.818                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.526<br>200<br>2.2<br>0.697<br>0.697   | 11.6<br>0.888<br>260<br>8.2<br>8.3<br>0.978                                                 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.475<br>0.475<br>7.50<br>0.840<br>0.840                                                         | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      |
| HARTFORD<br>METEOROLOGICAL SITE<br>NEWAR | 3 120<br>DATE<br>DIR (DEG)<br>(VEL (MPH)<br>SPD (MPH)              | 167<br>2/21/80<br>300<br>6.5                                                        | 109<br>5/24/80<br>170<br>4.6<br>6.9            | 103<br>6/2/80<br>240<br>10.2                                             | 102<br>3/ 4/80<br>230<br>11.9                                                | 8/ 1/80<br>180<br>4.9<br>8.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 99<br>12/26/80<br>230<br>6.8            | 99<br>12/23/80<br>330<br>1.8<br>6.9                                                         | 96<br>7/11/80<br>240<br>8.9<br>9.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 95<br>11/20/80<br>270<br>6.9<br>7.6                                                              | 7/ 2/80<br>220<br>227<br>10.4                                                                    |
| METEOROLOGICAL SITE<br>BRADLEY           | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                | 0.693<br>0.330<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0. | 0.665<br>170<br>2.8<br>7.0                     | 0.969<br>210<br>4.2                                                      | 0<br>0<br>0<br>0<br>4<br>0<br>4<br>0<br>4<br>0<br>4<br>0<br>0<br>4<br>0<br>0 | 0.581<br>200<br>5.6<br>7.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.989<br>2.00<br>3.4.00                 | 0.261<br>160<br>0.6                                                                         | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0<br>0.000<br>0.100<br>0.4                                                                       | 0<br>7                                                                                           |
| METEOROLOGICAL SITE<br>BRIDGEPORI        | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                | 0.20<br>0.20<br>7.20<br>7.20<br>7.20<br>7.20<br>7.20<br>7.20                        | 0.840<br>0.130<br>0.51<br>0.51<br>0.51<br>0.51 | 230<br>7.6                                                               | 240<br>10.3<br>11.6                                                          | 0.731<br>4.4<br>6.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0.700<br>0.700<br>0.700                 |                                                                                             | ດ<br>ເດຍ 2000<br>ເດຍ 2000<br>เดย 2000 | ດ<br>ເດິດ<br>ເດິດ<br>ເດິດ<br>ເດິດ<br>ເດິດ<br>ເດິດ<br>ເດິດ<br>ເດ                                  | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0                                      |
| METEOROLOGICAL SITE<br>WORCESTER         | DIR (DEG)<br>DIR (DEG)<br>SPD (MPH)<br>RATIC                       | 0.723<br>310<br>8.2<br>0.818<br>0.818                                               | 0.660                                          | 0, 268<br>2, 10<br>2, 268                                                | 0.978<br>0.978                                                               | 0.705<br>210<br>5.6<br>0.883                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.742<br>260<br>9.1<br>0.854            | 0.520<br>200<br>3.2<br>0.697                                                                | 0.973                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.830<br>270<br>7.4<br>0.965                                                                     | 0.929<br>0.929<br>0.929                                                                          |
| HARTFORD                                 | 123 57<br>DATE                                                     | 152<br>9701/20                                                                      | 112<br>7/ 7/80                                 | 101<br>10/20/20                                                          | 101<br>11/23/80                                                              | 101<br>6/2/00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 97<br>6 / 76 / 90                       | 94<br>24<br>20                                                                              | 90<br>90<br>2 / 2 / 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 89<br>110/07                                                                                     | 8<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7 |
| METEOROLOGICAL SITE<br>Newar             | DIR (DEG)<br>Vel (MPH)<br>SPD (MPH)                                | 6.5<br>9.3<br>6.5<br>6.5                                                            | 220<br>220<br>2.7<br>10.4                      | 14/23/80<br>330<br>1.8<br>6.9<br>0.5                                     | 11/23/80<br>230<br>6.9<br>7.3<br>0 947                                       | 240<br>10.5<br>10.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 0/20/80<br>170<br>7.5<br>8.8<br>8.8     | х/<br>1/80<br>180<br>8.5<br>8.5<br>8.5                                                      | 2/ 4/80<br>230<br>11.9<br>12.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 4//2<br>5.9<br>5.9<br>5.9<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0<br>5.0  | ດ<br>ຊີງ<br>ຊີງ<br>ຊີງ<br>ຊີງ<br>ຊີງ<br>ຊີງ<br>ຊີງ<br>ຊີງ<br>ຊີງ<br>ຊີງ                          |
| METEOROLOGICAL SITE<br>BRADLE            | VEL (MPH)<br>SPD (MPH)                                             | 0.5<br>0.5<br>0.5                                                                   | 2200<br>7.5<br>7.9                             | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                    | 210                                                                          | 2 - 4 - 2<br>2 - 4 - 4 - 2<br>2 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - 4 - | 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 0.0<br>70.4<br>70.4<br>70.4<br>70.4<br>70.4<br>70.4<br>70.4<br>7                            | 0<br>4<br>4<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 31 A A A A A A A A A A A A A A A A A A A                                                         |
| METEOROLOGICAL SITE<br>Bridgepor         | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                | 90.7<br>90.7<br>723                                                                 | 6.6<br>6.6<br>7.8                              | ນ<br>ນີ້<br>ເບີດ<br>ເບີດ<br>ເບີດ<br>ເບີດ<br>ເບີດ<br>ເບີດ<br>ເບີດ<br>ເບີດ | 6450<br>109.60<br>109.60                                                     | 230<br>7.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 10.10                                   |                                                                                             | 10,20<br>0,00<br>0,00<br>0,00<br>0,00<br>0,00<br>0,00<br>0,00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | ອ<br>ອິດ<br>ເຊິ່ງ<br>ອີດ<br>ອີດ<br>ອີດ<br>ອີດ<br>ອີດ<br>ອີດ<br>ອີດ<br>ອີດ<br>ອີດ<br>ອີດ          | 2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>200                                      |
| METEOROLOGICAL SITE<br>Worcestei         | RATIC<br>DIR (DF<br>SPD (MP                                        | 0.810<br>810.12                                                                     | 0.929<br>8.0<br>8.56                           | 0.00<br>0.00<br>0.00<br>0.00<br>0.00                                     | 270<br>270<br>6.9<br>0.910                                                   | 270<br>270<br>4.1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 240<br>240<br>7.7<br>0.976              | 0 7 0<br>8 4 0<br>8 6 0<br>8 | 0<br>8<br>8<br>9<br>9<br>9<br>8<br>9<br>8<br>9<br>8<br>9<br>9<br>8<br>9<br>8<br>9<br>8<br>9<br>8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.00<br>0.3<br>0.3<br>0.873                                                                      | 00000000000000000000000000000000000000                                                           |

| CONNECTIC  | UT DEPARTMENT OF ENV              | I ROMENTAL PI     | RDTECTION                                                                       | -               |                         | PAGE                                                | 10                |                                 |                                                                                                  | AIR COWPL                                                                                        | IANCE EN             | INEERING                                                                                      |
|------------|-----------------------------------|-------------------|---------------------------------------------------------------------------------|-----------------|-------------------------|-----------------------------------------------------|-------------------|---------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------|-----------------------------------------------------------------------------------------------|
| POLLUTANT- | TOTAL SUSPENDED PA                | RTICULATES        | D TEN HIG                                                                       | SHEST 24 h      | IR AVG TSP              | DAYS WIT                                            | H WIND DA         | ιTΑ.                            | CNITS :                                                                                          | MICROGRAMS                                                                                       | PER CUB              | IC METER                                                                                      |
| ·          | TOWN NAME SI                      | TE SAMPLES        | ţ                                                                               | а               | ო                       | ø                                                   | ហ                 | ۵.                              | 2                                                                                                | Ø                                                                                                | g                    | 10                                                                                            |
| LTCH       | CTY (MORRIS DAM)                  |                   | 06                                                                              | 71              | 66                      | 62                                                  | 61<br>8/00        | 61<br>0/4/80                    | 61<br>61<br>6/00                                                                                 | 59<br>8/78/80                                                                                    | 7/ 5/80              | 55<br>-7/2/80                                                                                 |
|            | WETEODOLOGICAL SITE               | DATE<br>DID (DEC) | 5/24/30<br>170                                                                  | 7/20/80         | 9/21/80<br>230          | 6/26/80<br>170                                      | 8/4/60<br>190     | 5/ 1/50<br>180                  | a/ 0/84<br>260                                                                                   | 300                                                                                              | 170                  | 220                                                                                           |
|            | MEIEURULUGICAL JIIE<br>NEWARK     | VEL (MPH)         | 4.6                                                                             | 10.8            | 10.5                    | 7.5                                                 | 7.3               | ମ<br>ସ                          | 2.1                                                                                              | 2.7                                                                                              | ທູດ<br>ຕໍ່ດ          | 2.7                                                                                           |
|            |                                   | (HdW) OdS         | 0.<br>0                                                                         | 11.2            | 10.6                    | 8.0<br>0                                            |                   | 0<br>0<br>0<br>0<br>0<br>0<br>0 | 10.1                                                                                             | 3<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 9.9<br>0.363         | 0.258                                                                                         |
| -          |                                   | RATIC             | 0.665                                                                           | 0.964<br>080    | 0.985                   | 2000<br>000                                         | 250               | 200                             | 00                                                                                               | 20                                                                                               | 190                  | 200                                                                                           |
|            | METEURULUGICAL SIIE<br>BRADLEY    | VEL (MPH)         | 2.8                                                                             | 2.3             | 7.8                     | 10.1                                                | 2.9               |                                 | 2.4                                                                                              | 0'0<br>V                                                                                         | ດ<br>ເ               | 5 C C                                                                                         |
|            |                                   | SPD (MPH)         | 7.0                                                                             | 8.8             | 8.1<br>1.1              | 10.5                                                | 4 0<br>0 1<br>0 1 | ດ.<br>ເມື່ອ                     | 0<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | 0.0<br>740                                                                                       | 2.52<br>2.52<br>2.52 | 0.946                                                                                         |
|            | CITE COLOCIOSION                  | RATIC             | 0.395<br>130                                                                    | 0.258<br>310    | 0.970<br>230            | 0.952<br>210                                        | U. 085<br>230     | 140                             | 000                                                                                              | 001                                                                                              | 220                  | 170                                                                                           |
|            | METEUNULUGICAL SLIE<br>BRIDGEPORT | VEL (MPH)         | о<br>. с.<br>. с.                                                               | 0.0             | 13.3                    | 10.6                                                | 8.6               | 4.4                             | 8°0                                                                                              | 4 .<br>8                                                                                         |                      |                                                                                               |
| ł          |                                   | (HdW) Cds         | 8.5                                                                             | 11.6            | 13.7                    | 11.6                                                | ອ<br>ເ            | 0.9<br>101<br>0                 | 10.9<br>0                                                                                        | 11.8                                                                                             | 0 4<br>0 4           | 0.755<br>0.755                                                                                |
|            |                                   | RATIC             | 0.387                                                                           | 0.843           | 0.974                   | 0.907                                               | 0.920             | 010                             | 0.000                                                                                            | 040                                                                                              | 220                  | 220                                                                                           |
|            | METEOROLOGICAL SITE               | DIR (DEG)         | 0/0/0                                                                           | 0 0             | 7 4<br>7 0<br>7 0       |                                                     | 2 4<br>0 4        | 20                              | ີ ຕີ<br>ເ                                                                                        | 0.1                                                                                              | 5.2                  | 8.0                                                                                           |
|            | WURCESIE                          | SPD (MPH)         | 0.0<br>0                                                                        | - B             | 7.3                     | 7.9                                                 | 5<br>9            | 5.6                             | 8.6                                                                                              | ល<br>រ<br>ហ<br>រ<br>ហ                                                                            | ត<br>លំពេ<br>ព       | 0 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
|            |                                   | RATIC             | 0.660                                                                           | 0.937           | <b>0.</b> 933           | 0.976                                               | 0.861             | <b>0</b> .883                   | 0.967                                                                                            | 0.339                                                                                            | 0.140                | n v n                                                                                         |
|            | 1<br>1<br>1<br>1                  | <b>C U</b>        | C C                                                                             | 79              | 77                      | 72                                                  | 68                | 67                              | 64                                                                                               | 63                                                                                               | 62                   | 61                                                                                            |
| MANCE      | HEVIEK                            | DATE              | 8/ 1/80                                                                         | 7/20/80         | 2/21/80                 | 12/29/80                                            | 6/ 2/80           | 7/14/80                         | 3/ 4/80                                                                                          | 12/23/80                                                                                         | 5/27/80              | 7/ 2/80                                                                                       |
|            | METEOROLOGICAL SITE               | DIR (DEG)         | 180                                                                             | 230             | 300                     | 00<br>00                                            | 240               | 810<br>10                       | 230                                                                                              | 000<br>m<br>m                                                                                    | 2 m<br>19 m<br>19 m  | 240                                                                                           |
|            | NEWAR                             | K VEL (MPH)       | 4<br>0,1                                                                        | 10.8            | ດ<br>ດີ<br>ດີ           | 5.0                                                 | N 4               | - 4                             | 10.7                                                                                             |                                                                                                  | 19.4<br>19.1         | 10.4                                                                                          |
|            |                                   | SPD (MPH)         | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1 | 11.2            | <b>ה</b><br>ה<br>ה<br>ה | ה<br>ה<br>ה<br>ה<br>ה<br>ה<br>ה<br>ה<br>ה<br>ה<br>ה |                   | 0.348                           | 0.940                                                                                            | 0.261                                                                                            | 0.913                | 0.258                                                                                         |
|            | WET FORDIOGICAL SITE              | NTP (DFG)         | 000                                                                             | 280             | 0000                    | 20                                                  | 210               | 310                             | 240                                                                                              | 160                                                                                              | 010<br>010           | 200                                                                                           |
|            | METEURUCUCIUM BRADLE              | Y VEL (MPH)       | 4.4                                                                             | 2.3             | 6.8                     | 5.1<br>2                                            | 1.0               | ດ.<br>ເ                         | र<br>दा                                                                                          | 0.0<br>0                                                                                         | ຫຍ<br>ຫຼຸ            | ۰ ر<br>م                                                                                      |
| •          |                                   | SPD (MPH)         | 5.6                                                                             | 8.8             | 7.5                     | 5.2                                                 | 4 4<br>2 - 1      | 41                              | ,<br>1<br>1<br>1<br>1<br>1                                                                       |                                                                                                  |                      | 0.946                                                                                         |
|            |                                   | RATIC             | 0.731                                                                           | 0.258           | 0,905<br>225            | 0.985                                               | 0.401             | 6.518<br>607                    |                                                                                                  | 0000                                                                                             | 310                  | 170                                                                                           |
|            | METEDROLOGICAL SITE               | DIR (DEG)         | 140                                                                             | 210             | 0<br>7<br>7<br>7<br>7   | 0<br>1<br>1<br>0                                    | 097               | ວ ຕ<br>ກ                        | 10.3                                                                                             | ຸ<br>ດີ<br>ດີ                                                                                    | 15.3                 | 6.6                                                                                           |
|            | BRIDGEPOR                         | T VEL (MPH)       | 4 u<br>4 c                                                                      | ο.<br>          | - 0                     |                                                     | 7.6               | ງ ເກ<br>ວິດາ                    | 11.6                                                                                             | ທ.<br>ທີ                                                                                         | 15.5                 | 00<br>00                                                                                      |
|            |                                   |                   | 0.705                                                                           | 0.843           | 0.723                   | 0.975                                               | 0.915             | 0.660                           | 0.888                                                                                            | 0.526                                                                                            | 0,988<br>000         | 0.755                                                                                         |
| •          | METEORDLOGICAL SITE               | DIR (DEG)         | 210                                                                             | 270             | 310                     | 300                                                 | 270               | 260                             | 260                                                                                              | 0000                                                                                             | ט ע<br>אים<br>מאים   |                                                                                               |
|            | WORCESTE                          | R VEL (MPH)       | 4.9                                                                             | 7.9             | 8.0                     | 4.                                                  | - · ·             | 4 I                             | 0 0<br>V 0                                                                                       | 4 C<br>4 C                                                                                       | ) v                  | 0.00                                                                                          |
|            |                                   | SPD (MPH)         | 5.6                                                                             | 0<br>037<br>037 | 10.1<br>0 818           | 5.6<br>0,243                                        | 0.268             | 0.907                           | 0.978                                                                                            | 0.697                                                                                            | 0.929                | 0.929                                                                                         |
|            |                                   |                   |                                                                                 |                 |                         |                                                     |                   | ;                               | i<br>C                                                                                           | e<br>C                                                                                           | a                    | 78                                                                                            |
| MFRI       | DEN                               | 2 59              | 119                                                                             | 116             | 86                      | 92                                                  | 89                | 88<br>, 0                       | 84                                                                                               | 3 / 2 / 0 D                                                                                      | 0<br>0<br>1 / 20     | 5/27/80                                                                                       |
|            |                                   | DATE              | 3/ 4/80                                                                         | 2/21/80         | 12/23/80                | 12/17/80                                            | 7/20/80           | 6/ 2/80                         | 0/14/80<br>150                                                                                   | 130                                                                                              | 180                  | 310                                                                                           |
|            | METEDROLOGICAL SITE               | DIR (DEG)         | 230                                                                             | 000             | 0<br>0<br>0             | 0 t 0<br>t 0 t                                      |                   |                                 | 2.8                                                                                              | ດ<br>ເກ                                                                                          | 6.4<br>4             | 13.3                                                                                          |
|            | NEWAF                             | SK VEL (MPH)      |                                                                                 | 00              | 0 0<br>- ((             | и с<br>С                                            | 2.11              | 10.01                           | 7.6                                                                                              | 9.2                                                                                              | 8.J                  | 14.5                                                                                          |
|            |                                   | RATIC             | 0,940                                                                           | 0.693           | 0.261                   | 0.948                                               | 0.964             | 0.969                           | 0.363                                                                                            | 0.639                                                                                            | 0.581                | 0.010<br>0.010                                                                                |
|            | MFTFORDLOGICAL SITE               | DIR (DEG)         | 240                                                                             | 330             | 160                     | 340                                                 | 280               | 210                             | 09                                                                                               | 2<br>0<br>0<br>0<br>0                                                                            | 2 K<br>2 K           | ກ ດ<br>ວັດເ                                                                                   |
|            | BRADLI                            | EY VEL (MPH)      | 4.4                                                                             | 6.8             | 0.6                     |                                                     | м с<br>м с        | ດ, ເ                            | ນ<br>ຕິ                                                                                          | n a<br>D a                                                                                       | 0.<br>10             | 10.0<br>0                                                                                     |
|            |                                   | SPD (MPH)         | ະ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ                                                      | 7.5<br>7 905    | 0.0<br>0 996            | 9.5<br>0.844                                        | а. а<br>0. 258    | 4.451                           | Ó.633                                                                                            | 0.823                                                                                            | 0.731                | 0.938                                                                                         |
|            |                                   | OT I VY           | >-0-2                                                                           | 1)0.0           | ••••                    |                                                     | , ,               |                                 |                                                                                                  |                                                                                                  |                      | •                                                                                             |

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| CONNECTIC | SUT DEPARTMENT OF ENVI                  | ROMENTAL PR                                           | ROTECTION                                                                                   |                                                                                               |                                      | PAGE                                                                                             | 1                                    |                                     |                                                                       | AIR COMPL                                                                                                                                                                                                                                                                                                                    | IANCE ENG                                                                                                  | INEERING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
|-----------|-----------------------------------------|-------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------|-------------------------------------|-----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| POLLUTANI | rTOTAL SUSPENDED PAR                    | 1980<br>TICULATES                                     | ) TEN HIG                                                                                   | HEST 24 H                                                                                     | IR AVG TSP                           | DAYS WIT                                                                                         | D ONIM H                             | TÅ.                                 | UNITS : W                                                             | ILCROGRAMS                                                                                                                                                                                                                                                                                                                   | PER CUBI                                                                                                   | C WETER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|           | TOWN NAME SIT                           | E SAMPLES                                             | <del></del>                                                                                 | 2                                                                                             | ო                                    | 4                                                                                                | ហ                                    | Q                                   | 7                                                                     | 60                                                                                                                                                                                                                                                                                                                           | თ                                                                                                          | 4<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|           | METEOROLOGICAL SITE<br>BRIDGEPORT       | DIR (DEG)<br>VEL (MPH)                                | 240<br>10.3                                                                                 | 320<br>6.7                                                                                    | 0.40<br>1.00                         | 320<br>13.3                                                                                      | 210<br>9.8                           | 230                                 | 200                                                                   | 1 2 0<br>0 0 0<br>0 0 0                                                                                                                                                                                                                                                                                                      | 64 C<br>04 C                                                                                               | ດ<br>ເມີນ<br>ເມີນ<br>ເມີນ<br>ເມີນ<br>ເມີນ<br>ເມີນ<br>ເມີນ<br>ເມີນ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| ¥         | METEOROLOGICAL SITE<br>WORCESTER        | SPU (MPH)<br>RATIC D<br>DIR (DEG)<br>Vel (MPH)        | 10<br>260<br>8.2                                                                            | 0.723<br>310<br>8.2                                                                           | 0.526<br>2.20<br>2.20<br>2.20        | 0.984<br>0.984<br>0.30<br>0.30<br>0.3                                                            | 0.843<br>270<br>7.9                  | 0.915<br>270<br>1.1                 | 0.352<br>352<br>1.5                                                   | 0.0<br>265<br>3.0<br>3.0<br>3.0<br>3.0<br>5.0                                                                                                                                                                                                                                                                                | 0.707<br>2007<br>2007<br>2007                                                                              | ,<br>0 0 0 0<br>0 0<br>0 0<br>0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|           | · .<br>·                                | SPD (MPH)<br>RATIC C                                  | 8.3<br>0.978                                                                                | 10.1                                                                                          | 3.2<br>0.697                         | 9.9<br>0.935                                                                                     | 8.5<br>0.937                         | <b>0.</b> 268                       | 5.3<br>0.280                                                          | 0.873                                                                                                                                                                                                                                                                                                                        | 5.6<br>0.883                                                                                               | 10.4<br>0.929                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| MERII     | DEN<br>Meteorological site<br>Newark    | 5 55<br>DATE 3<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH) | 151<br>3/ 4/80<br>230<br>11.9                                                               | 136<br>6/26/80<br>170<br>7.5<br>8.8                                                           | 119<br>6/14/80<br>150<br>2.8<br>7.6  | 119<br>8/1/80<br>180<br>4.9<br>8.5                                                               | 111<br>6/2/80<br>240<br>10.2<br>10.5 | 106<br>2/21/80<br>300<br>6.5<br>9.3 | 104<br>3/10/80<br>5.9<br>9.2                                          | 103<br>3/28/80<br>170<br>7.1<br>8.1                                                                                                                                                                                                                                                                                          | 101<br>2/27/80<br>230<br>10.5<br>13.8                                                                      | 100<br>7/ 2/80<br>220<br>10.4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|           | METEOROLOGICAL SITE<br>BRADLEY          | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                   | 0.940<br>240<br>5.5                                                                         | 0.859<br>200<br>10.1                                                                          | 0,363<br>60<br>2,3<br>3,6            | 0.581<br>200<br>5.6                                                                              | 0.969<br>210<br>4.2                  | 0.693<br>330<br>6.8<br>7.5          | 0.639<br>1939<br>6.86                                                 | 0.880<br>190<br>7.5<br>7.5                                                                                                                                                                                                                                                                                                   | 0.759<br>220<br>9.2                                                                                        | 0.50<br>7.400<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.4700<br>0.470000000000 |
|           | METEOROLOGICAL SITE<br>BRIDGEPORT       | MATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC | 0.810<br>240<br>10.3<br>11.6                                                                | 0.962<br>210<br>10.6<br>11.6                                                                  | 0.633<br>200<br>35.7<br>35.7<br>35.7 | 0.731<br>140<br>6.2<br>705                                                                       | 0.451<br>230<br>7.6<br>915           | 0.905<br>320<br>6.7<br>9.2          | 0.823<br>5.80<br>5.80<br>5.80<br>5.80<br>5.80<br>5.80<br>5.80<br>5.80 | 0.961<br>210<br>7.8<br>946                                                                                                                                                                                                                                                                                                   | 0,854<br>240<br>10.20<br>823<br>823                                                                        | 0.440<br>6.60<br>75.80<br>755                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|           | METEOROLOGICAL SITE<br>WORCESTER        | VEL (MPH)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC          | 260<br>8.3<br>0.978                                                                         | 240<br>240<br>7.7<br>7.9<br>0.976                                                             | 0.2803<br>2803<br>0.2803             | 0.64.9<br>88.6<br>88.6                                                                           | 270<br>1.1<br>0.268                  | 0.818<br>0.818                      | 210<br>6.3<br>0.873                                                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                  | 0<br>8<br>8<br>3<br>4<br>0<br>8<br>3<br>4<br>0<br>8<br>3<br>4<br>0<br>8<br>3<br>4<br>0<br>8<br>3<br>4<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MIDD      | LETOWN<br>METEOROLOGICAL SITE<br>NEWARK | 3 59<br>DATE 1<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH) | 103<br>2/21/80<br>6.5<br>9.3                                                                | 93<br>7/20/80<br>230<br>10.8<br>11.2                                                          | 91<br>8/1/80<br>180<br>4.9<br>8.5    | 86<br>12/17/80<br>340<br>12.1<br>12.8                                                            | 85<br>3/ 4/80<br>230<br>11.9<br>12.7 | 85<br>12/23/80<br>330<br>1.8<br>6.9 | 83<br>6/2/80<br>240<br>10.2<br>10.5                                   | 80<br>9/12/80<br>180<br>5.0<br>7.9                                                                                                                                                                                                                                                                                           | 77 73<br>220<br>2.7<br>10.4                                                                                | 3/10/80<br>130<br>5.9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|           | METEOROLOGICAL SITE<br>BRADLEY          | RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>DATIC | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.964<br>280<br>2.3<br>8.8<br>2.5                                                             | 0.581<br>4.10<br>731<br>731<br>731   | 0.948<br>340<br>8.1<br>9.6                                                                       | 0.940<br>240<br>4.4<br>8.5<br>810    | 0.261<br>150<br>0.6<br>0.6          | 0.960<br>44710<br>47.20                                               | 0.03<br>300<br>2.5<br>2.5<br>7,6<br>7,6                                                                                                                                                                                                                                                                                      | 0.400<br>200<br>7.5<br>946                                                                                 | 0<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|           | METEOROLOGICAL SITE<br>Bridgeport       | VEL (MPH)<br>SPD (MPH)                                | 2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>200                                 | 010<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | - 4 0 L                              | 19.90                                                                                            | 10.30<br>10.30                       | 10000<br>10000<br>10000             | 230                                                                   | 6 6 9 0<br>9 7 6 9 0<br>9 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | 170<br>6.6<br>8.8<br>755                                                                                   | ນ<br>ສາສາ<br>ຊີ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
|           | METEOROLOGICAL SITE<br>WORCESTER        | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC          | 0.818<br>0.818                                                                              | 0.937<br>0.937                                                                                | 0.210<br>210<br>836<br>833           | 0<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 | 0.978                                | 0,697<br>0,697                      | 0.268<br>268                                                          | 0.60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>60<br>6                                                                                                                                                                                                                                            | 0.80<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00                                                               | 0.3<br>0.3<br>0.873<br>0.873                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

| CONNECTIC      | UT DEPARTMENT OF EN             | VIROMENTAL P                | ROTECTION                                                         |                             |                        | PAGE            | 10                                                                                          |                 |                                 | AIR COMPL              | IANCE EN              | SINEERING                 |
|----------------|---------------------------------|-----------------------------|-------------------------------------------------------------------|-----------------------------|------------------------|-----------------|---------------------------------------------------------------------------------------------|-----------------|---------------------------------|------------------------|-----------------------|---------------------------|
| POLLUTANT      | TOTAL SUSPENDED F               | 198<br>ARTICULATES          | O TEN HIG                                                         | HEST 24 H                   | R AVG TSP              | DAYS WIT        | AC ONIW H                                                                                   | TR.             | UNITS : W                       | AICROGRAMS             | PER CUB               | IC WETER                  |
|                | TOWN NAME S                     | ITE SAMPLES                 | ç                                                                 | 54                          | (7)                    | 4               | ហ                                                                                           | ຶ               | 2                               | cò                     | Ø                     | 0                         |
| MILFC          | IRD                             | 202                         | 106                                                               | 89<br>89                    | 81<br>67 3/90          | 81              | 81<br>2/10/00                                                                               | 80<br>81 4 / 80 | 68<br>8/7/80                    | 67<br>3/78/80          | 65<br>4/3/80          | 64<br>12/17/80            |
|                | METEOROLOGICAL SITE             | DIR (DEG)                   | 2/21/30<br>300<br>6.5                                             | 3/ 4/00<br>230<br>11.9      | 0/ 2/00<br>240<br>10.2 | 230<br>230      |                                                                                             | 4.9             | 290<br>590<br>6.4               | 170                    | 220                   | 340                       |
|                |                                 | SPD (MPH)                   | 0.0<br>0.0<br>0.0                                                 | 12.7                        | 10.5<br>0.969          | 11.2<br>0.964   | 9.2<br>0.639                                                                                | 8.5<br>0.581    | 9.8<br>0.651                    | 8.1<br>0.880           | 8.3<br>0.350          | 12.8<br>0.948             |
|                | METEOROLOGICAL SITE             | DIR (DEG)                   | 000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>000<br>00 | 040<br>040                  | 500<br>100<br>100      | 280             | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 200             | 320                             | 190                    | 2.50                  | 340<br>8.1                |
|                |                                 | SPD (MPH)                   | 7.5<br>0.905                                                      | , 10 g<br>10 10 10<br>10 10 | 4.2<br>451             | 8.8<br>0.258    | 6.8<br>0.823                                                                                | 5.6<br>0.731    | 6.3<br>0.697                    | 7.5<br>0.961           | ດ.465<br>ດ.465        | 9.6<br>0.844              |
|                | METEOROLOGICAL SITE             | DIR (DEG)                   | 320                                                               | 240                         | 230                    | 510             | 120                                                                                         | 140             | 260                             | 17<br>0<br>0<br>0<br>0 | 230<br>11 23<br>11 23 | 320<br>13 0               |
| *              | BRIDGEPOR                       | RT VEL (MPH)<br>SPD (MPH)   | 9.2                                                               | 10.3<br>11.6                | 7.6                    | 11.0<br>1       | ດ<br>ຜູ້ຜູ້                                                                                 | 6 4<br>6 7      | າ<br>1<br>1<br>1<br>1<br>1<br>1 | 0.0                    | ) (<br>(<br>(         | ງ<br>ເມີຍ<br>ເມີຍ<br>ເມືອ |
|                | METEODOLOGICAL STTE             | RATIC<br>DIP (DEG)          | 0.723<br>310                                                      | 0.888<br>260                | 0.915<br>270           | 0.843<br>270    | 0.665<br>210                                                                                | 0.705<br>210    | 0.678<br>290                    | 0.946<br>250           | 0.475<br>300          | 0.984<br>310              |
|                | WORCESTE                        | R VEL (MPH)                 | 8                                                                 | 8.2                         |                        | 7.9             | 6<br>0                                                                                      | 00 (<br>1 47 (  | 6.2                             | 0<br>7<br>7            | 7.5                   | ი<br>ი<br>ი               |
|                |                                 | SPD (MPH)<br>RATIC          | 10.1<br>0.818                                                     | 8.3<br>0.978                | <b>0.</b> 268          | 8.5<br>0.937    | 7.2<br>0.873                                                                                | 5.6<br>0.883    | 996.0                           | 0.002                  | 0.840                 | 0.935                     |
| UTINA NATIONAL | 1 TILCK                         | ע<br>ע<br>ד                 | 100                                                               | 611                         | 111                    | 08              | 79                                                                                          | 76              | 75                              | 71                     | 69                    | 68                        |
| 5042           |                                 | DATE                        | 2/21/80                                                           | 12/23/80                    | 3/ 4/80                | 1/10/80         | 3/10/80                                                                                     | 4/ 3/80         | 6/ 2/80                         | 12/17/80               | 1/22/80               | 11/23/80                  |
|                | METEOROLOGICAL SITE             | E DIR (DEG)                 | 300                                                               | 330                         | 230                    | 270             | 130                                                                                         | 220             | 240                             | 340                    | 210<br>6.8            | 230<br>6.9                |
|                |                                 | KN VEL (MPH)<br>SPD (MPH)   | ი.<br>ი.<br>ი.<br>თ                                               | 0<br>- 0                    | 12.7                   | - 00            | ה מ<br>ה ס                                                                                  | , 00<br>, 00    | 10.5                            | 12.8                   | 8.2                   | 7.3                       |
|                |                                 | RATIC                       | 0.693                                                             | 0.261                       | 0.940                  | 0.228           | 0.639                                                                                       | 0.350           | 0.969<br>0.9                    | 0.948<br>248           | 0.828<br>210          | 0.947                     |
|                | METEOROLOGICAL SITI             | E DIR (DEG)<br>-v vei (MPH) | 330<br>6.8                                                        | 160<br>0.6                  | 0 4<br>7 7<br>7 7      | 2-2             | - 20<br>5.6                                                                                 | 2.5             | 1.9                             | 0<br>. 1<br>. 1        | 4 C1                  |                           |
|                |                                 | SPD (MPH)                   | 7.5                                                               | 0.6                         | ນ<br>ເ                 | 6.5             | 6.8                                                                                         | ດ.<br>ເ         | 4.2                             | 9.6                    | 5.3<br>1.3            | د.<br>د.                  |
|                |                                 | RATIC                       | 0.905                                                             | 0.996                       | 0.810                  | 0.412           | 0.823                                                                                       | 0.465           | 0.451                           | 0.844<br>200           | 0.481<br>240          | 210                       |
|                | METEUKULUGICAL SIN<br>BRIDGEPON | E DIK (DEG)<br>RT VEL (MPH) | 5.7<br>6.7                                                        | 2.9<br>2.9                  | 10.3                   | 0 4<br>0 0      | 5.8                                                                                         | 5.3<br>2.3      | 7.0                             |                        | 6.7                   | 0 e                       |
|                |                                 | SPD (MPH)                   | 9.2<br>773                                                        | ດ.5<br>ດາດ                  | 11.6<br>7 888          | 9.8<br>0 433    | 0 665<br>0                                                                                  | 11.1<br>0.475   | 7.6<br>0.915                    | 13.5<br>0,984          | 11.2<br>0.648         | 6.0<br>0.767              |
|                | METEOROLOGICAL SITI             | E DIR (DEG)                 | 310                                                               | 200                         | 260                    | 270             | 210                                                                                         | 000             | 270                             | 010<br>0 0             | 230                   | 270                       |
|                | WORCEST                         | ER VEL (MPH)<br>SPD (MPH)   | 10.1                                                              | 2                           | N 07                   | ។ ហ             |                                                                                             | ດ<br>ເ<br>ເ     | - 4                             | າຫ<br>                 | 5.3                   | 7.6                       |
|                |                                 | RATIC                       | 0.818                                                             | 0.697                       | 0.978                  | 0.813           | 0.873                                                                                       | 0.840           | 0.268                           | 0.935                  | 0.695                 | 0.910                     |
| NEW            | BRITAIN                         | 123 111                     | 114                                                               | 102                         | 91                     | 85              | 85<br>2007                                                                                  | 79<br>79        | 76                              | 73<br>0/4/00           | 73<br>2/10/20         | 69<br>67 7/80             |
|                |                                 | DATE<br>E DIP (DEG)         | 2/21/80<br>300                                                    | 5/24/80<br>170              | 5/ 5/80<br>260         | 12/23/8U<br>330 | 8/28/80<br>300                                                                              | 270             | 230                             | 180                    | 220                   | 240                       |
|                |                                 | RK VEL (MPH)                |                                                                   | - 4                         | 2.1                    |                 | 2.7                                                                                         | ດ.<br>ທີ່ເ      | 0<br>0<br>0<br>0                | ດາມ<br>ຈະດ             | 00<br>44              | 10.2<br>7 R               |
|                |                                 | SPD (MPH)                   | 9.3<br>D.693                                                      | 6.9<br>0.665                | 0,204                  | 0.261           | в.3<br>0,321                                                                                | 0.906<br>0      | 0.964                           | 0.581                  | 0.743                 | 0.969                     |
|                | METEOROLOGICAL SIT              | E DIR (DE                   | 330                                                               | 170                         | 50                     | 160             | , 50<br>, 50                                                                                | 200             | 280                             | 800<br>7               | 00<br>00<br>10        | 2<br>2<br>0<br>0          |
|                | BRADL                           | EY VEL (MP.)<br>SPD (MP.)   | 6.8<br>7 5                                                        | 2.8                         | 0.7<br>4.0             | 0.6<br>0.6      | 4 N<br>- O                                                                                  | ы<br>Ч.         | 2 8 2<br>2 8                    | - 0<br>- 0<br>- 0      | ) ()<br>f ()          | - 4                       |
|                |                                 | RATIC                       | 0.905                                                             | 0.395                       | 0.424                  | 0.996           | 0.714                                                                                       | 0.801           | 0.258                           | 0.731                  | 0.700                 | 0.451                     |

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# Table 12, Continued

| CONNECTI | CUT DEPARTMENT OF ENV.                                                | I ROMENTAL P                                                                                 | ROTECTION                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                 |                                                                         | PAGE                                                        | £<br>€                                    |                                                                                                  |                                                                                             | AIR COMPI                                                                                                                                                                                               | LIANCE ENC                                                                                  | INEERING                                     |             |
|----------|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------|-------------------------------------------------------------------------|-------------------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------|-------------|
| POLLUTAN | ITTOTAL SUSPENDED 241                                                 | 198<br>RTICULATES                                                                            | D TEN HIG                                                                                                                                                                                                                                                                                                                                                                                                                                            | HEST 24 F                                       | IR AVG TSI                                                              | DAYS WI                                                     | TH WIND D                                 | ata.                                                                                             | UNITS : 1                                                                                   | AICROGRAMS                                                                                                                                                                                              | S PER CUBI                                                                                  | C METER                                      |             |
|          | TOWN NAME SI                                                          | re samples                                                                                   | <del>4</del>                                                                                                                                                                                                                                                                                                                                                                                                                                         | 2                                               | ۳)<br>۲                                                                 | <b>থা</b>                                                   | ດ                                         | Q                                                                                                | 7                                                                                           | æ                                                                                                                                                                                                       | Ö                                                                                           | 10                                           |             |
|          | METEOROLOGICAL SITE<br>BRIDGEPORT                                     | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                                          | 320<br>6.7<br>9.2                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0         |                                                                         | 040<br>100<br>100                                           | 4 4 00<br>0 8 - 1 6<br>0 8 9              | 2<br>2<br>3<br>2<br>3<br>2<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3<br>3 | 2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | 5<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9                                                                                                        | 0 8 5<br>0                   | 7.0<br>7.0                                   |             |
|          | METEOROLOGICAL SITE<br>WORCESTER                                      | RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC                                        | 0.723<br>310<br>8.2<br>0.818                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.387<br>70<br>3.3<br>3.3<br>0.660              | 0.896<br>8.3<br>0.967                                                   | 0.526<br>200<br>2.2<br>3.2<br>0.697                         | 0.407<br>340<br>5.5<br>0.339              | 0.890<br>270<br>7.4<br>0.965                                                                     | 0.843<br>270<br>7.9<br>0.937                                                                | 0<br>0,4 5,70<br>0,6 6 0 0,6<br>0,6 6 0,6<br>0,6 6 0,6<br>0,7<br>0,7<br>0,7<br>0,7<br>0,7<br>0,7<br>0,7<br>0,7<br>0,7<br>0,7 | 0.00,00,00,00,00,00,00,00,00,00,00,00,00                                                    | 0.915<br>24.10<br>26.2<br>0.25<br>0.26<br>88 |             |
| M E N    | HAVEN<br>METEOROLOGICAL SITE<br>NEWARK                                | 2 52<br>DATE<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                          | 190<br>7/20/80<br>230<br>10.8                                                                                                                                                                                                                                                                                                                                                                                                                        | 157<br>2/21/80 1<br>300<br>6.5<br>9.3           | 111<br>12/23/80<br>1.8<br>1.8                                           | 105<br>3/ 4/80<br>230<br>11.9<br>12.7                       | 101<br>6/2/80<br>240<br>10.2<br>10.5      | 5/ 3/80<br>280<br>7.5<br>10.5                                                                    | 83<br>6/14/80<br>150<br>2.8<br>7.6                                                          | 79<br>8/1/80<br>180<br>4.9<br>8.5                                                                                                                                                                       | 3/10/80<br>130<br>5.9<br>9.2                                                                | 7/26/80<br>210<br>4.7<br>7.8                 |             |
|          | METEDROLOGICAL SITE<br>BRADLEY                                        | RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC                                        | 0.964<br>280<br>2.3<br>8.8<br>258                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.693<br>330<br>6.8<br>7.5<br>0.905             | 0.261<br>160<br>0.6<br>0.96                                             | 0.940<br>240<br>4.4<br>0.810                                | 0.969<br>210<br>1.9<br>0.451              | 0.712<br>260<br>2.60<br>5.6<br>0.359                                                             | 0, 363<br>60<br>2.3<br>0.63<br>3.6<br>0.63<br>33                                            | 0.581<br>200<br>4.1<br>6.5.6<br>0.731                                                                                                                                                                   | 0.639<br>190<br>5.6<br>0.823                                                                | Table 1                                      | Table 1     |
| •        | METEOROLOGICAL SITE<br>BRIDGEPORT<br>METEOROLOGICAL SITE<br>WORCESTER | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC | 210<br>9.8<br>0.843<br>0.843<br>0.843<br>0.835<br>0.937                                                                                                                                                                                                                                                                                                                                                                                              | 320<br>6.7<br>9.2<br>310<br>310<br>8.2<br>0.818 | 0.526<br>2.20<br>2.20<br>2.20<br>0.3.2<br>0.00<br>0.3.2<br>0.00<br>0.00 | 240<br>10.3<br>11.6<br>0.888<br>260<br>8.2<br>0.978         | 230<br>7.0<br>915<br>270<br>1.1<br>1.1    | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                            | 0 352<br>30 352<br>0 5 30<br>2 80<br>2 80                                                   | 0<br>4<br>4<br>6<br>4<br>7<br>7<br>7<br>7<br>6<br>4<br>7<br>6<br>7<br>6<br>7<br>6<br>7<br>6<br>7<br>6                                                                                                   | 0.873<br>0.665<br>0.7.2<br>0.7.2                                                            |                                              | 2 Continued |
| M E M    | HAVEN 1<br>METEOROLOGICAL SITE<br>NEWARK                              | 23 113<br>DATE 1<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                      | 165<br>2/17/80<br>340<br>12.1<br>12.8                                                                                                                                                                                                                                                                                                                                                                                                                | 164<br>2/21/80<br>300<br>6.5<br>9.3             | 143<br>6/23/80<br>190<br>8.1<br>9.1                                     | 131<br>5/24/80<br>170<br>6.9                                | 122<br>11/20/80<br>6.9<br>7.6             | 119<br>4/3/80<br>220<br>8.3                                                                      | 3/ 4/80<br>23/ 4/80<br>11.9<br>12.7                                                         | 7/20/80<br>230<br>10.8                                                                                                                                                                                  | 114<br>12/ 8/80<br>220<br>9.9                                                               | 4/18/<br>310<br>7.9                          |             |
|          | METEOROLOGICAL SITE<br>BRADLEY<br>METEOROLOGICAL SITE                 | RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC<br>DIR (DEG)                           | 0-948<br>340<br>8.1<br>8.46<br>8.44<br>8.44<br>8.20                                                                                                                                                                                                                                                                                                                                                                                                  | 0.693<br>330<br>6.8<br>9.5<br>320<br>320        | 0 895<br>895<br>2222<br>2222<br>2222<br>2222<br>2222<br>2222<br>22      | 0.665<br>170<br>2.8<br>7.0<br>0.395<br>130                  | 0.906<br>210<br>2.10<br>2.8<br>3.4<br>260 | 0.350<br>290<br>2.5<br>2.5<br>230<br>230                                                         | 0.940<br>240<br>5.5<br>240<br>810<br>240                                                    | 0.964<br>280<br>2.3<br>2.3<br>2.3<br>2.58<br>2.58<br>210                                                                                                                                                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.611<br>310<br>5.3<br>0.794<br>240          |             |
|          | BRIDGEPORT<br>METEOROLOGICAL SITE<br>WORCESTER                        | VEL (WPH)<br>SPD (MPH)<br>RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC              | <b>0</b> 0 30.0<br>0 0 0 0 0<br>0 0 0 0 0<br>0 0 0 0 0<br>0 0 0 0 0<br>0 0 0 0 0 0<br>0 0 0 0 0 0 0<br>0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 | 6.7<br>9.2<br>310<br>8.2<br>0.818               | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                   | 3.3<br>8.5<br>0.387<br>70<br>3.3<br>70<br>70<br>60<br>0.660 | 8.3<br>9.3<br>270<br>7.4<br>0.965         | 5.3<br>11.1<br>300<br>300<br>8.9<br>8.9<br>8.9                                                   | 10.3<br>0.888<br>260<br>88.2<br>88.2<br>88.2<br>87.3<br>7<br>87.3<br>7<br>87.3              | 9.8<br>0.870<br>0.70<br>0.970<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.9<br>0.                                                                                                      | 1,00.0<br>0,000<br>0,000<br>0,00<br>0,00<br>0,00<br>0,00<br>0                               |                                              |             |

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| CONNECTICUT DEPARTMENT OF EN                                          | NVIROMENTAL P                                                                                                  | ROTECTIO                                                                                       | Z                                                                                                     |                                                                                                       | PAGE                                                                                                   | 44                                                                                          |                                                                                                          |                                                                                                                 | AIR COMPI                                                                                                                    | IANCE EN                                                                                         | INEERING                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |
|-----------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---|
| POLLUTANTTOTAL SUSPENDED                                              | 198<br>PARTICULATES                                                                                            | O TEN HI                                                                                       | GHEST 24                                                                                              | HR AVG TS                                                                                             | P DAYS WI                                                                                              | TH WIND D                                                                                   | NTA.                                                                                                     | UNITS : I                                                                                                       | WICROGRAMS                                                                                                                   | S PER CUB                                                                                        | IC METER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |   |
| TOWN NAME                                                             | SITE SAMPLES                                                                                                   | ۳                                                                                              | CI                                                                                                    | ო                                                                                                     | <b>ব</b>                                                                                               | a                                                                                           | Ø                                                                                                        | 7                                                                                                               | 0)                                                                                                                           | ማ                                                                                                | 10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |   |
| NORWALK                                                               | 5 117<br>DATE                                                                                                  | 142<br>7/21/00                                                                                 | 134<br>2/ 7/80                                                                                        | 133                                                                                                   | 124<br>10/17/80                                                                                        | 118<br>E/37/00                                                                              | 111                                                                                                      | 109<br>109                                                                                                      | 104<br>107 0/80                                                                                                              | 101<br>176/20                                                                                    | 100<br>7/11/RO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |   |
| METEOROLOGICAL SITI<br>NEWA                                           | E DIR (DEG)<br>RK VEL (MPH)<br>SPD (MPH)                                                                       | <pre></pre>                                                                                    | 9.190<br>9.18<br>9.1                                                                                  | 14/20<br>230<br>6.8<br>6.9                                                                            | 12.8                                                                                                   | 0,44/<br>170<br>6.9<br>0.9                                                                  | 230<br>10.8<br>11.2                                                                                      | 16.5<br>16.5                                                                                                    | 2000<br>0.00<br>10.00                                                                                                        | 15.6<br>15.6                                                                                     | - 0 0 0 0<br>- 0 0 0 0<br>- 0 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |   |
| METEOROLOGICAL SITI<br>BRADLI                                         | E DIR (DEG)<br>EV VEL (MPH)<br>SPD (MPH)                                                                       | 0.693<br>330<br>6.8<br>7.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0.5<br>0 | 0.861<br>210<br>5.7<br>6.3<br>6.3                                                                     | 0.989<br>2000<br>30.490<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2000<br>2                  | 0.948<br>340<br>9.6<br>740                                                                             | 0.665<br>170<br>2.8<br>7.0                                                                  | 0.964<br>2.80<br>2.3<br>2.3<br>2.3<br>2.3<br>2.3<br>2.3<br>2.3<br>2.3<br>2.3<br>2.3                      | 0.980<br>350<br>11.7<br>12.1                                                                                    | 0.900<br>4 4 0<br>6 4 9<br>0 9 9<br>0 9 9<br>0 9 9<br>0 9                                                                    | 0.979<br>10.30<br>11.1<br>64                                                                     | 0.240<br>23.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>28.50<br>29.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50<br>20.50 |   |
| METEOROLOGICAL SIT<br>BRIDGEPO<br>METEOPOLOGICAL SIT                  | E DIR (DEG)<br>RT VEL (MPH)<br>SPD (MPH)<br>RATIO                                                              | 0.723                                                                                          | 0.0210<br>0.657<br>0.557                                                                              | 0<br>8<br>7<br>4<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0                                            | 0.387<br>0.387                                                                              | 0.810<br>0.843<br>0.75<br>0.843<br>0.843<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75<br>0.75 | 310<br>17.1<br>0.955                                                                                            | 1.000<br>1.000<br>1.000                                                                                                      | 0<br>1<br>0<br>1<br>0<br>1<br>0<br>1<br>0<br>0<br>1<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |
| MEI FUKULUGI LAL STI<br>WORCEST                                       | E UIK (DEG)<br>ER VEL (MPH)<br>SPD (MPH)<br>RATIC                                                              | 310<br>8.2<br>10.1<br>0.818                                                                    | 230<br>5.8<br>6.3<br>0.918                                                                            | 200<br>7.7<br>9.1<br>0.854                                                                            | 0.00.0<br>0.0<br>0.0<br>0<br>0<br>0                                                                    | 3.3<br>5.0<br>0.660                                                                         | 2/0<br>8.5<br>0.937                                                                                      | 20.3<br>20.3<br>0.982                                                                                           | 0.976<br>0.3<br>0.9<br>0.9<br>0                                                                                              | 0,000°<br>0,00°<br>0,00°<br>0,00°                                                                | 40<br>7.6<br>0.973<br>0.973                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |   |
| NDRWICH<br>METEOROLOGICAL SIT                                         | 1 60<br>DATE<br>E DIR (DEG)                                                                                    | 102<br>2/21/80<br>300                                                                          | 87<br>3/ 4/80<br>230                                                                                  | 84<br>12/17/80<br>340                                                                                 | 81<br>4/27/80<br>80                                                                                    | 81<br>12/23/80<br>330                                                                       | 81<br>6/2/80<br>240                                                                                      | 79<br>8/1/80<br>180                                                                                             | 1/10/80<br>270                                                                                                               | 3/10/80<br>130<br>130                                                                            | 68<br>7/20/80<br>230                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | - |
| NEWA<br>METEOROLOGICAL SIT<br>BRADL                                   | KK VEL (MPH)<br>SPD (MPH)<br>RATIC<br>E DIR (DEG)<br>E VEL (MPH)<br>RATIC<br>RATIC                             | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0    | 0.5.7<br>2400<br>2400<br>8.5<br>810<br>810                                                            | 0.948<br>9.66<br>9.66<br>9.6                                                                          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                     | 0.261<br>0.261<br>0.66<br>0.66<br>0.66                                                      | 0,00<br>0,00<br>0,00<br>0,00<br>0,00<br>0,00<br>0,00<br>0,0                                              | 0.581<br>200<br>200<br>4.1<br>731<br>731                                                                        | 0<br>250<br>250<br>412<br>412                                                                                                | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 0 11:28<br>280<br>2.80<br>2.3<br>0 8.8<br>2.3<br>0 258<br>0 258                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |
| METEOROLOGICAL SIT<br>BRIDGEPO<br>METEOROLOGICAL SIT<br>WORCEST       | TE DIR (DEG)<br>DRT VEL (MPH)<br>SPD (MPH)<br>RATIC<br>TE DIR (DEG)<br>TER VEL (MPH)<br>RATIC<br>RPH)<br>RATIC | 0.723<br>310<br>310<br>8.2<br>8.2<br>818                                                       | 260<br>260<br>260<br>8.2<br>8.3<br>260<br>8.3<br>260<br>8.3<br>260<br>8.3<br>260<br>8.3<br>260<br>8.3 | 0,00,00<br>0,00,00<br>0,00,00<br>0,00,00<br>0,00,00<br>0,00,0                                         | 70<br>12.8<br>14.2<br>5.9<br>0.8<br>0.3<br>0.3<br>0.3<br>0.3<br>0.3<br>0.3<br>0.3<br>0.3<br>0.3<br>0.3 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 2330<br>2.1.0<br>2.70<br>2.15<br>1.1<br>2.68<br>2.68                                                     | 0<br>4<br>4<br>7<br>8<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>0<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 0<br>89.4904<br>80.4708<br>80.4708<br>80.4308<br>80.4308<br>810<br>810<br>810<br>810<br>810<br>810<br>810<br>810<br>810<br>8 | 0.655<br>0.665<br>0.310<br>0.320<br>0.33<br>0.33<br>0.33<br>0.33<br>0.33<br>0.33<br>0.           | 0<br>10.0<br>10.0<br>10.0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |   |
| STAMFORD<br>METEOROLOGICAL SIT<br>NEWA<br>METEOROLOGICAL SIT<br>BRADL | 7 59<br>DATE<br>DATE<br>DIR (DEG)<br>ARK VEL (MPH)<br>RATIC<br>RATIC<br>FE DIR (DEG)<br>LEY VEL (MPH)<br>RATIC | 7/20/80<br>230<br>10.8<br>11.2<br>11.2<br>280<br>2.3<br>0.258<br>0.258                         | 7/ 114<br>220<br>220<br>220<br>200<br>7.5<br>0.946<br>0.946                                           | 2/21/80<br>300<br>6.5<br>9.3<br>9.693<br>330<br>6.8<br>6.8<br>7.5                                     | 8/1/80<br>180<br>4.9<br>8.5<br>0.581<br>200<br>4.1<br>4.1<br>200<br>0.731                              | 3/28/80<br>3/28/80<br>7.1<br>8.1<br>8.1<br>190<br>190<br>7.2<br>0.961                       | 7/26/80<br>210<br>210<br>4.7<br>7.8<br>810<br>310<br>1.4<br>1.4<br>0.540                                 | 6/ 91<br>240<br>10.2<br>10.2<br>10.2<br>210<br>210<br>1.9<br>210<br>2.40<br>0.451                               | 5/27/80<br>310<br>14.3<br>14.3<br>14.3<br>14.3<br>10.8<br>0<br>10.5<br>10.5<br>38<br>0.9<br>38                               | 87<br>87<br>85<br>85<br>8.290<br>8.4<br>9.651<br>8.3<br>0.651<br>0.657<br>0.657                  | 6/14/80<br>150<br>2:8<br>36:3<br>2:8<br>2:3<br>2:3<br>0.63<br>3:6<br>0.63<br>3:3<br>0.63<br>3:3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |   |

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| CONNECTICUT DEPARTMENT OF            | ENVIROMENTAL                                                    | PROTECTIO                                                                                     | Z                                                                                                |                                                                                                  | PAGE                                                                                             | 15                                                                                      |                                                                                                        |                                                                                                            | AIR COWP                                                                                                       | LIANCE ENG                                                                                           | SINEERING                                                                                     |
|--------------------------------------|-----------------------------------------------------------------|-----------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|
| POLLUTANTTOTAL SUSPENDE              | 19<br>D PARTICULATES                                            | BO TEN HI                                                                                     | GHEST 24 I                                                                                       | HR AVG TS                                                                                        | P DAYS WI                                                                                        | TH WIND D                                                                               | ATA.                                                                                                   | UNITS : I                                                                                                  | WI CROGRAM                                                                                                     | S PER CUB.                                                                                           | IC WETER                                                                                      |
| TOWN NAME                            | SITE SAMPLES                                                    | <del>ç.</del>                                                                                 | N                                                                                                | M                                                                                                | শ্ব                                                                                              | ល                                                                                       | Q                                                                                                      | 7                                                                                                          | 10                                                                                                             | ወ                                                                                                    | 10                                                                                            |
| METEOROLOGICAL S<br>BRIDGE           | ITE DIR (DEG)<br>PORT.VEL (MPH)<br>SPD (MPH)                    | 210<br>9.8<br>11.6                                                                            | 170<br>6.6<br>8                                                                                  | 320<br>6.7<br>2                                                                                  | - 4 C<br>0 4 C                                                                                   | 210<br>7.8<br>2                                                                         | 8 8 7<br>8 7 | 230<br>7.0<br>7.0                                                                                          | ເດ ເຊັ່ນ<br>ເຊິ່າ<br>ເຊິ່າ                                                                                     | 000<br>000<br>040                                                                                    | 200                                                                                           |
| METEOROLOGICAL S<br>WORCE            | LITE DIR (DEG)<br>STER VEL (MPH)<br>RATIC                       | 0.843<br>270<br>7.9<br>0.937                                                                  | 0.755<br>220<br>8.0<br>8.6<br>0.929                                                              | 0.723<br>310<br>8.2<br>10.1<br>0.818                                                             | 0.705<br>2.10<br>5.6<br>883<br>883                                                               | 0.946<br>250<br>6.2<br>6.9<br>0.902                                                     | 0.749<br>280<br>5.9<br>6.2<br>0.962                                                                    | 0.915<br>270<br>1.1<br>4.2<br>0.268                                                                        | 0.00<br>9.00<br>9.00<br>9.00<br>9.00<br>9.00<br>9.00<br>9.00                                                   | 0.00<br>2.00<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50                                         | 0<br>200<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
| STAMFORD                             | 123 58                                                          | 120                                                                                           | 109                                                                                              | 106                                                                                              | 100                                                                                              | <b>0</b> 6                                                                              | 8                                                                                                      | 82                                                                                                         | 82                                                                                                             | 08                                                                                                   | 77                                                                                            |
| METEOROLOGICAL S<br>NE               | DATE<br>ITE DIR (DEG)<br>WARK VEL (MPH)<br>SPD (MPH)            | 2/21/80<br>300<br>6.5                                                                         | 6/ 2/80<br>240<br>10.2                                                                           | 8/ 1/80<br>180<br>4.9<br>8 5                                                                     | 3/ 4/80<br>230<br>11.9                                                                           | 7/20/80<br>230<br>10.8                                                                  | 4/ 3/80<br>220<br>2.9                                                                                  | 3/10/80<br>130<br>5.9                                                                                      | 6/14/80<br>150<br>2.8                                                                                          | 12/23/80<br>330<br>1.8                                                                               | 3/28/80<br>170<br>7.1                                                                         |
| METEOROLOGICAL S<br>Bra              | ITE DIR (DEG)<br>DLEY VEL (MPH)<br>SPD (MPH)                    | 0.693<br>330<br>6.8<br>7.5                                                                    | 0<br>2669<br>210<br>210<br>200<br>2.2                                                            | 0.581<br>200<br>5.6                                                                              | 0<br>0<br>040<br>040<br>040<br>040                                                               | 0<br>- 96<br>- 96<br>- 8<br>- 8<br>- 8<br>- 8<br>- 8<br>- 8<br>- 8<br>- 8<br>- 8<br>- 8 | 0.350<br>9.90<br>9.90<br>9.90<br>9.90<br>9.90<br>9.90<br>9.90<br>9.                                    | 0.039<br>5.00<br>6.80<br>6.80<br>6.80<br>6.80<br>7.80<br>7.80<br>7.80<br>7.80<br>7.80<br>7.80<br>7.80<br>7 | 0<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9               | 0.00                                                                                                 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |
| METEOROLOGICAL S<br>Bridge           | RATIC<br>IITE DIR (DEG)<br>PORT VEL (MPH)<br>SPD (MPH)          | 0.905<br>320<br>6.7<br>9.2                                                                    | 0.451<br>230<br>7.0<br>7.6                                                                       | 0,731<br>140<br>6,2<br>6,2                                                                       | 0.810<br>240<br>10.3<br>11.6                                                                     | 0.258<br>210<br>9.8<br>11.6                                                             | 0.465<br>230<br>5.3                                                                                    | 0.823<br>120<br>5.8<br>8.8                                                                                 | 0.633<br>200<br>4.9                                                                                            | ວ.990<br>ສຸດ90<br>ຫຼາຍ<br>ຫຼາຍ                                                                       | 001<br>00000<br>00000<br>00000<br>00000                                                       |
| METEOROLOGICAL S<br>WORCE            | RATIC<br>ITE DIR (DEG)<br>SSTER VEL (MPH)<br>SPD (MPH)<br>RATIC | 0.723<br>310<br>8.2<br>0.818                                                                  | 0.915<br>270<br>1.1<br>0.268                                                                     | 0.705<br>210<br>85.69<br>883                                                                     | 0.888<br>260<br>8.2<br>8.3<br>0.978                                                              | 0.843<br>270<br>7.9<br>8.5<br>0.937                                                     | 0.475<br>300<br>7.50<br>840<br>840                                                                     | 0.665<br>210<br>6.3<br>0.873                                                                               | 0.352<br>30<br>8.5<br>8.3<br>0.2<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80 | 0.526<br>2.20<br>0.697                                                                               | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   |
| STRATFORD<br>Meteorological S<br>'NE | 5 58<br>DATE<br>DIR (DEG)<br>WARK VEL (MPH)<br>SPD (MPH)        | 138<br>2/21/80<br>300<br>6.5                                                                  | 119<br>12/17/80<br>340<br>12.1                                                                   | 106<br>6/2/80<br>240<br>10.2                                                                     | 96<br>3/ 4/80<br>230<br>11.9                                                                     | 95<br>7/20/80<br>230<br>10.8                                                            | 93<br>1/80<br>4.9<br>4.9                                                                               | 84<br>10/80<br>1.9<br>1.9                                                                                  | 7/ 2/80<br>220<br>2.7                                                                                          | 73<br>2/27/80<br>230<br>10.5                                                                         | 71<br>3/28/80<br>170<br>7.1                                                                   |
| METEOROLOGICAL S<br>BRA              | RATIC<br>SITE DIR (DEG)<br>(DLEY VEL (MPH)<br>SPD (MPH)         | 0.693<br>330<br>6.8<br>7.5                                                                    | 0.948<br>340<br>8.1                                                                              | 0<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | 0<br>0<br>0<br>0<br>4<br>0<br>4<br>0<br>0<br>4<br>0<br>0<br>0<br>4<br>0<br>0<br>0<br>0<br>0<br>0 | 0<br>280<br>8.3<br>8.3<br>8.3                                                           | 0.581<br>200<br>5.6<br>6.1                                                                             | 0.228<br>2.7<br>6.5                                                                                        | 0.258<br>7.5                                                                                                   | 0.759<br>7.7<br>9.2                                                                                  | 0.880<br>190<br>7.2<br>7.5                                                                    |
| METEOROLOGICAL S<br>BRIDGE           | RATIC<br>SITE DIR (DEG)<br>PORT VEL (MPH)<br>SPD (MPH)          | 0.909<br>9.70<br>9.72<br>9.72<br>9.73<br>9.73<br>9.73<br>9.73<br>9.73<br>9.73<br>9.73<br>9.73 | 0.844<br>320<br>13.3<br>13.5                                                                     | 0.451<br>230<br>7.6                                                                              | 0.810<br>240<br>10.3                                                                             | 0.258<br>210<br>210<br>210<br>210                                                       | 0.731<br>4.40<br>4.20<br>4.20                                                                          | 0<br>412<br>280<br>280<br>80<br>80<br>80<br>80                                                             | 0,0<br>0,0<br>0,0<br>0,0<br>0,0<br>0,0<br>0,0<br>0,0<br>0,0<br>0,0                                             | 0.83<br>20.20<br>20.20<br>20.20                                                                      | 0.961<br>210<br>8.2<br>8.2                                                                    |
| METEDROLOGICAL S<br>WORCE            | SITE DIR (DF.)<br>SITE VEL (MF. 4<br>SPD (MP. 100)              | 0.810<br>8.2<br>0.818                                                                         | 0<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 | 0.268<br>0.268                                                                                   | 0.978<br>0.978<br>0.978                                                                          | 0.843<br>7.0<br>8.5<br>0.937                                                            | 0.210<br>210<br>8.6<br>8.6<br>8.6<br>8.6<br>8.6<br>8.6                                                 | 0 570<br>815<br>815<br>815                                                                                 | 6.000<br>00000<br>0000<br>00000<br>00000<br>00000<br>00000<br>0000                                             | 0.00<br>80<br>80<br>31<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0                                   |

| CONNECTICUT DEPAR      | RTMENT OF ENVI              | CROMENTAL PI                                 | ROTECTION                                                            |                                                                                               |                                                              | PAGE                                                                                                                                                                                                                                                                                                                                                                                                     | 16                                                                                          |                                                                                             |                                                                                     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| POLLUTANTTOTAL         | SUSPENDED "AR               | 1981<br>RTICULATES                           | O TEN HIG                                                            | HEST 24 H                                                                                     | IR AVG TSF                                                   | DAYS WIT                                                                                                                                                                                                                                                                                                                                                                                                 | ONIM H.                                                                                     | TA.                                                                                         | UNITS : 1                                                                           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                                                                   | PER CUB                                                                                     | IC METER                                                                                                   |
| TOWN NAN               | AE SIT                      | re samples                                   | *                                                                    | N                                                                                             | ო                                                            | থ                                                                                                                                                                                                                                                                                                                                                                                                        | ស                                                                                           | 9                                                                                           | 7                                                                                   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                                                                   | Ø                                                                                           | 0                                                                                                          |
| TORRINGTON             | 2                           | 23 119<br>DATE                               | 134<br>2/ 4/00 1                                                     | 111<br>2/47/80                                                                                | 109<br>5/8/801                                               | 106<br>11/23/80                                                                                                                                                                                                                                                                                                                                                                                          | 105<br>3/19/80                                                                              | 104<br>10/11/80                                                                             | 101<br>10/23/80                                                                     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                                                                   | 94<br>17780.                                                                                | 94<br>17/70/80                                                                                             |
| METEOROL               | LOGICAL SITE<br>Newark      | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)          | 2/2/2/20<br>11.9<br>12.7                                             | 12.1<br>12.1<br>12.8                                                                          | 9.3<br>9.3<br>14.1                                           | 230<br>6.9<br>7.3                                                                                                                                                                                                                                                                                                                                                                                        | 20-1-2-2-00<br>1-2-1-2-00                                                                   | 11.8<br>13.9                                                                                | 1.8<br>6.9<br>6.9                                                                   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                                                                   | 200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200<br>200                          | 12.0<br>12.0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0     |
| METEOROL               | LOGICAL SITE<br>BRADLEY     | NALLC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH) | 0.240<br>0.51<br>0.51<br>0.51<br>0.51<br>0.51<br>0.51<br>0.51<br>0.5 | 0.948<br>940<br>9.6                                                                           | 0.00<br>0.00<br>0.10<br>0.10<br>0.10<br>0.10                 | 0.247<br>7.10<br>7.30<br>7.60<br>7.60                                                                                                                                                                                                                                                                                                                                                                    | 0,784<br>0,80<br>0,6<br>0,6<br>0,6<br>0,6<br>0,6<br>0,6<br>0,6<br>0,6<br>0,6<br>0,          | 0.848<br>330<br>8.0<br>11.1                                                                 | 0.6<br>0.6<br>0.6<br>0.6                                                            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| 0.00<br>210<br>0.30<br>0.30<br>0.30                                                         | 00.00<br>00.00<br>00.00<br>00.00                                                                           |
| METEOROI               | LOGICAL SITE<br>BRIDGEPORT  | VEL (MPH)<br>SPD (MPH)                       | 240<br>10.3                                                          | 13.00<br>13.00<br>13.00                                                                       | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                        |                                                                                                                                                                                                                                                                                                                                                                                                          | 2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | 14.00<br>14.00<br>14.00                                                                     | 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| METEORO                | LOGICAL SITE<br>WORCESTER   | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC | 0.978                                                                | 0.9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 | 280<br>7.7<br>0.691                                          | 270<br>270<br>6.9<br>7.6<br>0.910                                                                                                                                                                                                                                                                                                                                                                        | 280<br>11-4<br>0.944                                                                        | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 2200<br>2.2200<br>3.2<br>697                                                        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                                                                   | 0.918<br>918<br>918                                                                         | 00000<br>00000<br>0000<br>0000                                                                             |
| VOLUNTOWN              |                             | 1 118<br>DATE                                | 81<br>5/24/80                                                        | 80<br>6/ 8/80                                                                                 | 67<br>7/11/80                                                | 67<br>8/ 1/80                                                                                                                                                                                                                                                                                                                                                                                            | 66<br>2/ 9/80                                                                               | 62<br>6/ 2/80                                                                               | 60<br>7/20/80                                                                       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                                                                   | 53<br>7/ 5/80                                                                               | 51<br>8/ 4/80                                                                                              |
| METEORO                | LOGICAL SITE<br>Newark      | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)          | 170<br>4.6<br>6.9                                                    | 0.0<br>0.0<br>14.1                                                                            | 0.0<br>0.0<br>0.0<br>0.0                                     | 2 4 0<br>7 4 0<br>7 5 0<br>7 6 0<br>7 7 6 0<br>7 6 0<br>7 6 0<br>7 6 0<br>7 6 0<br>7 6 0<br>7 7 6 0<br>7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 | . 4.3<br>7.8<br>7.8                                                                         | 240<br>10.5                                                                                 | 230                                                                                                                                                                                                                                                                                                                                             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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 170<br>2.6<br>2.6                                                                           | 0<br>8<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>7<br>9<br>0<br>9<br>7<br>9<br>0<br>9<br>0<br>9<br>0<br>9 |
| METEORO                | LOGICAL SITE<br>BRADLEY     | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)          | 0.000<br>170<br>2.8<br>7.0<br>395                                    | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0.210<br>2.10<br>8.5<br>8.5                                  | 200<br>200<br>7.6<br>7.3                                                                                                                                                                                                                                                                                                                                                                                 | 0 5.3<br>830<br>830                                                                         | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 258<br>2.3<br>258<br>258<br>258<br>258<br>258<br>258<br>258<br>258<br>258<br>258                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0.857<br>0.857                                                                              | 0<br>6<br>8<br>7<br>8<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7      |
| METEORO                | ILOGICAL SITE<br>BRIDGEPORT | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)          | 130<br>3.3<br>8.5<br>287                                             | 0.9<br>9.5<br>7.5<br>7.5                                                                      | 0.08<br>0.08<br>0.08<br>0.08<br>0.09<br>0.09<br>0.09<br>0.09 | 04-40<br>4-40<br>4-10<br>4-10<br>70                                                                                                                                                                                                                                                                                                                                                                      | 280<br>5.1<br>7.8<br>0.660                                                                  | 230<br>7.0<br>915                                                                           | 210<br>9.8<br>11.6<br>843                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 310<br>10.4<br>979                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.220<br>3.6<br>418                                                                         | 230<br>8.6<br>9.3<br>0.920                                                                                 |
| METEORO                | NLOGICAL SITE<br>WORCESTER  | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC | 70<br>3.3<br>5.0<br>660                                              | 280<br>7.7<br>11.2<br>0.691                                                                   | 250<br>7.4<br>0.973                                          | 0.83<br>883<br>883                                                                                                                                                                                                                                                                                                                                                                                       | 310<br>7.5<br>8.1<br>0.931                                                                  | 270<br>4.2<br>6.268                                                                         | 270<br>7.9<br>8.5<br>0.937                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0<br>11.30<br>855<br>855                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 220<br>5.2<br>6.9<br>0                                                                      | 260<br>4.8<br>5.6<br>861                                                                                   |
| WALLINGFORD<br>METEORO | NLOGICAL SITE<br>NEWARK     | 1 54<br>DIR (DEG)<br>(MPH)<br>SPD (MPH)      | 112<br>2/21/80<br>300<br>6.5<br>9.3                                  | 102<br>3/ 4/80<br>230<br>11.9<br>12.7                                                         | 95<br>12/23/80<br>330<br>1.8<br>6.9<br>6.9                   | 84<br>12/17/80<br>340<br>12.1<br>12.8<br>0.948                                                                                                                                                                                                                                                                                                                                                           | 3/10/80<br>130<br>5.9<br>9.2                                                                | 78<br>1/10/80<br>270<br>1.9<br>8.2<br>8.2                                                   | 4%/ 3/80<br>4%/ 3/80<br>220<br>2.9<br>8.3<br>0,350                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2/27/80<br>230<br>10.5<br>13.8<br>0.759                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 74<br>1/80<br>180<br>4.9<br>8.5<br>0.581                                                    | 7/ 2/80<br>220<br>220<br>10.4<br>0.258                                                                     |
| METEORO                | JLOGICAL SITE<br>Bradley    | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC | 0.905<br>0.905<br>0.905                                              | 0.810<br>810                                                                                  | 0.996<br>0.6                                                 | 0.845<br>0.845                                                                                                                                                                                                                                                                                                                                                                                           | 190<br>5.6<br>6.8<br>0.823                                                                  | 250<br>2.7<br>6.5<br>0.412                                                                  | 0,400<br>40.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.00<br>60.000<br>60.000<br>60.000<br>60.000<br>60.0000<br>60.0000<br>60.0000<br>60.00000000 | 220<br>7.7<br>834                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 200<br>4.1<br>5.6<br>731                                                                    | 200<br>7.5<br>0.946                                                                                        |

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CONNECTICUT DEPARTMENT OF ENVIROMENTAL PROTECTION

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PAGE

AIR COMPLIANCE ENGINEERING

| WITH WIND DATA. |                                       |
|-----------------|---------------------------------------|
| DAYS            |                                       |
| ISP             |                                       |
| 9 \ 2           |                                       |
| a I             |                                       |
| 5<br>4          |                                       |
| HIGHEST         |                                       |
| TEN             |                                       |
| 1980            | POLLUTANTTOTAL SUSPENDED PARTICULATES |

UNITS : MICROGRAMS PER CUBIC METER

170

140

240

230

280

120

320

340

240

320

METEOROLOGICAL SITE DIR (DEG) BRIDGEPORT VEL (MPH) SPD (MPH) RATIC 0. METEOROLOGICAL SITE DIR (DEG) WORCESTER VEL (MPH) SPD (MPH)

WATERBURY

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SITE SAMPLES

TOWN NAME

|            |           |       |                     |              |             |       |        |          |                     |           |           | Т     | ab                  | 1         | e         | 1     | 2,                  |            | Cc        | 'n            | t.i                 | .n        | ue        | ed    |  |
|------------|-----------|-------|---------------------|--------------|-------------|-------|--------|----------|---------------------|-----------|-----------|-------|---------------------|-----------|-----------|-------|---------------------|------------|-----------|---------------|---------------------|-----------|-----------|-------|--|
| 0.<br>6    | 8.<br>8.  | 0.755 | 220                 | в.0          | 8.6         | 0.929 | 76     | 7/ 2/80  | 220                 | 2.7       | 10.4      | 0.258 | 200                 | 7.5       | 2:9       | 0.946 | 170                 | 6.6        | 8.<br>8   | 0.755         | 220                 | 8.0       | 8.G       | 0.929 |  |
| 4.4        | 6.2       | 0.705 | 210                 | 4<br>0       | ຍິຍ         | 0.883 | 78     | 3/28/80  | 170                 | 7.1       | 8.1       | 0.880 | 190                 | 7.2       | 7.5       | 0.961 | 210                 | 7.8        | 8.2       | 0.946         | 250                 | 6.2       | 0.0       | 0.902 |  |
| 10.2       | 12.4      | 0.823 | 240                 | 5 <b>.</b> 3 | 6.3         | 0.831 | 79     | 6/26/80  | 170                 | 7.5       | 8.8<br>8  | 0.859 | 200                 | 10.1      | 10.5      | 0.962 | 210                 | 10.6       | 11.6      | 0.907         | 240                 | 7.7       | 7.9       | 0.976 |  |
| ນ.<br>ອ    | 1.1       | 0.475 | 300                 | 7.5          | 0°0         | 0.840 | ц<br>Ц | B/ 1/80  | 180                 | 4.9       | 8.5<br>2  | 0.581 | 200                 | 4.1       | 5.6       | 0.731 | 140                 | 4.4        | 6.2       | 0.705         | 210                 | 4.9       | 5.6       | 0.883 |  |
| 4.2        | თ.<br>თ   | 0.432 | 270                 | 4.4          | ີ ມີ        | 0.813 | a      | 7/20/80  | 230                 | 10.8      | 11.2      | 0.964 | 280                 | 2.3       | 8.8       | 0.258 | 210                 | 0<br>0     | 11.6      | 0.843         | 270                 | 7.9       | 8.5<br>5  | 2.937 |  |
| л.<br>8    | 8.8       | 0.665 | 210                 | 6.3          | 7.2         | 0.873 | 100    | 5/21/R0  | 20                  | 12.4      | 13.4      | 0.925 | 10                  | 6.2       | 7.0       | 0.875 | 40                  | 10.4       | 12.1      | 0.857         | 30                  | 5.7       | 6.5<br>0  | 0.889 |  |
| 13.3       | 13.5      | 0.984 | 310                 | в.<br>9      | <b>6</b> .6 | 0.935 | 80 t   | 5/27/80  | 310                 | 13.3      | 14.5      | 0.913 | 310                 | 9.8<br>0  | 10.5      | 0.938 | 310                 | 15.3       | 15.5      | 0.988         | 320                 | 9.6       | 10.4      | 0.929 |  |
| 0.<br>N    | 5.5<br>ເ  | 0.526 | 200                 | 2.2          | 3.2         | 0.697 | 110    | 12/23/80 | 330                 | 1.8       | 6.9       | 0.261 | 160                 | 0.6       | 0.6       | 0.996 | 340                 | 2.9        | 5.5       | 0.526         | 200                 | 2.2       | а.2<br>.2 | 0.697 |  |
| 10.3       | 11.6      | 0.888 | 260                 | 8.2          | 8.3         | 0.978 | C + +  | 2/21/80  | 300                 | 6.5       | ი.<br>მ   | 0.693 | 330                 | 6.8       | 7.5       | 0.905 | 320                 | 6.7        | 0.2       | 0.723         | 310                 | 8.2       | 10.1      | 0.818 |  |
| 6.7        | 9.2       | 0.723 | 310                 | 8.2          | 10.1        | 0.818 | 140    | 3/ 4/80  | 230                 | 11.9      | 12.7      | 0.940 | 240                 | 4.4       | 5.5<br>2  | 0.810 | 240                 | 10.3       | 11.6      | <b>0</b> .888 | 260                 | 8.2       | 8.3       | 0.978 |  |
| VEL (MPH)  | SPD (MPH) | RATIC | DIR (DEG)           | VEL (MPH)    | SPD (MPH)   | RATIC | с<br>С | - DATE   | DIR (DEG)           | VEL (MPH) | SPD (MPH) | RATIC | DIR (DEG)           | VEL (MPH) | SPD (MPH) | RATIC | DIR (DEG)           | VEL (MPH)  | (HdW) Ods | RATIC         | DIR (DEG)           | VEL (MPH) | SPD (MPH) | RATIC |  |
| BRIDGEPORT |           |       | METEDROLOGICAL SITE | WORCESTER    |             |       | FRURY  |          | METEOROLOGICAL SITE | NEWARK    |           |       | METEOROLOGICAL SITE | BRADLEY   |           |       | METEOROLOGICAL SITE | BRIDGEPORT |           |               | METEDROLOGICAL SITE | WORCESTER |           |       |  |

| WATERBUF | ۲۲<br>۲                  | 123   | 116    | 195     | 171     | 160          | 132      | 118     | 117      | 116     | 15       | 115              | ີ່<br>ເບ |
|----------|--------------------------|-------|--------|---------|---------|--------------|----------|---------|----------|---------|----------|------------------|----------|
|          |                          |       | DATE 1 | 2/17/80 | 3/ 4/80 | 2/21/80      | 12/23/80 | 3/ 7/80 | 12/20/80 | 5/24/80 | 3/10/80  | 12/ 8/80         | 1/ 7/80  |
| MET      | <b>TEORDLOGICAL SITE</b> | DIR   | (DEG)  | 340     | 230     | 300          | 330      | 190     | 310      | 170     | 130      | 220              | 210      |
|          | NEWAR                    | K VEL | (MPH)  | 12.1    | 11.9    | 6.5          | 8        | 7.8     | 12.0     | 4.6     | ດ<br>ດີ  | 0°0              | 13.4     |
|          |                          | SPD   | (MPH)  | 12.8    | 12.7    | ю <b>.</b> 0 | 6.9      | 9.1     | 12.8     | 6.9     | 9.2<br>2 | 10.2             | 13.9     |
|          |                          | LTAN  | U.     | 0.948   | 0.940   | 0.693        | 0.261    | 0.861   | 0.941    | 0.665   | 0.639    | 0.966            | 0.962    |
| ME       | TEDROLOGICAL SITE        | DIR   | (DEG)  | 340     | 240     | 330          | 160      | 210     | 310      | 170     | 190      | 180              | 210      |
|          | BRADLE                   | Y VEL | (MPH)  | 8.1     | 4.4     | 6.3          | 0.6      | 5.7     | 6.0      | 2.8     | 5.6      | 4.9              | 0,0      |
|          |                          | SPD   | (MPH)  | 9.6     | 5.5     | 7.5          | 0.6      | 6.3     | 6°3      | 7.0     | 6.8      | 4.9              | 0<br>0   |
|          |                          | RAT   | IC     | 0.844   | 0.810   | 0.905        | 0.996    | 0.903   | 0.941    | 0.395   | 0.823    | 0.996            | 0.943    |
| ME       | TEOROLOGICAL SITE        | DIR   | (DEG)  | 320     | 240     | 320          | 340      | 210     | 300      | 130     | 120      | 230              | 230      |
|          | BRIDGEPOR                | T VEL | (MPH)  | 13.3    | 10.3    | 6.7          | 2.9      | 6.2     | 10.3     | а. з    | 5.8<br>8 | 3.0              | 19.8     |
|          |                          | CdS   | (MDH)  | 13.5    | 11.6    | 9.2          | ນ.<br>ບ  | 9.J     | 10.9     | 8.5     | 8°.9     | а.о<br>8         | 20.7     |
|          |                          | RAT   | DI     | 0.984   | 0.888   | 0.723        | 0.526    | 0.657   | 0.942    | 0.387   | 0.665    | 1.000            | 0.956    |
| ME       | TEDROLOGICAL SITE        | DIR   | (DEG)  | 310     | 260     | 310          | 200      | 230     | 290      | 70      | 210      | 240              | 220      |
|          | WORCESTE                 | R VEL | (MPH)  | 0°9     | 8.2     | 8°,2         | 2.2      | 5.8     | с.<br>Э  | ი.<br>ი | 6.3      | ۍ<br>۲.          | 9.2      |
|          |                          | SPD   | (HdW)  | 0°0     | 8.3     | 10.1         | 3.2      | 6.3     | 0°0      | 5.0     | 7.2      | ო <sup>.</sup> თ | 30.S     |
|          |                          | RAT   | U<br>U | 0.935   | 0.978   | 0.818        | 0.697    | 0.918   | 0.969    | 0.660   | 0.873    | 0.976            | 0.874    |

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| CONNECTICUT DEPARTMENT | OF ENVI          | ROMENT A         | L PRO       | TECTION           |                                                                    |               | PAGE          | 18            |               |               | AIR COMP                                                                                    | LIANCE EN         | GINEERING                                                                                        |     |
|------------------------|------------------|------------------|-------------|-------------------|--------------------------------------------------------------------|---------------|---------------|---------------|---------------|---------------|---------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------------------------------------------------|-----|
| POLLUTANTTOTAL SUSPEN  | VDED PAR         | TICULAT          | 1980<br>ES  | TEN HIG           | HEST 24 h                                                          | HR AVG TSI    | TH SAU .      | D DNIM HL     | ata.          | UNITS :       | WICROGRAM                                                                                   | S PER CUB         | IC METER                                                                                         |     |
| TOWN NAME              | SIT              | E SAMPL          | ËS          | çu                | C4                                                                 | ო             | ধ             | ហ             | Q             | 7             | Ø                                                                                           | თ                 | 0                                                                                                |     |
| WATERFORD              |                  | 1 57<br>DAT      | -<br>-<br>- | 99<br>20/80       | 74<br>8/ 7/80                                                      | 66<br>R/ 1/RD | 63<br>9/12/80 | 62<br>6/ 2/80 | 61<br>2/15/80 | 60<br>7/26/80 | 59<br>5/27/80                                                                               | 59<br>3/ 4/80     | 56<br>2/21/80                                                                                    |     |
| METEORDLOGICA          | L SITE<br>Newadk |                  | រ ញ៍ ត្តិ   | 230<br>230<br>230 | 290<br>290                                                         | 180           | 180<br>7 80   | 240           | 300           | 210           | 310.                                                                                        | 230               | 04                                                                                               |     |
|                        |                  | SPD (MF          | È.<br>È.    | 1.2               | r co -                                                             |               | 0.7           | 10.5          | 10.6          | 7.8           | 14<br>14<br>10                                                                              | 12.7              | ) (N)<br>(N)<br>(N)<br>(N)<br>(N)<br>(N)<br>(N)<br>(N)<br>(N)<br>(N)                             |     |
| METEOROLOGICAL         | L SITE           | RATIC<br>DIR (DE | (9)         | 964<br>280        | 0.651<br>320                                                       | 0.581<br>200  | 0.637<br>300  | 0.969<br>210  | 0.696<br>310  | 0.604<br>310  | 0.913<br>310                                                                                | 0.940<br>240      | 6.693<br>330                                                                                     |     |
|                        | BRADLEY          | VEL (MF          | (H)         | с<br>С С          | 4.                                                                 | 4 U<br>~~ (I  | ເດ.<br>ເຊ.    |               | 0.<br>0.      | - c<br>4 u    | ຜູນ<br>ຜູ້ນ                                                                                 | হ<br>হ<br>হ       | ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ<br>เ<br>เ<br>เ<br>เ<br>เ<br>เ |     |
|                        |                  | RATIC            | , п<br>О    | а.а<br>258        | 0.697                                                              | 0.731         | 4.3<br>0.576  | 4.2<br>0.451  | 0.940         | 0.540         | 0.938                                                                                       | 0.810             | 0.905                                                                                            |     |
| METEOROLOGICAI         | L SITE           | DIR (DE          | (ŋ          | 210               | 260                                                                | 140           | 220           | 230           | 290           | 200           | 310                                                                                         | 240               | 320                                                                                              |     |
| BRII                   | DGEPORT          | VEL (MF          | ,<br>(Н)    | ۰.<br>۳. ۳        | 00<br>4 1                                                          | 40            | 0.0<br>0.0    | 7.0           | 00            | ດ<br>ບຸດ      | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 0.<br>0.4         | 0<br>                                                                                            |     |
|                        |                  |                  | Ê           | 0<br>843          | ч.Э<br>0.678                                                       | 0.705         | 0.381         | 0.915         | 0.827         | 0.749         | 0.988                                                                                       | 0.888<br>888      | 0.723                                                                                            |     |
| METEOROLOGICA          | L SITE           | DIR (DE          | ;<br>(ŋ     | 270               | 290                                                                | 210           | 290           | 270           | 290           | 280           | 320                                                                                         | 260               | 310                                                                                              |     |
| IOM                    | RCESTER          | VEL (MF          | (H          | 7.9               | 9.2                                                                | 4.9           | 2.7           | 1.1           | 8.0           | 5.9           | 9.6                                                                                         | 8.2               | 8.2                                                                                              |     |
|                        |                  | SPD (MF          | (H          | 8.5               | 9.5                                                                | 5.6           | 4.5           | 4.2           | 8.1           | 6.2           | 10.4                                                                                        | в.3               | 10.1                                                                                             |     |
|                        |                  | RATIC            | 0           | 937               | 0.966                                                              | 0.883         | 0.606         | 0.268         | 0.992         | <b>0.</b> 962 | 0.929                                                                                       | <b>0.</b> 978     | 0.818                                                                                            |     |
| WILLIMANTIC            |                  | 2 6(             | 0           | 102               | 102                                                                | 66            | 92            | 78            | 74            | 72            | 71                                                                                          | 68                | 67                                                                                               | ~ > |
|                        |                  | DA               | re 3/       | 10/80             | 2/21/80                                                            | 3/ 4/80       | 12/17/80      | 1/10/80       | 11/23/80      | B/ 1/80       | 7/ 8/80                                                                                     | 2/ 9/80           | 6/ 2/80                                                                                          |     |
| METEOROLOGICA          | L SITE           | DIR (DI          | (ຍ          | 130               | 300                                                                | 230           | 340           | 270           | 230           | 180           | 230                                                                                         | 300               | 240                                                                                              |     |
|                        | NEWARK           | VEL (MI          | (H          | ۍ<br>م            | 6.5                                                                |               | 12.1          | ۍ.<br>م       | 0.0           | 4<br>01       | 10.1                                                                                        | ল্<br>বি          | 20,1                                                                                             |     |
|                        |                  |                  | ,<br>F      | N 0<br>0 0        | с.<br>С. С. С.<br>С. С. С.                                         | 1.21          |               |               | 5.7           | 0.0<br>1 0    | 5, 2<br>7<br>7                                                                              | 0 C<br>- U<br>- U |                                                                                                  | -   |
| WET FORDI DGTCA        | 3112             |                  | רס<br>ניטי  | 100               | 5000<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>500<br>50 | 0.940         | 0.440         |               | 147.0         | - 000         | 080                                                                                         | 0000              | 010                                                                                              |     |
|                        | BRADLEY          | VEL (M           | ) H         | 5.6               | 9<br>9<br>8                                                        | 4.4           |               | 2.7           | 0.1           | 4             | 0<br>. m                                                                                    | 4.4               | 0.0                                                                                              |     |
|                        |                  | SPD (MI          | (Hd         | 6.8               | 7.5                                                                | ក<br>ភូ       | 9.0           | 6.5<br>2      |               | 5.6           | 6.6                                                                                         | ນ.<br>ເ           | 4.2                                                                                              |     |
|                        |                  | RATIC            | o           | 823               | 0.905                                                              | 0.810         | 0.844         | 0.412         | 0.769         | 0.731         | 0.451                                                                                       | 0.830             | 0.451                                                                                            |     |
| METEORDLOGICA          | L SITE           | DIR (D           | EG)         | 120               | 320                                                                | 240           | 320           | 280           | 210           | 140           | 220                                                                                         | 280               | 230                                                                                              |     |
| BRI                    | DGEPORT          | VEL (M           | (Hd         | 5.8               | 6.7                                                                | 10.3          | 13.3          | 4.2           | 4.6           | 4.4           | 7.9                                                                                         | រ<br>រ<br>រ       | 7.0                                                                                              |     |
|                        |                  | SPD (M           | (H          | 8.8               | 9.2                                                                | 11.6          | 13.5          | 8.9           | 6.0           | 6.2           | 11.6                                                                                        | 7.8               | 7.6                                                                                              |     |
|                        |                  | RATIC            | Ö           | .665              | 0.723                                                              | <b>0.</b> 888 | 0.984         | 0.432         | 0.767         | <b>0.</b> 705 | 0.682                                                                                       | 0.660             | 0.915                                                                                            |     |
| METEORDLOGICA          | L SITE           | DIR (D           | ( ອີ        | 210               | 310                                                                | 260           | 310           | 270           | 270           | 210           | 250                                                                                         | 010               | 270                                                                                              |     |
| O M                    | RCESTER          | VEL (M           | (Hd         | 6.3               | 8.2                                                                | 8.2           | ຕ<br>ຕ        | ব।<br>ব।      | 0.0<br>0      | ۲.<br>19      | থ ।<br>ব                                                                                    | 2.2<br>2          | ہے (<br>م                                                                                        |     |
|                        |                  | SPD (M           | (Hd         | 7.2               | 10.1                                                               | 8.3           | ດ<br>ດ        | 5.5           | 7.6           | 0.0<br>1      | ທີ່<br>ເ                                                                                    | , a               | ে ।<br>বি ।                                                                                      |     |
|                        |                  | RATIC            | ò           | .873              | 0.818                                                              | 0.978         | 0.935         | 0.813         | 0.910         | 0.883         | 0.519                                                                                       | 0.931             | 0.268                                                                                            |     |

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Table 12, Continued

#### III. SULFUR DIOXIDE

### Conclusions:

Sulfur dioxide concentrations did not approach any primary or secondary standards in Connecticut during 1980. Measured concentrations were substantially below the 80 ug/m<sup>3</sup> primary annual standard as well as the former State of Connecticut 60 ug/m<sup>3</sup> secondary annual standard. SO<sub>2</sub> levels were also below the 365 ug/m<sup>3</sup> primary 24-hour standard and the former state 260 ug/m<sup>3</sup> secondary 24-hour standard. The secondary 3-hour standard of 1300 ug/m<sup>3</sup> was not approached at any site in the state.

According to the results of the Wilcoxon Test, which made use of sulfation rate data, there was a small but statistically significant rise in  $SO_2$  levels from 1979 to 1980 (see Table 3). The general increase (shown by the Wilcoxon test) of  $SO_2$  levels was probably a result of greater heating requirements due to the colder temperatures experienced during the heating seasons of 1980 as compared to 1979.

The continued attainment of SO<sub>2</sub> standards is primarily attributable to Connecticut's sulfur-in-fuel regulation.

#### Method of Measurement:

The DEP Air Monitoring Unit used two types of instruments to continuously measure sulfur dioxide levels in 1980. The coulometric method was employed by Philips instruments and the pulsed fluorescence method is used by Teco instruments.

Philips monitoring instruments were used at the following sites in 1980:

| Bridgeport 001 | (7 | months) | Milford | 002 | (2 | months) |  |
|----------------|----|---------|---------|-----|----|---------|--|
|----------------|----|---------|---------|-----|----|---------|--|

Teco instruments were used at the following sites in 1980:

Bridgeport 001 (4 months) Danbury 123 Enfield 123 (6 months) Greenwich 004 Hartford 123 Milford 002 (10 months) New Britain 123 New Haven 123 Stamford 123 Waterbury 123

#### Discussion of Data:

<u>Monitoring Network</u> - A total of eleven (11) continuous  $SO_2$  monitors (one was a partial year only) recorded data in ten towns in 1980 (see Figure 5). Ten of these sites telemetered the data to the central computer in Hartford on a real-time basis. Table 13 shows that sufficient data for valid annual means (at least 75% of the possible sampling hours) were recorded at ten sites. The average for Enfield site 123 represents 56% of the possible sampling hours. <u>Annual Averages</u> - The primary annual standard for  $SO_2$  is 80 ug/m<sup>3</sup> and the former state secondary annual standard was 60 ug/m<sup>3</sup>.  $SO_2$  levels were below the annual standards at all sites in 1980 (see Table 13). The annual average  $SO_2$  levels decreased at six of the eleven monitoring sites from 1979 to 1980. The decrease at two of those sites exceeded 5 ug/m<sup>3</sup>. Annual average  $SO_2$  levels increased at five monitoring sites, the same number as last year, with the largest increase being 3 ug/<sup>3</sup>. According to the Wilcoxon test, these changes indicate a small but significant upward trend when compared to 1979.

<u>Statistical Projections</u> - A statistical analysis of the sulfur dioxide data is presented in Table 14. This analysis provides information to compensate for any loss of data caused by instrumentation problems. The format of Table 14 is the same as that used to present the total suspended particulate annual averages (see Table 6). However, Table 14 gives the annual arithmetic mean of the valid 24-hour SO<sub>2</sub> averages to allow direct comparison to the annual SO<sub>2</sub> standards. The 95% limits and standard deviations are also arithmetic calculations. Since the distribution of the SO<sub>2</sub> data tends to be lognormal, the geometric means and standard deviations were used to predict the number of days the 24-hour standard of 365 ug/m<sup>3</sup> would be exceeded at each site if sampling had been conducted every day.

It is important to note that these statistical tests require random data to be valid. This means that an equal number of samples must be collected in each season of the year and on each day of the week. The distribution and quantity of  $SO_2$  data were better in 1980 than in 1979. The data indicate with reasonable assurance that there were no violations of the primary  $SO_2$  standard in Connecticut. For example, a statistical prediction of one day exceeding the primary 24-hour standard (365 ug/m<sup>3</sup>) at Hartford site 123 would indicate that an increase in  $SO_2$  emissions there might jeopardize the attainment of this standard. Two days over the standard are required for the standard to be violated.

<u>24-Hour Averages</u> - The primary 24-hour standard for  $SO_2$  is 365 ug/m<sup>3</sup> and the former state secondary 24-hour standard in Connecticut was 260 ug/m<sup>3</sup>. In 1980 no sites recorded  $SO_2$  levels in excess of the 24-hour standards (see Table 15). Second high running 24-hour average concentrations increased at five of the  $SO_2$  monitoring sites during 1980. The increase exceeded 50 ug/m<sup>3</sup> at one site, Bridgeport 001. The second high running 24-hour concentration decreased at six sites with two of the decreases being greater than 25 ug/m<sup>3</sup>.

The current EPA policy bases compliance with the primary 24-hour SO<sub>2</sub> standard on non-overlapping running averages. Running averages are averages computed for the 24-hour periods ending at every hour. Assessment of compliance is based on the value of the 2nd highest of the two highest non-overlapping 24-hour periods in the year. (Note that the highest 24-hour period in the year may overlap both of these two periods.) Thus, compliance assessment is based on the magnitude of the exposure encountered within any two distinct 24-hour periods and not on a calendar day exposure basis. However, there is some contention that compliance assessment for 24-hour SO<sub>2</sub> standards should be based on calendar day averages only. Table 16 contains the maximum 24-hour SO<sub>2</sub>

readings from both the running averages and the calendar day averages for comparison. The maximum calendar day readings are roughly 10% lower than the maximum readings from the running averages.

<u>3-Hour Averages</u> - Measured SO<sub>2</sub> concentrations were far below the federal secondary 3-hour SO<sub>2</sub> standard at all DEP monitoring sites in Connecticut in 1980, down from twelve (12) sites in 1979 (see Table 17).

<u>10-High Davs with Wind Data</u> - Table 18 lists the ten highest 24-hour calendar day  $SO_2$  averages and the dates of occurrence for each  $SO_2$  site in Connecticut during 1980. The table also shows the average wind conditions that occurred on each of these dates. (The origin and use of these wind data are described in the discussion of Table 12 in the TSP section.)

Once again, as with TSP, most of the highest  $SO_2$  days occur during periods of southwesterly winds. Most of those days also have persistent winds. This relationship is caused, at least in part, by  $SO_2$  transport; but any transport is limited by the chemical instability of  $SO_2$ . In the atmosphere,  $SO_2$  reacts with other gases to produce, among other things, sulfate particulates; so  $SO_2$  is not likely to be transported very long distances. Previous studies conducted by the DEP have shown that during periods of southwest winds levels of  $SO_2$  in Connecticut decrease with distance from the New York City metropolitan area. This relationship tends to support the transport hypothesis. On the other hand, these studies also revealed that certain meteorological parameters, most notably mixing height and wind speed, are more conducive to high  $SO_2$  levels on days when there are southwesterly winds than on other days.

Using the data in Table 18, the dates of occurrence of the ten highest 24-hour averages were noted. There are some interesting similarities among the high SO<sub>2</sub> days. First, all of the days on the table occurred during the winter months. This can be attributed to more fuel being burned during the cold weather. Second, almost all of the days experienced persistent southwesterly winds. Transport from the New York City area as well as industrial centers to our west is indicated.

Many of the sites across the state had high  $SO_2$  values in the week before Christmas. This was during a period of successive cold fronts preceded by steady southwesterly air flow. On the 18th of December, Connecticut was east of a cold front moving from the midwest. The temperatures for the day did not go above freezing. In the southwest flow ahead of the cold front, Connecticut received a good deal of transported  $SO_2$ . The day with the highest  $SO_2$  values across the state was December 24, the day before a major cold front passed through the state. Once again, due to the southwesterly flow ahead of the front,  $SO_2$  levels throughout the state were high.

In summary, high levels of  $SO_2$  in Connecticut seem to be caused by a number of related factors. First, Connecticut experiences its highest  $SO_2$  levels during the winter months, when there is an increased amount of fuel combustion. Second, the New York City metropolitan area, a large emission source, is located to the southwest of Connecticut and in this region, southwest winds occur relatively often in comparison to other wind

directions. Also, adverse meteorological conditions are often associated with southwest winds. The net effect is that during the winter months when a persistent southwesterly wind occurs, an air mass picks up increased amounts of  $SO_2$  over the New York City metropolitan area and transports this  $SO_2$  into Connecticut. Here, the  $SO_2$  levels remain high because the relatively low mixing heights associated with the southwest wind will not allow much vertical mixing. The levels of transported  $SO_2$  is dispersed and as it slowly reacts to produce sulfate particulates. It is the sulfate particulates that combine with water droplets to produce "acid rain," both wet and dry deposition.



### <u>1980</u> <u>ANNUAL ARITHMETIC AVERAGES OF SULFUR DIOXIDE</u> <u>AT SITES WITH CONTINUOUS MONITORS</u>

# PRIMARY NAAQS 80 ug/m<sup>3</sup> SECONDARY NAAQS 60 ug/m<sup>3</sup> (a)

| TOWN            | SITE NAME                    | 1980<br>ANNUAL<br><u>AVERAGE</u> |
|-----------------|------------------------------|----------------------------------|
| Bridgeport-ØØl  | City Hall                    | 26                               |
| Bridgeport-123  | Hallett Street               | 38                               |
| Danbury-123     | Western Conn. State College  | 25                               |
| Enfield-123*    | Kosciusko Junior High School | 15                               |
| Greenwich-004   | Bruce Golf Course            | 29                               |
| Hartford-123    | State Office Building        | 38                               |
| Milford-ØØ2     | Devon Community Center       | 32                               |
| New Britain-123 | Lake Street                  | 19                               |
| New Haven-123   | State Street                 | 35                               |
| Stamford-123    | Health Department            | 3Ø                               |
| Waterbury-123   | Bank Street                  | 22                               |

## (a) State of Connecticut Air Quality Standard

\*

Insufficient data for valid annual average or estimate (7 months)

| CONNECTICUT DE    | PARTM  | ENT OF E | ENVIRONMEN' | TAL PROTECT | ION              | PAGE            | <del>f</del> ra | AIR       | COMPLIANCE                          | MONITORING                          |
|-------------------|--------|----------|-------------|-------------|------------------|-----------------|-----------------|-----------|-------------------------------------|-------------------------------------|
| POLLUTANTSUL      | .FUR D | ICXIDE   |             |             |                  |                 |                 | 9         | STRIBUTION-                         | -LOGNORMAL                          |
| TOWN NAME         | SITE   | YEAR     | SAMPLES     | ARI. MEAN   | 95-PCT-<br>Lower | LIMITS<br>UPPER | STD DEV         | IATION    | PREDICTED<br>DAYS OVER<br>260 UG/M3 | PREDICTED<br>DAYS OVER<br>365 UG/M3 |
| <b>BRIDGEPORT</b> | 10     | 1980     | 300         | . 25.6      | 25               | 27              | 22.             | 530       |                                     |                                     |
| BRIDGEPORT        | 123    | 1980     | 355         | 38.0        | 38               | 38              | 25.             | 911       |                                     |                                     |
| DANEURY           | 123    | 1930     | 359         | 25°0        | 25               | 25              | 18              | 075       |                                     |                                     |
| ENFIELD           | 123    | 1930     | 206         | 14.9        | 14               | 16              | 13.             | 156       |                                     |                                     |
| GREENWICH         | 04     | 1980     | 329         | 28.7        | 58               | 29              | 21.             | 589       |                                     |                                     |
| HARTFORD          | 123    | 1980     | 365         | 38.1        | 38               | 33              | 28-             | 488       |                                     |                                     |
| MILFORD           | 02     | 1930     | 342         | 32.2        | 32               | 33              | 25 -            | 957       |                                     |                                     |
| NEW BRITAIN       | 123    | 1920     | 303         | 19.2        | 19               | 20              | 14.             | 857       |                                     |                                     |
| NEN HAVEN         | 123    | 1930     | 354         | 34.7        | . 34             | 35              | 26.             | 713       |                                     |                                     |
| STAMFORD          | 123    | 1980     | 357         | 29.7        | 29               | 30              | 28°             | 217       |                                     |                                     |
| WATERBURY         | 123    | 1930     | 364         | 22.1        | 22               | 22              | 16.             | 599       |                                     |                                     |
| * SAMPLING        | NOT    | ANDOM OF | R OF INSUF  | FICIENT SIZ | E FOR R          | EPRESENT        | ATIVE AN        | INUAL ST. | ATISTICS.                           |                                     |

Table 14 1980 SO<sub>2</sub> Annual Averages and Statistical Projections

## 1980 MAXIMUM 24-HOUR RUNNING AVERAGE SULFUR DIOXIDE CONCENTRATIONS

|                          | DATE                 | DATE        | <u>C</u>           | oncentratio                                                                                                     | <u>on (ug/m3)</u> | _    |
|--------------------------|----------------------|-------------|--------------------|-----------------------------------------------------------------------------------------------------------------|-------------------|------|
|                          | 1ST                  | 2ND         |                    |                                                                                                                 |                   | 365  |
| SITE                     | <u>HIGH</u>          | <u>HIGH</u> | <u>Ø 100</u>       | 200                                                                                                             | 300               | 400  |
| Bridgeport-001           | 12/24/21             | 12/19/01    | 190<br>156         |                                                                                                                 |                   | <br> |
| Bridgeport-123           | 12/24/21             | 2/21/12     | 167<br>161         | 1998-1999                                                                                                       |                   | 1    |
| Danbury-123              | 12/24/22             | 12/18/21    | 133<br>11Ø         |                                                                                                                 |                   |      |
| Enfield-123 <sup>b</sup> | 1/14/24              | 1/23/16     | 1 <i>0</i> 5<br>81 |                                                                                                                 |                   | 1    |
| Greenwich-004            | 12/24/21             | 12/19/06    | 171<br>128         |                                                                                                                 |                   |      |
| Hartford-123             | 12/24/21             | 2/21/12     | 2ØØ<br>193         | ann grupanpatta Gan<br>Igua ann-Minigang                                                                        |                   | 4    |
| Milford-002              | 11/13/11             | 2/27/09     | 173<br>167         |                                                                                                                 |                   | 1    |
| New Britain-123          | 2/21/09 <sup>a</sup> | 2/20/22     | <u>122</u><br>99   |                                                                                                                 |                   |      |
| New Haven-123            | 2/21/13              | 12/24/22    | 2Ø5<br>176         | میں خور سراجی ہیں ہیں ہیں ہیں ہیں ہیں ہیں ہیں ہیں ہی                                                            |                   | ]    |
| Stamford-123             | 12/24/20             | 12/26/22    | 187<br>17Ø         | 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - 1000 - |                   | ]    |
| Waterbury-123            | 2/21/11              | 12/19/07    | 1Ø3<br>97          |                                                                                                                 |                   |      |

Primary

Date is month/day/ending hour of occurrence
a Non-overlapping maximum on Ø2/21/22= 103 ug/m<sup>3</sup>
b 7 months data

| Site            | lst High<br><u>Running Avg.</u> | lst High<br><u>Calendar Day</u> | 2nd High<br><u>Running Avg.</u> | 2nd High<br><u>Calendar Day</u> |
|-----------------|---------------------------------|---------------------------------|---------------------------------|---------------------------------|
| Bridgeport-001  | 190                             | 186                             | 156                             | 155                             |
| Bridgeport-123  | 167                             | 16Ø                             | 161                             | 156                             |
| Danbury 123     | 133                             | 126                             | 110                             | 1Ø9                             |
| Enfield 123*    | 105                             | 104                             | 81                              | 76                              |
| Greenwich ØØ4   | 171                             | 157                             | 128                             | 118                             |
| Hartford 123    | 200                             | 186                             | 193                             | 169                             |
| Milford ØØ2     | 173                             | 163                             | 167                             | 131                             |
| New Britain 123 | 122                             | 1Ø5                             | 99                              | 93                              |
| New Haven 123   | 205                             | 180                             | 176                             | 17Ø                             |
| Stamford 123    | 187                             | 169                             | 170                             | 166                             |
| Waterbury 123   | 1Ø3                             | 89                              | 97                              | 88                              |

# COMPARISONS OF 1980 FIRST AND SECOND HIGH RUNNING AND CALENDAR DAY 24-HOUR SO2 AVERAGES units = ug/m3

\* 7 months of data

## 1980 MAXIMUM 3-HOUR SULFUR DIOXIDE CONCENTRATIONS



\* Date is month/day/ending hour of occurrence
a Non-overlapping maximum on Ø2/24/Ø8 = 291 ug/m<sup>3</sup>
b Non-overlapping maximum on 2/21/12 = 323 ug/m<sup>3</sup>
c Non-overlapping maximum on 2/21/1Ø = 165 ug/m<sup>3</sup>
\*\* 7 months data

| CONNECTICUT DEPARTMENT OF ENV    | IROMENTAL F                                                                                      | RUTECTIO            | Z                                                                               |                                                                    | ₽AGE            | ণ              |                                                                                                  |                   | AIR COWP                | LIANCE EN            | GINEERING      |
|----------------------------------|--------------------------------------------------------------------------------------------------|---------------------|---------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|----------------|--------------------------------------------------------------------------------------------------|-------------------|-------------------------|----------------------|----------------|
| POLLUTANTSULFUR DIDXIDE          | U1<br>+                                                                                          | ISO TEN H           | IIGHEST 24                                                                      | HR AVG S                                                           | OZ DAYS W       | UNIM HII       | DATA                                                                                             | : STINU           | MICROGRAM               | IS PER CUB           | IC METER       |
| TOWN NAME SI                     | TE SAMPLES                                                                                       | <del>4-</del>       | C¥                                                                              | m                                                                  | <b>দ্য</b>      | ល              | Ø                                                                                                | -                 | œ                       | Ø                    | 0              |
| BRIDGEPORT                       | 1 300                                                                                            | 187                 | 1<br>1<br>1<br>1                                                                | 127                                                                | 0               | 5<br>7<br>9    | ţ                                                                                                | č                 | t                       | Ċ                    | e<br>e         |
|                                  | DATE 1                                                                                           | 2/24/80             | 12/16/80                                                                        | 12/ 8/80                                                           | 12/26/80        | 17/27/80       | 12/ 7/80                                                                                         | 94<br>10/00/00    | 88<br>10/02/80          | 83<br>01/1/00        | 83<br>17/10/00 |
| METEOROLOGICAL SITE              | DIR (DEG)                                                                                        | 270                 | 230                                                                             | 220                                                                | 230             | 30             | 100                                                                                              | 170               | 330                     | 200                  | 320            |
| NEWARK                           | ( VEL (MPH)                                                                                      | 4.8                 | ອ.<br>ອ                                                                         | თ.<br>თ                                                            | 6.8             | 7.0            | 2.5                                                                                              | 2.9               | .00                     | в.<br>9              | 10.8           |
|                                  |                                                                                                  | າ<br>ກີ<br>ຊີ       | 10.0<br>10.0                                                                    | 10.2                                                               | 6.9<br>6        | 7.5            | 4<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 6.6               | 6.0<br>9                | ດ.<br>ດ              | 14.7           |
| METEORDIOGICAL SITE              |                                                                                                  | 110.0               | 955.0                                                                           | 007 . 00                                                           | ກມດ.<br>ວ       | 0.935          | 0.570                                                                                            | 0.439             | 0.261                   | 0.894                | 0.734          |
|                                  |                                                                                                  | יי<br>סינ           | ם א <u>ר</u> ם                                                                  | 200                                                                | 202             | ່              | 040<br>040                                                                                       | 012               | 160                     | 190                  | 300            |
|                                  | SPD (WPH)                                                                                        | . 4<br>. 7          |                                                                                 | 14<br>10                                                           | 2 C<br>7 C      | ה ע<br>יים     | 20                                                                                               | m 0<br>m 4        | 9 4<br>9 4              | ם ת<br>14 ח          | 10-10<br>1-11  |
|                                  | RATIC                                                                                            | 0.531               | 0.961                                                                           | 0, 996                                                             | 0.789           | 0.740          | 0.644                                                                                            | r 12<br>10        | 0,00,0                  | 0.0<br>061           | 0.676          |
| METEOROLOGICAL SITE              | DIR (DEG)                                                                                        | 260                 | 240                                                                             | 230                                                                | 260             | 20             | 240                                                                                              | 240               | 340                     | 200                  | 080            |
| BRIDGEPORT                       | VEL (MPH)                                                                                        | 6.0                 | 12.6                                                                            | 3.0                                                                | 6.1             | 9<br>8         | 1<br>1<br>1                                                                                      | с.<br>-           | ອ<br>ອີ<br>ອີ           | 10.9                 | 15.0           |
|                                  | SPD (NPH)                                                                                        | 7.2                 | 14.7                                                                            | 3.0                                                                | 8.2             | 9.1            | 6.0                                                                                              | 7.5               | 5.5<br>7                | 11.8                 | 18.0           |
|                                  | RATIC<br>DID (DEC)                                                                               | 0.831               | 0.662                                                                           | 1.000                                                              | 0.742           | 0.755          | 0.854                                                                                            | <b>0.</b> 168     | 0.526                   | 0.922                | 0.836          |
| MELGURULUGICAL SUBCECTED         | 01K (0EG)                                                                                        | 0                   | 240                                                                             | 240                                                                | 260             | 20             | 000                                                                                              | 250               | 200                     | 150                  | 230            |
|                                  |                                                                                                  | n 0<br>- F          | ית<br>מיס                                                                       | - c<br>n a                                                         |                 | 0 0<br>        | ຍ.<br>ທີ່                                                                                        | 4.1<br>(v)        | 2                       | 0 i<br>10            | 13.0           |
|                                  |                                                                                                  |                     |                                                                                 | 0 4 C                                                              | <br>1<br>1<br>0 | ה<br>ה<br>נ    | 0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1                                              | 0.0<br>0.0        | 8 - 5<br>6 - 5<br>6 - 5 | 4 0<br>0 1           | 14.8           |
|                                  |                                                                                                  |                     | י<br>המח<br>ה                                                                   | 0/0.70                                                             | c. ant          | 0.04           | 11/-0                                                                                            | 0.803             | 0.63 <i>1</i>           | c/o.0                | 0.898          |
|                                  | 0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 |                     |                                                                                 |                                                                    | ,               |                |                                                                                                  | ÷                 |                         |                      |                |
|                                  |                                                                                                  | 101<br>2 / 7 / / 00 | 157<br>2/40/00                                                                  | 142                                                                | 136<br>17/10/00 | 125            | 118<br>2 / 100                                                                                   | 118               | 111                     | 110                  | 103            |
| METEOROLOGICAL SITE              |                                                                                                  | 020                 | 00/61/7                                                                         | 108/07/20<br>10                                                    | 08/81/21        | 2/14/80        | 3/4/80                                                                                           | 2/21/80           | 12/ 8/80                | 11/21/80             | 12/27/80       |
| NEWARK                           | ( VEL (MPH)                                                                                      | 9<br>8<br>8         | ס ס<br>איני                                                                     |                                                                    |                 |                | 0<br>0<br>1<br>1<br>1<br>1                                                                       | ם<br>מ<br>ניכ     |                         | 2 r<br>2 r           | ວ ເ<br>ກ       |
|                                  | (HdW) Ods                                                                                        | е.<br>6             | 7.2                                                                             | 4.7                                                                | 10,01           | 12.2           | 10.7                                                                                             | າ ຕ<br>ວິດ        |                         | - II<br>I II<br>I II | י ר<br>ר       |
|                                  | RATIC                                                                                            | 0.511               | 0.827                                                                           | <b>0.3</b> 39                                                      | 0.938           | 0.861          | 0.940                                                                                            | 0.693             | 0.956                   | 0.880                | 0.935          |
| METEDROLOGICAL SITE              | DIR (DEG)                                                                                        | 310                 | 200                                                                             | 10                                                                 | 210             | 290            | 240                                                                                              | 330               | 180                     | 180                  | 10             |
| BRADLEY                          | / VEL (WPH)                                                                                      | 2.5                 | 10.1                                                                            | 1.1                                                                | 8.6             | 5.1            | 4.4                                                                                              | 6.8               | 0°.4                    | 2.3                  | 3.5            |
|                                  | SPD (MPH)                                                                                        | 4.7                 | 10.8                                                                            | 2.0                                                                | 8.9             | 6.9            | 5.5                                                                                              | 7.5               | 4.Q                     | 2.3                  | 4.7            |
|                                  | RATIC                                                                                            | 0.531               | 0.933                                                                           | <b>J.</b> 544                                                      | 0.961           | 0.734          | 0.810                                                                                            | <b>0</b> .905     | 0.996                   | 0.997                | 0.740          |
| MEIEUKUCOLOGION<br>2014/01/01/02 |                                                                                                  |                     | 230                                                                             | в<br>Св                                                            | 240             | 260            | 240                                                                                              | 320               | 230                     | 270                  | 20             |
|                                  |                                                                                                  | 5 U<br>9 U          | ດ<br>ທີ່                                                                        |                                                                    | 12.6            | 12.2           | 10.3                                                                                             | 6.7               | а.<br>С                 | 5.2                  | 6.8            |
|                                  |                                                                                                  |                     |                                                                                 | - 1<br>- 1<br>- 1<br>- 1<br>- 1<br>- 1<br>- 1<br>- 1<br>- 1<br>- 1 | 14.7            | 13.4           | 11.6                                                                                             | с.<br>Б           | ບ.<br>ຕ                 | 8.9<br>9             | e. 1           |
| METEOROLOGICAL SITE              | DID (DEC)                                                                                        | - 00.0              |                                                                                 |                                                                    | 200<br>0<br>0   | 2. U. 4        | 0.858                                                                                            | 0.723             | 000.1                   | 0.759                | 0.755          |
|                                  |                                                                                                  | 9 0<br>9 0          | )<br>}<br>*                                                                     | ה ע<br>כ<br>כ                                                      |                 | 0 7<br>0 0     |                                                                                                  | 20                | 240                     |                      |                |
|                                  | (Hew) Case,                                                                                      | 0.0                 |                                                                                 | 4 1-                                                               | n -             | - u<br>0 a     | 9 V<br>0 0                                                                                       | 9.0               | - c<br>n c              | - c<br>n u           | יי<br>מי       |
|                                  | RATIC                                                                                            | 0,945               | 0.969                                                                           | 0,116                                                              | 0, 022          | 0 0 C          | 0.070                                                                                            |                   | 910<br>910<br>9         |                      | ກ<br>ເ<br>ເ    |
|                                  |                                                                                                  |                     | 1<br>  .<br>                                                                    |                                                                    |                 |                |                                                                                                  |                   |                         | r<br>v<br>v          | ,<br>,         |
| DANBURY                          | 123 359                                                                                          | 127                 | 109                                                                             | 36                                                                 | 9 C)            | 06             | 63                                                                                               | 83                | . <b>t</b>              | 77                   | 76             |
|                                  | DATE                                                                                             | 12/24/80            | 12/18/80                                                                        | 12/26/80                                                           | 1.1/21/80       | 2/20/80        | 2/21/80                                                                                          | 2/14/80           | 12/27/80                | 11/23/80             | 2/19/80        |
| WEIEUKULUGICAL SITE              | DIR (DEG)                                                                                        | 270                 | 230                                                                             | 530                                                                | 2,10            | 70             | 008<br>008                                                                                       | 260               | 30                      | 230                  | 220            |
|                                  |                                                                                                  | , c                 | טי<br>יי<br>יי                                                                  | 0 0<br>0 0                                                         | <br>            |                |                                                                                                  | 10.5              | 7.0                     | ດ<br>ບໍ່ເ            | ຍ.<br>ເ        |
|                                  |                                                                                                  | າ.<br>ກີເ           | ດ<br>ເ<br>ເ                                                                     |                                                                    | ם<br>סיי<br>סיי |                | ຕ.<br>ເ                                                                                          | 12.2              | 7.5                     | 7.3                  | 7.2            |
| METEDROLDGICAL SITE              | DIR (DEG)                                                                                        |                     | 10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>1 |                                                                    | 000 · 0         | 0. GU          | 5<br>5<br>5<br>5<br>5                                                                            | 0.001<br>000      | 325.3                   | 0.647                | 0.827          |
| BRADLEY                          | VEL (MPH)                                                                                        | 5.0<br>5.0          | 1 a<br>2 0                                                                      | ארי<br>הים<br>ים                                                   | 200             | ) <del>-</del> | ວ<br>າ<br>ບ້າ                                                                                    | ייי<br>איי<br>איי | ט <u>כ</u><br>י         | ) C<br>N +           | 2 C C          |
|                                  | SPD (MPH)                                                                                        | 4.7                 | າດ<br>                                                                          | 5                                                                  | 1 C1            | - 0            | 0 U<br>0 U                                                                                       | - 0<br>. u        | 9 4<br>9 4              | ה כ<br>י<br>י        | - a<br>        |
|                                  | RATIC                                                                                            | 0.531               | 196.0                                                                           | <b>0.</b> 789                                                      | 0.997           | 0.544          | 0.905                                                                                            | 0.734             | 0.740                   | 0.769                | 0.933          |

Table 18

| CONNECTICUT DEPARTMENT OF ENVIS | ROMENTAL PF | ROTECTION          |                                                                                             |                                                              | PAGE                 | ហ              |                  |                                                                                             | AIR CORPL         | IANCE ENG            | INEERING         |
|---------------------------------|-------------|--------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------|----------------------|----------------|------------------|---------------------------------------------------------------------------------------------|-------------------|----------------------|------------------|
| DDILLITANTSIII FUR DIDXIDE      | 192         | O TEN HI           | GHEST 24                                                                                    | HR AVG SO                                                    | Z DAYS WI            | U ONIM HI      | <b>ATA</b>       | INITS : B                                                                                   | ICROGRAMS         | PER CUBI             | C WETER          |
| TCFFC-1261 (CFFC-1271)          | E CAMPLES   | مو                 | 2                                                                                           | (7)                                                          | 4                    | រោ             | Q                | 7                                                                                           | 60                | o                    | <b>5</b>         |
|                                 |             | -                  | 1                                                                                           |                                                              |                      |                |                  |                                                                                             |                   |                      |                  |
| WETEODOLOGICAL SITE             | DIR (DEG)   | 260                | 240                                                                                         | 260                                                          | 270                  | 08             | 320              | 260                                                                                         | 20                | 210                  | 0000             |
| MEI FORCEOUTOR SEIDGEPORT       | VEL (MPH)   | 6.0                | 12.6                                                                                        | 6.1                                                          | 5.2                  | 2.1            | 6.7              | 12.2                                                                                        | 20 v<br>20 v      | 4 u                  | n 01<br>n 02     |
|                                 | SPD (MPH)   | 7.2                | 14.7                                                                                        | 8.2                                                          | 6.8                  | . <b>4</b> .   | 9-2              | 1.<br>1.<br>1.                                                                              | - i<br>- i<br>5 i |                      | 5.00<br>         |
|                                 | RATIC       | 0.831              | 0.862                                                                                       | <b>J</b> . 742                                               | 0.769                | 0.529          | 0.723            | 4.0.0                                                                                       |                   | 010                  | 000              |
| METEOROLOGICAL SITE             | DIR (DEG)   | 270                | 240                                                                                         | 260                                                          | 240                  | 03             | 010              |                                                                                             | 5 C<br>1          | 0<br>0<br>0          | 11.0             |
| WORCESTER                       | VEL (MPH)   | 7.3                | e.e                                                                                         | 7.7                                                          | 5.7                  | 0 r<br>0 r     | ν.<br>•<br>•     | - u<br>. a                                                                                  | א מ<br>היי<br>היי | 7.6                  | 1.6              |
|                                 | SPD (MPH)   | 7.8<br>045         | 9.1<br>682                                                                                  | 0.854                                                        | 0.824<br>0           | 4./<br>0.116   | 0.818            | 0.957                                                                                       | 0.504             | 0.910                | 0.963            |
|                                 |             | )<br>-<br>-<br>-   | ]                                                                                           |                                                              |                      |                | ţ                | t                                                                                           | C                 | 57                   | 52               |
| ENFIELD 12                      | 206         | 105                | 76                                                                                          | 68<br>1 / 7 2 / 60                                           | 56<br>7/6/80         | 52.<br>7/14/80 | 2/15/80          | 3/8/80                                                                                      | 1/ 1/80           | 1/ 7/80              | 2/12/80          |
|                                 | DATE        | 1/14/80            | 2/20/80                                                                                     | 0000                                                         | 20<br>20<br>20<br>20 | 260            | 220              | 110                                                                                         | 30                | 210                  | 300              |
| METEOROLOGICAL SITE             | UIK (DEG)   | 0× 0 ¢             | ູ້                                                                                          |                                                              | 11.4                 | 10.5           | ດ<br>ທ           | 4.6                                                                                         | 5.7               | 10.<br>10.<br>10.    | m,,              |
| 2 DSATC                         |             |                    | <b>4</b> .7                                                                                 | 3.4                                                          | 11.5                 | 12.2           | 7.2              | 7.0                                                                                         | 5.6               | 5, C<br>7, C<br>7, C | ກ.<br>ເ          |
|                                 | RATIC       | 0.995              | 0.339                                                                                       | <b>J.</b> 878                                                | 0.989                | 0.861          | 0.827            | 0.647                                                                                       | 0.852             | 0.407                |                  |
| MFTEDROLOGICAL SITE             | DIR (DEG)   | -                  | 0                                                                                           | 340                                                          | 20                   | 290            | 200              | 50                                                                                          |                   |                      | )<br>()<br>()    |
| BRADLEY                         | VEL (MPH)   | ອ <b>້</b> ນ       | 1.1                                                                                         | 4.7                                                          | 4.7                  | ب<br>ب         | 10.1             | ວັດ<br>ກໍຕ                                                                                  | 1 CI<br>1 C       | ່<br>ທີ່<br>ທີ່      | 5.0              |
| •                               | SPD (MPH)   | 6.0                | 2.0                                                                                         | 5.0<br>0.0                                                   | 5) · 1<br>• 1        |                |                  | 1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 0.776             | 0.943                | 0.794            |
|                                 | RATIC       | 0.974              | 0.544                                                                                       |                                                              | [/A.D                | 0.04<br>0.00   | 000<br>000       | 120                                                                                         | 80                | 230                  | 290              |
| METEOROLOGICAL SITE             | DIR (DEG)   | ם מ<br>ע<br>ע<br>י | 0 T                                                                                         | ) (C<br>) (C<br>) (C<br>) (C<br>) (C<br>) (C<br>) (C<br>) (C | E.Ot                 | 12.2           | 0<br>0           | 4.8                                                                                         | 1.8               | 19.8                 | 13.5<br>1        |
| BRIDGEPORT                      | VEL (MPH)   | ນ ເ<br>ດີ          | - 0                                                                                         | 12.7                                                         | 11.6                 | 13.4           | 10.9             | 8.3                                                                                         | 6°-4              | 20.7                 | 14.U             |
|                                 |             |                    | 0.500                                                                                       | <b>0</b> .916                                                | 0.887                | 0.914          | 0.905            | 0.574                                                                                       | 0.359             | 0.856<br>0.0         |                  |
| METEODOLDGIOSI SITE             | DIP (DEG)   | 60                 | 08                                                                                          | 290                                                          | 50<br>20             | 280            | 250              | 60                                                                                          | 0000              | 222                  | יי<br>אוס        |
|                                 | VEL (MPH)   | 4.7                | 0.5                                                                                         | 5.3                                                          | 0.0<br>0.0           | 8.             | 11.3             | 4 I                                                                                         | ou<br>v) «        | у С<br>И R           | v.~<br>• σ       |
|                                 | SPD (MPH)   | 6.3                | 4.7                                                                                         | 7.3                                                          | ບຸ<br>ທ              | 8              | 11.6             | יי<br>ס<br>ר<br>ר<br>ר<br>ר                                                                 | 1 0<br>1 0<br>1 0 | 478.0                | 019.0            |
|                                 | RATIC       | 0.742              | 0.116                                                                                       | <b>J</b> . 929                                               | 0.456                | 0.957          | 0.959            | 0-88/                                                                                       | 100.0             |                      |                  |
|                                 |             |                    |                                                                                             |                                                              | 1                    | Ċ              | 20               | 0                                                                                           | 5                 | 83                   | 90               |
| GREENWICH                       | 4 330       | 158                | 118                                                                                         | -106<br>2720780                                              | 11/21/80             | 2/14/80        | 12/15/80         | 10/ 8/80                                                                                    | 12/27/80          | 12/23/80             | 12/26/90         |
|                                 |             | 12/24/80           | 12/ 0/00                                                                                    | 20/22/2                                                      | 270                  | 260            | 230              | 210                                                                                         | 30                | 000                  | 230              |
| WETEOROLOGICAL SITE             |             | ס מ<br>ק           | 0<br>1<br>1<br>0                                                                            | , t<br>9, t                                                  | 5.7                  | 10.5           | 8.9              | 7.8                                                                                         | 7.0               |                      | 0<br>0<br>0      |
|                                 |             | n or<br>r or       | 0.01                                                                                        | 4.7                                                          | 6.5                  | 12.2           | 10.5             | ហ<br>ល                                                                                      | n. /              | ית<br>יע<br>יע       |                  |
|                                 |             | 0.511              | 0.966                                                                                       | 0.339                                                        | 0.880                | 0.861          | 0.938            | 0.919                                                                                       | 0,90<br>0         |                      |                  |
| WETENDOINGICAL SITE             | DIR (DEG)   | 310                | 180                                                                                         | 10                                                           | 180                  | 290            | 010              | 007<br>770<br>770                                                                           | ່                 | 000                  | 9<br>9<br>9<br>9 |
| BRADLEY                         | VEL (MPH)   | 2.5                | 4.9                                                                                         | 924<br>6<br>9                                                | 5.0                  | ب<br>م         | ມ<br>ເ           | - 6                                                                                         | ) (-<br>) 4       | 9.0                  | 3.7              |
|                                 | (HdW) CdS   | 4.7                | 4,9                                                                                         | 2.0                                                          | 5.3                  | 5) - C         | η<br>ο<br>ο<br>ο | - 0                                                                                         | 0740              | 0.996                | 0.789            |
|                                 | RATIC       | 0.531              | 0.996                                                                                       | 0.544                                                        | 199.0                | 0.734          | 102.0            |                                                                                             | 00                | 340                  | 260              |
| MFTEORDLOGICAL SITE             | DIR (DEG)   | 260                | 230                                                                                         | 90                                                           | 270                  | 200            | 0 C              | -<br>-<br>-<br>-                                                                            | , a               | 2.9                  | 6.1              |
| BRIDGEPORI                      | TVEL (MPH)  | 6.0                | a'e                                                                                         | 2.1                                                          | n<br>N N             |                | 0.71             |                                                                                             | )                 | ດ.<br>ເ              | 8.2              |
|                                 | (HdW) OdS   | 7.2                | с.<br>М                                                                                     | 41                                                           | ກ ແ<br>ເ             |                | 0 0 F C          | 0,853<br>853                                                                                | 0.755             | 0.526                | 0.742            |
|                                 | RATIC       | 0.831              | 1.000                                                                                       | 0°.074                                                       |                      | 1 C U C        | 240              | 220                                                                                         | 20                | 200                  | 260              |
| METEOROLOGICAL SITE             | DIR (DEG    | 270                | 240                                                                                         | ວແ<br>ບັດ                                                    | эt-<br>ти            | 4 a<br>2 -     | 0                | <br>                                                                                        | 3.0               | 2.2                  | 2.2              |
| WORCESTEI                       | R VEL (MPH  |                    | - (<br>5 (                                                                                  | ) K                                                          | - o<br>n w           |                | ,                | 8.6                                                                                         | ດ.<br>ເ           | 3.2<br>7             | ດ<br>ດີ<br>ເ     |
|                                 | SPD (MHN    |                    | 5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 |                                                              | 0.00<br>0.00         | 0.957          | 0.953            | 0.942                                                                                       | 0.504             | 0.697                | 0.854            |
|                                 | RATIC       | 0.945              | 0.9/6                                                                                       | 0110                                                         | 140.0                |                | ) ) )            | •                                                                                           |                   |                      |                  |

ł

Table 18, Continued

| 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
|-----------------------------------------|
| - 4<br>- 4<br>- 4                       |
| 2/24/80 2/20/80 2/<br>270 70            |
| 4.8                                     |
| 0.511 0.339 0                           |
| 310<br>10                               |
| 4.7 2.0                                 |
| 0.531 0.544 0<br>260 RA                 |
| 6.0 2.1                                 |
| 7.2 4.0                                 |
| 270                                     |
| 7.3 0.5                                 |
| 0.945 0.116 0.                          |
| 163 153                                 |
| 1/11/80 2/26/80 11/                     |
| 27.6 21.1 2                             |
| 27.9 22.0                               |
| 0.989 0.958 0.                          |
| 16.5 UCE 025                            |
| 16.8 17.3                               |
| 0.963 0.899 0                           |
| 310 320                                 |
| 26.3 21.7                               |
| 0.992 0.943 0                           |
| 320 340<br>31 1 13 E                    |
| 21.4 13.7                               |
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| 106 . 93                                |
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| 70 300                                  |
| 4 1<br>0 0<br>0 0<br>0 0                |
| 0.339 0.693 0                           |
| 10 330                                  |
| 1.1 6.8                                 |
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| CONNECTIC        | UT DEPARTMENT OF ENV                                                                | IROMENTAL P                                                                         | ROTECTION                                                               | 7                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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                                                 |                                                                      | AIR COWPI                                                                                        | IANCE EN                                                                                         | gineering                                                          |
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| POLLUTANT        |                                                                                     | 0<br>1<br>0                                                                         | BO TEN H                                                                | IGHEST 24                                       | HR AVG S                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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                                                 | : STINU                                                              | <b>WICROGRAWS</b>                                                                                | S PER CUB                                                                                        | IC WETER                                                           |
|                  | TOWN NAME SI                                                                        | TE SAMPLES                                                                          | <del>.</del>                                                            | R                                               | m                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           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                                                 | 7                                                                    | œ                                                                                                | Ø                                                                                                | 10                                                                 |
| -                | METEOROLOGICAL SITE<br>BRIDGEPORT                                                   | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                                 | 80<br>80<br>80                                                          | 320<br>6.7                                      | 260<br>12.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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                                                 | 320                                                                  | 120<br>0.80<br>0.80                                                                              | 240<br>9.00<br>8.00                                                                              | 290<br>11.6                                                        |
| _                | METEOROLOGICAL SITE<br>WORCESTER                                                    | RATIC<br>DIR (DEG)<br>VEL (M <sup>D</sup> H)<br>SPD (MPH)<br>RATIC                  | 0.529<br>80<br>4.7<br>0.116                                             | 0.723<br>310<br>8.2<br>0.818                    | 0.914<br>280<br>8.1<br>957                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 0.905<br>11.90<br>969<br>969<br>969                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 0.978<br>0.978<br>0.978<br>0.978                                                                 | 0.956<br>956<br>910:22<br>874<br>874                                 | 0.220<br>340<br>3.44<br>3.44<br>3.44<br>3.44<br>3.44<br>3.44<br>3.44 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 0.916<br>290<br>0.92<br>0.929<br>0.929                             |
| I<br>B<br>W<br>Z | AVEN 1<br>MET EOROLOGICAL SITE<br>NEWARK                                            | 23 354<br>DATE<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                               | 181<br>2/20/80<br>70<br>4 7                                             | 12/24/80<br>270<br>4.8                          | 160<br>2/21/80<br>300<br>6.5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11/21/80<br>5.70<br>5.7                                                                          | 12/26/80<br>230<br>230                                               | 116<br>2/19/80<br>5.9                                                | 11/14/80<br>260<br>7.4                                                                           | 2/13/80<br>2/13/80<br>11.0                                                                       | 2/14/80<br>250<br>10.5                                             |
|                  | METEOROLOGICAL SITE<br>BRADLEY                                                      | RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC                               | 0.339<br>2.0<br>544                                                     | 0.511<br>2.5<br>5.3<br>531<br>531               | ວ. 6<br>9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9 9                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               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0.00<br>0.00<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70<br>0.70         | 0.827<br>200<br>10.1<br>10.8                                         | 0<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 0.861<br>290<br>7.90<br>7.90<br>7.90<br>7.90                       |
|                  | METEDROLOGICAL SITE<br>BRIDGEPORT<br>BRIDGEPORT<br>METEOROLOGICAL SITE<br>WORCESTER | VEL (MPH)<br>SPD (MPH)<br>SPD (MPH)<br>RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH) | 0.529<br>80<br>80<br>80<br>80<br>4.7<br>116                             | 0.945                                           | 0.810<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.723<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.7335<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.733<br>9.735 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| STAMF            | ORD<br>METEOROLOGICAL SITE<br>NEWARK                                                | 23 357<br>DATE 1<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                             | 170<br>2/25/80<br>230<br>6.9                                            | 167<br>12/24/80<br>4.8                          | 162<br>2/19/80<br>5.9<br>7.2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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137<br>2/20/80<br>1.6                                                | 132<br>11/21/80<br>270<br>5.7                                        | 11/23/80<br>230<br>6.9<br>7.3                                                                    | 124<br>2/14/80<br>260<br>10.5                                                                    | 114<br>12/23/80<br>1.8<br>6.9                                      |
|                  | METEOROLOGICAL SITE<br>Bradley                                                      | RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                        | 0,989<br>200<br>3.79                                                    | 0.511<br>310<br>2.5                             | 0,827<br>200<br>10.1<br>10.8                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                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                                                 | 0.880<br>180<br>2.3                                                  | 0.947<br>210<br>1.3                                                                              | 0<br>861<br>861                                                                                  | 0.261<br>160<br>0.6                                                |
|                  | METEOROLOGICAL SITE<br>BRIDGEPORT<br>BRIDGEPORT<br>METEOROLOGICAL SITE<br>WORCESTER | VEL (MPH)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC<br>VEL (MPH)<br>VEL (MPH)<br>RATIO     | 0.442<br>9.742<br>9.742<br>9.77<br>9.77<br>9.77<br>9.77<br>9.77<br>9.77 | 0.531<br>260<br>7.2<br>7.3<br>7.3<br>7.3<br>7.8 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 2 4 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 | 0,00,00,00,00,00,00,00,00,00,00,00,00,0                                                          | 0 544<br>542<br>60 529<br>60 50<br>60 50<br>74 7                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0      | 0<br>1<br>1<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
|                  |                                                                                     | DT 101                                                                              | 100.0                                                                   | 0 <b>1</b> 7 <b>7</b> .2                        | n 6 n - 7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 10n · 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 018.0                                                                                            | 011-0                                                                | 0.024                                                                | 0.810                                                                                            | 0.50/                                                                                            | 0.041                                                              |

CONNECTICUT DEPARTMENT OF ENVIROMENTAL PROTECTION

1980 TEN HIGHEST 24 HR AVG SO2 DAYS WITH WIND DATA PAGE

ω

AIR COMPLIANCE ENGINEERING

POLLUTANT--SULFUR DIOXIDE

| UTANTSULFUR DIGXIDE | 1          |         |          |               |           | -           |         | : STINU       | WICROGRAMS  | PER CUB  | IC METER |
|---------------------|------------|---------|----------|---------------|-----------|-------------|---------|---------------|-------------|----------|----------|
| TOWN NAME SI        | TE SAMPLES | -       | N        | m             | <b>43</b> | IJ          | S.      | 7             | Ø           | Ø        | 10       |
| WATERBURY           | 23 364     | 0<br>0  | 88       | 87            | 85        | 81          | 72      | 70            | 70          | 69       | 67       |
|                     | DATE       | 2/19/80 | 12/24/80 | 2/20/80       | 2/21/80   | 12/18/80    | 2/14/80 | 1/18/80       | 12/ 8/80    | 4/2/80   | 1/ 7/80  |
| METEOROLOGICAL SITE | DIR (DEG)  | 220     | 270      | 70            | 300       | 230         | 260     | 250           | 220         | 180      | 210      |
| NEWARK              | VEL (MPH)  | ດ.ບ     | 4.8      | 1.6           | 6.5       | 9.8<br>8    | 10.5    | 5.5           | ი<br>ი      | 4.5<br>5 | 4.61     |
|                     | (HdW) OdS  | 7.2     | ຕຸດ      | 4.7           | 9.3       | 10.5        | 12.2    | 6.0           | 10.2        | 7.6      | 13.9     |
|                     | RATIC      | 0.827   | 0.511    | 0.339         | 0.693     | 0.938       | 0.861   | 0.905         | 0.966       | 0.594    | 0.962    |
| METEOROLOGICAL SITE | DIR (DEG)  | 200     | 310      | 1<br>0        | 330       | 210         | 290     | 100           | 180         | 220      | 210      |
| BRADLEY             | VEL (MPH)  | 10.1    | 2.5      | fre<br>f      | 6.8       | 8.G         | 5.1     | 0.6           | 4.9         | 5.<br>17 | 9.2      |
|                     | (HdW) Ods  | 10.8    | 4.7      | 2.0           | 7.5       | <b>8</b> .9 | 6.9     | 1.6           | 4.9         | 6.8      | 9.0<br>8 |
|                     | RATIC      | 0.933   | 0.531    | <b>J.</b> 544 | 0.905     | 0.961       | 0.734   | 0.372         | 0.996       | 0.801    | 0.943    |
| METECROLOGICAL SITE | DIR (DEG)  | 230     | 260      | 08            | 320       | 240         | 250     | 320           | 230         | 230      | 230      |
| BRIDGEPORT          | VEL (MPH)  | 6.6     | 6.C      | 2.1           | 6.7       | 12.6        | 12.2    | 1.1           | 3.0         | 6.8      | 19.8     |
|                     | (HdW) Ods  | 10.9    | 7.2      | 4.0           | 9.2       | 14.7        | 13.4    | р. 4<br>0     | а.<br>0     | 7.3      | 20.7     |
| -                   | RATIC      | 0.905   | 0.831    | <b>J.</b> 529 | 0.723     | 0.862       | 0.914   | 0.225         | 1.000       | 0.931    | 0.955    |
| METEOROLOGICAL SITE | DIR (DEG)  | 250     | 270      | 80            | 310       | 240         | 260     | 340           | 240         | 260      | 220      |
| WORCESTER           | (MPH)      | 6.15    | 7.3      | 0.S           | 8.2       | ດ.<br>ຕ     | 8.1     | 8m<br>4<br>6m | 9.1         | 9.7      | 9.2      |
|                     | (HdW) Ods  | 11.6    | 7.8      | . 4.7         | 10.1      | 9.1         | ອ<br>ເມ | с,<br>4.      | ი<br>ი<br>ე | 10.2     | 10.5     |
|                     | RATIC      | 0.969   | 0.945    | 0.116         | 0.818     | 0.983       | 0.957   | 0.318         | 0.976       | 0.946    | 0.874    |

#### IV. OZONE

#### Conclusions:

Once again in 1980, Connecticut experienced very high concentrations of ozone in the summer months. At each of the ten monitored sites, levels in excess of the one-hour NAAQS of 0.12 ppm were frequently recorded, with one-hour average concentrations occasionally ecxceeding 0.20 ppm.

The frequency but not the magnitude of measured levels in excess of the 0.12 ppm ozone standard increased again during 1980. Year-to-year changes of regional weather conditions most likely contributed a great deal to the increase. Federal emission controls on motor vehicles and continued conservation of gasoline (3.1% less than 1979) have not been large enough to offset the increase in ozone production caused by meteorological conditions.

The larger portion of the peak ozone concentrations in Connecticut is caused by the transport of ozone and/or precursors (e.g., hydrocarbons and nitrogen oxides) from the New York City area and other points to the west and the southwest. The increased frequency of levels in excess of the ozone standard is at least partially attributable to the frequency of the southwesterly transport winds. Southwesterly winds are a common occurrence in this region during the summer ozone season. Likewise, the magnitude of the high ozone levels can be associated with yearly variations in temperature. Ozone production is greatest at high temperatures and in strong sunlight. In 1980, the average summer season temperatures averaged between 0.5°F to 2.3°F higher than in 1979. Also, the summer season daily high temperatures were higher in 1980 than in 1979, as exemplified by an increase in the number of days exceeding 90°F from 1 in 1979 to 6 in 1980 at the Sikorsky Airport National Weather Service station. At Bradley, the number of days exceeding 90°F remained at 19.

#### Method of Measurement:

The DEP Air Monitoring Unit uses chemiluminescent instruments to measure levels of ozone. These instruments measure and record instantaneous concentrations of ozone continuously by means of a fluorescent technique. Properly calibrated, these instruments are shown to be remarkably reliable and stable.

#### Discussion of Data:

<u>Monitoring Network</u>: - In order to gather information which will further the understanding of ozone production and transport, as well as to provide real-time data for the daily Pollutant Standards Index, DEP operated a state-wide ozone monitoring network consisting of four types of sites in 1980 (see Figure 6): Urban - Bridgeport, Derby, Hartford, Middletown, New Haven Advection from Southwest - Danbury, Greenwich Suburban - Stratford Rural - Morris, Stafford

NAAOS - On February 8, 1979 the EPA established an ambient air quality standard for ozone of 0.12 ppm for a one-hour average. Compliance with this standard is determined by the number of hourly exceedances of this standard at each monitoring site over a consecutive three-year period and then computing the average number of standard exceedances over this interval. If the resulting average value (at each site) is less than or equal to 1.0; that is, if the fourth highest hourly value in a consecutive three-year period is less than 0.12 ppm, the ozone standard is considered This standard replaces the old photochemical oxidant standard attained. of 0.08 ppm. The definition of the pollutant was changed along with the numerical value partly because the instruments used to measure photochemical oxidants in the air really measure only ozone. Ozone is only one of a group of chemicals which are formed photochemically in the air and are called photochemical oxidants. In the past, the two terms have often been used interchangeably. This 1980 Annual Summary uses the term "ozone" in conjunction with the NAAQS to reflect the changes in both the numerical value of the NAAQS and its definition.

<u>1-Hour Average</u> - The 1-hour ozone standard was exceeded at all ten DEP monitoring sites in 1980. The 1st highest 1-hour average ozone concentrations were higher in 1980 than in 1979 at six of the seven paired DEP ozone sites in Connecticut. One of these increases exceeded 0.08 ppm. The 1st highest hourly average decreased at one site from 1979 to 1980, the decrease being 0.08 ppm.

The monthly high ozone concentrations for the summertime "ozone season," and a tally of the number of times the hourly standard was exceeded, are presented in Table 20 for each site.

Table 21 shows the year's high and second high concentrations at each site.

<u>10 High Days with Wind Data</u> - Table 22 lists the ten highest 1-hour ozone averages, and dates of occurrence from the 10-highest days for each ozone site in Connecticut for 1980. The wind data associated with these high readings are also presented. (See the discussion of Table 12 in the TSP section for a description of the origin and use of these wind data.)

Nearly all of the high O<sub>3</sub> levels occurred on days with southwesterly winds. This is expected because there are no local sources of ozone; it is all produced by photochemical reactions in the atmosphere. Since New York City and other urban areas to the southwest of Connecticut produce more ozone precursor emissions than all of Connecticut, it is not surprising that ozone levels are higher on southwest wind days than on all other days. However, it should be remembered that bright sunshine and high temperatures are the prime producers of ozone. During the summer ozone season these conditions are most often associated with a southwesterly air flow. It is the combination of these factors that often produces unhealthful ozone levels in Connecticut.



| NUMBER OF DAYS WITH 1 HOUR WHICH EXCEEDED THE OZONE STANDARDS |
|---------------------------------------------------------------|
| (> Ø.12 PPM)                                                  |
|                                                               |

## <u> 1980</u>

| SITE           | APRIL | <u>MAY</u> | JUNE | JULY | AUGUST | <u>SEPT.</u> | TOTAL | <u>TOTAL LAST YEAR</u> |
|----------------|-------|------------|------|------|--------|--------------|-------|------------------------|
| Bridgeport-123 | Ø     | Ø          | 4    | 8    | 8      | 2            | 22    | 16                     |
| Danbury-123    | Ø     | 1          | 6    | 8    | 5      | 4            | 24    | 14                     |
| Derby-123      | Ø     | 1          | 4    | 13   | 5      | 2            | 25    | 15                     |
| Greenwich-004  | Ø     | 1          | 4    | 14   | 5      | 6            | 3Ø    | 17                     |
| Hartford-123   | Ø     | Ø          | Ą    | 9    | 5      | 3            | 21    | 15                     |
| Middletown-007 | Ø*    | 2*         | 4    | 11   | 8      | 3            | 28    | aire.                  |
| Morris-001     | Ø*    | Ø*         | 5    | 7    | 5      | 2            | 19    | 19                     |
| New Haven-123  | Ø     | Ø          | 4    | 5*   | 7      | 2            | 18    | 12                     |
| Stafford-ØØ1   | Ø*    | 5*         | 2    | 4    | 1*     | 2*           | 14    |                        |
| Stratford-007  | Ø*    | 5          | 9    | 11*  | 8      | 7            | 4Ø    | -                      |

\* Less than 75% of days during peak pollution potential season have sufficient data.

## 1980 HIGHEST 1-HOUR OZONE VALUES BY MONTH, PPM

| SITE           | APRIL                | <u>MAY JUNE</u>    | JULY          | AUGUST        | SEPTEMBER    | # OF TIMES<br>STANDARD<br>EXCEEDED |
|----------------|----------------------|--------------------|---------------|---------------|--------------|------------------------------------|
| Bridgeport-123 | .065 .               | 120 .200           | .215          | <b>.</b> 182  | <b>.</b> 16Ø | 68                                 |
| Danbury-123    | .090* .:             | .183               | .166          | .154          | .168         | 63                                 |
| Derby-123      | .066                 | 128 .248           | .285          | .217          | .18Ø*        | 98                                 |
| Greenwich-004  | .080 .:              | 132 .178           | .187          | .172          | .216         | 122                                |
| Hartford-123   | .ø82 .:              | 106 ,183           | .265          | .147          | .171         | 61                                 |
| Middletown-007 | .081* .:             | .234               | .262          | .167          | .145         | 126                                |
| Morris-ØØl     | 。Ø87 <sup>*</sup> 。I | Ø87 <b>* .2</b> 11 | .196          | .175          | .230         | 57                                 |
| New Haven-123  | .076 .               | 108 .204           | .291*         | .189          | <b>.</b> 138 | 66                                 |
| Stafford-001   | .085* .:             | 144* .153          | .197          | .121*         | .123*        | 35                                 |
| Stratford-007  | .ø8ø* .:             | 189 .276           | <b>.</b> 3Ø3* | <b>.</b> 249* | .180         | 178                                |

\* <75% of the data available

### 1980 MAXIMUM 1-HOUR OZONE CONCEMPRATIONS



\* Date is month/day/ending hour of occurrence

| CONNEC  | TICUT DEPARTMENT OF ENV            | TROMENTAL PI             | RDTECTION        |                  |                                                                                             | PAGE                                                                                             | 4                          |                  |                   | AIR COMPI                                                                                        | IANCE ENC         | INEERING                                  |
|---------|------------------------------------|--------------------------|------------------|------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------|------------------|-------------------|--------------------------------------------------------------------------------------------------|-------------------|-------------------------------------------|
| POLLUT. | ANTDZONE                           | 1980                     | TEN HIGH         | IEST 1 HOU       | R AVG DZC                                                                                   | NE DAYS                                                                                          | UNIM HII                   | DATA             |                   | UNITS : I                                                                                        | ARTS PER          | MILLION                                   |
|         | TOWN NAME SI                       | ITE SAMPLES              | <del>4</del>     | N                | ო                                                                                           | ধ                                                                                                | ល                          | ß                | 7                 | œ                                                                                                | O)                | 0                                         |
| 89      | IDGEPORT                           | 123 217<br>Date          | 0.215<br>7/16/00 | 0.200<br>6/24/80 | 0.190<br>7/21/20                                                                            | 0.183<br>7/70/90                                                                                 | 0.182<br>87.6790           | 0.179<br>6/75/80 | 0.179<br>0.77/00  | 0.175<br>7/ 5/80                                                                                 | 0.173<br>7/22/80  | 0.170<br>8/ 8/90                          |
|         | METEOROLOGICAL SITE                | DIR (DEG)                | 77 10/ 00        | 00/74/00         | 230                                                                                         | 230                                                                                              | a/ a/ su<br>250            | 210              | 240               | 170                                                                                              | 240               | 230                                       |
|         | NEWARK                             | ( VEL (WPH)              | 10.5             | 0.0<br>0         | 6.5                                                                                         | 10.8                                                                                             | 7.3                        | 12.9             | 6.8               | 3.6                                                                                              | 10.6              | 11.0                                      |
|         |                                    | SPD (MPH)                | 13.5             | 6.6              | 9.0<br>.0                                                                                   | 11.2                                                                                             | 00<br>00                   | 13.4             | 7.2               | ອງ<br>ເ<br>ອງ ເ<br>ຍ                                                                             | 11.5              | 11.0<br>0.00                              |
|         | METEOROLOGICAL SITE                | NATIC (DEC)              | 0.779<br>200     | 0.902            | 0.671<br>280                                                                                | 0.954<br>200                                                                                     | 0.744<br>250               | 0.965            | 0.949<br>780      | 0-355<br>021                                                                                     | 0.470<br>070      | 575.0                                     |
|         | BRADLEY<br>BRADLEY                 | VEL (MPH)                | ດ<br>ເມີ         | 2 1.             | )<br>)<br>()<br>()                                                                          | 2.0                                                                                              | 3.6<br>9.6                 | 6.2              | າ<br>ອີ<br>ເ      | 6.8<br>9                                                                                         | 8.2               | 4.4                                       |
|         |                                    | (HdW) OdS                | 7.8              | 5.3              | ນ.<br>ເ                                                                                     | 8.8                                                                                              | 4.9                        | 6.6              | 5.2               | 7.9                                                                                              | 11.5              | ច<br>ព                                    |
|         | METEODOLOGIA: CITE                 | RATIC                    | 0.746            | 0.498            | 0.499<br>220                                                                                | 0.258                                                                                            | 0.735                      | 0.937            | 0.678             | 0.857                                                                                            | 0.711             | 0.739                                     |
|         | MEICORDOLOGICAL SILE<br>BRIDGEPORI | L VEL (MPH)              | 14.7             | 10.7             | ο<br>ο<br>ο<br>ο                                                                            | ່ວຍ                                                                                              | 230<br>8.7                 | 10.7             | 5.6               | 3.6<br>3.6                                                                                       | 10.6              | - · · C                                   |
|         |                                    | (HdW) Ods                | 15.1             | 11.6             | 12.5                                                                                        | 11.6                                                                                             | 11.1                       | 11.2             | 7.3               | 8.6                                                                                              | 12.4              | 11.5                                      |
|         |                                    | RATIC                    | 0.972            | 0.919            | 0.723                                                                                       | 0.843                                                                                            | 0.785                      | 0.954            | 0.760             | 0.418                                                                                            | 0,854<br>213      | 0.962                                     |
|         | METECXCLUGICAL VITE                | DIR (DEG)<br>0 VEI (MDE) | 0.00             | 270              | 210                                                                                         | 100                                                                                              | 000                        | 1 80             | 280               |                                                                                                  | 2 C<br>A 16       | 200                                       |
|         |                                    |                          | יי<br>סמ         | n o<br>n         | - C                                                                                         | ກ ແ<br>~ a                                                                                       | 0.<br>                     | 0 0<br>- 0       | 0 U<br>1 U        | 0 u<br>V 0                                                                                       | , a               | 0 C<br>0 C                                |
|         |                                    | RATIC                    | 0.960<br>0       | 0.955            | 0.945                                                                                       | 0.937                                                                                            | 0.955                      | 0.865            | <b>0.</b> 993     | 0.749                                                                                            | 0.949             | 0.966                                     |
| DA      | NBURY 1                            | 123 177                  | 0.183            | 0.168            | 0.166                                                                                       | 0.164                                                                                            | 0.157                      | 0.156            | 0.154             | 0.146                                                                                            | 0.146             | 0.140                                     |
|         |                                    | DATE                     | 6/25/80          | 9/ 2/80          | 7/ 5/80                                                                                     | 6/24/80                                                                                          | 9/21/80                    | 7/21/80          | 8/4/80            | 7/10/80                                                                                          | 6/23/80           | 7/20/80                                   |
|         | METEOROLOGICAL SITE                | DIR (DEG)                | 210              | 220              | 170                                                                                         | 220                                                                                              | 230                        | 230              | 190               | 120                                                                                              | 190               | 230                                       |
|         | NEWAR                              | X VEL (MPH)<br>SPD (MPH) | 5.4              | 10.5             | 0 a<br>7 a                                                                                  | 5,0<br>0,0                                                                                       | 10.5<br>5                  | 00<br>0<br>0     | mu<br>Nu          | 0.v<br>v                                                                                         | <br>0 01          | 10.0                                      |
|         |                                    | RATIC                    | 0.965            | 0.856            | 0.363                                                                                       | 6.6<br>0                                                                                         | 0.985                      | 9.671<br>0.671   | 0.862             | 0.736                                                                                            | 0.895             | 0.964                                     |
|         | METEOROLOGICAL SITE                | DIR (DEG)                | 220              | 210              | 190                                                                                         | 210                                                                                              | 200                        | 280              | 250               | 200                                                                                              | 300               | 280                                       |
|         | BRADLEN                            | Y VEL (MPH)              | 6.2              | 0.9              | 6.8<br>8                                                                                    | 2.7                                                                                              | 7.8                        | 2.8              | ດ.<br>ເ           | 2.3                                                                                              | 2.2               | 6°3                                       |
|         |                                    | SPD (MPH)                | 0.6<br>0.37      | 10.5             | 0-10<br>0-10                                                                                | 5<br>5<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 0<br>0<br>1<br>0<br>1<br>0 | 5.6<br>200       | 4 4<br>0 10       | 0.0<br>0.0<br>0                                                                                  |                   | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |
|         | METEOROLOGICAL SITE                | DIR (DEG)                | 000              | 210              | 220                                                                                         |                                                                                                  | 080                        |                  | 230               | 100                                                                                              | 220               | 210                                       |
|         | BRIDGEPORT                         | T VEL (MPH)              | 10.7             | 4.61             | 9.0<br>0                                                                                    | 10.7                                                                                             | 13.3                       | 0.0              | 8.6               | 0.5                                                                                              | 5.4               | ອີ                                        |
|         |                                    | SPD (MPH)                | 1.2              | 13.9             | ເຊ<br>ເຊິ່ງ<br>ເຊິ່ງ                                                                        | 11.6                                                                                             | 13.7                       | 12.5             | ອ<br>ເ<br>ດີ<br>ເ | 0.1<br>1.0                                                                                       | 0.                | 11.6                                      |
|         | WETEOROLOGICAL SITE                | NIP (DEC)                | 0. 304<br>000    | 0.893            | 0.4-0<br>0-00                                                                               | 0.010                                                                                            | 0.C.C                      | 0.723            | 0.920             | 007.0                                                                                            | 0000              | 5000<br>500<br>500<br>500                 |
|         | WORCESTER                          | R VEL (MPH)              | 7.6              | 7.7              |                                                                                             | 4 00<br>• 0                                                                                      | 0,4<br>0,0                 | 9<br>7<br>7      | , 4<br>8<br>8     | , 0<br>, 0                                                                                       | 0<br>0<br>0       | 0.7                                       |
|         |                                    | SPD (MPH)                | 8.8              | ю.3              | <b>6</b> .9                                                                                 | <b>6</b> .0                                                                                      | 7.3                        | 7.0              | 5.0<br>.0         | 10 - M                                                                                           | 5.9               | 8.5                                       |
|         |                                    | RATIC                    | 0.865            | 0.928            | 0.749                                                                                       | 0.955                                                                                            | 0.933                      | 0.945            | 0.861             | 0.684                                                                                            | <b>0</b> .906     | 0.937                                     |
| Ц<br>Ц  | RBY                                | 123 154                  | 0.285            | 0.248            | 0.230                                                                                       | 0.227                                                                                            | 0.217                      | 0.204            | 0.204             | 0.194                                                                                            | 0,190             | 0.180                                     |
|         | METEOROLOGICAL SITE                | DIR (DEG)                | 7/16/80<br>950   | 6/24/80          | 7/21/80                                                                                     | 7/20/80                                                                                          | 8/ 6/80                    | 7/22/80          | 7/11/80           | 8/27/80                                                                                          | 6/25/80<br>210    | 9/ 1/80<br>210                            |
|         | NEWARI                             | K VEL (MPH)              | 10.5             | , 0<br>, 0       | 6.S                                                                                         | 10.8                                                                                             | 7.9                        | 10.6             | 0<br>0<br>1<br>00 | i<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B | 12.9              | 12.8                                      |
|         |                                    | (HdW) DdS                | 13.5             | <b>6 6</b>       | 9.0<br>9                                                                                    | 11.2                                                                                             | 8.9                        | 11.5             | 9°2               | 7.2                                                                                              | 43.4              | 12.9                                      |
|         | METEOPOLOGIA LAN                   | RATIC<br>Did (Dec)       | 0.779            | 0.902            | 0.671                                                                                       | 0.964                                                                                            | 0.744                      | 0.925            | 0.940             | 070.0                                                                                            | 0.965<br>202      | 0.089                                     |
|         | BRADLEN                            | V VEL (MPH)              | ງ<br>ດ<br>ດ      | 2.7              | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 2.3                                                                                              | 3.6                        | 0<br>2<br>8<br>8 | 2.5               | 0 10<br>7 10<br>7 10                                                                             | 2 4<br>7 6<br>7 6 | 5 CP<br>2 - V<br>2 - V                    |
|         |                                    | (HdW) Ods                | 7.8              | ດ<br>ເມ          | 9°9                                                                                         | 00                                                                                               | 0.0                        |                  | 8<br>8            | 19<br>19                                                                                         | 6.Ĝ               | 7.9                                       |
|         |                                    | RATIC                    | 0.746            | 0.498            | 0.499                                                                                       | 0.258                                                                                            | 0.735                      | 0.711            | 0.885             | 0.678                                                                                            | 0.937             | 0.920                                     |

Table 22

| CONNECTICUT DEPARTMENT OF EN     | VIROMENTAL P             | ROTECTIO                                  | z                        |                                                                                             | PAGE .                                                       | ល            |                                                                                               |                                      | AIR COMP              | LIANCE ENG            | SINEERING      | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| POLLUTANTDZONE                   | 680                      | TEN HIG                                   | HEST 1 HOU               | IR AVG DZC                                                                                  | DAYS &                                                       | ONIM HII     | DATA                                                                                          |                                      | : STINU               | PARTS PER             | MILLION        |
| TOWN NAME S                      | ITE SAMPLES              | çun                                       | <b>N</b>                 | m                                                                                           | 4                                                            | ស            | Q                                                                                             | 2                                    | 60                    | თ                     | 10             |
| METEOROLOGICAL SITE<br>BPINGEDOP | DIR (DEG)<br>T VEL (WOU) | 230                                       | 230.                     | 230                                                                                         | 000                                                          | 5 30<br>5 30 | 230                                                                                           | 220                                  | 230                   | 230                   | 210            |
|                                  | SPD (MPH)                | 5 U<br>5 V<br>7                           | 11.6                     | າ<br>ເບິ່                                                                                   | ع،ع<br>11.6                                                  | 1.1          | 12.4                                                                                          | ນດ<br>ນດາ                            | 0 m.0<br>             | 10.7                  | v. 0.          |
|                                  | RATIC                    | 0.972                                     | 0.919                    | 0.723                                                                                       | 0.843                                                        | 0.785        | 0.854                                                                                         | 0.883                                | 0.760                 | 0.954                 | 0.903          |
| METEOROLOGICAL SITE              | DIR (DEG)                | 260                                       | 270                      | 270                                                                                         | 270                                                          | 250          | 250                                                                                           | 250                                  | 280                   | 280                   | 240            |
| BURCES F                         | X VEL (MFH)<br>SDC (WPH) | າເ<br>ນັແ                                 | in o<br>o                | 2.9<br>7                                                                                    | б.<br>С                                                      | 0.1          | 40                                                                                            | 4.1                                  | ດ<br>4 ເ              | 7.6<br>0              | 7.8            |
|                                  | RATIC                    | 0.960                                     | 0.955                    | 0.945                                                                                       | 0.937                                                        | 0.955        | 0.949                                                                                         | 0.973                                | 6.993                 | 0.865                 | 8.1<br>0.965   |
| GREENWICH                        | 4 299                    | 0.216                                     | 0.197                    | 0.187                                                                                       | 0.185                                                        | 0.183        | 0.179                                                                                         | 0.178                                | 0.178                 | 0.176                 | 0.174          |
| -                                | DATE                     | 9/21/80                                   | 9/ 1/80                  | 7/21/80                                                                                     | 7/ 5/80                                                      | 7/16/80      | 9/ 2/80                                                                                       | 6/24/80                              | 7/14/80               | 7/26/80               | 7/10/80        |
| METEOROLOGICAL SITE              | DIR (DEG)                | 230                                       | 210                      | 230                                                                                         | 170                                                          | 250          | 220                                                                                           | 220                                  | 210                   | 210                   | 120            |
| NEWAR                            | K VML (MPH)              | 10°0                                      | 12.8                     | ທູດ<br>ເ                                                                                    | ຍ.<br>ຕ                                                      | 0.<br>0      | 10.5                                                                                          | ດ.<br>ເ                              | 2.7                   | 4.7                   | ດ.<br>ເມ       |
|                                  |                          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |                          | 0.0<br>0.1                                                                                  | 6.9<br>6.9<br>6.0                                            | 10.5<br>11.5 | 12.2                                                                                          | ດ<br>ເ<br>ດີ<br>ເ                    | 0.7.6<br>0,2          | 7.8                   | 7.6            |
| METEOROLOGICAL SITE              | DIR (DEG)                | 200                                       |                          | 080                                                                                         | 909.9                                                        | 0. v - U     | 0,00<br>0,00<br>0,00                                                                          |                                      | 540.0                 | 0.00                  | 00.<br>000     |
| BRADLE                           | Y VEL (MPH)              | 7.8                                       | ₹.3<br>2.3               | 2.8                                                                                         |                                                              | ນ<br>ເຊ      | 20.0                                                                                          | 2.7                                  | ວ<br>ເຊິ່ງ<br>ເຊິ່ງ   | 0 <del>-</del><br>- 4 | 2.0            |
| •                                | SPD (MPH)                | 8.1                                       | 7.9                      | 5.6                                                                                         | 7.9                                                          | 7.8          | 10.5                                                                                          | ນ. 3                                 | 4.7                   | 2.6                   | 8.8            |
|                                  | RATIC                    | 0.970                                     | 0.920                    | 0.499                                                                                       | 0.857                                                        | 0.746        | 0.862                                                                                         | 0.498                                | 0.518                 | 0.540                 | 0.342          |
| METEURULUGICAL SITE              | DIR (DEG)                | 230                                       | 210                      | 230                                                                                         | 220                                                          | 230          | 210                                                                                           | 230                                  | 190                   | 200                   | 100            |
| BRIDGEPOR                        | T VEL (MPH)              | ,<br>,<br>,<br>,<br>,                     | 10.0<br>0.0              | ວ<br>ທີ່ເ                                                                                   | ດ.<br>ຕໍ່ເ                                                   | 14.7         | 12.4                                                                                          | 10.7                                 | 0.<br>                | ດ . ເ                 | 0<br>1         |
|                                  |                          | 10.1                                      | 0.CC                     | 0 0<br>0 0<br>0 0<br>0 0                                                                    | c<br>v<br>v<br>v                                             | 15.1         | 0.0<br>0.0                                                                                    | 11.6                                 | ເກ<br>ອາເ             |                       | 0.1<br>1.0     |
| METEORDLOGICAL STIF              | DIR (DEG)                | 1000                                      | 900.<br>900.             | 040                                                                                         | 2, 1<br>2, 2<br>2, 2<br>2, 2<br>2, 2<br>2, 2<br>2, 2<br>2, 2 | 2/2/20       |                                                                                               | רית<br>הית                           | 0000                  | 500                   | 57.0           |
| WORCESTE                         | R VEL (MPH)              | 0<br>0<br>0                               | 0<br>1<br>1<br>1         | 6.7                                                                                         | ۲ م<br>م<br>م                                                | 20,00        | 10                                                                                            | , α<br>2 Γ                           | 0<br>0<br>7<br>7<br>7 | ο<br>α<br>νν          | 200            |
|                                  | (HdM) Ods                | 7.3                                       | 8 C                      | 7.0                                                                                         | , C<br>4 0                                                   | ຸ<br>ຕຸ      |                                                                                               | ה מ<br>ס מ                           | o c<br>r ư            |                       | ວ.<br>ເ        |
|                                  | RATIC                    | 0.933                                     | 0.965                    | 0.945                                                                                       | 0.749                                                        | 0.960        | 0.928                                                                                         | 0.955                                | 0.907                 | 0.962                 | 0.684          |
| HARTFORD                         | 123 308                  | 0.265                                     | 0.240                    | 0,186                                                                                       | 0.185                                                        | 0.183        | 0.171                                                                                         | 0.170                                | 0.167                 | 0.147                 | 0.147          |
|                                  | DATE                     | 7/16/80                                   | 7/22/80                  | 7/15/80                                                                                     | 7/21/80                                                      | 6/25/80      | 9/ 1/80                                                                                       | 7/11/80                              | 6/15/80               | 9/21/80               | 8/ 4/80        |
| METEOROLOGICAL SITE              | DIR (DEG)                | 250                                       | 240                      | 210                                                                                         | 230                                                          | 210 .        | 210                                                                                           | 240                                  | 220                   | 230                   | 190            |
| 2 F M A R                        | X VEL (MPH)              | ດ<br>ເ<br>ທີ່ເ                            | 10.6                     | 12.7                                                                                        | ດ.<br>ເ                                                      | 12.9         | 12.8                                                                                          | 8.9                                  | 10.2                  | 10.5                  | 7.3            |
|                                  |                          | 14.5                                      |                          | 1 4.1<br>2 2 2 2                                                                            | 0.0<br>0.0                                                   | 4.0<br>4.0   | 12.9                                                                                          | ດ.ບ<br>ເ                             | 11.6                  | 10.6                  | ອ<br>ເຄີ       |
| METEODOLOGICAL SITE              |                          |                                           | 0 v v<br>0 v v           | 0<br>7<br>7<br>0                                                                            | 0.0/1                                                        | 0.405<br>000 | 0.989<br>675                                                                                  | 0.940                                | 0.875                 | 0.985                 | 0.862          |
| BRADLE                           | Y VEL (MPH)              | 2 00<br>2 1<br>2 1                        | 0<br>0<br>0<br>0<br>0    | 2 4<br>1<br>1<br>0                                                                          | 2 a<br>2 a                                                   | ר י<br>א ע   | 9 C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C<br>C | 2 N<br>D<br>H                        |                       | 000                   | 500            |
|                                  | SPD (MPH)                | 7.8                                       | 11.5                     | 10.1                                                                                        | ນ.<br>ອີ                                                     | 0.9<br>9     | 0.4                                                                                           | ດ<br>ເຄີ                             | ອ<br>ເບັ              | )<br>- 00             | ন থে<br>• ব    |
|                                  | RATIC                    | 0.746                                     | 0.711                    | 0.931                                                                                       | 0.499                                                        | 0.937        | 0.920                                                                                         | <b>0.</b> 885                        | 0.825                 | 0.970                 | 0.685          |
| MEL FURULUGICAL VI-R<br>RDIDARDA | 1 VEI (DEG)              | 22.20                                     | 530                      |                                                                                             | 230                                                          | 230          | 210                                                                                           | 220                                  | 230                   | 230                   | 230            |
| ANT DOLLAR                       |                          | - +<br>1 U                                | 0 · C                    | ם ע<br>ייי<br>ריי                                                                           | ວຍ                                                           | 10.7         | 10.5                                                                                          | ຍ<br>ຍິເ                             | 0.0<br>0.0            | ი ი<br>ი              | 8.0<br>0.0     |
|                                  | RATIC                    | 0,972                                     | 1 - 1 - 0<br>- 0 - 0 - 0 | 2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | 0.722                                                        | 211.2        | 0.00                                                                                          | ה<br>ה<br>ה<br>ה<br>ה                | ο<br>ν<br>ν<br>α      | 10.1                  | ກ<br>ເ<br>ຫ    |
| METEOROLOGICAL SITE              | DIR (DEG)                | 260                                       | 250                      | 240                                                                                         | 270                                                          |              | 040                                                                                           | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |                       | 1040                  |                |
| WORCESTE                         | R VEL (MPH)              | 0,8                                       | 7.4                      | 0.0<br>0                                                                                    | 6.7                                                          | 7.6          | 2.00                                                                                          | 4.6                                  | 0<br>, (<br>7         | , 0<br>0<br>0         | 4 4<br>0<br>00 |
|                                  | (HdM) OdS                | ເດ.<br>ເບ                                 | 7.8                      | 10.2                                                                                        | 7.0                                                          | 8.8          | 8.1                                                                                           | 7.6                                  | 0.2                   | 7.3                   |                |
|                                  | RATIC                    | 0.960                                     | 0.949                    | 0.973                                                                                       | 0.945                                                        | 0.865        | 0.965                                                                                         | 0.973                                | 0.740                 | 0.933                 | 0.861          |
| CONNECTICUT                             | DEPARTMENT OF ENVI                   | I ROMENTAL P                                              | ROTECTIO                            | Z                                     |                                                                            | PAGE                                | ø                                         |                                                                |                                                                                        | AIR COMP                                    | LIANCE ENC                                                                          | INEERING                                                      |  |
|-----------------------------------------|--------------------------------------|-----------------------------------------------------------|-------------------------------------|---------------------------------------|----------------------------------------------------------------------------|-------------------------------------|-------------------------------------------|----------------------------------------------------------------|----------------------------------------------------------------------------------------|---------------------------------------------|-------------------------------------------------------------------------------------|---------------------------------------------------------------|--|
| POLLUTANTI                              | D ZONE                               | 1980                                                      | TEN HIGH                            | HEST 1 HOI                            | UR AVG DZ(                                                                 | DNE DAYS                            | QNIM HIIM                                 | DATA                                                           |                                                                                        | UNITS :                                     | PARTS PER                                                                           | WILLION                                                       |  |
| 0<br>L                                  | WN NAME SIT                          | re samples                                                | <b>*-</b>                           | 0                                     | 3                                                                          | ч <b>а</b> -                        | ហ                                         | Ð                                                              | ~                                                                                      | 60                                          | <b>ന</b>                                                                            | 10                                                            |  |
| LTCH CT                                 | Y (MORRIS DAM)                       | 1 472<br>Date                                             | 0.230<br>0/ 7/00                    | 0.211                                 | 0.136                                                                      | 0.175                               | 0.148                                     | 0.148                                                          | 0.145                                                                                  | 0.140                                       | 0,140<br>2,00,00                                                                    | 0.140                                                         |  |
| ME                                      | TEDROLOGICAL SITE<br>Newark          | DIR (DEG)<br>VEL (MPH)                                    | 220<br>10.5                         | 210                                   | 170<br>3.6                                                                 | 6/ 2/ 60<br>150<br>4.5              | 6/44/80<br>220<br>8.9                     | 240                                                            | a/ 30/ 80<br>160<br>6.8                                                                | a/ 1/30<br>180<br>4.9                       | 1/20/80<br>230<br>10-8                                                              | 0/10/84<br>220<br>10.2                                        |  |
| WE                                      | TEOROLOGICAL SITE<br>Bradley         | SPU (MPH)<br>RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPU (MPH) | 0.856<br>210<br>9.0                 | 0.965<br>220<br>6.2                   | 0.363<br>490<br>1903<br>1903<br>1903<br>1903<br>1903<br>1903<br>1903<br>19 | 0.666<br>290<br>0.8                 | 9.9<br>210<br>2.7                         | 0.925<br>250<br>8.2                                            | 0<br>840<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | 0.58.57<br>4.2001<br>1.1001                 | 0.965<br>2.967<br>2.80<br>2.80                                                      | 0 11.6<br>225<br>225                                          |  |
| M                                       | TEOROLOGICAL SITE<br>BRIDGEPORT      | NATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)              | 0,862<br>210<br>12.4<br>13.9        | 0.937<br>230<br>10.7                  | 0.857<br>220<br>3.6<br>8.6                                                 | 0.170<br>170<br>1.10                | 0.498<br>230<br>10.7                      | 230<br>230<br>10.6<br>40.6                                     | 0<br>947<br>180<br>7<br>7<br>80<br>7<br>80                                             | 0,73,0<br>4,40<br>4,40<br>4,40<br>4,40      | 0.258<br>2.258<br>4.80<br>5.00<br>5.80<br>5.80<br>5.80<br>5.80<br>5.80<br>5.80<br>5 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |  |
| E<br>M                                  | TEOROLOGICAL SITE<br>WORCESTER       | RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC     | 0.893<br>240<br>7.7<br>8.3<br>0.928 | 0.954<br>7.6<br>8.8<br>865            | 0.418<br>5.20<br>6.9<br>0.749                                              | 0.759<br>230<br>3.0<br>0.822        | 0.010<br>0.010<br>0.010<br>0.010<br>0.010 | 0.854<br>2550<br>7.4<br>250<br>250<br>250<br>250<br>250<br>250 | 0.747<br>230<br>5.0<br>6.0<br>830                                                      | 0.705<br>2.10<br>8.6<br>83                  | 0,840<br>2770<br>9.93<br>9.93<br>9.93<br>9.93                                       | 0.000<br>4000<br>4000<br>4000<br>4000<br>4000<br>4000<br>400  |  |
| MIDDLET                                 | NMO                                  | 7 172<br>Date                                             | 0.262<br>7/21/00                    | 0.262                                 | 0.234<br>6/24/60                                                           | 0.223                               | 0.220                                     | 0.204                                                          | 0.196                                                                                  | 0.180                                       | 0.168                                                                               | 0.157                                                         |  |
|                                         | TEOROLOGICAL SITE<br>NEWARK          | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                       | 230<br>230<br>6.5<br>9.6            | 7/16/80<br>250<br>10.5<br>13.5        | 6/24/80<br>220<br>8.9<br>9.9                                               | 6/25/80<br>210<br>12.9<br>13.4      | 7/22/80<br>240<br>10.6<br>11.5            | 6/15/80<br>220<br>10.2<br>11.6                                 | 7/11/80<br>240<br>8.9<br>9.5                                                           | 7/20/80<br>230<br>11.2                      | 7/15/80                                                                             | 8/27/80<br>240<br>6.8                                         |  |
| ΜE                                      | TEOROLOGICAL SITE<br>BRADLEY         | KALLC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)              | 0.6/1<br>280<br>2.6<br>2.6          | 0.779<br>200<br>5.8<br>7.8            | 0.902<br>210<br>5.3                                                        | 0,965<br>8,20<br>6,5                | 0.925<br>250<br>11.5                      | 0.875<br>2205<br>5.8                                           | 0.940<br>210<br>8.5                                                                    | 0.064<br>8.3054                             | 0.968<br>210<br>4.0<br>4.0                                                          | 0.949<br>9.980<br>9.80                                        |  |
| Ш<br>W                                  | JEORDLOGICAL SITE<br>BRIDGEPORT      | VEL (MPH)<br>SPD (MPH)                                    | 10.00<br>10.00<br>10.00             | 230<br>230<br>15.1                    | 10.40<br>10.30                                                             | 230<br>230<br>11.2                  | 10.0<br>10.6<br>12.4                      | 0.825<br>230<br>8.6                                            | 0.885<br>9.80<br>9.80<br>9.90                                                          | 0.258<br>210<br>9.8<br>11.6                 | 0.921<br>12.00<br>13.50                                                             | 0.678<br>230<br>5.6<br>7.3                                    |  |
| M                                       | TEOROLOGICAL SITE<br>WORCESTER       | NALLC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC     | 0. 723<br>270<br>6. 7<br>0. 945     | 0.972<br>260<br>8.0<br>0.960<br>0.960 | 0.82<br>9.92<br>9.95<br>9.95<br>9.95<br>9.95<br>9.95<br>9.95<br>9.9        | 0.954<br>280<br>7.6<br>8.8<br>0.865 | 0.854<br>250<br>7.4<br>0.949              | 0.694<br>250<br>4.50<br>6.2<br>0.740                           | 0.883<br>250<br>7.4<br>0.973                                                           | 0.843<br>270<br>7.9<br>8.5<br>0.937         | 0.934<br>9.90<br>0.979<br>0.973                                                     | 0.750<br>5.4<br>6.5<br>0.993                                  |  |
| N C C C C C C C C C C C C C C C C C C C | EN 1:<br>TEOROLOGICAL SITE<br>NEWARK | 23 236<br>DIR (DATE<br>VEL (MPH)<br>SPD (MPH)             | 0.291<br>7/16/80<br>10.5<br>13.5    | 0.235<br>7/21/80<br>6.5<br>9.6        | 0.227<br>7/22/80<br>10.6<br>11.5                                           | 0.226<br>7/20/80<br>10.8<br>11.2    | 0.204<br>6/24/80<br>8.9<br>9.9            | 0.189<br>8/27/80<br>6.8<br>7.2                                 | 0.184<br>6/25/80<br>210<br>12.9                                                        | 0.173<br>8/ 6/80<br>250<br>7.3<br>9.8       | 0.172<br>8/ 3/80<br>240<br>7.3                                                      | 0.156<br>8/8/80<br>230<br>11.0                                |  |
| R<br>N                                  | TEOROLOGICAL SITE<br>BRADLEY         | VEL (MPH)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC              | 6.7200<br>5.8<br>6.728              | 280<br>280<br>5.8<br>0,499            | 010000000000000000000000000000000000000                                    | 0.258<br>0.258<br>0.258<br>0.258    | 2.70<br>2.70<br>5.3<br>0.498              | 0.949<br>280<br>3.5<br>6.5<br>78<br>6.7<br>8<br>78             | 0.955<br>220<br>6.2<br>0.937                                                           | 0.744<br>250<br>250<br>24.6<br>739<br>9.739 | 0.548<br>230<br>8.80<br>0.878<br>0.878<br>0.878                                     | 0.02<br>0.02<br>0.02<br>0.04<br>0.04<br>0.04<br>0.04<br>0.04  |  |

| CONNECTIO | CUT DEPARTMENT OF ENV          | I ROMENTAL F | ROTECTION                                                                       | . 7                     |                                                                                             | PAGE                       | 7                     |                                        |                      | AIR COMPL            | IANCE ENG                                                                                   | INEERING                   |
|-----------|--------------------------------|--------------|---------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------|----------------------------|-----------------------|----------------------------------------|----------------------|----------------------|---------------------------------------------------------------------------------------------|----------------------------|
| POLLUTAN' | t0 ZONE                        | 1980         | TEN HIGH                                                                        | HEST 1 HOU              | IR AVG OZC                                                                                  | NE DAYS W                  | UNIM HII              | DATA                                   |                      | I : STINU            | ARTS PER                                                                                    | MILLION                    |
|           | TOWN NAME SI                   | TE SAMPLES   | ۴-                                                                              | N                       | ო                                                                                           | ধ                          | ល                     | Q                                      | 4                    | - BD                 | ŋ                                                                                           | 10                         |
|           | METEOROLOGICAL SITE            | DIR (DEG)    | 230                                                                             | 230                     | 230                                                                                         | 210                        | 230                   | 050                                    | 030                  | 050                  | 010                                                                                         | 040                        |
|           | BRIDGEPORT                     | VEL (MPH)    | 14.7                                                                            | 0.0                     | 10.6                                                                                        | 8.0                        | 10.7                  | 0<br>0<br>0                            | 10.7                 | 4 03<br>             | 5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 4<br>4<br>4<br>4<br>4<br>4 |
|           |                                | SPD (MPH)    | 15.1                                                                            | 12.5                    | 12.4                                                                                        | 11.6                       | 11.6                  | 7.3                                    | 11.2                 | 11.1                 | 10.9                                                                                        | 11.5                       |
|           |                                | RATIC        | 0.972                                                                           | 0.723                   | 0.854                                                                                       | 0.843                      | 0.919                 | 0.760                                  | 0.954                | 0.785                | <b>0</b> .868                                                                               | 0.962                      |
|           | METEOROLOGICAL SITE            | DIR (DEG)    | 260                                                                             | 270                     | 250                                                                                         | 270                        | 270                   | 280                                    | 280                  | 250                  | 230                                                                                         | 260                        |
|           | WORCESTER                      | VEL (MPH)    | ວູດ<br>ທີ່                                                                      | 6.7                     | 4.6                                                                                         | 6.2                        | 8°.5                  | 6.4                                    | 7.6                  | 7.0                  | 6.7                                                                                         | 6.9                        |
|           |                                | RATIC        | а. s<br>0, 960                                                                  | 7.0<br>0.945            | 0.949                                                                                       | с.8<br>0.937               | 8.9<br>0.955          | 6.5<br>0.993                           | 8.8<br><b>0</b> .865 | 7.3<br>0.955         | 6.9<br>0.978                                                                                | 7.2<br>0.966               |
|           |                                |              |                                                                                 |                         |                                                                                             |                            |                       |                                        |                      |                      |                                                                                             |                            |
| STAF      | FORD                           | 161          | 0.197<br>7/22/00                                                                | 0.153                   | 0.146                                                                                       | 0.144                      | 0.140                 | 0.131                                  | 0.127                | 0.126                | 0.126                                                                                       | 0.125                      |
|           | METEOROLOGICAL SITE            | DIR (DEG)    | 240                                                                             | 220                     | 240                                                                                         | 260                        | 230                   | 0/22/00                                | 1/2//30              | 5/30/80              | 5/ 24/ 80                                                                                   | 5/22/80                    |
|           | NEWARK                         | VEL (MPH)    | 10.6                                                                            | 10.2                    | 8<br>0                                                                                      | 0                          |                       | 12.9                                   | 8.8<br>8.8           | 7.4                  | 4                                                                                           | เม                         |
|           |                                | SPD (MPH)    | 11.5                                                                            | 11.6                    | ອ<br>ບ                                                                                      | 9.6                        |                       | 13.4                                   | 10.9                 | 8.2                  | 6.9                                                                                         | 10.1                       |
|           |                                | RATIC        | 0,925<br>010                                                                    | 0.875                   | 0.940                                                                                       | 0.866                      | 0.844                 | 0.965                                  | 0.806                | 0.906                | 0.665                                                                                       | 0.537 +                    |
|           | MEIEUKULUGICAL SI E<br>BPADIFY | VEL (MPH)    | 250<br>8                                                                        | 220                     | 2<br>2<br>2<br>2<br>2<br>2<br>2<br>2                                                        | 9 5 0<br>9 5 0             | 240                   | 220                                    | 200                  | 500<br>1900          | 170                                                                                         |                            |
|           |                                | SPD (MPH)    | ,                                                                               | - 02<br>- 17            | 0<br>0<br>0                                                                                 |                            | - c<br>. u            | y u<br>y u                             | - r<br>. u           | 1 0<br>- 1           | 9 C                                                                                         | ν.α<br>τe                  |
|           |                                | RATIC        | 0.711                                                                           | 0.825                   | 0.885                                                                                       | 0.571                      | 0.661                 | 0.937                                  | 0.957                | 0.942                | 0.395<br>0                                                                                  | 0.381                      |
|           | METEOROLOGICAL SITE            | DIR (DEG)    | 230                                                                             | 230                     | 220                                                                                         | 240                        | 230                   | 230                                    | 200                  | 06                   | 130                                                                                         | 06                         |
|           | BRIDGEPORT                     | VEL (WPH)    | 10.6                                                                            | 0.0                     | 0<br>0<br>0                                                                                 | 8.8                        | 12.9                  | 10.7                                   | 8.4                  | 6.0                  | 3.3                                                                                         | 4.7 °                      |
|           |                                |              |                                                                                 | 9.0<br>0                | ດ<br>ເ<br>ອາເ                                                                               | 9.0<br>9                   | 13.4                  | 11.2                                   | ດ.<br>ເມີ            | 8.1                  | 0<br>1<br>1<br>1                                                                            | 4                          |
|           | WETFORDIDGICAL SITE            |              | 0.00<br>000                                                                     | 0.004<br>010            | 0.834<br>280                                                                                | 0.010                      | 0.963                 | 0.954                                  | 0.683                | 0.742                | 0.387                                                                                       | 0.414<br>010<br>010        |
|           | WORCESTER                      | VEL (MPH)    | 2.4                                                                             | ) (C<br>)<br> <br> <br> | 200                                                                                         | 00                         | 0<br>0<br>0<br>0<br>0 | <b>1</b><br>7<br>8<br>7<br>8<br>7<br>8 | л к<br>И к           | 2 1 1                | קרי<br>יי                                                                                   |                            |
|           |                                | (HdW) OdS    | 7.8                                                                             | 9.2                     | 7.6                                                                                         |                            | າ ເາ<br>- 00          | - a                                    | ា ល<br>ក             | - a<br>- a           | 0<br>0<br>0                                                                                 | nu<br>. o                  |
|           |                                | RATIC        | 0.949                                                                           | 0.740                   | 0.973                                                                                       | 0.286                      | 0.948                 | 0.865                                  | 0.955                | 0.830                | 0.660                                                                                       | ed.                        |
| STRA      | TFORD                          | 7 176        | 0.303                                                                           | 0.276                   | 0.274                                                                                       | 0.272                      | 0.253                 | 0.249                                  | 0,246                | 0.244                | 0.226                                                                                       | 0,189                      |
|           |                                | DATE         | 7/21/80                                                                         | 6/25/80                 | 7/16/80                                                                                     | 7/20/80                    | 6/24/80               | 8/ 6/80                                | 8/8/80               | 8/27/80              | 7/22/80                                                                                     | 5/23/80                    |
|           | WETEOROLOGICAL SITE            | DIR (DEG)    | 230                                                                             | 210                     | 250                                                                                         | 230                        | 220                   | 250                                    | 230                  | 240                  | 240                                                                                         | 260                        |
|           | NEWARK                         | VEL (MPH)    | ດ<br>ເ                                                                          | 12.9                    | 10.0                                                                                        | 10.8                       | 8.9<br>0              | 7.3                                    | 11.0                 | 6.B                  | 10.5                                                                                        | 8.3                        |
|           |                                |              | ມ<br>ເ<br>ວັເ                                                                   | 4.00                    | 5 C C                                                                                       | 11.2                       | ດ<br>ເ<br>ດີ          | ອ<br>ດີ                                | 11.9                 | 7.2                  | 11.5                                                                                        | 9.0                        |
|           | METEORDIDGICAL SITE            | DID (DEC)    |                                                                                 | non.<br>000             | 577°0                                                                                       | 0.904                      | 0.502                 | 0.744                                  | 0.923                | 0.949                | 676 0                                                                                       | 0.866                      |
|           | BRADLEY                        | VEL (MPH)    | 20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>2 |                         | 2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | )<br>0<br>1<br>0<br>1<br>0 | 2 6                   | ט ע<br>1<br>ע פ                        | 200                  | ון כ<br>ס גר<br>ס גר | <b>ז כ</b><br>ח<br>ע ע                                                                      | 0 V 0                      |
|           |                                | SPD (MPH)    | 0<br>0                                                                          | 0.0                     | 7.8                                                                                         | 00                         | ຕຸ                    | , 4<br>, 0                             | ר סי<br>ר וח         | י ה<br>י ה           | ຳ<br>ເ                                                                                      | 2 C C                      |
|           |                                | RATIC        | <b>0.</b> 499                                                                   | 0.937                   | 0.746                                                                                       | 0.258                      | <b>0.</b> 498         | 0.735                                  | 0.739                | 0.678                | 0.711                                                                                       | 0.571                      |
|           | MELEURULUGICAL SITE            | DIR (DEG)    | 230                                                                             | 230                     | 230                                                                                         | 210                        | 230                   | 230                                    | 240                  | 230                  | 230                                                                                         | 240                        |
|           | DAIDGEPUX-                     |              | ວມ<br>ວັນ                                                                       | 10.7                    | 1.4.                                                                                        | ຍູ                         | 10.7                  | 8.7                                    | 4 <b>1</b> • 4       | 5<br>9               | 10.6                                                                                        | 8°.<br>8                   |
|           |                                |              | 0 (C<br>2 - C                                                                   | 7.1.1                   |                                                                                             |                            | 11.6                  | 11.1                                   | 1. u                 | 7.3                  | 12.4                                                                                        | 0°0                        |
|           | METEOROLOGICAL SITE            | DIR (DEG)    | 270                                                                             |                         | 260                                                                                         |                            | n - n - n             | 0010                                   |                      | 007.0                | C. C. C.                                                                                    | 0.910                      |
|           | WORCESTER                      | VEL (MPH)    | 6.7                                                                             | 7.6                     | 0.0                                                                                         |                            | , 00<br>, 10          | 2.0                                    | 2<br>2<br>2<br>0     | ) 4<br>0<br>1<br>0   | 2.4                                                                                         | > 0<br>∩ -<br>? ←          |
|           |                                | SPD (WPM)    | 7.0                                                                             | 00                      | с,<br>С,                                                                                    | . ຫ<br>ມ                   | 0.0                   | 2.3<br>0                               | 7.2                  | ຸ ທ<br>ທ             | . 03. /                                                                                     | . 9                        |
|           |                                | RATIC        | 0.945                                                                           | 0.865                   | 0,960                                                                                       | 0.937                      | 0.955                 | 0.955                                  | 0.966                | 0.993                | 0, 949                                                                                      | 0.286                      |

### Conclusions:

Once again in 1980, measured nitrogen dioxide levels at all sampling sites in Connecticut were below the National Ambient Air Quality Standard of 100 ug/m<sup>3</sup>, annual arithmetic mean. A statistical analysis of the data also demonstrates with 95% confidence, that every site achieved the annual NAAQS for NO<sub>2</sub>.

There was no significant change in  $NO_2$  levels between 1979 and 1980 (see Table 4). Since 60% of the  $NO_2$  emissions in Connecticut come from motor vehicles, this continued attainment could be attributable to the Federal emission control program for motor vehicles. The year-to-year changes in  $NO_2$  levels appear to be caused primarily by fluctuations in meteorological conditions.

### Sample Collection and Analysis:

The DEP Air Monitoring Unit uses gas bubblers employing the NASN Sodium Arsenite method. These instruments sample for twenty-four hours every sixth day, the same schedule as the suspended particulate instruments. The samples are later chemically analyzed in the laboratory.

### Discussion of Data:

<u>Monitoring Network</u> - There were eighteen nitrogen dioxide sites in 1980 as compared to twenty in 1979. The sites were distributed in a network covering urban, residential and suburban locations (see Figure 7).

<u>Historical Data</u> - The DEP's historical file of annual average nitrogen dioxide data for 1973-1980 is presented in Table 23. The data presented in this 1980 Annual Summary replaces all previous compilations. Also, if minimum EPA sampling requirements were not met in a given year at a given site, an asterisk appears next to the number of samples taken at that site.

<u>Annual Averages</u> - The annual average  $NO_2$  standard was not exceeded in 1980 at any site in Connecticut. In 1980, of the sites that had sufficient data to compute valid arithmetic means, eleven sites showed higher annual means than in 1979, with only one of the increases being greater than 4 ug/m<sup>3</sup>. In 1980, six sites showed lower annual means than in 1979, with two of these decreases being greater than 3 ug/m<sup>3</sup>. Thus, these results indicate that  $NO_2$  levels have remained at about the same level since 1978.

<u>Statistical Projections</u> - The format of Table 23 is the same as that used to list the Total Suspended Particulate data. Note that although the distribution of  $NO_2$  data tends to be lognormal, the annual arithmetic mean is shown for direct comparison to the NAAQS for nitrogen dioxide. The 95 percent limits and standard deviations are also arithmetic calculations, but the geometric means and standard deviations were used to give accurate predictions of the number of days the levels of 100 ug/m<sup>3</sup> and 282 ug/m<sup>3</sup> would be exceeded at each site if sampling had been conducted on a daily basis. Although there is no 24-hour NAAQS for NO<sub>2</sub>, the 282 ug/m<sup>3</sup> level was selected for this presentation because at this level a 1st stage air pollution alert is to be declared according to the State of Conneecticut's Administrative Regulations for the Abatement of Air Pollution. The 100 ug/m<sup>3</sup> level was selected to provide an indication of how many days per year the annual NAAQS may have been exceeded if sampling was performed daily.

<u>10-High Days With Wind Data</u> - Table 24 contains the 10 highest daily NO<sub>2</sub> readings for each site in 1980 along with the associated wind conditions. (See the discussion of Table 12 in the TSP Section for a description of the origin and use of the wind data.)

As with the other pollutants,  $NO_2$  levels were high most often during the winter months and when the winds were southwesterly. But, more so than the other pollutants,  $NO_2$  levels were high on non-persistent southwest wind days. Although some  $NO_2$  is emitted directly by fuel burning sources, much  $NO_2$  is formed photochemically in the atmosphere. Once again, it appears that a combination of pollutant transport and otherwise adverse meteorological conditions tend to produce high  $NO_2$ levels on southwest wind days.



|                                                                                                                                |                                                                   | 10                                                                   |                                                                                                                                                                                                                                    |                                                                                                                                           |                                                      |                                                                                  | ,                                                                                                                                              |                                                                                             |                                     |
|--------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|----------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-------------------------------------|
|                                                                                                                                |                                                                   |                                                                      |                                                                                                                                                                                                                                    | IAL FRUIECI                                                                                                                               | NUL                                                  | PAGE                                                                             | <b>7</b> 6                                                                                                                                     | IR COMPLIANCE                                                                               | MONITORING                          |
| DLLUTANT                                                                                                                       | VITROGEN                                                          | DIXDIG 1                                                             | ш                                                                                                                                                                                                                                  |                                                                                                                                           |                                                      |                                                                                  |                                                                                                                                                | DISTRIBUTION                                                                                | LOGNORMAL                           |
| OWN NAME                                                                                                                       | SITE                                                              | YEAR                                                                 | SAMPLES                                                                                                                                                                                                                            | ARI. MEAN                                                                                                                                 | 95-PCT-<br>LOWER                                     | -LIMITS<br>UPPER                                                                 | STD DEVIATIC                                                                                                                                   | PREDICTED<br>DAYS DVER<br>N 100 UG/M3                                                       | PREDICTED<br>DAYS DVER<br>282 UG/斑3 |
| SERLIN<br>SERLIN<br>Verlin                                                                                                     | 5555                                                              | 1973<br>1974<br>1975                                                 | ດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວິດ<br>ຊີວີ<br>ຊີວີ<br>ຊີວີ<br>ຊີວີ<br>ຊີວີ<br>ຊີວີ<br>ຊີວີ<br>ຊີວ | 42.42<br>42.92<br>42.92                                                                                                                   |                                                      | 5070                                                                             | 33,266<br>15,498<br>28,066                                                                                                                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | N                                   |
| RIDGEPORT<br>RIDGEPORT<br>BRIDGEPORT                                                                                           | 5 5 5 5                                                           | 1973<br>1973                                                         | f,*<br>0.00μ<br>- αιωμ                                                                                                                                                                                                             | 64.8<br>87.18                                                                                                                             | ດ ບຸດ<br>ເຊິ່ງ                                       | 4 4 0<br>9 7 6<br>9 7 6                                                          | 23.676<br>22.824<br>22.824                                                                                                                     | 4 0)00<br>6 0)00                                                                            |                                     |
| RELOGE PORT<br>RELOGE PORT<br>RELOGE PORT<br>IRLDGE PORT<br>IRLDGE PORT                                                        | 55555                                                             | 0201<br>1970<br>1970<br>1978<br>1980                                 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                                                                                                                                              | 500<br>747.7<br>727.7<br>80<br>80<br>77.7<br>7<br>80<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 52<br>67<br>65<br>65<br>65                           | 0 1 0 8 8 8 7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4                                    | 25.255<br>31.261<br>36.274<br>21.824<br>25.751<br>26.893                                                                                       | 5 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2                                                     | 0                                   |
| 3RIDGEPORT<br>3RIDGEPORT<br>3RIDGEPORT<br>3RIDGEPORT<br>3RIDGEPORT<br>3RIDGEPORT<br>3RIDGEPORT                                 | 03<br>03<br>03<br>123<br>123<br>123                               | 1973<br>1975<br>1976<br>1975<br>1975                                 | 04 - 000<br>000 - 400<br>200 - 200<br>200 - 200                                                                                                                                                                                    | 104.0<br>71.8<br>62.9<br>72.0<br>72.3<br>72.5                                                                                             | 800 000<br>841 000                                   | 124<br>125<br>124<br>124<br>124<br>124<br>124<br>124<br>124<br>124<br>124<br>124 | 54.953<br>27.710<br>20.216<br>33.054<br>25.970<br>26.607                                                                                       | 5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 03                                  |
| SRIDGEPORT<br>SRIDGEPORT<br>SRIDGEPORT<br>SRISTOL<br>SRISTOL<br>SRISTOL<br>SRISTOL<br>SRISTOL<br>SRISTOL<br>SRISTOL<br>SRISTOL | 222<br>222<br>222<br>222<br>222<br>222<br>222<br>222<br>222<br>22 | 1978<br>1979<br>1979<br>1975<br>1975<br>1975<br>1975<br>1975<br>1975 | លាហូ សាស្ត្រក្រសាល<br>លាល សាស្ត្រក្រសាល<br>លាល ក ល្ហា សាល្ហា សាលាល្ហា                                                                                                                                                              | 0000 000404444<br>040 0004044444<br>000 000-0000000000                                                                                    | 000 474444<br>000 000 000 0000<br>000 000 000 000 00 | ৮০০০ ০০০০০০০০০<br>০০০০ ৮০০০৮৫০৫০<br>০০০০                                         | 28.084<br>37.035<br>37.035<br>34.0035<br>34.0035<br>22.067<br>22.067<br>22.067<br>2033<br>2055<br>2055<br>2055<br>2055<br>2055<br>2055<br>2055 | 19900000000000000000000000000000000000                                                      | R                                   |

TABLE 23 1973-80 NO<sub>2</sub> Annual Averages and Statistical Projection

| CONNECTICUT DE | EPARTM                                                                                      | ENT OF | ENVIRONMEN     | TAL PROTECT | NOI              | PAGE            | 2 41          | R COWPLIANCE                        | MONITORING                          |
|----------------|---------------------------------------------------------------------------------------------|--------|----------------|-------------|------------------|-----------------|---------------|-------------------------------------|-------------------------------------|
| POLLUTANTNI1   | TROGEN                                                                                      | DIXOID | w              |             |                  |                 |               | DISTRIBUTION                        |                                     |
| TOWN NAME      | SITE                                                                                        | YEAR   | SAMPLES        | ari . Mean  | 95-PCT-<br>LOWER | LIMITS<br>UPPER | STD DEVIATION | PREDICTED<br>DAYS DVER<br>100 UG/题3 | PREDICTED<br>CAYS OVER<br>282 UG/M3 |
| BRISTOL        | 00                                                                                          | 1973   | *<br>∽1        | 36.7        | 30               | (Y)<br>(文)      | 14.094        |                                     |                                     |
|                | ۲<br>۵                                                                                      | すっか    | b<br>D<br>D    | 20.B        | 22               | 22              | 20.149        | ۲<br>۲                              | <b>\$</b> 20                        |
| BRISTOL        | е<br>0                                                                                      | 1973   | *0 <b>,</b>    | 43.2        | <b>9</b> 3       | 54              | 22.402        | 24                                  |                                     |
| BRISIOL        | 0                                                                                           | 1974   | ម<br>ទ         | 28.8        | 24               | 99<br>99        | 15.652        | 13                                  | ₿rai                                |
| BRISTOL        | 04                                                                                          | 1973   | *0~            | 54.0        | 4<br>0           | 65              | 22.757        | 50                                  | 0                                   |
| BRISTOL        | 40                                                                                          | 1974   | 0<br>D         | 45.1        | 40               | 50              | 21.223        | 24                                  |                                     |
| BRISTOL        | 04                                                                                          | 1975   | 47.            | 52.1        | 44               | 60              | 27.905        | 35                                  | ţ.m                                 |
| BRISTOL        | ಷ<br>೧                                                                                      | 1976   | 44             | 11.1        | 2                | 16              | 7.770         |                                     |                                     |
| BURLINGTON     | 01                                                                                          | 1973   | 46 .<br>46 *   | α<br>α      | . 0              | 4               |               |                                     |                                     |
| BURI INGTON    | õ                                                                                           | 4701   |                |             | 2.0              | 0 L<br>- 1      |               |                                     |                                     |
| BURLINGTON     | 00                                                                                          | 16751  | 0 F            |             | א ק<br>ד         | n r<br>- r      | 14.4.4        | n c                                 |                                     |
| BUD INCTON     | ç                                                                                           |        |                | > (<br>- (  | <u>*</u> '       | N I             | 14.20         | N                                   |                                     |
|                | 5                                                                                           | 0/21   | *<br>D         | а.<br>Б     | ო                | 17              | 6.832         |                                     |                                     |
| COLCHESTER     | 01                                                                                          | 1973   | Q              | 44.4        | 38               | 5               | 26.167        | 29                                  | ţ                                   |
| COLCHESTER     | õ                                                                                           | 1974   | 60             | 31.6        | 28               | 35              | 15.937        |                                     |                                     |
| COLCHESTER     | 01                                                                                          | 1975   | 56.            | 37.0        | 4<br>(1)         | 40              | 14.121        | • •                                 |                                     |
| COLCHESTER     | 01                                                                                          | 1976   | 10*            | 33.6        | 22               | 45              | 16.076        | 1 (7)                               |                                     |
| DANBURY        | 5                                                                                           | 1973   | 25*            | 35.2        | 25               | 41              | 25.331        | 90                                  | Ω.                                  |
| DANBURY        | 5                                                                                           | 1974   | 55.            | 45.0        | 38               | 52              | 26.845        | 0                                   | <del>*</del> ~                      |
| DANBURY        | 01                                                                                          | 1975   | #<br>0         | 65.9        | 31               | 100             | 45.405        | 67                                  | · (7)                               |
| DANBURY        | 123                                                                                         | 1975   | 48*            | 44.0        | 66               | 4<br>0          | 17.294        | 43                                  |                                     |
| DANEURY        | (U)<br>(U)<br>(D)                                                                           | 1976   | 57             | 41.1        | 35               | 47              | 23.155        | 24                                  |                                     |
| DANBURY        | 123                                                                                         | 1977   | 61             | 55.0        | ច្               | 59              | 17.784        | 02                                  |                                     |
| DANBURY        | €4<br>€4                                                                                    | 1978   | 57             | 55.8        | ភ <u>ា</u>       | 61              | 21.274        | 20                                  |                                     |
| DANBURY        | 8<br>7<br>9                                                                                 | 1979   | <del>6</del> 1 | 53.5        | 48               | ក<br>ហ          | 23.360        | 16                                  |                                     |
| DANBURY        | 5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 1980   | 57             | 55.0        | 20               | 60              | 21.868        | 35                                  |                                     |
| DANBURY 01/    | 123                                                                                         | 1975   | 57             | 47.5        | 4                | 54              | 25.326        | 10                                  |                                     |
| DERBY          | 123                                                                                         | 1976   | 56             | 50°.        | 46               | 28              | 23.071        | 0<br>8                              |                                     |

| CONNECT I CUT D                                 | EPA R1%          | ENT OF                    | ENVIRONMEN.                     | TAL PROTECT                                                        | NOI              | PAGE                                                                                        | IN<br>E                    | R COMPLIANCE                        | RONITCRING                          |
|-------------------------------------------------|------------------|---------------------------|---------------------------------|--------------------------------------------------------------------|------------------|---------------------------------------------------------------------------------------------|----------------------------|-------------------------------------|-------------------------------------|
| POLLUTANTNI                                     | TROGEN           | DIXOID                    | ш                               |                                                                    |                  |                                                                                             | ·                          | DISTRIBUTION-                       | LOGNORWAL                           |
| TOWN NAME                                       | ш<br>Т<br>Г<br>S | YEAR                      | SAMPLES                         | ARI . MEAN                                                         | 95-PCT-<br>LOWER | LIMITS<br>UPPER                                                                             | STD DEVIATION              | PREDICTED<br>DAYS DVER<br>100 UG/W3 | PREDICTED<br>DAYS OVER<br>282 UG/M3 |
| DERBY<br>DERBY                                  | 233              | 1977<br>1978              | 60<br>44*                       | 58.4<br>53.7                                                       | 0<br>0<br>0<br>0 | 0 U<br>4 U                                                                                  | 21.760<br>18.992           | \$ M<br>€ M                         |                                     |
| EAST HARTFORD<br>EAST HARTFORD<br>EAST HARTFORD | 600              | 1974<br>1975<br>1975      | 4 ມ <del>-</del><br>ມູດ ດີ<br>* | 57.7<br>63.2<br>40.6                                               | 22<br>22<br>20   | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 | 19.828<br>24.617<br>25.370 | 9 9<br>9 9 0                        | ĝosr                                |
| EAST MARTFORD                                   | 05               | 1973                      | 20.                             | 61.3                                                               | 50               | 72                                                                                          | 24.460                     | 5                                   |                                     |
| EASI HARIFORD<br>EASI HARTFORD                  | 50 50<br>50 50   | 1974<br>1975              | ດ<br>22                         | 52 <b>.</b> 3                                                      | 48<br>88<br>8    | 57<br>61                                                                                    | 19.256<br>23.877           | 10                                  |                                     |
| EAST HARTFORD                                   | 03               | 1975                      | 55                              | 41.2                                                               | 94               | 48                                                                                          | 27.462                     | 20                                  |                                     |
| EAST HARTFORD<br>East hartford                  | 00               | 1979                      | 0 u<br>0 u                      | 0 0<br>0 0<br>0 0                                                  | ល ជ<br>រ<br>ល    | 65<br>50                                                                                    | 21.159<br>23.460           | 900                                 |                                     |
| EAST HARTFORD                                   | 02               | 1979                      | ល                               | 55.8                                                               | 215              | 61                                                                                          | 20.963                     | 10                                  |                                     |
| EAST WINDSOR<br>EAST WINDSOR                    | 55               | 1975<br>1976              | ₩00<br>₩                        | 64.2<br>60.2                                                       | ኪ<br>24          | 78<br>76                                                                                    | 26.132<br>26.740           | ୯୪ ମ<br>ଝ <b>୯</b> ୪                |                                     |
| ENFIELD                                         | 23               | 1975                      | 40**                            | 46.6                                                               | 4                | 0<br>0                                                                                      | 20.271                     | 60                                  |                                     |
| ENFIELD                                         | 5                | 1976                      | 61                              | 44.6                                                               | 4                | 50                                                                                          | 21.365                     | 2                                   |                                     |
| ENTIELD                                         | C4 C C4 C        | 1078                      | ດີເ                             | ດ<br>ດີ<br>ດີ<br>ດີ<br>ດີ                                          | 20               | 0 u<br>0 u                                                                                  | 21.909                     | ÷.<br>0,0                           |                                     |
| ENFIELD                                         | 123              | 1979                      | 0<br>0<br>0                     | 49.2                                                               | 4                | 0 10<br>0 4                                                                                 | 21.131                     | ,                                   |                                     |
| ENFIELD                                         | 123              | 1980                      | 61                              | 50.5                                                               | 46               | 52                                                                                          | 20.333                     | 10                                  |                                     |
| GREENWICH                                       | 0                | 1973                      | ខ្មែរ                           | 104.2                                                              | 84               | 125                                                                                         | 81.016                     | 139                                 | <b>0</b> 0 (                        |
| GREENWICH                                       | 55               | 1 IC<br>5 C<br>5 C<br>5 C | ក<br>ខេត<br>4                   | 35.7<br>36.5                                                       | 4 C<br>0 0       | 69<br>64                                                                                    | 36.562                     | 67<br>10                            | 10                                  |
| GREENWICH                                       | 01               | 1976                      | υπ<br>4.                        | 73.3                                                               | 99               | 82                                                                                          | 36.327                     | 11                                  | 2                                   |
| GREENWICH                                       | 0                | 1977                      | 4<br>2<br>4                     | 85.3                                                               | 73               | 10                                                                                          | 40.323                     | 100                                 | <b>4</b> 22                         |
| GREENWICH                                       | 0                | 1973                      | , 40<br>40                      | 72.2                                                               | 56               | 6<br>8                                                                                      | 61.286                     | 17                                  | đ                                   |
| GREENWICH                                       | 04               | 1974                      | ទទ                              | 39.9                                                               | 34               | 46                                                                                          | 23.535                     | 35                                  | (1)                                 |
| GREENWICH                                       | 400              | 1975<br>1976              | 212                             | ជា<br>ភូមិ<br>ភូមិ<br>ភូមិ<br>ភូមិ<br>ភូមិ<br>ភូមិ<br>ភូមិ<br>ភូមិ | 47<br>48         | 60                                                                                          | 25.233<br>26.323           | ი თ<br>ო ო                          |                                     |
|                                                 |                  |                           |                                 |                                                                    |                  |                                                                                             |                            |                                     |                                     |

| CONNECTICU. | T DEPÅ     | 「おす魔氏                                                                                            | CNT OF E | NVIRONMEN         | TAL PROTECT                                                                                      | NOI                    | PAGE             | 4                      | AIR COMPLIANCE                         | MONITORING                          |
|-------------|------------|--------------------------------------------------------------------------------------------------|----------|-------------------|--------------------------------------------------------------------------------------------------|------------------------|------------------|------------------------|----------------------------------------|-------------------------------------|
| POLLUTANT-  | -NITRO     | GEN                                                                                              | DICXIDE  |                   |                                                                                                  |                        |                  |                        | DISTRIBUTION                           | LOGNCRWAL                           |
| TOWN NAME   | IS         | ti)                                                                                              | YEAR     | SAMPLES           | ARI. REAN                                                                                        | 95-PCT-<br>LOWER       | -LIWITS<br>UPPER | STD DEVIATI            | PREDICTED<br>DAYS DVER<br>DN 100 UG/W3 | PREDICTED<br>DAYS DVER<br>282 UG/M3 |
| GREENWICH   |            | 04                                                                                               | 1977     | 50                | 48.8                                                                                             | 4<br>1                 | 54               | 23 671                 | 00                                     |                                     |
| GREENWICH   |            | 04                                                                                               | 1978     | 60                | 100                                                                                              | <u>ט</u><br>ראי<br>ראי | 14               |                        | ) ()<br>N                              |                                     |
| GREENWICH   |            | 40                                                                                               | 1979     | 60                |                                                                                                  | 24                     | 1 C<br>F W       | 210.01                 | 2 Y C                                  |                                     |
| GREENWICH   |            | 04                                                                                               | 1980     | 61                | 51.6                                                                                             | - 4<br>0 0             | 57               | 23.177                 | 0 1                                    |                                     |
| GREENWICH   |            | 80                                                                                               | 1976     | 54<br>4           | 35.9                                                                                             | 32                     | 40               | 15 810                 | 6                                      |                                     |
| GREENWICH   |            | 80                                                                                               | 1977     | 14*               | 30.9                                                                                             | 24                     | B.<br>M          | 11.799                 | ¥                                      |                                     |
| GROTON      |            | 01                                                                                               | 1973     | 57                | 44 . U                                                                                           | 37                     | 53               | 99 516                 | 35                                     | ſ                                   |
| GROTON      |            | 01                                                                                               | 1974     | 61,               | 37.9                                                                                             | 35                     | 1 4              | 13.644                 |                                        | 4                                   |
| GR010N      |            | 01                                                                                               | 1975     | 24*               | 38.4                                                                                             | <u>.</u>               | 46               | 17.545                 | - ເກ                                   |                                     |
| GROTON      | • • • • •  | 23                                                                                               | 1975     | , 44E             | 44.8                                                                                             | 70                     | C<br>L           | 00<br>1<br>1           | r                                      |                                     |
| GROTON      | <b>6</b>   | 23<br>23                                                                                         | 1976     | 28                | 41.6                                                                                             | 9 60<br>• (7)          | ) ላ<br>የ         | 12.1.20                | ñ 4                                    |                                     |
| GROTON      | ¢~         | 23                                                                                               | 1977     | 60                | 49.7                                                                                             | 1<br>1<br>1<br>1       | . U              | 10.10.2                |                                        |                                     |
| GROTON      | <b>6</b> ~ | 23                                                                                               | 1978     | 61                | 46.2                                                                                             | 4                      | i in             | 21.707                 |                                        |                                     |
| GROTON      | 8a         | 3<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B<br>B | 1979     | 29                | 44.3                                                                                             | 38                     | 00               | 16.246                 | ।                                      |                                     |
| GROTON (    | 1 / 10     | 23                                                                                               | 1975     | 28                | 42.1                                                                                             | 38                     | 46               | 16.808                 | <b>ن</b> م<br>ر                        |                                     |
| HARTFORD    |            | 03                                                                                               | 1973     | ີ "ມີ<br>ເ        | 63.1                                                                                             | 0<br>10                | 67               | 13.293                 | ধ                                      |                                     |
| MARTFORD    | r          | 03                                                                                               | 1974     | 60                | 53.4                                                                                             | 46                     | 60               | 29.797                 | 50                                     | ~                                   |
| HARTFORD    |            | 20                                                                                               | 1975     | 56                | 60.2                                                                                             | 54                     | 67               | 25.485                 | 29                                     | I                                   |
| HARTFORD    |            | 05                                                                                               | 1976     | 58                | 58.5                                                                                             | 53                     | 54               | 22.128                 | 35                                     |                                     |
|             |            | 0                                                                                                | 1977     | 54,               | 56.1                                                                                             | 50                     | 62               | 23.461                 | 52                                     |                                     |
| HARTFORD    |            | 02                                                                                               | 1978     | 4<br>10<br>#      | \$0°1                                                                                            | 41                     | 58               | 30.404                 | 50                                     | ហ                                   |
| HARTFORD    |            | 80                                                                                               | 1978     | ່ <b>*</b><br>ອ້າ | 81.6                                                                                             | 55                     | 108              | 35.261                 | 8                                      |                                     |
| HARTFORD    |            | ო<br>0                                                                                           | 1979     | 60                | 77.5                                                                                             | 71                     | 84               | 26.379                 | 22                                     |                                     |
| HARTFORD    |            | <b>Ю</b>                                                                                         | 1980     | 58                | 78.6                                                                                             | 72                     | 85               | 26.686                 | . 00                                   |                                     |
| MARTFORD    | ĝ.s        | 23                                                                                               | 1975     | , *<br>ማ<br>ር     | 76.5                                                                                             | 67                     | и<br>0           |                        | ł                                      |                                     |
| HARTFORD    | ţ          | 50                                                                                               | 1976     | 60                | 5<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | - 0<br>2               | 00               | 20.008                 | 0 0<br>0 U                             |                                     |
| HARTFORD    | <b>₽</b> ∞ | 23                                                                                               | 1977     |                   |                                                                                                  |                        | V •<br>• •       |                        | 200                                    | •                                   |
| HARTFORD    | . Q        | m<br>N                                                                                           | 1978     | , ig              | 20.0                                                                                             | n ()<br>) ()           | - c<br>> 0       | 0 + 4 + 0<br>0 + 4 + 0 |                                        | *                                   |
|             |            | I<br>F                                                                                           |          | . )               | )                                                                                                | n<br>2                 | 8                | 21.011                 | 10                                     |                                     |

| ONNECTICUT                                                                                                                                     | DEPARTRI                                                           | ENT OF                                                   | ENVIRONMEN                                                                                     | TAL PROTECT                                                                                      | NOI                                 | PAGE                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 5<br>AIF                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | COMPLIANCE                          | MONITORING                          |
|------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|-------------------------------------|
| OLLUTANTN                                                                                                                                      | ITROGEN                                                            | DICXID                                                   | шł                                                                                             |                                                                                                  |                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | ISTRIBUTION-                        | LOGNORMAL                           |
| OWN NAME                                                                                                                                       | N<br>N<br>N                                                        | YEAR                                                     | SAMPLES                                                                                        | ARI . MEAN                                                                                       | 95-PCT-<br>LOWER                    | LIMITS<br>UPPER                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | STD DEVIATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | PREDICTED<br>DAYS OVER<br>100 UG/W3 | PREDICTED<br>DAYS OVER<br>282 UG/W3 |
| IARTFORD<br>IARTFORD                                                                                                                           | 5 5<br>5 5<br>7 5<br>7 5<br>7 5<br>7 5<br>7 5<br>7 5<br>7 5<br>7 5 | 1979<br>1980                                             | .08<br>08                                                                                      | 71.3<br>73.3                                                                                     | 65<br>67                            | 78<br>79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 28.080                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 9<br>9<br>9<br>9                    |                                     |
| (ENT<br>KENT<br>KENT                                                                                                                           | 600                                                                | 1973<br>1975<br>1975                                     | 5 5 7 4<br>7 7 4                                                                               | 177<br>1940<br>1940<br>194                                                                       | 222                                 | 1 - N<br>N - N                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 12.018<br>10.471<br>12.016                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | حري                                 |                                     |
| LITCHFIELD<br>LITCHFIELD<br>LITCHFIELD<br>LITCHFIELD                                                                                           | 5555                                                               | 1979<br>1974<br>1975<br>1975<br>1975                     | 4 ៧ ៧ 4<br>ស ហ ២ 6<br>*                                                                        | 42.3<br>35.3<br>35.3<br>3                                                                        | 9 0 0 8<br>9 0 0 8                  | 00000000000000000000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 30.297<br>18.140<br>23.057<br>15.094                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 4 M & 4<br>4 M & 4                  | ĝeo.                                |
| AANSFIELD<br>AANSFIELD<br>AANSFIELD<br>AANSFIELD<br>MANSFIELD                                                                                  | 00000                                                              | 1974<br>1975<br>1976<br>1973                             | 00<br>10<br>10<br>4<br>1<br>4<br>1<br>4<br>1<br>4<br>1<br>4<br>1<br>4<br>1<br>4<br>1<br>4<br>1 | 28<br>31.6<br>35.1<br>32.2                                                                       | 0 7 7 7 7<br>7 7 7 7 7<br>9 7 8 7 7 | 664 6<br>267 6<br>276 7<br>276 7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 13.947<br>15.138<br>17.433<br>21.894                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 8 N N O                             |                                     |
| AANSFIELD<br>AERIDEN<br>AERIDEN<br>AERIDEN<br>AERIDEN<br>AERIDEN<br>AERIDEN<br>AERIDEN<br>AIDDLETOWN<br>AIDDLETOWN<br>AIDDLETOWN<br>AIDDLETOWN | 00000 000000 00000<br>00000 000000 00000                           | 00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00<br>00 |                                                                                                | - 4404400 0000<br>9 40                                                                           | - 0044400 4004<br>40404-0 0006      | 4000 00000 0000<br>40000000000000000000000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 25.363<br>21.656<br>24.0237<br>24.0237<br>25.651<br>25.5237<br>25.525<br>25.525<br>25.363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.5363<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.537<br>25.5377<br>25.5377<br>25.5377<br>25.53777<br>25.5377777777777777777777777777777777777 | 4040004 0000<br>- 0004000 0400      | 10 F 10 F F F                       |
| MILFORD<br>Milford<br>Milford                                                                                                                  | 000                                                                | 1973<br>1974<br>1975                                     | 500 <del>*</del><br>200 *                                                                      | 8<br>7<br>8<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 | 0 4 5<br>0 0 0 0                    | 75<br>56<br>65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 35.931<br>31.439<br>27.813                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 9 4 0<br>9 2 0                      | មល                                  |

| CONNECTICUT            | DEPARTM    | ENT OF                    | ENVIRONMEN            | TAL PROTECT         | NOI              | PAGE             | g aif                | COMPLIANCE                          | DNITCRING                                                                                                      |
|------------------------|------------|---------------------------|-----------------------|---------------------|------------------|------------------|----------------------|-------------------------------------|----------------------------------------------------------------------------------------------------------------|
| POLLUTANTN             | I TRO GEN  | DIOXID                    | ш                     |                     |                  |                  |                      | JISTRI BUTION-                      | LOCN URMAL                                                                                                     |
| TOWN NAME              | 91 IS      | YEAR                      | SAMPLES               | ARI . MEAN          | 95-PCT-<br>LOWER | -LIWITS<br>UPPER | STD DEVIATION        | PREDICTED<br>DAYS OVER<br>100 UG/M3 | PREDICTED<br>DAYS DVER<br>282 UG/M3                                                                            |
| MILFORD                | 01         | 1976                      | *<br>₩                | 56.6                | 37               | 77               | 33.575               | 67                                  | œ                                                                                                              |
| MILFORD                | 00         | 1973                      | 46                    | 47.5                | 39               | 56               | 31.636               | CV<br>V                             | (M                                                                                                             |
| NAUGATUCK<br>NAUGATUCK | 66         | 1973                      | 4<br>4<br>4<br>7<br>7 | 69 <b>.2</b>        | 20<br>* 21       | ເກ ແ<br>ເວັນ     | 48.488<br>488<br>888 | 77                                  | 41                                                                                                             |
| NAUGATUCK              | ōõ         | រ<br>ភ្នំ<br>ភ្នំ<br>ភ្នំ | o u<br>u              | ា ហា<br>ក្រុមា<br>ព | - 0<br>7         | 200              | 24.14/               |                                     | •                                                                                                              |
| NAUGATUCK              | 01         | 1976                      | 10*                   | 43.0                | o<br>e<br>e      | 26               | 21.828               | 1 Ct                                | M                                                                                                              |
| NEW BRITAIN            | 02         | 1974                      | . 09                  | 48.9                | 4                | 57               | 32.639               | 58                                  | 09                                                                                                             |
| NEW BRITAIN            | 03         | 1975                      | 55,<br>,              | 63.5                | ្តាល             | 74               | 42.461               | 67                                  | m                                                                                                              |
| NEW BRITAIN            | 02         | 1976                      | 16*                   | <b>9 8</b>          | 46               | 73               | 25.908               | ц)<br>Ю                             |                                                                                                                |
| NEW BRITAIN            | 123        | 1976                      | 43*                   | 39.1                | 34               | 54               | 16.941               | ণ্ণ                                 |                                                                                                                |
| NEW BRITAIN            | 123        | 1977                      | 61                    | 54.7                | 50               | 0<br>0<br>0      | 19.524               | 29                                  |                                                                                                                |
| NEW BRITAIN            | 123        | 1978                      | 61                    | 60.3                | 53               | 89               | 31.589               | 35                                  |                                                                                                                |
| NEW BRITAIN            | 123        | 1979                      | 56                    | 53.5                | 49               | 5<br>C           | 21.705               | 13                                  |                                                                                                                |
| NEW BRITAIN            | 123        | 1980                      | 53                    | 56.1                | 52               | 60               | 17.403               | 10                                  |                                                                                                                |
| NEW HAVEN              | 0          | 1973                      | 28*                   | 68.0                | 58               | 64               | 28.196               | 23<br>19<br>19                      | 4                                                                                                              |
| NEW HAVEN              | 0          | 1974                      | 61                    | 66.6                | 61               | 73               | 25.360               | 29                                  |                                                                                                                |
| NEW HAVEN              | 01         | 1975                      | 57                    | 74.8                | 67               | 82               | 31.110               | 83                                  | 4                                                                                                              |
| NEW HAVEN              | 01         | 1976                      | 55,                   | 67.9                | 61               | 75               | 28.160               | 58                                  |                                                                                                                |
| NEW HAVEN              | 0          | 1977                      | *0°                   | 75.3                | 68               | 83               | 24.377               | 58                                  |                                                                                                                |
| NEW HAVEN              | 123        | 1976                      | 57                    | 78.6                | 71               | 86               | 30.813               | 67                                  |                                                                                                                |
| NEW HAVEN              | 123        | 1977                      | 58                    | 78.6                | 71               | 86               | 29.706               | 77                                  |                                                                                                                |
| NEW HAVEN              | 123        | 1978                      | 61                    | 82.1                | 74               | 60               | 35.306               | 6<br>9<br>9                         |                                                                                                                |
| NEW HAVEN              | 53         | 1979                      | 59                    | 64.0                | 60               | 69               | 17.938               | 13                                  |                                                                                                                |
| NEW HAVEN              | 6)<br>77   | 1980                      | 0<br>G                | 64.8                | 6 <u>6</u>       | 71               | 26.407               | 20<br>20                            |                                                                                                                |
| NORWALK                | 05         | 1973                      | 54                    | 110.0               | 94<br>8          | 126              | 64.647               | 168                                 | 7                                                                                                              |
| NORWALK                | 500        | 1974                      | 60                    | 72.1                | 65               | 80               | 31.491               | 67                                  | ŧ                                                                                                              |
|                        | 0 I<br>2 C | 0/0/<br>0/0/              | 57                    | 83. T               | 74               | (V)<br>()        | 36.901               |                                     | a '                                                                                                            |
| NORWALN                | n<br>0     | 1976                      | 57                    | 74.4                | 99               | (M)<br>(D)       | 35.956               | 22                                  | a the second |

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| CONNECTICUT [                                                                                | )EPARTM                                 | ENT OF 1                                     | ENVIRONMEN.                                                                                 | TAL PROTECT                                                                                                                 | NOI                                                           | PAGE                                                                                        | 7 AIR                                                              | COMPLIANCE                                                                                         | SNI HOLI INON                       |
|----------------------------------------------------------------------------------------------|-----------------------------------------|----------------------------------------------|---------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|-------------------------------------|
| POLLUTANTN                                                                                   | TROGEN                                  | DIGXID                                       | ш                                                                                           |                                                                                                                             |                                                               |                                                                                             | ۵                                                                  | ISTRIBUTION-                                                                                       |                                     |
| TOWN NAME                                                                                    | SITE                                    | YEAR                                         | SAMPLES                                                                                     | API - WEAN                                                                                                                  | 95-PCT-<br>LOWER                                              | -LIMITS<br>UPPER                                                                            | STD DEVIATION                                                      | PREDICTED<br>DAYS OVER<br>100 UG/M3                                                                | PREDICTED<br>DAYS OVER<br>282 UG/M3 |
| NORWALK<br>Norwalk<br>Norwalk<br>Norwalk                                                     | 0000<br>0000                            | 1977<br>1978<br>1979<br>1980                 | 5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5<br>5 | 74.1<br>66.1<br>73.2<br>75.8                                                                                                | 66<br>59<br>70                                                | 82<br>80<br>82                                                                              | 31.159<br>29.445<br>28.999<br>24.429                               | 6<br>20<br>23<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>2<br>3<br>3<br>2<br>3<br>2<br>3 |                                     |
| NORWICH<br>NORWICH<br>NORWICH<br>NORWICH<br>NORWICH<br>NORWICH<br>NORWICH                    | 6000000                                 | 1973<br>1975<br>1975<br>1976<br>1978         | លេក បេ ហេ ហេ ហេ ហេ<br>4 – ល ល – ១ ល .                                                       | 0444044<br>000000000000000000000000000000                                                                                   | 0444444<br>4 0 0 8 4 6 1                                      | 7 0 4 4 0 0 0 1<br>0 0 8 8 0 7 4 0 0                                                        | 35.295<br>18.562<br>17.119<br>18.365<br>15.395<br>20.092           | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0        | N                                   |
| NORWICH<br>OLD SAYBROOK<br>OLD SAYBROOK<br>OLD SAYBROOK<br>OLD SAYBROOK                      | 5 5 5 5 5 5                             | 1975<br>1975<br>1975                         | ດ ⊷ ອິດ⊷<br>- ອິດ - ອິດ<br>ອິດ -                                                            | 4.0<br>6<br>5<br>5<br>6<br>9<br>7<br>0<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 | 30014<br>3000<br>3000<br>3000<br>3000<br>3000<br>3000<br>3000 | 9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 |                                                                    | 8844 1<br>88844 1                                                                                  | ধ থ                                 |
| PUTNAM<br>PUTNAM<br>PUTNAM<br>PUTNAM                                                         | 0000                                    | 1973<br>1974<br>1975<br>1976                 | 4000+<br>4+000+<br>4+000                                                                    | 42.8<br>39.3<br>34.2                                                                                                        | 5 4 8 3<br>5 4 8 8                                            | 00<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100<br>100                           | 28.029<br>12.870<br>21.028<br>19.858                               | 9 4 9 U                                                                                            | 2                                   |
| STAMFORD<br>STAMFORD                                                                         | 80<br>80                                | 1973<br>1974                                 | 10<br>10                                                                                    | 83.1<br>60.1                                                                                                                | 65<br>8<br>8                                                  | 101<br>73                                                                                   | 67.849<br>17.835                                                   | 100                                                                                                | 10                                  |
| STAMFORD<br>STAMFORD<br>STAMFORD<br>STAMFORD<br>STAMFORD<br>STAMFORD<br>STAMFORD<br>STAMFORD | 000000000000000000000000000000000000000 | 1975<br>1975<br>1975<br>1977<br>1977<br>1978 | <b>0 0 0 0 0 0 0 0</b> 0 0 0 0 0 0 0 0 0 0 0                                                | 0.000000000000000000000000000000000000                                                                                      | . 644000000<br>000600400                                      | <b>0 4 8 9 1</b> 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1                                          | 33.094<br>28.173<br>24.870<br>29.735<br>31.198<br>28.421<br>24.627 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                              | 0 mmman                             |

| CONNECTICUT  | DEPARTW     | IENT OF                                                                                          | ENVIRONMEN               | TAL PROTECT | NOI              | PAGE             | 8            | R COUPLIANCE                        | MONITORING                          |
|--------------|-------------|--------------------------------------------------------------------------------------------------|--------------------------|-------------|------------------|------------------|--------------|-------------------------------------|-------------------------------------|
| POLLUTANTN   | ITROGEN     |                                                                                                  | Ĕ                        |             |                  |                  |              | DISTRIBUTION-                       | LOGNORWAL                           |
| TOWN NAME    | SITE        | YEAR                                                                                             | SAMPLES                  | ARI . WEAN  | 95-PCT-<br>LOWER | -LIMITS<br>UPPER | STD DEVIATIO | PREDICTED<br>DAYS DVER<br>100 UG/蹴3 | PREDICTED<br>DAYS DVER<br>282 UG/M3 |
| STAMFORD     | 123         | 1974                                                                                             | <b>4</b><br>, 40<br>, 40 | 63.6        | 5                | 62               | 30 799       | L<br>M                              |                                     |
| STAMFORD     | 123         | 1975                                                                                             | 57                       | 71.6        | 29               | 10               | 31.400       | 67                                  |                                     |
| STAMFORD     | 123         | 1976                                                                                             | 56                       | 62.6        | 57               | 99               | 23.375       | . 64                                |                                     |
| STAMFORD     | 123         | 1977                                                                                             | 61                       | 71.4        | 64               | 19               | 32.223       | 77                                  | ¢=                                  |
| STAMFORD     | 123         | 1978                                                                                             | 61                       | 65.4        | 50               | 72               | 28.536       | 50                                  |                                     |
| STAMFORD     | 123         | 1979                                                                                             | . 61                     | 64.2        | 50               | 70               | 24.282       | 29                                  |                                     |
| STAMFORD     | 123         | 1980                                                                                             | 61                       | 60.6        | 54               | 67               | 26.466       | 5                                   |                                     |
| STRATFORD    | 05          | 1973                                                                                             | 52*                      | 76.4        | 99               | 87               | 41.360       | 77                                  |                                     |
| STRATFORD    | 05          | 1974                                                                                             | 60                       | . 67.0      | 61               | 73               | 26.728       | 35                                  |                                     |
| STRATFORD    | 00          | 1975                                                                                             | 60                       | 72.0        | 65               | 78               | 27.511       | 80                                  |                                     |
| STRATFORD    | 0<br>0<br>0 | 1976                                                                                             | 58                       | 69.1        | 62               | 76               | 27.554       | 0<br>0<br>0<br>0<br>0               |                                     |
| STRATFORD    | 05          | 1977                                                                                             | 56                       | 53.E        | 47               | 60               | 27.490       | 4                                   | <b>f</b> aa                         |
| STRATFORD    | 05          | 1978                                                                                             | 61                       | 58.7        | 51               | 66               | 33.257       | 50                                  | ¥-3                                 |
| SIRATFORD    | 90          | 1979                                                                                             | 5.G                      | 71.8        | <b>65</b>        | 78               | 26.617       | 50                                  |                                     |
| STRATFORD    | 02          | 1980                                                                                             | 58                       | 71.8        | 66               | 78               | 25.359       | 67                                  |                                     |
| TORRINGTON   | 0           | 1973                                                                                             | 50 *                     | 51.g        | 42               | 62               | 37.723       | 4<br>Ci                             | ₽¤                                  |
| TORRINGTON   | 6           | 1974                                                                                             | . 61.                    | 37.0        | 99<br>9          | 41               | 18.664       | 5                                   |                                     |
| TORFINGTON   | 0           | 1975                                                                                             | 29*                      | 49.0        | 41               | 57               | 21.674       | 5                                   |                                     |
| TORRINGTON   | 123         | 1975                                                                                             | , 80<br>80               | 46.5        | 40               | ដ្ឋ              | 18.413       | α                                   |                                     |
| TORRINGTON   | 123         | 1976                                                                                             | 57                       | 47.7        | 5                | 52               | 18.254       | i vn                                |                                     |
| TORRINGTON   | 123         | 1977                                                                                             | 60                       | 54.5        | 50               | ດ<br>ເ           | 18.473       | 3                                   |                                     |
| TORRINGTON   | 53.5        | 1978                                                                                             | 58                       | 48.4        | 44               | сл<br>С          | 18.304       | 0                                   |                                     |
| TORRINGTON   | 123         | 1979                                                                                             | 61                       | 50.2        | 46               | 55               | 18,621       | 6-                                  |                                     |
| TORRINGTON   | 123         | 1980                                                                                             | 61                       | 49.4        | 46               | 53               | 16.134       | 4                                   |                                     |
| TORRINGTON 1 | / 123       | 1975                                                                                             | 57                       | 47.8        | 43               | 53               | 20.180       | 10                                  |                                     |
| VOLUNTOWN    | 0           | 1973                                                                                             | 7                        | ы<br>10     | đ                | Ċ                |              | Ŀ                                   |                                     |
| VOLUNTOWN    | ċ           |                                                                                                  | r (                      | 1 C         | n .<br>- •       | - 6              |              | ĥ                                   |                                     |
|              | õ           | វ L<br>ភ្ល<br>ភ្ល<br>ព្រ                                                                         | 0 u<br>0                 | 2-1-        | ក្ត              | 20               | 11.103       |                                     |                                     |
|              | 24          | 0<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | 42.                      | 20.7        | 0<br>•           | 20               | 16.769       | ĝaņ.                                |                                     |
| AULUN LUNG   | 10          | 0/6/                                                                                             | 20 A                     | 22.8        | 77               | 89<br>(V         | 8.899        |                                     |                                     |

| CONNECTICUT                                                                | DEPART                                  | ENT OF                               | ENVIRONMENT/                                                                     | AL PROTECT                                                      | NOI                                                                                              | PAGE                       | đì                                         | AIR    | COMP LIANCE                         | WONITORING                          |
|----------------------------------------------------------------------------|-----------------------------------------|--------------------------------------|----------------------------------------------------------------------------------|-----------------------------------------------------------------|--------------------------------------------------------------------------------------------------|----------------------------|--------------------------------------------|--------|-------------------------------------|-------------------------------------|
| POLLUTANTP                                                                 | VITROGEN                                | DIXOID                               | E E                                                                              |                                                                 | •                                                                                                | -                          | •                                          | â      | STRIBUTION-                         | -LOGNORMAL                          |
| TOWN NAME                                                                  | SITE                                    | YEAR                                 | SAMPLES                                                                          | ARI. MEAN                                                       | 95-PCT-<br>LOWER                                                                                 | -LIMITS<br>UPPER           | STD DEVIA1                                 | LICM   | PREDICTED<br>DAYS DVER<br>100 UG/第3 | PREDICTED<br>DAYS UVER<br>282 UG/W3 |
| WATERBURY<br>WATERBURY<br>WATERBURY                                        | 600                                     | 1973<br>1974<br>1975                 | ()<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10<br>10 | 64.0<br>63.7<br>46.8                                            | 55<br>36<br>36                                                                                   | 27<br>73                   | 23.192<br>25.709<br>21.569                 | N M N  | 58<br>67<br>20                      | N                                   |
| WATERBURY<br>WATERBURY<br>WATERBURY                                        | 000                                     | 1974<br>1975<br>1976                 | ⇔ ຍ ບ.<br>ສິນ<br>ເຊິ່                                                            | 30.4<br>47.1<br>57.7                                            | 4 7 4<br>7 4 7                                                                                   | 32                         | 14.78<br>21.13<br>23.54                    | იის    | 5 0 Q<br>5 7 0                      | gru,                                |
| WATERBURY<br>WATERBURY                                                     | 50<br>0<br>0                            | 1975<br>1976                         | 0<br>₩<br>₩                                                                      | 56.3<br>61.4                                                    | 49<br>37                                                                                         | 8<br>8<br>8<br>9           | 29.33<br>41.35                             | F 10   | 5 4<br>2 43                         | ŝ                                   |
| WATERBURY<br>WATERBURY<br>WATERBURY<br>WATERBURY<br>WATERBURY<br>WATERBURY | 1 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 | 1975<br>1976<br>1977<br>1978<br>1978 | 4 0 0 0 0 0 0<br>* 0 - 0 0 0 +                                                   | 68.1<br>65.6<br>69.6<br>73.0<br>73.0                            | 6<br>6<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8<br>7<br>8 | 77<br>77<br>79<br>80<br>80 | 17.78<br>21.358<br>23.68<br>24.76<br>24.76 | 400000 | 0 0 7 7 7 0<br>0 0 0 7 0 0          |                                     |
| WILLIMANTIC<br>WILLIMANTIC<br>WILLIMANTIC<br>WILLIMANTIC                   | 0000                                    | 1973<br>1973<br>1975<br>1975         | ຸດ<br>ດີດ<br>ດີດ<br>ດີ<br>ດີ<br>ດີ                                               | 0 4 4 4<br>4 4 2 4<br>7 0 6 6<br>9 0 6<br>9 0 6<br>9 0 6<br>9 0 | 40<br>40<br>30<br>00                                                                             | 6440<br>847<br>8           | 26.97<br>19.57<br>15.86                    | 8008   | 9 M A 89<br>7 F                     |                                     |
|                                                                            |                                         |                                      |                                                                                  |                                                                 |                                                                                                  |                            |                                            |        |                                     |                                     |

SAMPLING NOT RANDOM OR OF INSUFFICIENT SIZE FOR REPRESENTATIVE ANNUAL STATISTICS.

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Table 23, Continued

| CONNECTICUT DEPARTMENT OF ENVIR   | OMENTAL P            | ROTECTIO                                                                                         | ž                                       |                   | PAGE            | ব                |                                                                                                  |                | AIR COMP                             | LIANCE EN        | GINEER ING                                           |   |
|-----------------------------------|----------------------|--------------------------------------------------------------------------------------------------|-----------------------------------------|-------------------|-----------------|------------------|--------------------------------------------------------------------------------------------------|----------------|--------------------------------------|------------------|------------------------------------------------------|---|
| POLLUTANTNITROGEN DIDXIDE         | 198                  | 30 TEN HI                                                                                        | GHEST 24                                | HR AVG NO         | 2 DAYS WI       | O ONIM HI        | ATA.                                                                                             | UNITS :        | WICROGRAM                            | IS PER CUB       | I C WET ER                                           |   |
| TOWN NAME SITE                    | SAMPLES              | ę                                                                                                | 2                                       | ო                 | ঘ               | ß                | e<br>G                                                                                           | 7              | Ø                                    | Ĝ                | 10                                                   |   |
| BRIDGEPORT                        | ດ<br>ທ               | 160                                                                                              | 141                                     | 131               | 129             | 126              | 114                                                                                              | 107            | 107                                  | . U              | 605                                                  |   |
|                                   | DATE                 | 6/ 2/80                                                                                          | 6/14/80                                 | 12/23/80          | 2/21/80         | 3/28/80          | 9/12/80                                                                                          | 3/ 4/80        | 9/18/80                              | 3/10/80          | 4/3/80                                               |   |
| METEUNULUGICAL SITE D<br>NFWARK V | IR (DEG)<br>Fi (Meh) | 240                                                                                              | 150                                     | 000               | 300             | 170              | 180                                                                                              | 230            | 310                                  | 130              | 220                                                  |   |
| · ()                              | PD (MPH)             | 10.0                                                                                             | 0 U<br>1 U                              | - 9<br>- 9        | ה רי<br>ס ס     |                  | . r                                                                                              |                |                                      | ອ.ເ<br>ດີເ       | ດ<br>(1 ເ                                            |   |
| 2                                 | ATIC                 | 0.969                                                                                            | 0.363                                   | 0.261             | 0.693           | 0.880            | 0.637                                                                                            | 0.940          | 2 0 0<br>2 0 0                       |                  | 7.<br>7.<br>2.<br>2.<br>2.                           |   |
| METEOROLOGICAL SITE D             | IR (DEG)             | 210                                                                                              | 60                                      | 160               | 000             | 190              | 300                                                                                              | 240            | 340                                  | 001              |                                                      |   |
| BRADLEY V                         | EL (MPH)             | 0<br>0                                                                                           |                                         | 0.6               | 6.8             | 7.2              | 2.5                                                                                              | 4.4            | 6.0                                  | 5.6              | 2.5                                                  |   |
| <i>n</i> c                        | PD (MPH)             | 2 · 2                                                                                            | 0.0<br>                                 | 0.6<br>0.6        | 7.5             | 7.5              | ም<br>ዓ                                                                                           | 5.5            | 6.5                                  | 6.8              | 5.S                                                  |   |
| METEOROLOGICAL SITE D             | ALLC OF CL           |                                                                                                  | 0.00                                    | 0.996             | 0.905           | 0.961            | 0.576                                                                                            | 0.810          | 0.932                                | 0.823            | 0.465                                                |   |
| BRIDGEPORT V                      | EL (MPH)             | 2.0                                                                                              | 2 C<br>2 ~                              | 202               | יי<br>ע         | 2022             | 220                                                                                              | 240            | 0 7 0<br>9 7 0                       | 120              | 230                                                  |   |
|                                   | PD (MPH)             | 7.6                                                                                              | - C                                     | ດ<br>ເມື          |                 |                  | 0<br>1<br>1                                                                                      | יי<br>יי<br>יי | יא                                   | ້                | ب<br>بار<br>س                                        |   |
| ~~~                               | ATIC                 | 0.915                                                                                            | 0.352                                   | 0.526             | 0.723           | 0.946            |                                                                                                  |                |                                      | ນ<br>ມີ<br>ເ     |                                                      |   |
| METEOROLOGICAL SITE D             | IR (DEG)             | 270                                                                                              | 30                                      | 200               | 310             | 250              | 062                                                                                              | 260            |                                      | 010              |                                                      |   |
| WORCESTER V                       | EL (MPH)             | 1.1                                                                                              | 1.5                                     | 2.2               | 8.2             | 6.2              | 2.7                                                                                              | 8.2            | 5.7                                  |                  | 5 U<br>5 F                                           |   |
| S                                 | (HdW) Od             | 4.2                                                                                              | 5.3                                     | 3.2               | 10.1            | ດ. ດ             | - Lî                                                                                             |                | 7.6                                  | 5.2              |                                                      |   |
| Ľ                                 | ATIC                 | 0.268                                                                                            | 0.280                                   | 0.697             | 0.818           | 0.902            | 0.606                                                                                            | 0.978          | 0.882                                | 0.873            | 0.840                                                |   |
|                                   |                      |                                                                                                  |                                         |                   |                 |                  |                                                                                                  |                |                                      |                  |                                                      |   |
| BRIDGEPORT 123                    | 61                   | 207                                                                                              | 196                                     | 50                | 443             | 100              | 4 4 7                                                                                            | 1 1 4          | 4<br>7<br>7                          | (<br>•           | r<br>•                                               |   |
|                                   | DATE                 | 5/ 9/80                                                                                          | 1/ 4/80                                 | 6/14/80           | 9/ 6/80         | 3/ 4/80          | 6/ 3/80                                                                                          | 0/1/au         | 2 / DC / DC                          |                  | 5 - 1 - 5<br>0 - 0 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - |   |
| METEOROLOGICAL SITE D             | IR (DEG)             | 310                                                                                              | 10                                      | 150               | 160             | 230              | 240                                                                                              | 00E            | 170                                  | 3/12/00<br>180   | 300                                                  |   |
| NEWARK V                          | EL (MPH)             | 12.2                                                                                             | 10.1                                    | 2.8               | <b>9.0</b>      | 11.9             | 10.2                                                                                             | 6.5            | 7.1                                  | 5.0              | 8.2<br>2                                             |   |
|                                   | PD (MPH)             | 12.4                                                                                             | 11.8                                    | 7.6               | 8               | 12.7             | 10.5                                                                                             | в.<br>9        | 8.1                                  | 7.9              | 12.7                                                 |   |
| METFOROLOGINE CITE D              |                      |                                                                                                  | 0.856                                   | 0.363             | 0.343           | 0.940            | 0.969                                                                                            | 0.693          | 0.880                                | 0.637            | 0.671                                                |   |
|                                   |                      | ້                                                                                                | 000                                     | 60<br>60          | 062             | 240              | 210                                                                                              | 330            | 190                                  | 300              | 300                                                  |   |
|                                   |                      | א ע<br>ס פ                                                                                       | - (<br>- (                              | יי ני<br>אי ני    | с.<br>С. ч      | ণ।<br>প।         | 9.0                                                                                              | 9.9<br>9       | 7.2                                  | 2.5              | 6.6                                                  |   |
|                                   |                      |                                                                                                  |                                         | 0 e e e           |                 | ກ.<br>ເ<br>ເ     | 5<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 7.5            | 7.5                                  | ମ<br>ମ           | 9.S                                                  |   |
| METEOROLOGICAI SITE D             |                      |                                                                                                  | 0 C C C C C C C C C C C C C C C C C C C | 500<br>000<br>000 | 0.744           | 0.810            | 0.451                                                                                            | 0.905          | 0.961                                | 0.576            | 0.691                                                |   |
| BRIDGEPORT V                      | EL (MPH)             |                                                                                                  | ,<br>v<br>r                             | - 4<br>-          | 2 C<br>9 U      | 2 K              | 230                                                                                              | 320<br>9       | 210                                  | 220              | 250                                                  |   |
|                                   | (HdM) Od             | 12.4                                                                                             | <br>                                    | 0                 | , a             |                  | <b>)</b>                                                                                         | ~ C            | 8 .                                  | ۵ (<br>۱ (       | ۰.<br>۲                                              |   |
| 2                                 | ATIC                 | 0.663                                                                                            | 0.706                                   | 0.352             | 0.707           | 0.888            |                                                                                                  |                | v v<br>• • •                         | ה<br>ה<br>ה<br>נ | 5 C                                                  |   |
| METEORDLOGICAL SITE D             | IR (DEG)             | 290                                                                                              | 350                                     | 00                | 270             | 260              | 040                                                                                              |                |                                      |                  |                                                      |   |
| WORCESTER V                       | EL (WPH)             | 12.9                                                                                             | С. E                                    | 1.5               | 7.2             | 8.3              |                                                                                                  |                |                                      | )   C            | , c                                                  |   |
| S                                 | (HdW) Od             | 13.1                                                                                             | 5.0<br>2                                | 5.3               | 8. J            | в.<br>Э          | 4                                                                                                | 10.1           |                                      | - 4<br>- 10      | • 6°<br>• •                                          |   |
|                                   | ATIC                 | 0.984                                                                                            | 0.734                                   | 0.280             | 0.894           | 0,978            | 0.268                                                                                            | 0.818          | 0.902                                | 0.606            | 0.846                                                |   |
|                                   | 1                    | 1                                                                                                | •                                       |                   |                 |                  |                                                                                                  |                |                                      |                  | )                                                    |   |
| BRASIUL                           | ר אינ<br>אינו<br>וו  | 97                                                                                               | 95                                      | 8                 | 78              | 77               | 77                                                                                               | 72             | 72                                   | 68               | 65                                                   | · |
| WETEODOLOCIEN CITE . D            |                      | 2/21/80                                                                                          | 12/23/80                                | 11/23/80          | 3/28/80         | 12/29/80         | 6/14/80                                                                                          | 10/24/80       | 4/27/80                              | 7/ 2/80          | 1/22/80                                              |   |
|                                   |                      | ים<br>ס<br>ע                                                                                     | 0.55                                    | 230               | 0/1             | 30               | 150                                                                                              | 50             | 80                                   | 220              | 210                                                  |   |
|                                   |                      |                                                                                                  | 2) c<br>- (                             | ית<br>סי          | 1 - 2           | 0.<br>10.<br>10. | 2°8                                                                                              | 10.2           | 0.0<br>0                             | 2.7              | 6.8                                                  |   |
|                                   |                      | 3<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | ;                                       | ي.<br>۲.۲.۲       | B<br>- C<br>- C | 5.01             | 7.6                                                                                              | 1.5            | 10.6                                 | 10.4             | 8.2                                                  |   |
| METEOROLOGICAI SITE D             | LIB (DEG)            |                                                                                                  |                                         |                   |                 | 0.440            | 0.363                                                                                            | 0.884          | 0.837                                | 0.258            | 0.828                                                |   |
| BRADLEY                           | EL (MPH)             | 9<br>9<br>9<br>9                                                                                 | 9.9                                     |                   | 0,              | 0,4              | 9 °                                                                                              | 60             | o<br>S<br>S                          | 200              | 210                                                  |   |
| ~ <b>W</b>                        | (HdW) Od             | 7.5                                                                                              | 0.0                                     | ) (?)<br>• • •    | - C             | - C<br>D L       | ט פי<br>י<br>רי                                                                                  |                | אינ<br>היי                           | 5. C             | 9                                                    |   |
| E                                 | ATIC                 | 0.905                                                                                            | 0.996                                   | 0.769             | 0.961           | 399.0            | 5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5                  | 1 U U U        | 0<br>0<br>7<br>7<br>7<br>7<br>7<br>7 | ת<br>יינ<br>יינ  | <u>ה</u><br>ה<br>ל                                   |   |
|                                   |                      |                                                                                                  |                                         |                   |                 | 3                | 772.2                                                                                            | n.v.v          | N 1 1 N                              | 077.0            | - 70- 0                                              |   |

Table 24

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AIR COMPLIANCE ENGINEERING

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PAGE

CONNECTICUT DEPARTMENT OF ENVIROMENTAL PROTECTION

AVC 1990 TEN HIGHE

POLLUT

| TOWN MARE         SITE SAMPLES         1         2         3         4         5         6         7         9         10           WETEOPOLOGICAL SITE         DRA MOLE         STE SAMPLES         1         2         2         4         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5         5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | UTANT    |                                                                                     |                                                                                                  |                                                                                             | 67EV 44                                    | HK AVG NU                                                                           | Z UAYS WL                                                                                                  | O ONTE MI                                                                          | AIA.                                                                                         | UNITS : 1                                     | WICROGRAM                                           | S PER CUB                                                                                        | IC METER                                                           |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------|-------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------|-------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------|-----------------------------------------------|-----------------------------------------------------|--------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|
| METEOROLOGICAL SITE         DIR (DE)         370         340         210         100         100         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170         170 <th></th> <th>TOWN NAME SI</th> <th>TE SAMPLES</th> <th>Ç</th> <th>R</th> <th>m</th> <th>থ</th> <th>មា</th> <th>G</th> <th>2</th> <th>60</th> <th>. <b>ה</b></th> <th>0</th>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |          | TOWN NAME SI                                                                        | TE SAMPLES                                                                                       | Ç                                                                                           | R                                          | m                                                                                   | থ                                                                                                          | មា                                                                                 | G                                                                                            | 2                                             | 60                                                  | . <b>ה</b>                                                                                       | 0                                                                  |
| DAMBURY         123         57         122         99         140         150         170         170         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         177         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173         173 </td <td>· _</td> <td>METEOROLOGICAL SITE<br/>BRIDGEPORT<br/>BRIDGEPORT<br/>METEOROLOGICAL SITE<br/>WORCESTER</td> <td>DIR (DEG)<br/>VEL (MPH)<br/>SPD (MPH)<br/>Ratic<br/>Dir (deg)<br/>VEL (MPH)<br/>VEL (MPH)<br/>SPD (MPH)</td> <td>320<br/>6.7<br/>9.723<br/>310<br/>8.2<br/>0.818</td> <td>340<br/>5.5<br/>0.526<br/>2.2<br/>2.2<br/>0.697</td> <td>210<br/>6.6<br/>6.6<br/>767<br/>270<br/>7.5<br/>0.7.5<br/>0.910</td> <td>210<br/>7.8<br/>8.7<br/>946<br/>250<br/>6.2<br/>0.902</td> <td>12.6<br/>12.6<br/>12.6<br/>300<br/>300<br/>1.4<br/>0.243</td> <td>200<br/>1.7<br/>352<br/>30<br/>5.3<br/>0.280</td> <td>80<br/>11.4<br/>13.8<br/>0.826<br/>3.4<br/>0.676</td> <td>70<br/>12.8<br/>14.2<br/>0.896<br/>0.896<br/>50<br/>0.939</td> <td>170<br/>6.6<br/>8.8<br/>755<br/>220<br/>8.0<br/>8.0<br/>929</td> <td>240<br/>2512<br/>2512<br/>2512<br/>2512<br/>2512<br/>2512<br/>2512<br/>251</td> | · _      | METEOROLOGICAL SITE<br>BRIDGEPORT<br>BRIDGEPORT<br>METEOROLOGICAL SITE<br>WORCESTER | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>Ratic<br>Dir (deg)<br>VEL (MPH)<br>VEL (MPH)<br>SPD (MPH) | 320<br>6.7<br>9.723<br>310<br>8.2<br>0.818                                                  | 340<br>5.5<br>0.526<br>2.2<br>2.2<br>0.697 | 210<br>6.6<br>6.6<br>767<br>270<br>7.5<br>0.7.5<br>0.910                            | 210<br>7.8<br>8.7<br>946<br>250<br>6.2<br>0.902                                                            | 12.6<br>12.6<br>12.6<br>300<br>300<br>1.4<br>0.243                                 | 200<br>1.7<br>352<br>30<br>5.3<br>0.280                                                      | 80<br>11.4<br>13.8<br>0.826<br>3.4<br>0.676   | 70<br>12.8<br>14.2<br>0.896<br>0.896<br>50<br>0.939 | 170<br>6.6<br>8.8<br>755<br>220<br>8.0<br>8.0<br>929                                             | 240<br>2512<br>2512<br>2512<br>2512<br>2512<br>2512<br>2512<br>251 |
| WETEOROLOGICAL SITE         Dirac         Dirac <thdira< th="">         Dirac         Dirac</thdira<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | DANBU    | RY 1<br>Meteorological site<br>Newark                                               | 23 57<br>DATE<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                             | 122<br>2/21/80<br>300<br>6.5<br>9.3                                                         | 98<br>11/23/80<br>230<br>6.9<br>7.3        | 97<br>9/12/80<br>160<br>5.0<br>7.9                                                  | 84<br>3/ 4/80<br>230<br>11.9<br>12.7<br>12.7                                                               | 83<br>6/14/80<br>150<br>2.8<br>7.6                                                 | 82<br>4/27/80<br>80<br>8.9<br>10.6                                                           | 79<br>10/ 6/80<br>360<br>7.8<br>8.8<br>8.8    | 78<br>3/28/90<br>170<br>7.1<br>8.1                  | 77<br>1/22/80<br>210<br>6.8<br>8.2<br>8.2                                                        | 7/ 2/80<br>220<br>220<br>220<br>220<br>220                         |
| METECHNOLOGICAL SITE DIR (DEG)         C/2         Z/10         Z/40         T/10         S/20         Z/10         Z/40         T/10         Z/40         T/11         Z/40         Z/40 <thz 40<="" th="">         Z/40         <thz 40<="" th=""> <t< td=""><td></td><td>METEOROLOGICAL SITE<br/>BRADLEY<br/>METEODOLOGICAL SITE</td><td>VEL (MPH)<br/>SPD (MPH)<br/>RATIC</td><td>•<br/>•<br/>•<br/>•<br/>•<br/>•<br/>•<br/>•<br/>•<br/>•<br/>•<br/>•<br/>•<br/>•<br/>•<br/>•<br/>•<br/>•<br/>•</td><td>0.1.0</td><td>0.510<br/>2.50<br/>0.51<br/>0.51<br/>0.50<br/>0.50<br/>0.50<br/>0.50<br/>0.50<br/>0</td><td>0<br/>55 4 2<br/>6<br/>6<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7<br/>7</td><td>0.83<br/>0.93<br/>0.93<br/>0.93<br/>0.93<br/>0.93<br/>0.93<br/>0.93<br/>0.9</td><td>0 4 . 5<br/>7 29 5<br/>7 29 5</td><td>5.2<br/>5.3<br/>0.972</td><td>0.961<br/>0.961</td><td>0,55.9<br/>0,4813<br/>0,4813</td><td>200<br/>200<br/>7.5<br/>0.946</td></t<></thz></thz>                                                              |          | METEOROLOGICAL SITE<br>BRADLEY<br>METEODOLOGICAL SITE                               | VEL (MPH)<br>SPD (MPH)<br>RATIC                                                                  | •<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>•<br>• | 0.1.0                                      | 0.510<br>2.50<br>0.51<br>0.51<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0          | 0<br>55 4 2<br>6<br>6<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 0.83<br>0.93<br>0.93<br>0.93<br>0.93<br>0.93<br>0.93<br>0.93<br>0.9                | 0 4 . 5<br>7 29 5<br>7 29 5                                                                  | 5.2<br>5.3<br>0.972                           | 0.961<br>0.961                                      | 0,55.9<br>0,4813<br>0,4813                                                                       | 200<br>200<br>7.5<br>0.946                                         |
| ENFIELD       123       61       113       104       103       99       87       74       74       74       74       74       73       71         METEOROLOGICAL SITE       DIR       DEG       230       230       230       12/17/80       12/29/80       11/17/80       3/20       170         METEOROLOGICAL SITE       DIR       DEG       230       230       300       12/1       7.8       74       74       74       77         METEOROLOGICAL SITE       DIR       MPH       11.9       5.3       50       13.9       12.1       7.8       4.6       7.1         METEOROLOGICAL SITE       DIR       DEG       0.947       0.693       0.261       0.996       0.948       0.689       0.557       0.599       0.880         METEOROLOGICAL SITE       DIR       DEG       0.947       0.693       0.261       0.906       0.948       0.680       0.712       0.72       0.509       0.880       0.72       0.509       0.880       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.72       0.73       0.72       0.72 </td <td></td> <td>METEOROLOGICAL SITE<br/>METEOROLOGICAL SITE<br/>WORCESTER</td> <td>ULK (DEG)<br/>VEL (MPH)<br/>SPD (MPH)<br/>RATIC<br/>DIR (DEG)<br/>VEL (MPH)<br/>SPD (MPH)<br/>RATIC</td> <td>0.723<br/>9.22<br/>9.23<br/>8.10<br/>8.2<br/>10.1<br/>0.818</td> <td>210<br/>6.0<br/>270<br/>2.70<br/>6.9<br/>0.910</td> <td>2.50<br/>6.9<br/>2.66<br/>2.29<br/>2.20<br/>2.20<br/>2.50<br/>0.60<br/>6.55<br/>0.60<br/>6.55</td> <td>240<br/>11.6<br/>11.6<br/>260<br/>8.2<br/>8.3<br/>8.3<br/>0.978</td> <td>200<br/>4.5<br/>352<br/>30<br/>5.3<br/>6.2<br/>80<br/>0.2<br/>80<br/>0.2<br/>80<br/>0.2<br/>80</td> <td>0 12.8<br/>0 896<br/>60 896<br/>60 996<br/>60 995<br/>90 33<br/>90 33</td> <td>360<br/>9.1<br/>3.0<br/>3.0<br/>4.5<br/>0.865</td> <td>210<br/>7.8<br/>8.2<br/>6.2<br/>6.2<br/>0.902</td> <td>240<br/>11.2<br/>0.648<br/>230<br/>5.3<br/>0.695</td> <td>0.420<br/>0.755<br/>220<br/>8.8<br/>220<br/>8.6<br/>0.929</td>                                 |          | METEOROLOGICAL SITE<br>METEOROLOGICAL SITE<br>WORCESTER                             | ULK (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC     | 0.723<br>9.22<br>9.23<br>8.10<br>8.2<br>10.1<br>0.818                                       | 210<br>6.0<br>270<br>2.70<br>6.9<br>0.910  | 2.50<br>6.9<br>2.66<br>2.29<br>2.20<br>2.20<br>2.50<br>0.60<br>6.55<br>0.60<br>6.55 | 240<br>11.6<br>11.6<br>260<br>8.2<br>8.3<br>8.3<br>0.978                                                   | 200<br>4.5<br>352<br>30<br>5.3<br>6.2<br>80<br>0.2<br>80<br>0.2<br>80<br>0.2<br>80 | 0 12.8<br>0 896<br>60 896<br>60 996<br>60 995<br>90 33<br>90 33                              | 360<br>9.1<br>3.0<br>3.0<br>4.5<br>0.865      | 210<br>7.8<br>8.2<br>6.2<br>6.2<br>0.902            | 240<br>11.2<br>0.648<br>230<br>5.3<br>0.695                                                      | 0.420<br>0.755<br>220<br>8.8<br>220<br>8.6<br>0.929                |
| METEOROLOGICAL SITE       DIR       (DEG)       240       210       330       160       20       340       10       320       190         BRADLEY       VEL       MPH       5.5       1.3       7.5       0.6       5.1       8.1       5.3       5.3       4.0       7.5         RADLEY       VEL       MPH       5.5       1.3       7.5       0.6       5.1       8.1       5.3       5.3       4.0       7.5         RATIC       0.810       0.769       0.965       0.996       0.985       0.844       0.972       0.830       340       7.5         METEOROLOGICAL SITE       DIR       DEG       240       210       320       340       10       320       340       7.6         METEOROLOGICAL SITE       DIR       DEG       240       0.66       5.2       9.6       5.3       5.3       4.0       7.5         METEOROLOGICAL SITE       DIR       DEG       240       10       320       340       10       320       340       7.8       0.961       7.8         METEOROLOGICAL SITE       DIR       PEG       5.1       2.1       2.9       12.6       13.1       2.1       3.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | EN F I E | LD                                                                                  | 23 61<br>DIR (DATE<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                        | 3/ 4/80<br>230<br>11.9<br>12.7<br>12.7                                                      | 11/23/80<br>230<br>6.9<br>7.3              | 103<br>2/21/80<br>. 300<br>6.5<br>9.3                                               | 99<br>330<br>1.8<br>6.9<br>6.9                                                                             | 87<br>87<br>30<br>13.9<br>13.9<br>0 906                                            | 74<br>12/17/80<br>340<br>12.1<br>12.8                                                        | 74<br>10/ 5/80<br>360<br>7.8<br>8.8           | 74<br>3/9/80<br>300<br>4.3<br>7.8                   | 73<br>11/17/80<br>10<br>4.6<br>9.1<br>9.1                                                        | 3/28/80<br>170<br>7.1<br>8.1                                       |
| METEOROLOGICAL SITE UR (NCH)       2.0       2.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0       3.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |          | METEOROLOGICAL SITE<br>BRADLEN<br>WETEOPOLOGICAN SITE                               | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC                                                     | 0.8.0                                                                                       | 0.10                                       | 0.900<br>900<br>900<br>900<br>900<br>900                                            | 0.00.6                                                                                                     | 0.985<br>9.985<br>985                                                              | 0.000.000000000000000000000000000000000                                                      | 0,972<br>0,972                                | 0.54.0                                              | 0<br>6<br>6<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 190<br>7.2<br>7.5<br>0.961                                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |          | METEURULUGICAL SITE<br>BRIDGEPORI<br>METEOROLOGICAL SITE<br>WORCESTEF               | ULH (DEG)<br>VEL (MPH)<br>RATIC (MPH)<br>RATIC (MPH)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.757<br>6.757<br>6.757<br>6.9<br>0.910    | 0.423<br>0.423<br>0.423<br>0.810<br>0.818<br>0.818                                  | 0.526<br>0.526<br>200<br>0.63.2<br>0.697                                                                   | 12.6<br>12.6<br>300<br>300<br>1.4<br>43<br>0.243                                   | 0<br>10<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 360<br>6.7<br>9.1<br>30<br>30<br>4.5<br>0,865 | 280<br>5.1<br>7.8<br>310<br>310<br>8.1<br>0.931     | 0.40<br>3.6<br>3.6<br>300<br>300<br>3.4<br>0.123                                                 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |

Table 24, Continued

| MENT OF ENVI           | I ROMENTAL I<br>196 | PROTECTIO                  | N<br>GHEST 24       | Hr avg no      | PAGE<br>)2 DAYS WI | 6<br>1th Wind D                                                                                  |                         | : STINU                                                                                     | AIR COMP<br>MICROGRAN | LLANCE EN<br>15 per cub         | GINEERING<br>Ic weter                                                            |             |
|------------------------|---------------------|----------------------------|---------------------|----------------|--------------------|--------------------------------------------------------------------------------------------------|-------------------------|---------------------------------------------------------------------------------------------|-----------------------|---------------------------------|----------------------------------------------------------------------------------|-------------|
| E SAMPLI               | ŝ                   | <b>F</b>                   | R                   | m              | <b>द्य</b>         | ស                                                                                                | Q                       | 4                                                                                           | 62                    | 2<br>2<br>2<br>3<br>-<br>2<br>2 | 10.                                                                              |             |
| 4                      |                     | 123                        | 101                 | 1005           | £9                 | 06                                                                                               | 87                      | 82                                                                                          | 80                    | 82                              | <i>LL</i> .                                                                      |             |
| DIR (DEG)              | ****                | 1 <b>2/</b> 23/80<br>330   | 3/ 4/80<br>230      | 3/28/80<br>170 | 8/19/80<br>190     | 11/23/80<br>230                                                                                  | 1/22/80<br>210          | 6/ 2/80<br>240                                                                              | 7/ 2/80               | 2/21/80                         | 10/30/80<br>330                                                                  |             |
| VEL (MPH)<br>SPD (MPH) |                     | 6.0<br>0.0                 | 11.9                | 7.1<br>8.1     | ក<br>ភូមិ          | 0.7<br>7.0                                                                                       | ເ<br>ເ<br>ເ             | 10.2 .                                                                                      | 2.7                   | ນ ເ<br>ຍ                        | 5.0                                                                              |             |
| RATIC                  |                     | 0.261                      | 0.940               | 0.880          | 0.835              | 0.947                                                                                            | 0.828                   | 0.969                                                                                       | 0.258                 |                                 | a. k<br>5.0.6<br>0.                                                              |             |
| DIR (DEG)              |                     | 160                        | 240                 | 190            | 220                | 210                                                                                              | 210                     | 210                                                                                         | 200                   | 330                             | 300                                                                              |             |
| SPD (MPH)              |                     | 0.0                        | 4 ເບ<br>4 ເບ        | 7.5            |                    | 0.1                                                                                              | 6<br>9<br>9<br>9        | - 9<br>0 0                                                                                  | 7.<br>10              | ר<br>ה<br>ח                     | ۲.<br>۲.<br>۳.                                                                   |             |
| RATIC                  |                     | 0.996                      | 0.810               | 0,961          | 0.590              | 0.769                                                                                            | 0.481                   | 0.451                                                                                       | 0.946                 | 0.905                           | 4. '<br>0. 833                                                                   |             |
| VEL (MPH)              |                     | 5<br>5<br>7<br>7<br>7      | 240                 | 210            | 200                | 210<br>4.6                                                                                       | 240                     | 230                                                                                         | 170                   | 320<br>11 7                     | 300                                                                              |             |
| SPD (MPH)              |                     | ມ<br>ເ<br>ເ<br>ເ<br>ເ<br>ເ | 11.6                | 8.2            | 60                 | 6,0                                                                                              | 11.2                    | 7.6                                                                                         | , B.<br>2 B.          | 9.2                             | r 0. 1                                                                           |             |
| RATIC<br>DIR (DEG)     |                     | 0.526<br>200               | 0.888<br>360.       | 0.646          | 0.868<br>160       | 0.767                                                                                            | 0.648                   | 0.915                                                                                       | 0.755                 | 0.723                           | 0.935                                                                            |             |
| VEL (MPH)              |                     | 5.5                        | 8.3                 | 6.2            | 5.0                | 0.0                                                                                              | 0 ° 7 ° 6               | 1.1                                                                                         | 220<br>8 0            | 000                             | 0 C                                                                              | Та          |
| SPD (MPH)              |                     | 3.2                        | 8.3                 | 6.9            | 5<br>9<br>9        | 7.6                                                                                              | ຄ.ອ                     | 4.2                                                                                         | ດ<br>ເຄ               | 10.1                            | , n<br>, n                                                                       | <b>a</b> b] |
| RATIC                  |                     | 0.697                      | 0.978               | 0.902          | 0.375              | 0.910                                                                                            | 0.695                   | 0.268                                                                                       | 0.929                 | 0.818                           | 0.928                                                                            | le          |
| 3<br>2<br>8<br>2<br>8  |                     | 159                        | 157                 | 140            | 130                | 107                                                                                              | 106                     | 105                                                                                         | 103                   | 98                              | 2 T<br>01                                                                        | 24          |
| DATE<br>DIP (DEG)      |                     | 2/21/80                    | 6/14/80             | 11/23/80       | 12/23/80           | 3/ 4/80                                                                                          | 4/ 3/80                 | 3/10/80                                                                                     | 6/ 2/80               | 8/25/80                         | 9/12/80                                                                          |             |
| VEL (MPH)              |                     | 0.0<br>0.0                 | 2.8                 | 0.0            | 1.8                | 1.00                                                                                             | 2.9                     | 130                                                                                         | 240                   | 50                              | 00                                                                               | Cor         |
| SPO (MPH)              |                     | ຕ<br>ເ<br>ດ                | 7.6                 | 2.3            | 6.9                | 12.7                                                                                             | 6.9                     | 9.2                                                                                         | 10.5                  | - C7 - C-                       | 5.6                                                                              | nt          |
| RAIIC                  |                     | 0.633                      | 0.363               | 0.947          | 0.261              | 0.940                                                                                            | 0.350                   | 0.639                                                                                       | 0.969                 | 0.201                           | 0.637                                                                            | in          |
| VEL (MPH)              |                     | 0<br>0<br>0                | 5 C. C              | 0.0            | 0.6                | 440                                                                                              | 240                     | 190<br>5 6                                                                                  | 210                   | 0,0                             | 0                                                                                | ue          |
| (HdW) Ods              |                     | 7.5                        | 3.6                 | 1.3.           | 0.6                | ະ<br>ຄ.                                                                                          | າ.<br>ເມ                | 0.0<br>0.0                                                                                  | ה כע<br>ייי<br>ייז    | ບ. 4<br>ບ. 6                    | 0.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1.<br>1. | d           |
| RATIC<br>DIP (252)     |                     | 0.905<br>220               | 0.633               | 0.769          | 0.996              | 0.810                                                                                            | 0.465                   | 0.823                                                                                       | 0.451                 | 0.849                           | 0.576                                                                            |             |
| VEL (MPH)              |                     | 2 N<br>2 V<br>2 V          | 400<br>4            | 2 4            | 0,00               | 240                                                                                              | 230                     | 120                                                                                         | 230                   | 250                             | 220                                                                              |             |
| (HdW) Ods              |                     | 9.2                        | 6.4                 | 6.0            | 5.2<br>5.2         | 11.6                                                                                             |                         |                                                                                             |                       | ້                               |                                                                                  |             |
| RATIC                  |                     | 0.723                      | 0.352               | 0.767          | 0.526              | 0.888                                                                                            | 0.475                   | 0.665                                                                                       | 0.915                 | 0.067                           | 0.381                                                                            |             |
| VEL (MPH)              |                     | 8.2<br>8.2                 | 2 L2                | 0'0<br>9       | 200                | 260                                                                                              | 00<br>10<br>11<br>10    | 210                                                                                         | 270                   | 20<br>2 E                       | 290                                                                              |             |
| SPD (MPH)              | -                   | 10.1                       | ຍ.<br>ອ             | 7.6            | 3.2                | 8.9                                                                                              | . D                     | 7.2                                                                                         | - 4                   | ວ ເ<br>ເ                        | 4 4<br>- 6                                                                       |             |
| RATIC                  |                     | 0.818                      | 0.280               | 0.910          | 0.697              | 0,9.8                                                                                            | 0.840                   | 0.873                                                                                       | 0.268                 | 0.706                           | 0.606                                                                            |             |
| 3 58                   |                     | 85 L.                      | 153                 | 135            | 128                | 109                                                                                              | 97                      | 97                                                                                          | 5<br>0                | đ                               | đ                                                                                |             |
| DATE<br>010            |                     | 8/ 7/80                    | 2/21/80             | 12/23/80       | 11/23/80           | 4/27/80                                                                                          | 9/12/80                 | 6/14/80                                                                                     | 5/ 3/80               | 11/17/80                        | 6/ 2/80                                                                          |             |
|                        |                     | 0 v<br>7 d<br>0            | 0 u<br>0 0 u        | 025            | 230                | 80                                                                                               | 180                     | 150                                                                                         | 280                   | 10                              | 240                                                                              |             |
|                        | î î                 | 0 0<br>1 0                 | ນ<br>ເ              | x 0            | ຫ<br>ເບີຍ          | ດ.<br>ຜູ້                                                                                        | ດ.<br>ເ                 | 2.8                                                                                         | 7.5                   | 4.6                             | 10.2                                                                             |             |
| RATIC                  | Ē                   | 0.61.0<br>651              | יים<br>היים<br>ביים | )<br>          | 5 C C              | 0.0                                                                                              | 7.9                     | 7.6                                                                                         | 10.5                  | ົ.<br>ຕ                         | 10.5                                                                             |             |
| DIR (DE                | ô                   | 320                        | 0000                | 160            | 010                | 102.0<br>070                                                                                     | - no.<br>- no.<br>- no. | 0.303<br>60                                                                                 | 0.712                 | 0.509<br>750                    | 0.969                                                                            |             |
| VEL (MPH               | ~~ 0                | ব (<br>ম্ব                 | 8.9<br>9            | 0.6            | -                  | 2.<br>9                                                                                          | ) [4<br>) .<br>10       | 2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | 20.0<br>70.0          | 0<br>0<br>0<br>0                | ×~<br>• ~                                                                        |             |
| UTU MAR                |                     | 5 0 0<br>7 0 0<br>7 0 0    | a √.5               | 0.0<br>0<br>0  |                    | ም<br>1<br>ት<br>ት<br>ት<br>ት<br>ት<br>ት<br>ት<br>ት<br>ት<br>ት<br>ት<br>ት<br>ት<br>ት<br>ት<br>ት<br>ት<br>ት | (7)<br>(7)              | а, с<br>С                                                                                   | ຍ.<br>ຍ               | 4.0                             | 8                                                                                |             |
| 2112:                  |                     | N.031                      | 0.800               | 0. 440         | 0.769              | 0.729                                                                                            | 0.576                   | 0.633                                                                                       | 0.359                 | 0.499                           | 0.451                                                                            |             |

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| POLLUTAP    | VTNITROGEN DIGXIDE                                                           | 861.                                                                                                    | O TEN HI                                                                                    | GHEST 24 1                                                                                  | IR AVG NO2                                                                                  | DAYS WI                                                                    | O ONIM HI                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ATA.                                                                                                                                                     | UNITS : W                                                                                   | II CROGRAMS                                                                                                                                                                    | ; PER CUB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | IC METER                                                    |
|-------------|------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|----------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------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|             | TOWN NAME SI                                                                 | E SAMPLES                                                                                               | <del>4-</del>                                                                               | R                                                                                           | ო                                                                                           | 4                                                                          | ស                                                                                                                                                                                                                                                                                                                                                                                                                                                        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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0                                                           |
|             | METEOROLOGICAL SITE<br>BRIDGEPORT                                            | DIR (DEG)<br>Vel (MPH)<br>SPD (MPH)                                                                     | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 320<br>6.7<br>9.2                                                                           | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 210<br>6.6<br>6.0                                                          | 70<br>12.8<br>14.2                                                                                                                                                                                                                                                                                                                                                                                                                                       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                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 230<br>7.0<br>915                                           |
|             | METEOROLOGICAL SITE<br>WORCESTER                                             | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC                                                            | 0.956<br>0.955<br>0.955                                                                     | 310<br>310<br>10.1<br>0.818                                                                 | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0                                 | 270<br>6.9<br>7.6<br>0.910                                                 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2390<br>290<br>4.5<br>0.606                                                                                                                              | 0.280<br>0.280                                                                              | 0<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9                                                                               | 0.000<br>0.000<br>0.00<br>0.00<br>0.00<br>0.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0.268                                                       |
| MER         | IDEN<br>Meteorological Site<br>Newadk                                        | 2 57<br>DATE<br>DIR (DEG)<br>VEI (MBU)                                                                  | 137<br>2/21/80<br>300                                                                       | 110<br>12/23/80<br>330                                                                      | 94<br>6/2/80<br>240                                                                         | 94<br>1/22/80<br>210                                                       | 92<br>6/14/80<br>150                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 91<br>11/23/80<br>230                                                                                                                                    | 90<br>8/7/80<br>290                                                                         | 84<br>9/12/80<br>180                                                                                                                                                           | 83<br>4/27/80<br>80<br>80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 82<br>12/29/80<br>30                                        |
|             | NEWAKN<br>Meteorological Site<br>Bradley                                     | VEL (WPH)<br>SPD (WPH)<br>RATIC<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)                                  | ດ<br>ດີດ<br>ດີດ<br>ດີດ<br>ດີດ<br>ດີດ<br>ດີດ<br>ດີດ<br>ດີດ<br>ດີດ<br>ດ                       | 0<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20<br>20             | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                       | 0<br>55.28<br>5.36<br>5.36<br>5.36<br>5.36<br>5.36<br>5.36<br>5.36<br>5.36 | 2.8<br>0.363<br>0.363<br>0.363<br>0.3<br>60<br>7<br>3.60<br>7<br>3.60<br>7<br>3.60<br>7<br>3.60<br>7<br>3.60<br>7<br>5<br>3.60<br>7<br>60<br>7<br>60<br>7<br>60<br>7<br>60<br>7<br>60<br>7<br>60<br>7<br>60<br>7                                                                                                                                                                                                                                         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0.037.0<br>0.037.9<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0.0<br>0<br>0.0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | ס 0<br>סלפי<br>סלפי<br>סטי<br>סטי<br>סטי<br>סטי<br>סטי<br>סטי<br>סטי<br>סטי<br>סטי<br>סט                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>1000<br>100 |
|             | METEOROLOGICAL SITE<br>BRIDGEPORT<br>METEOROLOGICAL SITE<br>WORCESTER        | VEL (MPH)<br>VEL (MPH)<br>VEL (MPH)<br>RATIC<br>VEL (MPH)<br>SPD (MPH)                                  | 0.910<br>910<br>910<br>910<br>910<br>910<br>910<br>910<br>910<br>910                        | 0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50<br>0.50                                | 0.915<br>0.915<br>0.230<br>0.230<br>0.230<br>1.1<br>0.258                                   | 0.695<br>0.698<br>0.648<br>0.648<br>0.648<br>0.698<br>0.695                | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | 0.210<br>0.757<br>0.757<br>0.757<br>0.910<br>0.910                                                                                                       | 0.65<br>9.50<br>9.50<br>9.50<br>9.50<br>0.95<br>0.95<br>0.95<br>0.9                         | 0 0 0 220<br>229<br>299<br>299<br>666<br>2.1<br>0<br>666<br>5.5<br>7<br>0<br>606                                                                                               | 0, 939<br>6.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| м<br>Ш<br>Z | BRITAIN 1<br>METEOROLOGICAL SITE<br>NEWARK<br>METEOROLOGICAL SITE<br>BRADLEY | 23 59<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC<br>DIR (DEG)<br>VEL (MPH)                         | 101<br>2/21/80<br>6.5<br>6.5<br>330<br>330<br>6.8<br>330<br>6.8                             | 11/23/80<br>230<br>6.9<br>7.3<br>210<br>210                                                 | 3/ 90<br>2 4/80<br>11:9<br>12:7<br>0.940<br>2 40                                            | 9/12/89<br>180<br>7.9<br>0.637<br>300<br>2.55                              | 3/10/80<br>130<br>5:9<br>9:2<br>190<br>190                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 4/27/80<br>80<br>80<br>10.6<br>0.637<br>3.2                                                                                                              | 7/ 77<br>230<br>10.1<br>12.1<br>12.1<br>12.1<br>12.1<br>12.1<br>12.3<br>2.0<br>3.0          | 76<br>6/14/80<br>2.8<br>0.363<br>60<br>2.3                                                                                                                                     | 6/ 75<br>240<br>10.2<br>210<br>10.5<br>210<br>210<br>210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 3/28/80<br>176<br>7.1<br>7.1<br>7.1<br>8.1<br>190<br>190    |
|             | METEOROLOGICAL SITE<br>BRIDGEPORT<br>METEOROLOGICAL SITE<br>WORCESTER        | ZPU (MPH)<br>DIA 10<br>VEL (MPH)<br>SPD (MPH)<br>RATIC<br>DIA 10<br>VEL (MPH)<br>VEL (MPH)<br>SPD (MPH) | 0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.00<br>0.0                                 | 0.769<br>210<br>216<br>0.767<br>0.767<br>0.767<br>0.767<br>0.765<br>0.910<br>0.910<br>0.910 | 0.810<br>240<br>11.6<br>11.6<br>8.8<br>8.2<br>8.3<br>0.978                                  | 0.576<br>220<br>6.9<br>0.381<br>0.381<br>0.606<br>0.606                    | 0.653<br>120<br>0.655<br>0.655<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0.7.2<br>0. | 0.4.5<br>70.729<br>6.4.28<br>6.60<br>6.96<br>6.0<br>39<br>6.0<br>39<br>6.0<br>39<br>39<br>39<br>39<br>39<br>39<br>39<br>39<br>39<br>39<br>39<br>39<br>39 | 0.655<br>451<br>7220<br>11.6<br>0.682<br>6.82<br>4.4<br>4.4<br>6.50<br>519                  | 0.3.3<br>2.633<br>0.4.9<br>3.52<br>0.352<br>0.352<br>0.25.3<br>2.8.3<br>2.8.3<br>2.8.3                                                                                         | 0 4:1<br>0 | 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                       |
|             |                                                                              |                                                                                                         |                                                                                             |                                                                                             |                                                                                             |                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                             |

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Table 24, Continued

| CONNECTIC | UT DEPARTMENT OF ENV             | I ROMENT AL  | PROTECTIO         |                                                                                                  |                            | PAGE            | œ                     | •           |                    | AIR COMF       | LIANCE EN                  | GINEERING         |   |
|-----------|----------------------------------|--------------|-------------------|--------------------------------------------------------------------------------------------------|----------------------------|-----------------|-----------------------|-------------|--------------------|----------------|----------------------------|-------------------|---|
| POLLUTANT |                                  | Ö,           | BO TEN HI         | GHEST 24                                                                                         | HR AVG NO                  | 2 DAYS WI       | O ONIM H1             | ATA.        | •                  |                |                            |                   |   |
| ·         | Trucht Masser                    |              |                   |                                                                                                  |                            |                 |                       |             | UNITS :            | MICROGRAW      | IS PER CUB                 | IC METER          |   |
|           | IUWN NAME SI                     | re samples   | <del>y</del> arı  | 0                                                                                                | ო                          | ধ               | ß                     | Q           | 7                  | ŝ              | Ø                          | ,<br>10           |   |
| NEW H     | AVEN 1:                          | 23 29        | 130               | 129                                                                                              | 121                        | 120             | 001                   | 4<br>0<br>9 | ,<br>,             |                | . (                        | 1                 |   |
|           |                                  | DATE         | 5/27/80           | 9/12/80                                                                                          | 2/21/80                    | 4/3/80          | 7/ 7/80               |             | 501                | 103            | 12 / 5 /22                 |                   |   |
|           | METEOROLOGICAL SITE              | DIR (DEG)    | 310               | 180                                                                                              | 300                        | 220             | 220                   | 150         | 170                | 9/1/180<br>BU  | 12/ 5/80                   | 08/52/01          |   |
|           | NEWARK                           | VEL (MPH)    | 13.3              | 5.0                                                                                              | 6.5                        | 2.9             | 2.7                   | 2.8         | 7.1                |                | 1<br>1<br>1<br>2<br>2<br>2 |                   |   |
|           |                                  | SPD (MPH)    | 14.0<br>0         | 7.9                                                                                              | ຕ.<br>ຕ                    | 8.3             | 10.4                  | 7.6         | 8.1                | 10.6           | 10.<br>10.<br>10.          | > ~<br>4 €        |   |
| 4         | WETEODO! OC! C                   | RATIC        | 0.913             | 0.637                                                                                            | 0.693                      | 0.350           | 0.258                 | 0.363       | 0.880              | 0.837          | 0.980                      | 0.884             |   |
| -         |                                  | VEN (DEG)    | 00                | 01000                                                                                            | 000                        | 290             | 200                   | 60          | 190                | 50             | 350                        | .00               | • |
|           |                                  | SPD (MPH)    |                   | ה ה<br>אינ                                                                                       | 0 U                        | ເບັນ<br>ເບັນ    | 7.5                   | 5.9         | 7.2                | 3.2            | 11.7                       | 1.1               |   |
|           |                                  | RATIC        | 0.938             | 5 U C                                                                                            | 0.70<br>0                  | 5 C C           | 6.7                   | 9.0<br>0    | 7.5                | ທ.<br>ຊ        | 12.1                       | 4.2               |   |
|           | METEOROLOGICAL SITE              | DIR (DEG)    | 310               | 220                                                                                              | 320                        |                 | 010                   | 559.0       | 0.961              | 0.729          | 0.969                      | 0.255             |   |
|           | BRIDGEPORT                       | VEL (MPH)    | 15.3              | 2.6                                                                                              | 6.7                        | ງ<br>ເງິ        | 6.6                   | 200         | 2 0                | 20             | 0.0                        | 80                |   |
|           |                                  | (HdW) Ods    | 15.5              | 6.9                                                                                              | 9.2                        | 1 1 1           |                       | - 9<br>- 9  | - C                |                | 0 - F                      |                   |   |
| 4         |                                  | RATIC        | 0.988             | 0.381                                                                                            | 0.723                      | 0.475           | 0.755                 | 0.352       | 0.946              | 0.896          | 0.955                      | 0.8.6             |   |
| _         | MEIEUXULUGACAL VILE<br>MODIFICAR | VIR (DEG)    | 320               | 290                                                                                              | 310                        | 00E .           | 220                   | 90          | 250                | 60             | 320                        | 20.0              |   |
|           |                                  | VEL (MYE)    |                   | 2.1                                                                                              | 60.7                       | 7.5             | . 8.0                 | 1.5         | 6.2                | 5.9            | 20.3                       | ବ .<br>ମ          |   |
|           |                                  | DATIO        | 2 C C C           | 4 0<br>0 0                                                                                       | 10.1                       | 8.9             | <b>B.</b> 6           | 5.3         | 6.9                | 6.3            | 20.7                       | 5.0               |   |
| -         |                                  |              |                   | 0.606                                                                                            | 0.818                      | 0.840           | 0.929                 | 0.280       | 0.902              | 658-0          | 0.982                      | 0.676             |   |
| NORWAI    | LK                               | 5 61         | 129               | 126                                                                                              | 120                        | 1 2 0           | 001                   | 6           |                    |                |                            |                   |   |
|           |                                  | DATE         | 2/21/80           | 7/ 2/80                                                                                          | 6/ 2/80                    | 12/23/80        | 8/ 7/80               | 211         | 101                | 101            | 101                        | 105               |   |
| -11-1     | METEOROLOGICAL SITE              | DIR (DEG)    | 300               | 220                                                                                              | 240                        | 330             | 290                   | 00/07/1     | 3/ 20/ BU          | and an         | 9/12/80                    | 4/3/80            |   |
|           | . NEWARK                         | VEL (MPH)    | 6.5               | 2.7                                                                                              | 10.2                       | 1.8             | 6.4                   | 10.8        | 7.1                | 300            | ວ<br>ວິ<br>- ນ             | 7 0<br>7 0<br>7 0 |   |
|           |                                  | (HdW) Ods    | ຕ.<br>ອ           | 10.4                                                                                             | 10.5                       | 6.9             | 9.8                   | 11.2        | 8.1                |                | 0.0                        | ) ("<br>, (2)     |   |
| e         | VET EODO! OCTO!                  | RATIC        | 0.693             | 0.258                                                                                            | 0.969                      | 0.261           | 0.651                 | 0.964       | 0.880              | 0.785          | 0.637                      | 0.350             |   |
|           | MEIEUKULUGICAL SIIE              | DIR (DEG)    | 330               | 200                                                                                              | 210                        | 160             | 320                   | 280         | 190                | 310            | 006                        | 050               |   |
|           | BRADLEY                          | VEL (MPH)    | ຍ.<br>ເ           | ۲.<br>۵                                                                                          | 0.1                        | 0.6             | 4.4                   | 2.3         | 7.2                | 6.0            | 2.5                        | 2.0               |   |
|           |                                  | CPD (MPH)    | 2.2<br>2.1        | 6.7                                                                                              | 4.2                        | 0.6             | 6.3                   | 8.8<br>8    | 7.5                | 6.3            | 4.3                        | 5.0<br>10         |   |
|           | VETEODOLOGICAL CITE              | RALIC DIA    | 605°0             | 0.946                                                                                            | 0.451                      | 0.996           | 0.697                 | 0.258       | 0.961              | 0.965          | 0.576                      | 0.465             |   |
| -         |                                  |              | 2                 | 0/1                                                                                              | 0EZ                        | 340             | 260                   | 210         | 210                | 270            | 220                        | 230               |   |
|           |                                  |              | - r<br>0 d        | ی م<br>م                                                                                         | 0.0                        | 0 I             | 6.4                   | 9.8         | 7.8                | 9. ¢           | 2.6                        | 5.3               |   |
|           |                                  |              | 9 6<br>7 0<br>9 0 | 1<br>1<br>1<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 |                            | ם<br>היח<br>היח | 9.5<br>1              | 11.6        | 8.2                | 9.8            | 6.9                        | 11.               |   |
| ų         | WETEOROLOGICAL SITE              | DIR (DEG)    |                   |                                                                                                  | 010                        |                 | 0.678<br>000          | 0.843       | 0,946              | 0.353          | 0.381                      | 0.475             |   |
|           | WORCESTER                        | VEL (MPH)    | 8.2               |                                                                                                  | <br>                       |                 | > c<br>₽ c            | 0 0         | 220                | 280            | 290                        | 000               |   |
|           | •                                | (HdW) QdS    | 10.1              |                                                                                                  | - T                        | 4 C             |                       | זי<br>- נ   | 2.0                | 7.5            | 2.7                        | 7.5               |   |
|           |                                  | RATIC        | 0.818             | 0.929                                                                                            | 0.268                      | 0.697           | 0.966<br>0            | 0.077       | 0 000<br>0 000     | 9./<br>0       | ດ<br>ເດີຍ<br>ເ             |                   |   |
|           |                                  |              |                   |                                                                                                  |                            | •               |                       |             |                    | ¥00.0          |                            | 0100.0            |   |
| T M HON   | 5                                | 1 2 3        | 86                | 83                                                                                               | 78                         | 77              | 74                    | 72          | 69                 | 68             | 67                         | 66                |   |
| 2         | WET EODO! OCTON CITE             | DATE J       | 12/23/80          | 3/ 4/80                                                                                          | 11/23/80                   | 12/29/80        | 2/21/80               | 08/00/01    | 9/12/80            | 10/12/80       | 12/17/80                   | 12/11/80          |   |
| -         |                                  |              | ວ ເ<br>າ ຸ        | 230                                                                                              | 530                        | 000             | 300                   | 330         | 180                | 290            | 340                        | 320               |   |
|           |                                  | SPO (WPH)    |                   | n .<br>                                                                                          | ה<br>יים                   | 5. C            | ດ.<br>ເ               | 5.7         | 5.0                | <b>5.11.</b> 3 | 12.1                       | 11.8              |   |
|           |                                  |              |                   | 1.2                                                                                              | 5<br>7<br>7<br>7<br>7<br>7 | 5.00            | ອ<br>ເ<br>ເ<br>ເ<br>ເ | 8.2         | 7.9                | 12.9           | 12.8                       | 13.9              |   |
| æ         | WETEOROLOGICAL SITE              | DIR (DEG)    |                   | )<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | - 7 N - O                  | 0.440           | 0.00<br>0             | 0.696       | 0.637              | 0.877          | 0.948                      | 0.848             |   |
|           | BRADLEY                          | VEL (MPH)    | 0.6               | 2 4 4                                                                                            | 7 F                        | רי<br>ע         | 000                   | 006         | 00E                | 290            | 340                        | 330               |   |
|           |                                  | SPD (MPH)    | 0.6               | , v<br>,<br>, v                                                                                  |                            | - C<br>D U      | 0 L                   | ר וי<br>יי  | 5 ° °              | ו ני<br>קיני   | 8.1                        | B.0               |   |
|           |                                  | <b>NATIC</b> | 0.996             | 0.810                                                                                            | n 769                      |                 | 0.00<br>- 0<br>- 0    | >           | ייין<br>דיי<br>דיי | 0.0<br>1       | 0.0<br>0.0                 | میں<br>ا سرا<br>ا |   |
|           |                                  | i<br> <br>   |                   |                                                                                                  |                            | 2<br>2<br>2     |                       | 0.033       | 0.0/0              | 0.817          | 0.844                      | 0.724             |   |

| COMPLIANCE ENGINEERING | OGRAMS PER CUBIC METER | 6 10         | ап 320 320        |
|------------------------|------------------------|--------------|-------------------|
| AIR                    | UNITS : MICE           | 7            | 0000              |
|                        | DATA.                  | Q            | UUE               |
| Ũ                      | I ONIM HI              | ß            | 006               |
| PAGE                   | 2 DAYS WI              | \$           | 01                |
|                        | HR AVG NO              | m            | 010               |
| NO                     | IGHEST 24              | 8            | 090               |
| ROTECTI                | O TEN H                | gaie         | 005               |
| T OF ENVIROMENTAL P    | 198<br>10X1DE          | SITE SAMPLES | AI SITE DID (DEG) |
| CONNECTICUT DEPARTMENT | POLLUTANTNITROGEN DI   | TOWN NAME    | METEODIOCIC       |

| POLLUTAN | T                                 | БГ.                                                       | BO IEN HI                                                                                        | GHEST 24                                                                                    | HR AVG NU                       | LUAYS WILL                          | O ONTA HI                            | • • •                        | UNITS : M                     | I CROGRAMS                           | S PER CUB                             | IC METER                                                                                |
|----------|-----------------------------------|-----------------------------------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------|-------------------------------------|--------------------------------------|------------------------------|-------------------------------|--------------------------------------|---------------------------------------|-----------------------------------------------------------------------------------------|
|          | TOWN NAME SI                      | TE SAMPLES                                                | ęrzie.                                                                                           | 5                                                                                           | en (                            | \$                                  | ស                                    | ø                            | 7                             | 80                                   | ° on '                                | 01.                                                                                     |
|          | METEOROLOGICAL SITE<br>BRIDGEPORT | DIR (DEG)<br>Vel (MPH)<br>SPD (MPH)                       | 0 0 0<br>0 0 0<br>0 0 0                                                                          | 240<br>10.3                                                                                 | 2,0<br>6,0<br>0,0               | 12.6<br>12.9                        | 320<br>6.7<br>9.2                    | 300<br>7.4<br>0              | 220<br>6.9<br>6.9             | 280<br>15.2<br>15.5                  | 320<br>13.3                           | 11.0<br>11.0<br>2.6                                                                     |
|          | METEOROLOGICAL SITE<br>WORCESTEF  | DIR (DEG)<br>DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC | 0.526<br>2.20<br>3.2<br>0.697                                                                    | 0.888<br>260<br>8.2<br>8.3<br>0.978                                                         | 0.767<br>270<br>6.9<br>0.910    | 0.975<br>300<br>1.4<br>5.6<br>0.243 | 0.723<br>310<br>8.2<br>10.1<br>0.818 | 0.935<br>5.2<br>5.6<br>0.928 | 0.381<br>2.90<br>2.7<br>0.606 | 0.979<br>280<br>10.6<br>0.955        | 0.984<br>310<br>9.3<br>0.935<br>0.935 | 0.830<br>300<br>9.1<br>0.926                                                            |
| STAM     | FORD                              | 7 61<br>DATE                                              | 11/23/80                                                                                         | 137<br>2/21/80                                                                              | 104                             | 101<br>3/4/80                       | 101<br>6/ 2/80                       | 98<br>2/_9/80                | 93<br>6/14/80                 | 08/1/8                               | 8/25/80                               | 88<br>3/28/80                                                                           |
|          | METEOROLOGICAL SITE<br>Newari     | DIR (DEG)<br>( VEL (MPH)<br>SPD (MPH)<br>RATIC            | 230<br>6.9<br>8.7<br>8.7                                                                         | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 230<br>10.8<br>11.2<br>0.964    | 230<br>11.9<br>12.7<br>0.940        | 240<br>10.2<br>0.969                 | 300<br>4.3<br>7.8<br>0.557   | 150<br>2.8<br>7.6<br>0.363    | 290<br>6.4<br>9.8                    | 1.5<br>7.3<br>0.201                   | 7.1<br>8.8<br>0.880                                                                     |
|          | METEOROLOGICAL SITE<br>BRADLE     | DIR (DEG)<br>/ VEL (MPH)<br>SPD (MPH)<br>RATIC            | 21.0                                                                                             | 330<br>6.8<br>7.5<br>0.905                                                                  | 280<br>2.3<br>8.8<br>258<br>258 | 240<br>5.5<br>810                   | 210                                  | 320<br>5.4<br>830            | 60<br>2.3<br>0.633            | 320<br>4.4<br>6.3<br>0.697           | 10<br>3.9<br>849<br>0.849             | 190<br>7.5<br>0.961                                                                     |
|          | METEGROLOGICAL SITE<br>BRIDGEPOR  | DIR (DEG)<br>T VEL (MPH)<br>SPD (MPH)<br>RATIC            | 210<br>4.6<br>6.0                                                                                | 320<br>6.7<br>9.2<br>0.723                                                                  | 210<br>9.8<br>11.6<br>843       | 240<br>10.3<br>11.6<br>0.888        | 230<br>7.0<br>7.6<br>0.915           | 280<br>5.1<br>0.660          | 200<br>1.7<br>4.9<br>0.352    | 260<br>6.4<br>9.5<br>678             | 250<br>0.4<br>5.8<br>0.067            | 210<br>7.8<br>0.946                                                                     |
| -        | METEOROLOGICAL SITE<br>WORCESTE   | DIR (DEG<br>VEL (MPH<br>SPD (MPH<br>RATIC                 | 0.910<br>0.910                                                                                   | 310<br>9.8.2<br>9.818<br>9.818                                                              | 270<br>7.9<br>8.5<br>0.937      | 260<br>8.2<br>8.3<br>0.978          | 270<br>1.1<br>4.2<br>0.268           | 310<br>7.5<br>8.1<br>0.931   | 30<br>1.5<br>5.3<br>0.280     | 290<br>9.2<br>0.966                  | 20<br>3.6<br>5.0<br>0.706             | 250<br>6.2<br>6.9<br>0.902                                                              |
| STAR     | AFORD                             | 123 61<br>DATE                                            | 157<br>6/14/80                                                                                   | 132<br>6/ 2/80                                                                              | 102<br>12/23/80                 | 99<br>11/23/80                      | 96<br>· 3/28/80                      | 96<br>2/ 9/80                | 92<br>7/20/80                 | 90<br>9/12/80                        | 86<br>7/ 2/80                         | 86<br>3/16/80                                                                           |
|          | METEOROLOGICAL SITE<br>NEWAR      | X VEL (MPH<br>SPD (MPH<br>RATIC                           | ) 150<br>2.8<br>0.363                                                                            | 240<br>10.2<br>969<br>969                                                                   | 3300<br>6.9<br>261              | 230<br>6.9<br>7.3<br>0.947          | 170<br>7.1<br>8.1<br>0.880           | 300<br>4.3<br>7.8<br>557     | 230<br>10.8<br>11.2<br>0.964  | 180<br>5.0<br>7.9<br>0.637           | 220<br>2.7<br>10.4<br>0.258           | 270<br>8.3<br>0.263                                                                     |
|          | METEOROLOGICAL SITE<br>BRADLE     | V VEL (MPH<br>SPD (MPH<br>RATIC                           | 0°33<br>0°33<br>0°33<br>0°53<br>0°53<br>0°53<br>0°53<br>0°53                                     | 210<br>4.2<br>45.2                                                                          | 160<br>0.6<br>0.6<br>0.996      | 210<br>1.0<br>1.3<br>0.769          | 190<br>7.2<br>0.961                  | 320<br>4.4<br>5.3<br>830     | 280<br>2.3<br>8.8<br>0.258    | 300<br>2.5<br>4.3<br>0.576           | 200<br>7.5<br>0.946                   | 270<br>5.8<br>8.1<br>0.724                                                              |
|          | METEOROLOGICAL SITE<br>BRIDGEPOR  | T VEL (MPH<br>SPD (MPH<br>RATIO                           | 200<br>24.9<br>352<br>352                                                                        | 230<br>7.6<br>915                                                                           | 340<br>2.5<br>5.5<br>6          | 210<br>4.6<br>6.0<br>0.767          | 210<br>7.8<br>8.2<br>946             | 280<br>5.1<br>7.8<br>0.660   | 210<br>9.8<br>11.6<br>843     | 220<br>2.6<br>6.9<br>381             | 170<br>6.6<br>8.8<br>755              | 260<br>7.3<br>10.2<br>0.718                                                             |
|          | METEOROLOGICAL SITE<br>WORCESTE   | R VEL (WPH<br>SPD (WPH<br>RATIC                           | 0<br>5<br>5<br>5<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 0.250                                                                                       | 2.2<br>3.2<br>0.697             | 270<br>6.9<br>7.6                   | 250<br>6.3<br>0.902                  | 0.6<br>0.10<br>0.310<br>0.31 | 270<br>7.9<br>8.5<br>0.937    | 0.02<br>0.02<br>0.03<br>0.03<br>0.03 | 220<br>8.0<br>929                     | 280<br>280<br>0<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80<br>80 |

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| CONNECTICUT DEPARTMENT OF ENV     | WIDDAEATAI                                                                                       | 100 T C:C T 10                                                                  |                    |                                                                                                  |                            |                  |                                                                                                  |                  |                         |                                                                                                  |                       |
|-----------------------------------|--------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------|--------------------|--------------------------------------------------------------------------------------------------|----------------------------|------------------|--------------------------------------------------------------------------------------------------|------------------|-------------------------|--------------------------------------------------------------------------------------------------|-----------------------|
|                                   |                                                                                                  | אטיבריוט                                                                        | Ζ                  |                                                                                                  | PAGE                       | 10               |                                                                                                  |                  | AIR COMP                | LIANCE EN                                                                                        | GINEERING             |
| POLLUTANTNITROGEN DIOXIDE         | 196                                                                                              | 30 TEN HI                                                                       | GHEST 24 I         | HR AVG NO                                                                                        | 2 DAYS WI                  | IN WIND DI       | ата.                                                                                             | UNITS :          | MICROGRAM               | S PER CUB                                                                                        | IC WETER              |
| TOWN NAME S                       | ITE SAMPLES                                                                                      | Que                                                                             | R                  | Ċ,                                                                                               | ¢                          | ល                | Q                                                                                                | 7                | ß                       | , <b>61</b>                                                                                      | 01.                   |
| STRATFORD                         | 5<br>5<br>5<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 151.                                                                            | 126                | 118                                                                                              | 115                        | 107              | EOI                                                                                              | 101              | 100                     | 100                                                                                              | 8<br>5                |
| METEOROLOGICAL SITE               | DIR (DEG)                                                                                        | 0/14/80<br>150                                                                  | 9/12/80<br>180     | 6/ 2/80<br>240                                                                                   | 8/ 7/80<br>290             | 2/21/80<br>300   | 7/ 2/80                                                                                          | 7/26/80          | 3/16/80                 | 8/25/80<br>50                                                                                    | 8/19/80               |
| NEWAR                             | K VEL (MPH)                                                                                      | 2.8                                                                             | 5.0                | 10.2                                                                                             | 6,4                        | 0.9<br>9.9       | 2.7                                                                                              | 4 4              | 2 10                    | 1.5                                                                                              | ດ<br>ເຊິ່             |
|                                   | SPD (MPH)                                                                                        | 7.6<br>0 363                                                                    | 0.7<br>0           | 10.5                                                                                             | 0.0<br>0.0                 | ຕ.<br>ຄ.         | 10.4                                                                                             | 7.8              | 8.3                     | 7.3                                                                                              | 6.6                   |
| METEOROLOGICAL SITE               | DIR (DEG)                                                                                        | 609                                                                             | 000                | 210                                                                                              | 008                        | 0.093            | 0.258                                                                                            | 0.604            | 0.263                   | 0.201                                                                                            | 0.835                 |
| BRADLE                            | Y VEL (MPH)                                                                                      | 2.3                                                                             | 2.5                | 6.1                                                                                              | 4.4                        | 0<br>0<br>0<br>0 | 7.5                                                                                              | 0-0-0            | 5 / C                   | ວດ.<br>ຕ                                                                                         | 2 40                  |
|                                   | SPD (MPH)                                                                                        | ອີເ                                                                             | ମ<br>ବ             | 4.2                                                                                              | 6.3                        | 7.5              | 7.9                                                                                              | 2.6              | 8.1                     | 9 17                                                                                             | 3.6                   |
| METEOROLOGICAL SITE               | DIR (DEG)                                                                                        | 0.633                                                                           | 0.576              | 0.451                                                                                            | 0.697                      | 0,905            | 0.946                                                                                            | 0.540            | 0.724                   | 0.849                                                                                            | 0.530                 |
| BRIDGEPOR                         | T VEL (MPH)                                                                                      |                                                                                 | 4 C4<br>4 C        | 0.7                                                                                              | 6.4<br>6.4                 | 07 G             | - 4<br>- 4                                                                                       | 200              | , 260<br>,              | 250                                                                                              | 000                   |
|                                   | SPD (MPH)                                                                                        | 4.9                                                                             | 6<br>6             | 7.6                                                                                              | 6.5                        | 0.2              | 0.00                                                                                             | 9.9              | 10.2                    |                                                                                                  | · · · ·               |
| MET FORDI OCTOBE CETT             | RATIC                                                                                            | 0.352                                                                           | 0.381              | 0.915                                                                                            | 0.678                      | 0.723            | 0.755                                                                                            | 0.749            | 0.718                   | 0.067                                                                                            | 0.869                 |
|                                   | (המשר) אוח<br>האמיל (המשר)                                                                       | ່                                                                               | 500                | 270                                                                                              | 290                        | 010              | 220                                                                                              | 280              | 280                     | 20                                                                                               | 160                   |
|                                   | SPD (MPH)                                                                                        | ດ.ຕ<br>- ແຕ                                                                     | 2.7                |                                                                                                  | เง<br>เง<br>เง<br>เง<br>เง | 00 ç<br>(4 •     | 0.0<br>0.0                                                                                       | ດ<br>ທີ່ເ        | 8.0<br>1                | ຍ.<br>ຍ                                                                                          | 0.0                   |
| -                                 | RATIC                                                                                            | 0,280                                                                           | 0.606              | 0.268                                                                                            | 0.966                      | 0.818            | 8.6<br>0.929                                                                                     | 6.2<br>0.962     | 8.8<br>0.908            | 0.706                                                                                            | 5.3<br>0.375          |
| TORRINGTON                        | 123 61                                                                                           | 109                                                                             | 87                 | 84                                                                                               | 78                         | 56               | 5                                                                                                | Ċ                | ţ                       | t<br>L                                                                                           | i<br>i                |
|                                   | DATE 1                                                                                           | 11/23/80                                                                        | 12/23/80           | 3/ 4/80                                                                                          | 2/21/80                    | 9/12/80 1        | 08/56/21                                                                                         | 1/22/BO          | 3/16/80                 | 03/51/8                                                                                          | 64/17/00              |
| METEOROLOGICAL SITE               | DIR (DEG)                                                                                        | 230                                                                             | 330                | 230                                                                                              | 300                        | 180              | 30                                                                                               | 210              | 270                     | 300                                                                                              | 10                    |
| NEWAR                             | N VEL (MPH)                                                                                      | ה<br>טי                                                                         | e. (               | 11.9                                                                                             | 6.5                        | 5.0              | 13.9                                                                                             | 6.8              | 2.2                     | ດ <sup>ໍ</sup> ດ                                                                                 | 4.6                   |
|                                   |                                                                                                  | 5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5.<br>5 | 60.40<br>40<br>40  | 12.7                                                                                             | ຕ.<br>ເ                    | 7.9              | 13.9                                                                                             | 8.2              | в.3                     | 10.5                                                                                             | 9.1                   |
| METEOROLOGICAL SITE               | DIR (DEG)                                                                                        | 210                                                                             | 160.0              | 240                                                                                              |                            | 0.637            | 96 <b>0.0</b>                                                                                    | 0.828            | 0.263                   | 0.946                                                                                            | 0.509                 |
| BRADLE                            | Y VEL (MPH)                                                                                      | 0.1                                                                             | 0.6                | 4                                                                                                | 0,00                       | 5<br>5<br>7<br>7 | С и<br>И<br>И                                                                                    | 2 4 6            | ם<br>ער<br>ער           | 0<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9<br>9 | 000                   |
|                                   | (HdW) Ods                                                                                        | 1.3                                                                             | 0.6                | 5.5                                                                                              | 7.5                        | ন<br>ন<br>ব      | 5.2<br>7                                                                                         | . n              | 0 <del>-</del> .<br>1 @ | 00                                                                                               | 0 0<br>7 7            |
| MET FOROLOGICAL CITT              | RATIC<br>Dir (nra)                                                                               | 0.769<br>2.6                                                                    | 0.996              | 0.810                                                                                            | 0.905                      | 0.576            | 0.985                                                                                            | 0.481            | 0.724                   | 0.959                                                                                            | 0.499                 |
| MEI CONUCUGICAL SIIE<br>RRINGEDOD | T VEI (MDM)                                                                                      |                                                                                 | 000                | 240                                                                                              | 320                        | 220              | 10                                                                                               | 240              | 260                     | 300                                                                                              | 340                   |
|                                   | SPD (MPH)                                                                                        | ) O<br>. U                                                                      | ם א<br>נו<br>ערו א | 10.0                                                                                             | , c<br>0 0                 | 0 0<br>7 4       | 12.6                                                                                             |                  | 7.9                     |                                                                                                  | а.<br>0               |
|                                   | RATIC                                                                                            | 0.767                                                                           | 0.526              | 0.898                                                                                            | 0.723                      | 0.381            | 0.975                                                                                            | 0.54<br>54<br>54 | 4.7 0                   | היה<br>היה<br>כ                                                                                  | 0<br>0<br>0<br>0<br>0 |
| MELEOROLOGICAL SITE               | DIR (DEG)                                                                                        | 270                                                                             | 200                | 260                                                                                              | 310                        | 290              | 000                                                                                              | 230              | 280                     | 300                                                                                              | 300                   |
|                                   | A VEL (MPH)                                                                                      | ה ת<br>סינ                                                                      | 2                  | 8.2                                                                                              | 8.2                        | 2.7              | 1.4                                                                                              | Э.7              | 8.0                     | 5.3                                                                                              | ą.0                   |
|                                   | RATIC                                                                                            | 0.910                                                                           | 3.2<br>0.697       | в.з<br>0,978                                                                                     | 0.818                      | 4.5<br>0.606     | 5.6<br>0.243                                                                                     | 5,3<br>0,695     | 8.8<br>9.8              | 5.8<br>0 924                                                                                     | ي.<br>دي.<br>د        |
| WATEBRIDY                         |                                                                                                  | (<br>,                                                                          |                    |                                                                                                  | •                          |                  |                                                                                                  |                  |                         | -<br>                                                                                            | )<br> <br>            |
|                                   | DATE                                                                                             | 108<br>2/21/80                                                                  | 12/23/80           | 9/12/80                                                                                          | 109<br>4/27/80             | 107              | 106                                                                                              | 103              | 103                     | 86                                                                                               | 96                    |
| METEOROLOGICAL SITE               | DIR (DEG)                                                                                        | 300                                                                             | 000                | 150                                                                                              | - ^ ~ / ~ ~                | 1111/00          | 6/ 8/00<br>320                                                                                   | 3/28/80          | 7/ 2/80                 | 1/22/80                                                                                          | 03280                 |
| NEWAR                             | K VEL (MPH)                                                                                      | 6.5                                                                             | 1.8                | 5.0                                                                                              | 9<br>0<br>0                | 4<br>. 9         | 40.0                                                                                             |                  | 7 C                     | 20                                                                                               | 5 0<br>7 1            |
|                                   | (HdW) Ods                                                                                        | ო<br>ი                                                                          | 6.9                | 7.9                                                                                              | 10.6                       | 0.1              | 12.7                                                                                             | 6                | 10.4                    | . e                                                                                              |                       |
| MFT FORDI OGICAI SITE             | RATIC                                                                                            | 0.693                                                                           | 0.261              | 0.637                                                                                            | 0.837                      | 0.509            | 0.940                                                                                            | 0.880            | 0.258                   | 0.828                                                                                            | 0.947                 |
| BRADLE                            | Y VEL (MPH)                                                                                      | 0.8<br>0.8                                                                      | 0.0                | 2.5                                                                                              | 5 C<br>C<br>C              | 320              | 8<br>8<br>8<br>9<br>8<br>9<br>8<br>9<br>8<br>9<br>8<br>9<br>8<br>9<br>8<br>8<br>8<br>8<br>8<br>8 | 190              | 200                     | ы.<br>0 г с                                                                                      | 210                   |
|                                   | SPD (MPH)                                                                                        | 7.5                                                                             | 0.6                | 1<br>7<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | , U                        | 2 C              | ះប<br>វ                                                                                          | , r<br>. r       | 00                      | 0 C<br>N U                                                                                       | 0,                    |
|                                   | RATIC                                                                                            | 0.905                                                                           | 0.996              | 0.576                                                                                            | 0.729                      | 0.499            | 0.810                                                                                            | 0.961            | 0.946                   | 0.481                                                                                            | 0.769                 |

| NTNITROGEN DIOXIDE       1980 TEN HIGHEST 24 HR AVG NO2 DAYS WITH WIND DATA.       UNITS : MICROGRAMS PER CUBI         TOWN NAME       SITE SAMPLES       1       2       3       4       5       6       7       8       9         TOWN NAME       SITE SAMPLES       1       2       3       4       5       6       7       8       9         METEOROLOGICAL SITE DIR (DEG)       320       340       220       70       340       240       210       170       240         METEOROLOGICAL SITE DIR (DEG)       320       340       220       70       340       240       210       170       240         METEOROLOGICAL SITE DIR (DEG)       320       340       226       12.8       3.6       10.3       7.8       6.6       7.3         METEOROLOGICAL SITE DIR (DEG)       310       2.0       6.9       14.2       8.6       11.6       8.2       0.648       11.2         METEOROLOGICAL SITE DIR (MPH)       9.2       5.9       0.419       0.946       0.755       0.648       11.2         METEOROLOGICAL SITE DIR (MPH)       9.2       2.7       5.9       0.648       0.748       0.748       0.755       0.648       0.733       0.733 | ICUT DEPARIMENT OF EN | IVI ROMENTAL | ROTECTI  | NO        |          | PAGE      | 8 B         |       |         | AIR CON  | IPLIANCE EI | IGINEERINC |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------|--------------|----------|-----------|----------|-----------|-------------|-------|---------|----------|-------------|------------|
| N NAME       SITE SAMPLES       1       2       3       4       5       6       7       9         EOROLOGICAL SITE       DIR (DEG)       320       340       220       70       340       240       210       170       240         EOROLOGICAL SITE       DIR (DEG)       320       340       220       70       340       240       210       170       240         BRIDGEPORT       VEL (MPH)       6.7       2.9       2.6       12.8       3.6       10.3       7.8       6.6       7.3         SPD (MPH)       9.2       5.5       6.9       14.2       8.6       11.6       8.8       11.2         RATIC       0.723       0.526       0.381       0.896       0.419       0.755       0.648         RONLOGICAL SITE       DIR (DEG)       310       2200       290       60       300       260       230       230         WORCESTER VEL (MPH)       8.2       2.1       5.9       0.4       8.2       6.2       8.0       3.7         RORLOGICAL SITE       DIR (DEG)       310       2.02       2.0       230       230       230       230       230       230       230       230                                                             | ITROGEN DIOXIDE       | 196<br>1     | 10 1EN H | IGHEST 24 | HR AVG N | 02 DAYS W | ONIM HII.   | DATA. | ST I NU | MICROGRA | MS PER CU   | IIC METER  |
| EOROLOGICAL SITE       DIR (DEG)       320       340       220       70       340       240       210       170       240         BRIDGEPORT       VEL (MPH)       6.7       2.9       2.6       12.8       3.6       10.3       7.8       6.6       7.3         BRIDGEPORT       VEL (MPH)       9.2       5.5       6.9       14.2       8.6       11.6       8.8       11.2         RATIC       0.723       0.526       0.381       0.896       0.419       0.946       0.755       0.648         CORDLOGICAL SITE       DI RT IC       0.723       0.526       0.381       0.896       0.419       0.946       0.755       0.648         WORCESTER       VEL (MPH)       8.2       2.2       2.7       5.9       0.449       2.70       230         WORCESTER       VEL (MPH)       8.2       2.2       2.7       5.9       0.4       8.0       3.7         RATIC       0.818       0.697       0.606       0.9339       0.123       0.902       0.695       0.695                                                                                                                                                                                     | N NAME S              | ITE SAMPLES  | ¢        | 24        | ę        | থ         | ល           | Q     | 2       | ß        | o,          | 01         |
| BRIDGEPORT VEL (MPH) 6.7 2.9 2.6 12.8 3.6 10.3 7.8 6.6 7.3<br>SPD (MPH) 9.2 5.5 6.9 14.2 8.6 11.6 8.2 8.8 11.2<br>RATIC 0.723 0.526 0.381 0.896 0.419 0.889 0.946 0.755 0.648<br>CORDLOGICAL SITE DIR (DEG) 310 200 290 60 300 260 250 220 230<br>WORCESTER VEL (MPH) 8.2 2.2 2.7 5.9 0.4 8.2 6.2 8.0 3.7<br>RATIC 0.818 0.697 0.606 0.939 0.123 0.978 0.902 0.625 0.695                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EOROLOGICAL SITE      | DIR (DEG)    | 320      | 340       | 220      | 70        | 340         | 240   | 210     | 170      | 240         | 210        |
| SPD (MPH)       9.2       5.5       6.9       14.2       8.6       11.6       8.2       8.8       11.2         RATIC       0.723       0.526       0.381       0.896       0.419       0.888       0.755       0.648         FORDLOGICAL SITE       DIR (DEG)       310       200       290       60       300       260       220       230         WORCESTER VEL (MPH)       8.2       2.2       2.7       5.9       0.4       8.2       6.2       8.0       3.7         WORCESTER VEL (MPH)       8.2       2.2       2.7       5.9       0.4       8.2       6.2       8.0       3.7         RATIC       0.818       0.697       0.606       0.939       0.123       0.978       0.929       0.695                                                                                                                                                                                                                                                                                                                                                                                                                                                     | BRIDGEPOR             | IT VEL (MPH) | 6.1      | 2.9       | 2.6      | 12.8      | <b>з.</b> б | 10.3  | 7.8     | 6.6      | 5.7         | 4 . G      |
| RATIC       0.723       0.526       0.381       0.896       0.419       0.888       0.755       0.648         EORDLDGICAL SITE DIR (DEG)       310       200       290       60       300       260       220       230         WORCESTER VEL (MPH)       8.2       2.2       2.7       5.9       0.4       8.2       6.2       8.0       3.7         NORCESTER VEL (MPH)       8.2       2.2       2.7       5.9       0.4       8.2       6.2       8.0       3.7         RATIC       0.818       0.697       0.6123       3.4       8.3       6.9       8.6       5.3                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                       | SPD (MPH)    | 9.2      | ບ.ບ<br>ເ  | 6,9      | 14.2      | 8.6         | 11.6  | 8.2     | 8.8      | 11.2        | 6.0        |
| EORDLGGICAL SITE DIR (DEG) 310 200 290 60 300 260 250 230<br>Worcester vel (MPH) 8.2 2.2 2.7 5.9 0.4 8.2 6.2 8.0 3.7<br>SPD (MPH) 10.1 3.2 4.5 6.3 3.4 8.3 6.9 8.6 5.3<br>RATIC 0.818 0.697 0.606 0.939 0.123 0.978 0.902 0.529 0.695                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | RATIC        | 0.723    | 0.526     | 0.381    | 0.896     | 0.419       | 0.888 | 0.946   | 0.755    | 0.648       | 0.767      |
| WORCESTER VEL (MPH) 8.2 2.2 2.7 5.9 0.4 8.2 6.2 8.0 3.7<br>SPD (MPH) 10.1 3.2 4.5 6.3 3.4 8.3 6.9 8.6 5.3<br>RATIC 0.818 0.697 0.606 0.939 0.123 0.978 0.902 0.629 0.695                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | EORDLOGICAL SITE      | DIR (DEG)    | 310      | 200       | 290      | 60        | 300         | 260   | 250     | 220      | 230         | 270        |
| SPD (MPH) 10.1 3.2 4.5 6.3 3.4 8.3 6.9 8.6 5.3<br>RATIC 0.818 0.697 0.606 0.939 0.123 0.978 0.902 0.929 0.695                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | WORCESTE              | ER VEL (MPH) | 8.2      | 2.2       | 2.7      | 5.9       | 0.4         | 8.2   | 6.2     | 8.0      | 3.7         | 0°0        |
| RATIC 0.818 0.697 0.606 0.939 0.123 0.978 0.902 0.625                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                       | SPD (MPH)    | 10.1     | 3.2       | 4.5      | 6.3       | 3.4         | 8.3   | 6.9     | 8.6      | 5.3         | 7.6        |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                       | RATIC        | 0.818    | 0.697     | 0.606    | 0.939     | 0.123       | 0.978 | 0.902   | 0.929    | 0.695       | 0.910      |

### Conclusions:

The eight-hour National Ambient Air Quality Standard of 9 parts per million (ppm) was exceeded at four of the five carbon monoxide monitoring sites in Connecticut during 1980. These sites were: Hartford 012, New Britain 002, New Haven 007, and Stamford 020. The number of times that the 8-hour standard was exceeded ranged from one time at the Hartford 012 site to 241 times at the Stamford 020 site. No site except Stamford 020 violated the one-hour standard of 35 ppm. The one-hour standard was exceeded two times at the Stamford 020 site in 1980.

A definite decrease in carbon monoxide levels took place between 1979 and 1980.

In order to put the monitoring data into proper perspective, it must be realized that carbon monoxide concentrations vary greatly from place-to-place. More than 95% of the CO emissions in Connecticut come from motor vehicles, so concentrations are greatest in areas of traffic congestion. The magnitude and frequency of high concentrations observed at any monitoring site are not necessarily indicative of widespread CO levels. Thus, most locations in New Britain and Stamford are probably not experiencing CO levels as high as those observed at the monitoring sites in those towns. On the other hand, there are probably locations in Bridgeport, Hartford, and New Haven where CO levels are higher than those observed in the monitoring sites in those towns. The CO standards are likely to be exceeded in any city in the Stte where there are areas of traffic congestion. As Federally-mandated controls reduce emissions from new motor vehicles and as Connecticut's SIP control strategies are implemented, there should continue to be a decrease in the number of such areas; and the remaining areas should be shrinking in territory and have levels which are less in excess of the standards.

### Method of Measurement:

The DEP Air Monitoring Unit uses instruments employing a non-dispersive infrared technique to continuously measure carbon monoxide levels. The instantaneous concentrations are recorded on strip charts from which hourly averages are extracted. The instruments are fairly insensitive to sampling line length. Concentrations vary dramatically with inlet exposure and proximity to traffic lanes.

#### Discussion of Data:

<u>Monitoring Network</u> - The network in 1980 consisted of five carbon monoxide monitors. They are all located in urban areas. All sites are located west of the Connecticut River, with three of them in coastal towns (see Figure 8). <u>8-Hour and 1-Hour Averages</u> - CO levels recorded during 180 were lower overall than those measured during 1979. However, all sites except Bridgeport 004 still exceeded the primary 8-hour standard of 9 ppm. Two sites showed an increase of the maximum 8-hour level from 1979 to 1980. They were New Britain 002 and New Haven 007. This pattern was also evident with the maximum 1-hour levels, though the 1-hour standard of 35 ppm was exceeded at only one site, Stamford 020. The second highest 8-hour ozone levels rose from 1979 at all stations except Hartford 012. The standard was still exceeded at Hartford 012, New Britain 002, and Stamford 020. The second highest 1-hour levels decreased at three sites from last year and they were far below the 1-hour standard with the exception of Stamford 020 (see Table 25).

Table 26 presents monthly first highs and a tally of the number of times the standards were exceeded at each site. Seasonal variations in CO levels can be observed using this table.

<u>10-High Days with Wind Data</u> - Table 27 lists the maximum 1-hour CO averages with dates of occurrence, for the 10-highest days at each CO site in Connecticut for 1980. The wind data associated with these high readings are also presented. (See the discussion of Table 12 in the TSP section for a description of the origin and use of these wind data.)

At all five CO sites in Connecticut, the high CO levels tend to occur when the winds in the region are southwesterly. Low atmospheric mixing heights and other meteorological conditions may be part of the reason CO levels are high on southwest wind days, but in this case another explanation appears more viable. A noteworthy feature of the high CO days is that the winds tend to be more persistent from all directions than on the high days for the other pollutants. Since 95% of the CO emissions in Connecticut come from motor vehicles, it is likely that the high CO levels are caused when persistent winds as blowing CO emissions from the direction of nearby roads toward the monitors. Such appears to be the case especially with the Stamford 020 site, where the most heavily traveled roads are to the southwest of the monitors.

Another feature of the high CO days is that rarely does more than one site record a high level on the same day. There were only two days in 1980 when CO levels were relatively high across the state, February 21 and November 21. This is opposite of the behavior exhibited by all the other pollutants and it demonstrates that high levels of CO are much more dependent on local effects than are the other pollutants.



TABLE 25

# 1980 CARBON MONOXIDE STANDARDS ASSESSMENT SUMMARY, UNITIS = PPM

| TOWN-STTE       | Maximum<br>8-hour<br>Average | TIME <sup>1</sup> OF<br>MAXIMUM<br><u>8-HOUR</u> | ZND HIGH<br>8-HOUR<br>AVERAGE | TIME <sup>1</sup> OF<br>2ND HIGH<br>8-HOUR | MAXIMUM<br>1-HOUR<br>AVERAGE | TIME <sup>2</sup> OF<br>MAXIMUM<br><u>1-HOUR</u> | ZND HIGH<br>1-HOUR<br>AVERAGE | TIME <sup>2</sup> OF<br>ZND HIGH<br><u>1-HOUR</u> |
|-----------------|------------------------------|--------------------------------------------------|-------------------------------|--------------------------------------------|------------------------------|--------------------------------------------------|-------------------------------|---------------------------------------------------|
| Bridgeport-Ø04  | 8°5                          | 11/21/03                                         | 8°2                           | 12/08/14                                   | 14.8                         | 2/21/09                                          | <b>13 5</b>                   | 11/21/00                                          |
| Hartford-Ø12    | 9°2                          | 5/23/22                                          | 9.2                           | 11/21/22                                   | 13,9                         | 6/20/24                                          | 13 <i>.</i> 0                 | 5/10/24                                           |
| New Britain-002 | 11 <b>.</b> 5                | 12/23/21                                         | 1Ø.3                          | 2/21/14                                    | 18,8                         | 2/21/08                                          | 17 °Ø                         | 11/12/LL                                          |
| New Haven-007   | 9°1                          | 11/21/03                                         | 8.7                           | 11/12/11                                   | 18,6                         | 11/21/09                                         | 18.6                          | 12/08/08                                          |
| Stamford-020    | 25 <b>.</b> Ø                | 1/08/19                                          | 21.9                          | 1/03/19                                    | 36.0                         | 1/3/17                                           | 36.0                          | 2/20/09                                           |
|                 |                              |                                                  |                               |                                            |                              |                                                  |                               |                                                   |

- Time of 8-hour averages is reported as follows: month/day/hour (EST), specifying the end of the 8-hour average period Ч
  - Time of 1-hour averages is reported as follows: month/day/hour (EST), specifying the end of the 1-hour average period 2

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TABLE 26

1986 CARBON MONOXIDE SEASONALI FEATURES, UNITIS = PPM

| TOWN-SITE       |                        | JAN.           | ° समय          | MAR.                  | APR.         | YAY                       | JUNE          | JULY         | AUG.           | SEPT            | oct.         | NOV.           | DEC.           | NUMBER<br>OF TIMES<br>STANDARD<br>EXCEEDED |
|-----------------|------------------------|----------------|----------------|-----------------------|--------------|---------------------------|---------------|--------------|----------------|-----------------|--------------|----------------|----------------|--------------------------------------------|
| Bridgeport-ØØ4  | Max-l Hr.<br>Max-8 Hr. | ອີ<br>ອີ<br>ອີ | 14.8<br>7.7    | 7 °0<br>4 °5          | 5.6<br>4.0   | 3°8<br>2°3                | а.<br>Ф. В.   | 5.3<br>4.1   | 6.8<br>4.1     | 6 °0<br>9       | ວ ບ<br>ອິສ   | 13 5<br>8 5    | 11.3<br>8.2    | 00                                         |
| Hartford-Ø12    | Max-1 Hr.<br>Max-8 Hr. | 9.5<br>7.6     | 12.5<br>7.9    | 13.0<br>6.1           | 4.8<br>8     | 13.3<br>9.2               | 13.9<br>7.9   | 9.9<br>0.0   | 10°7<br>4.9    | 11.7<br>5.3     | 11.4<br>5.7  | 12.7<br>9.2    | 10°4<br>8°8    | ßr                                         |
| New Britain-002 | Max-l Hr.<br>Max-8 Hr. |                | 18°8<br>10°3   | 12.6<br>6.0           | 6.4<br>4.9   | 7 °2<br>5 °3              | 13.3<br>7.3   | ла.<br>5.3   | 5°1            | ດ<br>ມູກ        | 16.Ø<br>7.9  | 17 °Ø<br>9 °8  | 16 .4<br>11 .5 | 00                                         |
| New Haven-007   | Max-l Hr.<br>Max-8 Hr. |                | 0°0<br>* *     | 3°8*<br>1°8*          | 4°4<br>2.8   | 4°0<br>50                 | പ<br>പ്പ<br>പ | 2.3<br>3     | ບູ<br>ຕູ       | ບ<br>ອິດ<br>ອິດ | 18.1<br>7.2  | 18°6<br>9°1    | 18.6<br>7.7    | ØL                                         |
| Stamford-020    | Max-1 Hr.<br>Max-8 Hr. | 36 °B<br>25 °B | 36 °Ø<br>17 °3 | 28 <b>.</b> 1<br>17.2 | 22.Ø<br>13.6 | 25°7<br>19 <sub>°</sub> 1 | 23.1<br>13.3  | 20°2<br>12°5 | 24 °5<br>18 °1 | 21.4<br>12.8    | 18.7<br>13.2 | 26 .9<br>13 .4 | 26.0<br>19.9   | 2<br>241                                   |
|                 |                        |                |                |                       |              |                           |               |              |                |                 |              |                |                |                                            |

\* < 75% of Data Available

| ONNECTICUT DEPARTMENT OF ENV   | I ROMENTAL         | PROTECTIC                                                                                        | Z                 |                  | PAGE             | শ্ব                |                     |                                                                                                   | AIR COMF       | LIANCE EN                  | GINEEĤING             |     |
|--------------------------------|--------------------|--------------------------------------------------------------------------------------------------|-------------------|------------------|------------------|--------------------|---------------------|---------------------------------------------------------------------------------------------------|----------------|----------------------------|-----------------------|-----|
| OLLUTANTCARBON MONOXIDE        |                    | 1980 TEN                                                                                         | HIGHEST 1         | HR AVG C         | DAYS 181         | G CNIM HL          | ATA                 |                                                                                                   | : SIINN        | PARTS PER                  | 照I:LION               |     |
| TOWN NAME SI                   | TE SAMPLES         | <del>, -</del>                                                                                   | а                 | m                | 4                | ហ                  | υ                   | 7                                                                                                 | ß              | ດ                          | 10                    |     |
| BRIDGEPORT                     | 4 <u>35</u> 4      | 14.8                                                                                             | 13 <b>.</b> 5     | 11.8             | ++<br>++<br>•    | <del>د</del><br>د  | c<br>o              | c<br>o                                                                                            | Ċ              | c<br>c                     | r<br>C                |     |
| METEDBOLOGICAL SITE            | DATE<br>DATE       | 2/21/80                                                                                          | 11/21/80          | 11/20/80         | 12/24/80         | 12/ 8/80           | 9/29/80             | 2/19/80                                                                                           | 10/8/80        | 10/ 3/80                   | 2/20/80               |     |
|                                | VEI (050)          | 0<br>0<br>0<br>0<br>0<br>0                                                                       | 270               | 270              | 270              | 220                | 50                  | 220                                                                                               | 210            | 360                        | 70                    |     |
|                                | SPD (MPH)          | ი.<br>ი. თ                                                                                       | ເມ                | , c<br>, c       | 40<br>000        | ຫ<br>ດ<br>ເ        | •••<br>•••<br>•••   | ក<br>ភេះ                                                                                          | 7.8            | 8<br>9<br>9                | 1.6                   |     |
|                                | RATIC              | 0.693                                                                                            | 0.880             | 0.906            | 0.511            | 0.966              | 0.860               | 1.<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2<br>2 | ດ<br>ດີດ<br>ດີ | 6.9<br>10.0                | 4.7                   |     |
| METEORULOGICAL SITE<br>READIEY | DIR (DEG)          | 330<br>230                                                                                       | 180               | 210              | 310              | 180                | 04                  | 200                                                                                               | 200            | - 10                       | 500<br>10             |     |
| UK TO LU                       | SPD (MPH)          | ם ר<br>ים                                                                                        | () (<br>()        | 0, 0<br>0, 0     | ທ.<br>ເ          | 4.9                | 1.0                 | 10.1                                                                                              | 7.1            | 3.4                        | 1.1                   |     |
|                                | RATIC              | 0.905                                                                                            | 2.99.0            | 0, 801           | 0.10.10          | 0.4<br>00<br>00    | 0 - 1<br>0 - 1<br>0 | 10.8                                                                                              | 7.2            | 4 I<br>0 0                 | 2.0                   |     |
| METEOROLOGICAL SITE            | DIR (DEG)          | 320                                                                                              | 270               | 260              | 260              | 230                | 001-0<br>081-0      | 0.000<br>0.000<br>0.000                                                                           | 0.9955         | C.782<br>260               | 0.544                 |     |
| BRIDGEPORT                     | VEL (MPH)          | 6.7                                                                                              | 5.2               | 8.3              | 6.0              | 3.0                | 14.6                | )<br>ດ<br>ເດ                                                                                      | 11.0           | 300                        | 2 60                  |     |
|                                | CPD (MPH)          | ດ<br>ເ<br>ເ<br>ເ                                                                                 | 6.8               | ຕ<br>ອີ          | 7.2              | з.о                | 16.8                | 10.9                                                                                              | 12.9           | 10.1                       | 0.4                   |     |
| METEOROLOGICAL SITE            | DIP (DEC)          | 0.723<br>310                                                                                     | 0.769             | 068.0.           | 0.831            | 1.000              | 0.868               | 0.905                                                                                             | 0.853          | 0.756                      | 0.529                 |     |
| WORCESTER                      | VFL (MPH)          | ο<br>2 α                                                                                         | ז ע<br>ל<br>ס כ   | 2 4              | 0/1              | 240                | 80                  | 250                                                                                               | 220            | 50                         | 80                    |     |
|                                | SPD (MPH)          | 10.1                                                                                             |                   | t (C -           | n 0<br>          | c<br>5- 0          | ຕິ<br>ເ             |                                                                                                   | 0.<br>         | 0.5<br>1.5                 | 0                     |     |
|                                | RATIC              | 0.818                                                                                            | 0.824             | 0.965            | 0.945            | 0.976              | 0.668               | 0.969                                                                                             | 8.6<br>0.942   | 4.2<br>0.779               | 4.7<br>0.116          |     |
| HARTFORD                       | 10 359             | 0<br>7                                                                                           | (<br>()<br>()     | (<br>)<br>)      |                  | 1                  |                     |                                                                                                   |                |                            |                       |     |
|                                | DATE               | 6/20/80                                                                                          | 5/10/R0           | 3/10/80          | 12.7             | 12.5               | 12.3                | 12.0                                                                                              | 11.7           | 11.6                       | 4-1-4                 | Т   |
| METEOROLOGICAL SITE            | DIR (DEG)          | 260                                                                                              | 210               | 130              | 270              | 300                | 11/ 5/80<br>310     | 3/20/80                                                                                           | 9/29/80        | 5/23/80                    | 10/ 8/80              | ab  |
| NEWARK                         | VEL (MPH)          | 0<br>0<br>0                                                                                      | 9.2               | 5.9              | 5.7              | 6.5                | 11.6                | . n<br>. n                                                                                        | 9.1<br>1.1     | 0<br>0<br>0<br>0<br>0<br>0 | γ<br>Σ<br>Ω           | le  |
|                                | UPATO              | 0<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1<br>1 | 4.1.0             | 0.0<br>0.0       | 6.5<br>1         | с.<br>о            | 12.9                | 7.9                                                                                               | 10.6           | 9.6                        | ູ່                    | : 2 |
| METEOROLOGICAL SITE            | DIR (DEG)          | 1000                                                                                             | 0-0-0             | 0.00<br>0        | 0.880            | 0.693              | 0.899               | 0.713                                                                                             | 0.360          | 0.866                      | 0.919                 | 27  |
| BRADLEY                        | VEL (MPH)          | 1 00<br>2 4                                                                                      | 20                | - ת<br>סע        | ວລ<br>ເ          | 020                | , ato               | 190                                                                                               | 40             | 320                        | 200                   |     |
|                                | SPD (MPH)          | 10.9                                                                                             | 7.9               | 0.9<br>9.9       | າ ຕ<br>າ ເນ      |                    | 11.9                | а<br>С.С.                                                                                         | - u            | ດ<br>ຕໍ່ມ                  |                       |     |
| METEODOLOCION, CITT            | RATIC<br>Bib (250) | 0.766                                                                                            | 0.654             | 0.823            | 0.997            | 0.905              | 0.862               | 0.974                                                                                             | 0.156          | 0.571                      | 1<br>1<br>0<br>1<br>0 |     |
|                                |                    | 7 17<br>0 0                                                                                      | 230               | 120              | 270              | 320                | 290                 | 170                                                                                               | 80             | 240                        | 210                   |     |
|                                | SPD (WPH)          | 0 0<br>                                                                                          | 5.01              | ກ<br>ດີ          |                  | 6.7                | 14.7                | 5.4                                                                                               | 14.6           | 8.8                        | 11.0                  |     |
|                                | RATIC              | 0.586                                                                                            | 0.750             | 0.0<br>6.5<br>0  | 0 1 C            | N 0<br>0<br>0<br>0 | 15.1                | 0.0<br>0.0                                                                                        | 16.8           | 9.6                        | 12.9                  |     |
| METEOROLOGICAL SITE            | DIR (DEG)          | 190                                                                                              | 270               | 210              | 240              | 010                | 0/0.0               | 0.607                                                                                             | 0.868<br>00    | 0.010                      | 0.853                 |     |
| WORCESTER                      | VEL (MPH)          | 4.7                                                                                              | 8.4               | 6.3              | 5.7              | 6.8                |                     | ο<br>1<br>1<br>1<br>1<br>1<br>1                                                                   | 0<br>0<br>7    | )<br>)<br>)                |                       |     |
|                                | SPD (MPH)          | 7.3                                                                                              | 9.1               | 7.2              | 6.9              | 10.1               | 12.2                | 0.7                                                                                               | οα             | ດ<br>- ແ                   | - u<br>0 0            |     |
|                                | RATIC              | 0.644                                                                                            | 0.931             | 0.873            | <b>C.</b> 824    | 0.818              | 0.922               | 0.961                                                                                             | 0.668          | 0.286                      | 0.942                 |     |
| NEW BRITAIN                    | 2 326              | 8<br>8<br>8                                                                                      | C 4 F             | 5<br>5<br>7      | (<br>()<br>()    | 0                  |                     | 1                                                                                                 |                |                            | 1                     |     |
|                                | DATE               | 2/21/80                                                                                          | 11/21/80          | 12/16/80         | 12/ 1/80         | 16.0<br>10/ 8/80   | 15.2<br>12/10/80    | 15.0                                                                                              | 15.0           | 14.4                       | 13.9                  |     |
| METEORDLOGICAL SITE            | DIR (DEG)          | 300                                                                                              | 270               | 20               | 240              | 210                | 320                 | 1 < / 29/00                                                                                       | 11/20/80       | 12/23/80 1                 | 12/24/80              |     |
| NEWARK                         | VEL (MPH)          | ທີ່<br>ທີ່                                                                                       | 5.7               | 11.3             | 7.5              | 7.8                | 10.8                | 13.9                                                                                              | , 0<br>0       | , -<br>5<br>8              | 2.00<br>2.00          |     |
|                                |                    | ກ<br>ເ<br>ກີ                                                                                     | ທຸ<br>ທີ່<br>ເ    | 11.6             | ດ.<br>ອ          | 8.5<br>2           | 14.7                | 13.9                                                                                              | 7.6            | 6.9                        | 1 (1)<br>- (7)        |     |
| METEOROLOGICAL SITE            | DIR (DEG)          | 0.093                                                                                            | 0.880             | 0.967            | 0.879            | 0.919<br>220       | 0.734               | 0.99G                                                                                             | 0.906          | 0.261                      | 0.511                 |     |
| BRADLEY                        | VEL (MPH)          | 6.8<br>0                                                                                         | 2 0<br>2 0<br>7 0 | 0<br>0<br>0<br>0 | ס מ<br>ח<br>ע וי | <br>               |                     | 2 20                                                                                              | 210            | 150                        | 310                   |     |
|                                | (HdW) Ods          | 7.5                                                                                              | 5<br>0<br>0       | 0<br>0<br>0      |                  |                    | ο.<br>              | - c<br>                                                                                           | 20 ×<br>1 v v  |                            | ນ.<br>ເ               |     |
|                                | RATIC              | 0.905                                                                                            | 0.997             | 0.935            | 0.747            | 0.995              | 0.656               | 0.985                                                                                             | 0.801          | 0,996                      | 1 t t C               |     |
|                                |                    |                                                                                                  |                   |                  |                  |                    |                     |                                                                                                   |                | +                          | - ) )                 |     |

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| CONNECTICUT DEPARTME | ENT OF ENVI             | ROMENTAL PI                                  | ROTECTION                                                                                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| TOWN NAME            | SIT                     | E SAMPLES                                    | <b></b> .                                                                                   | Ň                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| METEOROLOG           | ICAL SITE<br>BRIDGEPORT | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)          | 320<br>9.70<br>7.20<br>7.20                                                                 | 270<br>5.2<br>750<br>750                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| METEORDLOG           | ICAL SITE<br>WORCESTER  | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC | 0 10.12<br>0 10.12<br>0 818<br>0 818                                                        | 0.82.9<br>82.40<br>82.40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 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| NEW HAVEN            |                         | 7 294                                        | 18.6                                                                                        | 18.6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| METEOROLOG           | ICAL SITE<br>NEWARK     | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)          | 2/ 8/80 1<br>220<br>9.9                                                                     | 270<br>270<br>5.7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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|
| METEOROLOG           | ICAL SITE               | RATIC<br>DIR (DEG)                           | 0.966                                                                                       | 0.880                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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|                      | BRADLEY                 | VEL (MPH)<br>SPD (MPH)<br>Patto              | 0.44<br>0.40<br>0.0                                                                         | 2.3<br>2.3<br>001                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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| METEOROLOG           | ICAL SITE<br>BRIDGEPORT | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)          | 00000000000000000000000000000000000000                                                      | 02.20<br>20.50<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80<br>20.80 | 2 2 2 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                                                                      | 12.5<br>12.5                                                                         | 200<br>10.9<br>11.8                                                              | - 200<br>- 200<br>- 3<br>- 3<br>- 3<br>- 3<br>- 3<br>- 3<br>- 3<br>- 3<br>- 3<br>- 3                                     | 200<br>200<br>10.1<br>0<br>10.1                                                             | 0<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>4<br>6<br>4<br>6<br>4<br>8<br>6<br>6<br>6<br>6<br>6 |                                                                                             | - 0 0 0<br>0 - 0 0<br>0 - 0 0<br>0 - 0<br>0<br>0 - 0<br>0 - 0<br>0<br>0 - 0<br>0<br>0 - 0<br>0<br>0<br>0 - 0<br>0<br>0 - 0<br>0<br>0<br>0                                                  |
| METEOROLOG           | ICAL SITE<br>WORCESTER  | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC | 0.9240<br>9.9                                                                               | 0.824<br>0.824<br>0.824                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.942                                                                                                                        | 0.843<br>0.843                                                                       | 0.675                                                                            | 0.965                                                                                                                    | 0.692<br>0.692                                                                              | ດ.<br>ຊາຍ<br>ດີດ.<br>ດີດ<br>ດີດ<br>ດີດ<br>ດີດ<br>ດີດ<br>ດີດ<br>ດີດ<br>ດີດ<br>ດີ                       | 0.735                                                                                       | 0.04<br>0.04<br>0.04<br>0.04<br>0.04<br>0.04<br>0.04<br>0.04                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| STAMFORD             |                         | 20 354<br>DATE                               | 36.0<br>1/ 3/80                                                                             | 36.0<br>270780                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 35.5<br>3/14/80                                                                                                              | 34.8<br>1/0/20                                                                       | 34.7<br>1/25/00                                                                  | 34.0                                                                                                                     | 32.0                                                                                        | 31.6                                                                                                  | 30.0<br>1/18/00                                                                             | 28.7<br>1/73/00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| METEOROLOG           | ICAL SITE<br>NEWARK     | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)          |                                                                                             | 2, 20, 00<br>1.6<br>7.7<br>7.6<br>7.7<br>70<br>7.7<br>70<br>7.0<br>7                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 2560<br>10.55<br>851<br>851<br>851<br>851<br>851<br>851<br>851<br>851<br>851<br>8                                            | 280<br>280<br>8,3<br>8,3<br>0 000                                                    | 260<br>260<br>7.9<br>7.9<br>7.9<br>7.9<br>7.9<br>7.9<br>7.9<br>7.9<br>7.9<br>7.9 | x/x/<br>300<br>6.5<br>6.5<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 270<br>270<br>16.5<br>2066                                                                  | 270<br>270<br>12.3                                                                                    | -/-0/0/<br>5.50<br>6.0<br>8.0                                                               | 1.7<br>1.00<br>1.1.7<br>1.4.00<br>1.4.00                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| METEDROLOG           | ICAL SITE<br>BRADLEY    | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)          | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| METEOROLOG           | ICAL SITE<br>BRIDGEPORT | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)          | 11.50<br>11.50<br>0.50<br>0.50<br>0.50<br>0.50                                              | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 0004<br>0004<br>0014                                                                                                         | ະດຸດ ໜູ -<br>ດີດ ເບັດ<br>ເບັດ ຫຼັງ<br>ເບັດ ຫຼັງ<br>ເບັດ ຫຼັງ<br>ເບັດ ຫຼັງ            | 6 4 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0                                        | 00000000000000000000000000000000000000                                                                                   | 2010<br>2010<br>2011<br>2011<br>2011                                                        | 1000<br>10100<br>101100                                                                               | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| MET EOROLOG          | IICAL SITE<br>WORCESTER | DIR (DEG)<br>VEL (MPH)<br>SPD (MPH)<br>RATIC | 0<br>9<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0                     | 0.5<br>0.5<br>0.16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 0 88 9<br>6 8 9<br>7 1<br>6 8<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7<br>7 | 270<br>7.1<br>7.3<br>0.967                                                           | 0,994<br>0,99<br>0,994<br>0,994                                                  | 0.310<br>8.2<br>8.2<br>8.3<br>8.3<br>8.8                                                                                 | 0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0<br>0 | 0.972<br>280<br>11.9<br>0.986                                                                         | 0.318<br>1.40<br>1.40<br>1.40<br>1.40<br>1.40<br>1.40<br>1.40<br>1.40                       | 0.200<br>2000<br>2003<br>2000<br>2000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

### <u>Conclusions:</u>

The National Ambient Air Quality Standard (NAAQS) for lead is  $1.5 \text{ ug/m}^3$  per calendar quarter average. It was not exceeded at any site in Connecticut during 1980, down from seven sites in 1979.

A definite downward trend in measured concentrations of lead has been noted since 1978.

The monitoring sites where the lead standard was approached were generally in urban locations in areas of moderate to heavy traffic. In Connecticut, the primary source of lead concentrations in the atmosphere is emission from the combustion of leaded gasoline in motor vehicles. Atmospheric concentrations of lead should continue to decline as use of unleaded gasoline continues.

### Sample Collection and Analysis:

The Air Monitoring Unit uses hi-vol and lo-vol samplers to obtain ambient concentrations of lead. These samplers are used to collect particulate matter onto fiberglass filters. The particulate matter collected on the filters is subsequently analyzed for its chemical composition. Wet chemistry techniques are used to separate the particulate matter into various components. The lead content of the TSP is determined using an atomic absorption spectrophotometer. (The use of these sampling devices and the chemical analysis techniques were fully described in the TSP section.)

### Discussion of Data:

<u>Monitoring Network</u> - In 1980, both hi-vol and lo-vol samplers were operated in Connecticut (see Figure 4). Because the Federal EPA does not recognize the lo-vol instrument as an equivalent to the reference (hi-vol) method of sampling for lead, only hi-vol data are analyzed for compliance with NAAQS.

<u>NAAOS</u> - On October 5, 1978, the EPA established an ambient air quality standard for lead of 1.5  $ug/m^3$  for a calendar quarter-year average. The standard is attained only if the quarterly averages of all four calendar quarters in a year do not exceed 1.5  $ug/m^3$ .

Quarterly Averages - The calendar quarter lead standard was not exceeded at any site in 1980, seven less than in 1979. Quarterly and annual averages for lead in 1980 are presented in Table 28. The maximum quarterly lead level was lower in 1980 than in 1979 at thirty-one of the thirty-two paired hi-vol sites where the minimum EPA sampling criteria were met. At twenty-three of these sites the decrease exceeded 0.5  $ug/m^3$ . The maximum quarterly lead level increased at only one site from 1979 to 1980. The increase amounted to 0.01  $ug/m^3$ . Annual average lead concentrations decreased at thirty-two sites and increased at no sites from 1979 to 1980. The quarterly and the annual average lead (Pb) levels for 1980 can be found in Table 28.

### TABLE 28

# 1980 OUARTERLY AND ANNUAL AVERAGE LEAD (Pb) LEVELS BY SITE, ug/m3)

|             |                   | OUAR                  | TERLY A      | VERAGES          | 1            | 2                           |
|-------------|-------------------|-----------------------|--------------|------------------|--------------|-----------------------------|
| TOWN        | SITE              | <u>151</u>            | 2ND          | _3RD_            | <u>4TH</u>   | ANNUAL AVERAGE <sup>2</sup> |
| B           | 883               | Ø 93                  | a 5a         | 0.53             | Ø.58*        | Ø.64                        |
| Ansonia     | 200               | 0.22                  | a 10         | Ø 19             | Ø.20         | 0.20                        |
| Berlin      | 2001              | 0°22                  | Ø 70*        | Ø 73*            | a_37*        | Ø.63*                       |
| Bridgeport  | 102               | 0.02                  | 0°70         | a 7a             | Ø . 56       | Ø.74                        |
| Bridgeport  | 140               | 0.90                  | Ø A A        | 0.70             | Ø 34         | Ø.39                        |
| Bristol     | 44J<br>700        | Ø.50<br>0 10          | N° 4.45      | 0.15             | Ø 12         | 0.14                        |
| Burlington  | 100               | 0°10                  | 0°72<br>0°72 | 0.10             | 0.51         | <i>0</i> .51                |
| Danbury     | 123               | Ø.03                  | 0.01<br>0.01 | 10°40<br>11 21   | 0.07         | <u> </u>                    |
| Enfield     | 123               | 0.45                  | 0.20         | Ø . 34<br>Ø . 30 | 0°70<br>0°70 | Ø 26                        |
| Greenwich   | 004               | 0.32                  | 0.23         | Ø.29<br>Ø.EC     | 0.40<br>0.45 | 0 50                        |
| Greenwich   | 800               | 0.58                  | 0.42         | Ø.50             | Ø.40<br>Ø.10 | 0.30<br>0.30                |
| Haddam      | ØØ2               | 0.21                  | 0.17         | 0.21             | 0.19         | Ø 50                        |
| Hartford    | ØØ3               | 0.69                  | 0.50         | 0.54             | 0.01         | Ø.58                        |
| Hartford    | 123               | Ø.67                  | Ø.51         | 0.53             | 0.65         | Ø.59<br>4 10                |
| Morris      | ØØl               | Ø.25                  | 0.16         | Ø.18             | 0.15         | Ø.18<br>a.2r                |
| Manchester  | ØØl               | Ø.39                  | Ø.27         | 0.34             | 0.42         | Ø.35                        |
| Meriden     | ØØ2               | Ø.68                  | Ø.46         | Ø.49             | Ø.49         | 0.53                        |
| Meriden     | ØØ5               | Ø.58                  | Ø.38         | Ø.37             | 0.44*        | 0.44                        |
| Middletown  | ØØ3               | Ø.59                  | Ø.42         | Ø.49             | Ø.52         | 0.50                        |
| Milford     | ØØ2               | Ø.61                  | Ø.34         | Ø.44             | Ø.33         | Ø.43                        |
| Naugatuck   | ØØl               | Ø.79                  | Ø.39         | Ø.49             | Ø.58         | Ø.56                        |
| New Britain | 123               | 0.60                  | 0.40         | Ø.46             | Ø.47         | Ø.48                        |
| New Haven   | ØØ2               | · Ø.95                | 0.60         | Ø.73             | Ø.68         | Ø.73                        |
| New Haven   | 123               | Ø.72*                 | Ø.8Ø*        | Ø.77*            | 0.70*        | Ø.75*                       |
| Norwalk     | 005               | Ø.78                  | 0.52         | Ø.59             | Ø.54         | Ø.6Ø                        |
| Norwich     | 001               | Ø.51                  | Ø.26         | Ø.3Ø             | Ø.32         | Ø.34                        |
| Stamford    | ØØ7               | Ø.72                  | 0.35         | Ø.47             | Ø.37         | Ø.47                        |
| Stamford    | 123               | 0.50                  | 0.49         | Ø.52             | Ø.46         | Ø.49                        |
| Stratford   | aa5               | 0.80                  | 0.47         | 0.58             | 0.47         | Ø.59                        |
| Torrington  | 123               | 0.68                  | Ø.41         | 0.46             | Ø.59         | Ø.53                        |
| Voluptor    | ลิตา              | Ø 12                  | 0.10         | Ø.11             | 0.08         | Ø.10                        |
| Wollingford | 001               | Ø.65                  | Ø.39         | 0.47             | 0.50*        | Ø.5Ø                        |
| Watthytotu  | 002               | Ø.67                  | Ø 41         | 0.44             | 0.51         | Ø.5Ø                        |
| Waterbury   | 102               | 1 17*                 | ด_จิต*       | 0.75*            | 0.85*        | Ø.91*                       |
| Waterbury   | <i>ጉድጋ</i><br>በለበ | <u>л</u> ал/<br>07 15 | a.15         | Ø.25             | 0.12         | Ø.17                        |
| wateriord   | 40 J              | Ø AE                  | 0 23         | n 22             | Ø 32         | Ø.33                        |
| WILLIMANTIC | 200 Z             | N°40                  | 10040        | NoJa             | N 6 J G      | Car Bi ann ann              |

Weighted average based on number of filters analyzed in each month.
Weighted average based on number of filters analyzed in each quarter.
\* Less than 75% of possible data

### VIII. CLIMATOLOGICAL DATA

Weather is often the most significant factor influencing short-term changes in air quality and also has an affect on long-term trends. Shown in Table 29 is climatological information from the National Weather Service Station at Bradley International Airport in Windsor Locks for the years 1979 and 1980. Table 30 contains information from the Weather Service site located at Sikorsky Memorial Airport near Bridgeport. All data are compared to "mean" or "normal" values. Wind speeds and temperatures are shown as monthly and yearly averages. Precipitation data includes the number of days with more than 0.01 inches of precipitation as well as total water equivalent. Also shown are degree days " (heating requirement) and the number of days with temperatures exceeding 90°F. These comparisons show that 1980 was somewhat cooler than 1979 and a "normal" year. Precipitation was 86% of the mean in Bridgeport and only 70% of the mean in Windsor Locks. Average wind speed at Bradley was 8% lower than the mean while it was 9% greater than the mean at Bridgeport. More discussion of the meteorological data is included in the discussions of each pollutant in the earlier sections of this 1980 Annual Summary.

Wind roses for Bradley Airport, Sikorsky Airport, and Newark Airport have been developed from 1980 National Weather Service surface observations and are shown in Figures 9, 10, and 11.. Wind roses from these stations for 1979 are shown in Figures 12, 13, and 14. The differences between 1979 and 1980 wind roses were discussed earlier in the trend analysis section.

\* The degree day value for each day is arrived at by subtracting the low temperature of the day from 65°F. This number (65) is used as a base value because it is assumed that there is no heating requirement when the outside temperature is 65°F.

| <ul> <li>ISR OF</li> <li>ISR OF</li> <li>IS WITH</li> <li>HAN . ØI</li> <li>IS WITH</li> /ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | histration                 |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|
| <ul> <li>KITH<br/>ER OF</li> <li>S WITH<br/>HAN . ØI</li> <li>HAN . ØI</li> <li>S WITH<br/>HAN . ØI</li> <li>S WITH<br/>HAN . ØI</li> <li>S WERAGE WI</li> <li>TOP MeanC</li> <li>1980 1979</li> <li>10</li> <li>9.3 8.4</li> <li>10</li> <li>10</li> <li>9.3 8.4</li> <li>11</li> <li>9.3 8.4</li> <li>12</li> <li>128</li> <li>8.0</li> <li>128</li> <li>8.0</li> <li>128</li> <li>8.0</li> <li>7.6</li> <li>128</li> <li>8.0</li> <li>7.6</li> </ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | nistration                 |
| <ul> <li>MITH<br/>HAN</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | histration                 |
| ER OF<br>S WITH<br>HAN . 61<br>ES OF<br>ES OF<br>S 11<br>S 11<br>S 11<br>S 11<br>S 11<br>S 11<br>S 11<br>S 11<br>S 11<br>S 12<br>S 11<br>S 12<br>S 1 | nistration                 |
| ER OF<br>S WITH<br>HAN .01<br>ES OF<br>T S 11<br>5 11<br>5 11<br>5 11<br>5 11<br>5 11<br>5 11<br>5 11                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | nistration                 |
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|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 'H                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | cic Ad                     |
| RATION<br>HESS<br>R<br>Norma<br>3.54<br>3.54<br>3.54<br>3.54<br>3.53<br>3.54<br>3.53<br>3.54<br>3.53<br>3.55<br>3.54<br>3.53<br>3.55<br>3.53<br>3.55<br>3.54<br>3.53<br>3.55<br>3.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | erce<br>nosphei<br>ice     |
| BCIPHT<br>BCIPHT<br>WATE<br>UNAL<br>DUIVAL<br>1979<br>9.12<br>9.12<br>2.83<br>3.48<br>3.48<br>3.48<br>3.48<br>2.95<br>3.46<br>2.95<br>3.46<br>2.57<br>5.62<br>5.62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Comme<br>and Atr           |
| PRU<br>1988<br>1.65<br>1.65<br>1.65<br>1.66<br>1.66<br>1.66<br>1.66<br>1.66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | ent of<br>anic a           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | epartu<br>al Oce<br>nmenta |
| AXS<br>Normal<br>1246<br>911<br>911<br>519<br>24<br>226<br>226<br>226<br>226<br>384<br>711<br>1141<br>1141<br>6356<br>6356                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | U.S. D<br>Nation<br>Enviro |
| 264281<br>1979<br>1184<br>1184<br>1310<br>730<br>473<br>81<br>152<br>152<br>152<br>152<br>152<br>152<br>152<br>155<br>155<br>15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |
| 1151<br>1151<br>1151<br>1151<br>1151<br>1151<br>1151<br>115                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                            |
| tracte                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                            |
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| ы<br>в<br>в<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с<br>с                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 1954-10<br>1954-10         |
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| 1198<br>198<br>198<br>198<br>198<br>198<br>198<br>198<br>198<br>198                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                            |
| nuary<br>bruary<br>rch<br>rch<br>ly<br>ly<br>just<br>yember<br>rember<br>rember<br>rember<br>rember<br>rember<br>rember<br>rember                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                            |

TABLE 29

1979 AND 1986 CLIMMATOLOCICAL DATA BRADLEX INTERNATIONAL AIRPORT WINDSOR LOCKS

|                            |                   |          |                   | Jan.                                  |          | 0 <b>-</b>    | Mar.          | Apr.          | May         | 1            | June    | July        | 211Q           | • Amer        | Sept.        | to            |          | • AON         | Dec.          | VFAR   |                |                  |                |       |
|----------------------------|-------------------|----------|-------------------|---------------------------------------|----------|---------------|---------------|---------------|-------------|--------------|---------|-------------|----------------|---------------|--------------|---------------|----------|---------------|---------------|--------|----------------|------------------|----------------|-------|
|                            |                   |          | Meanf             | 13.2                                  | 3 51     |               | ۲°۲           | 13 <b>.</b> Ø | 11.6        | и<br>19<br>Г | C° a T  | 16.0        | 10.1           |               | 11.2         | 6 <b>-</b> 11 | 1<br>7   | / • 7 +       | 13 <b>.</b> 0 | 12.0   |                |                  |                |       |
|                            | AGE WI            |          | 1979              | 15°7                                  | 5        |               | х <b>.</b> тт | 12.9          | 11.2        | 50           | 2       | 9°5         | 11.6           |               | 8°11         | 0°11          | и<br>Г   |               | 13 <b>.</b> 3 | 12.3   |                |                  |                |       |
|                            | AVER              | 10 TO    | 1980              | 13.9                                  | 13.4     |               | 0<br>*        | 13 <b>.</b> 5 | 1,11        | 11<br>11     |         | 10.9        | 10 <b>.</b> 3  | (<br>(<br>(   | 12°3         | 13.1          | 15 2     |               | 7°57          | 12.7   |                |                  | uo             |       |
| E<br>LIH<br>B              | ь ил<br>Эр<br>ТОМ |          | Mean <sup>e</sup> | 11                                    | ØT       | 11            | 1;            | TT            | 11          | đ            |         | ω           | ØT             | c             | ر<br>ر       | 7             | 16       | r<br>F        | 1             | 118    |                |                  | Imstrati       |       |
| MBER C<br>AYS WI           | CHES O            |          | 1979              | 13                                    | лø       | σ             | n ç           | 77            | 12          | 10           |         | 9           | 12             | ٥             | 0            | თ             | 11       | c             | n             | ក្ត    | ស្ត            | r<br>f           | C HOIL         |       |
|                            |                   |          | 086T              | Q                                     | т        | 15            |               | 'n            | <b>9</b> 1  | 00           | ı       | -           | 7              | Ľ             | ר            | თ             | ω        | Ø L           | 2             | 97 I   | ta Chart       | erce             | ice            |       |
| NO                         |                   | יז       | eand              | •66                                   | .31      | 98            | ц             | 2             | .69         | <b>°</b> 27  | Ļ       | <b>د</b> م• | .68            | 57            |              | .37           | .78      | A L           |               | .95    | ogical Da      | c of Comm        | ata Serv       |       |
| PITATI<br>INCHES           | ATTER             |          | 5<br>7            | .20 3                                 | 65 3     | 703           | ،<br>۲        | ,<br>,        | 38          | 29 3         | . c     | ∩<br>`*     | 35 4           | 10<br>30      | )            | 71 3          | 54 3     | 24 3          | •             | 12 43  | imatol (       | urtment<br>Orean | ental I        |       |
| PRECI                      | EOUI              | 01 00    |                   | 82 II                                 | 87 3.    | 35 3°.        | 33 4.1        |               | -<br>₽<br>6 | 52 3.:       | 8<br>10 | 3           | 38 <b>4</b> .3 | 13 4 v        | •            | 2.2           | 5 2.5    | 5 2.2         |               | 4 48.6 | al CL          | . Dep            | ironme         |       |
|                            | ł                 | 0 F      | n<br>T            | ы.<br>Ч                               | 1.1      | 7.6           | 7.0           |               | 5           | 5.           | ŭ       | 2           | 2.1            | 2             |              | 4.]           | e,<br>e  | 9             |               | 41 °I  | Ц<br>Ц         | Nat<br>Nat       | Env            |       |
|                            | AREE DAYS         | Normal C |                   | 1Ø79                                  | 955      | 840           | 498           | 100           | 275         | 24           | ß       | 3           | ß              | 42            | 1            | 261           | 570      | 967           |               | 5461   | :mo            |                  |                |       |
|                            |                   | 1 979    |                   | 1062                                  | 1126     | 675           | 460           | ;             | <b>6</b> 77 | ន            | œ       | •           | ព              | 84            |              | 360           | 523      | 833           |               | 5281   | ted Fr         |                  | 7              |       |
|                            | D                 | 1980     |                   | 1025                                  | 1064     | 862           | 499           | 011           | ACT         | 39           | Ø       | I           | <b>S</b>       | 41            |              | 297           | 646      | 1038          |               | a/9c   | Extrac         |                  | ł              |       |
| <u>ل</u> ور ا              |                   | Meanb    | 4                 | Ø                                     | ß        | ß             | Ø             | +             | :           | н            | 7       |             | N              | *             | ŧ            | ,<br>Э        | ß        | 5             | ſ             | ٥      | -1980<br>-1980 | 9761-            | 0861-<br>1980  | 1980  |
| MBER C<br>AVS ON<br>CH MAX | BO OF             | 1979     | ł                 | 9                                     | 0        | Ø             | 9             | 6             | 2           | 5            | Ø       | ,           |                | ୟ             | č            | 52            | ß        | 6             | r             | -1     | 1966-          | 1941-            | 1949-<br>1949- | 1958- |
|                            | JIEMP             | 1980     | t                 | 2                                     | 3        | 6             | ß             | 5             | י נ         | Ø            | m       | c           | V              | ы             | e            | ລ             | Ø        | 5             | ų             | D      | ው.ወ            | טיט              | ነወነ            |       |
|                            | S. OF             | Meana    | ц<br>С            | C*07                                  | 30.3     | 37.9          | 47.9          | 58.4          |             | 57.8         | 73.3    | 5 C         | ر ۲•°D         | 55 <b>.</b> 2 | 8 <b>7</b> 8 | )<br>•        | 44°.1    | 33 <b>.</b> 1 |               | ;      | 5              |                  |                |       |
|                            | RATURE            | 1979     | 2 80              | 0.40                                  | 24.6     | 43 <b>.</b> Ø | 49.5          | 51.7          |             | 9 <b>-</b> 9 | 73.8 .  | . 0 62      | 0.4            | 54.8          | 51.0         | 1             | £1°3     | 37.9          | 0.00          |        | than 1/        |                  |                |       |
| Ŕ                          | TEMPE             | 1980     | ۲<br>۲            | · · · · · · · · · · · · · · · · · · · | 28.1     | 37.0          | 48 <b>.</b> 1 | 60.4          | (           | ۰°،          | 75.8    | 75.0.       |                | 68.4 (        | 55.4         |               | 43°2 4   | 31.3          | 51.9          |        | *Less t        |                  |                |       |
|                            |                   |          | January           | Tunning                               | repruary | March         | April         | May           |             | armo         | July    | Anonst      |                | September     | October      |               | November | December      | YEAR          |        |                |                  |                |       |

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TABLE 30 1979 AND 1986 CLIMATOLOGICAL DATA-SIKORSKY INTERNATIONAL AIRPORT SIFATFORD



ANNUAL WIND ROSE 1980 BRADLEY INTERNATIONAL AIRPORT WINDSOR LOCKS, CONNECTICUT WIND FREQUENCY APPEARS NEXT TO EACH DIRECTIONAL ABREVIATION



ANNUAL WIND ROSE 1980. SIKORSKY MEMORIAL AIRPORT STRATFORD/BRIDGEPORT, CONNECTICUT WIND FREQUENCY APPEARS NEXT TO EACH DIRECTIONAL ABREVIATION




FIGURE 12



ANNUAL WIND ROSE 1979 BRADLEY INTERNATIONAL AIRPORT WINDSOR LOCKS,CONNECTICUT WIND FREQUENCY APPEARS NEXT TO EACH DIRECTIONAL ABREVIATION



ANNUAL ROSE 1979 SIKORSKY MEMORIAL AIRPORT STRATFORD/BRIDGEPORT, CONNECTICUT WIND FREQUENCY APPEARS NEXT TO EACH DIRECTIONAL ABREVIATION

FIGURE 14



ANNUAL WIND ROSE 1979 NEWARK INTERNATIONAL AIRPORT NEWARK, NEW JERSEY WIND FREQUENCY APPEARS NEXT TO EACH DIRECTIONAL ABREVATION

### IX. ATTAINMENT AND NON-ATTAINMENT OF NAAQS IN CONNECTICUT'S AQCR'S

Connecticut's four Air Quality Control Regions (AQCR's, see Figure 15) have been analyzed for attainment status of National Ambient Air Quality Standards (NAAQS) for the following pollutants: 1) Total Suspended Particulates (TSP); 2) Sulfur Dioxide  $(SO_2)$ ; 3) Ozone  $(O_3)$ ; 4) Nitrogen Dioxide  $(NO_2)$ ; 5) Carbon Monoxide (CO); and 6) Lead (Pb). Table 31 shows the attainment/non-attainment status for the NAAQS's for each pollutant in each AQCR. The regions are classified as attainment, non-attainment or unclassifiable. Regions are non-attainment if the region, or any portion thereof, was in violation of any NAAQS at any time during 1978, 1979, or 1980. Unclassifiable regions are ones in which there were no monitors with which to determine attainment or non-attainment.



## TABLE 31

# CONNECTICUT'S COMPLIANCE WITH THE NAAOS (BY AOCR)

| POLLUTANT | OR<br>OR<br><u>SECONDARY</u> | NAAOS             | AQCR<br>41 | AQCR<br>42 | AQCR   | AQCR   |
|-----------|------------------------------|-------------------|------------|------------|--------|--------|
| TSP       | Primary                      | Annual<br>24-Hour | A<br>A     | A<br>A     | A<br>A | A<br>A |
|           | Secondary                    | Annual<br>24—Hour | X<br>X     | X<br>X     | X<br>X | X<br>X |
| SO2       | Primary                      | Annual<br>24—Hour | A<br>A     | A<br>A     | A<br>A | A<br>A |
| Ozone     | Primary                      | 1-Hour            | X          | Х          | Х      | х      |
|           | Secondary                    | 1-Hour            | Х          | Х          | Х      | X      |
| NO2       | Primary                      | Annual            | А          | A          | А      | A      |
|           | Secondary                    | Annual            | A          | A          | A      | A      |
| œ         | Primary                      | 1-Hour<br>8-Hour  | U<br>U     | A<br>X     | X<br>X | U<br>U |
|           | Secondary                    | 1-Hour<br>8-Hour  | U<br>U     | A<br>X     | X<br>X | U<br>U |

X = Non-Attainment

U = Unclassifiable

A = Attainment

#### X. SPECIAL STUDIES

#### A. <u>"SAMPLE SAVER" HI-VOL STUDY</u>

A study of a TSP hi-vol (HIVOL) monitor alongside a "sample saver" hi-vol (SSHIVOL) was conducted at Hartford site 123 from March 25, 1979 to March 16, 1980; a total of 60 samples were collected. The purpose of the study was to determine any difference in measured TSP levels collected by each sampler. The "sample saver" has a retractable lid that moves out of the way during sampling and moves back to cover the filter when the sampling is completed. In this way the filter is protected from wind erosion and excess deposition. The results of the study are shown in Table 32.

The results indicate that a regular hi-vol filter is susceptible to excess deposition during non-operating hours. The SSHIVOL produced lower TSP levels on more than 85% of the days sampled. Although differences as high as 40% were observed, these extreme variations occurred on essentially "clean" days (i.e., days with TSP concentrations below 100  $ug/m^3$ ). Of the 6 days when HIVOL TSP values exceeded 100  $ug/m^3$  the maximum observed difference was 12%. Interestingly, on certain days the SSHIVOL TSP concentrations were greater than these produced by the HIVOL indicating that "negative chains" can be introduced, probably due to the removal of deposited material by high winds during passive sampling periods. The average percent difference (i.e., 8%) was statistically significant (p< 0.0001).

Since January 1, 1980, all TSP monitors have been equipped with the retractable lids. DEP feels that the addition of the retractable lid devices to the hi-vols will help in the effort to continue to collect quality data. This change has probably had an impact on measured TSP levels at all monitors (see the TSP section).

## TABLE 32 1979-1980 COMPARISON OF CO-LOCATED HI-VOLS REGULAR HI-VOL/SAMPLE SAVER HI-VOL AT HARTFORD SITE 123 (ALL DATA ug/m<sup>3</sup>)

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 $\sigma_{ij} \geq$ 

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|               | DECHI AD          | SAMPLE     | % DIFFERENCE,                     |
|---------------|-------------------|------------|-----------------------------------|
| ከ <b>ለ</b> ምፑ | REGULAR<br>HT_VOI | SAVER      | LI-LSAMPLE SAVER/                 |
| <u>VALU</u>   |                   |            | $\underline{HT} = AOT   IX   100$ |
| 3/25          | 51                | 44         |                                   |
| 4/3           | 65                | 60         | -08                               |
| 4/9           | 37                | 26         | -30                               |
| 4/15          | 30                | 29         | -03                               |
| 4/21          | 81                | 73         | -10                               |
| 4/24          | 30                | 18         | -40                               |
| 5/3           | 104               | 95         | -09                               |
| 5/9           | 138               | 138        | 0                                 |
| 5/15          | 73                | 68         | -07                               |
| 5/21          | 62                | 73         | +18                               |
| 5/27          | 58                | 59         | +02                               |
| 6/2           | 55                | 56         | +02                               |
| 6/8           | 68                | 67         | -01                               |
| 6/14          | 72                | 70         | 03                                |
| 6/20          | 53                | 53         | 0                                 |
| 0/20          | 72<br>F1          | 57         | -21                               |
| 1/2           | 51                | 45         | -12                               |
| 7/1)          | 57<br>128         | 51         | ~11                               |
| 7/20          | 120               | 113        | ⊷12<br>12                         |
| 7/26          | 91<br>72          | 66         |                                   |
| 8/1           | 101               | 00<br>05   | -06                               |
| 8/7           | 52                | <u>л</u> о | -06                               |
| 8/13          | 52                | 49         | -00                               |
| 8/19          | 62                | 53         | -15                               |
| 8/25          | 73                | 61         | -16                               |
| 8/31          | 64                | 59         | -08                               |
| 9/6           | 50                | 49         | -02                               |
| 9/12          | 64                | 57         | -11                               |
| 9/18          | 98                | 88         | -10                               |
| 9/24          | 53                | 46         | -13                               |
| 9/30          | 45                | 36         | -20                               |
| 10/6          | 52                | 46         | -12                               |
| 10/12         | 82                | 76         | -07                               |
| 10/18         | 90                | 87         | -03                               |
| 10/24         | 43                | 34         | -11                               |
| 10/30         | 54                | 51         | -06                               |
| 11/5          | 102               | 93         | -09                               |
| 11/11         | 37                | 31         | -16                               |
| 11/17         | 58                | 53         | -09                               |

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## TABLE 32, continued

## 1979-1980 COMPARISON OF CO-LOCATED HI-VOLS REGULAR HI-VOL/SAMPLE SAVER HI-VOL AT HARTFORD SITE 123 (ALL DATA ug/m<sup>3</sup>)

| DATE    | REGULAR<br><u>HI-VOL</u> | SAMPLE<br>SAVER<br><u>HI-VOL</u> | <pre>% DIFFERENCE, [1-[SAMPLE SAVER/ HI-VOL]]x 100</pre> |
|---------|--------------------------|----------------------------------|----------------------------------------------------------|
| 11/23   | 78                       | 75                               | -04                                                      |
| 11/29   | 37                       | 33                               | -11                                                      |
| 12/5    | 74                       | 70                               | -05                                                      |
| 12/11   | 87                       | 89                               | +02                                                      |
| 12/17   | 75                       | 68                               | -09                                                      |
| 12/23   | 55                       | 46                               | -16                                                      |
| 12/29   | 34                       | 27                               | -21                                                      |
| 1/4     | 55                       | 52                               | -05                                                      |
| 1/10    | 56                       | 54                               | -04                                                      |
| 1/16    | 58                       | 51                               | -12                                                      |
| 1/22    | 59                       | 65                               | +10                                                      |
| 1/28    | 55                       | 52                               | -05                                                      |
| 2/3     | 39                       | 33                               | <b>-1</b> 5                                              |
| 2/9     | 53                       | 40                               | 24                                                       |
| 2/15    | 53                       | 49                               | -07                                                      |
| 2/21    | 152                      | 152                              | 0                                                        |
| 2/27    | 56                       | 68                               | +21                                                      |
| 3/4     | 96                       | 90                               | -06                                                      |
| 3/10    | 94                       | 89                               | -05                                                      |
| 3/16    | 42                       | 48                               | +14                                                      |
| AVERAGE | 67                       | 62                               | -8%                                                      |

The following is a partial listing of technical papers and study reports dealing with various aspects of Connecticut air pollutant levels and air quality data.

- 1. Bruckman, L., <u>Asbestos: An Evaluation of Its Environmental</u> <u>Impact in Connecticut</u>, internal report issued by the Connecticut Department of Environmental Protection, Hartford, Connecticut, March 12, 1976.
- Lepow, M. L., L. Bruckman, R.A. Rubino, S. Markowitz, M. Gillette and J. Kapish, "Role of Airborne Lead in Increased Body Burden of Lead in Hartford Children," Environ. Health Perspect., May, 1974, pp. 99-102.
- 3. Bruckman, L. and R.A. Rubino, "Rationale Behind a Proposed Asbestos Air Quality Standard," paper presented at the 67th Annual Meeting of the Air Pollution Control Association, Denver, Colorado, June 9-11, 1974, J. Air Pollut. Cntr. Assoc., <u>25</u>: 1207-15 (1975).
- 4. Rubino, R.A., L. Bruckman and J. Magyar, "Ozone Transport," paper presented at the 68th Annual Meeting of the Air Pollution Control Association, Boston, Massachusetts, June 15-20, 1975, J. Air Pollut. Cntr. Assoc.: <u>26</u>, 972-5 (1976).
- 5. Bruckman, L., R.A. Rubino and T. Helfgott, "Rationale Behind a Proposed Cadmium Air Quality Standard," paper presented at the 68th Annual Meeting of the Air Pollution Control Association, Boston, Massachusetts, June 15-20, 1975.
- 6. Rubino, R.A., L. Bruckman, A. Kramar, W. Keever and P. Sullivan, "Population Density and Its Relationship to Airborne Pollutant Concentrations and Lung Cancer Incidence in Connecticut," paper presented at the 68th Annual Meeting of the Air Pollution Control Association, Boston, Massachusetts, June 15-20, 1975.
- 7. Lepow, M.L., L. Bruckman, M. Gillette, R.A. Rubino and J. Kapish, "Investigations into Sources of Lead in the Environment of Urban Children," Environ. Res., <u>10</u>: 415-26 (1975).
- Bruckman, L., E. Hyne and P. Norton, "A Low Volume Particulate Ambient Air Sampler," paper presented at the APCA Specialty Conference entitled "Measurement Accuracy as it Relates to Regulation Compliance," New Orleans, Louisiana, October 26-28, 1975, APCA publication SP-16, Air Pollution Control Association, Pittsburgh, Pennsylvania, 1976.
- 9. Bruckman, L. and R.A. Rubino, "High Volume Sampling Errors Incurred During Passive Sample Exposure Periods," J. Air Pollut. Cntr. Assoc., <u>26</u>: 881-3 (1976).

- Bruckman, L., R.A. Rubino and B. Christine, "Asbestos and Mesothelioma Incidence in Connecticut," J. Air Pollut. Cntr. Assoc., <u>27</u>: 121-6 (1977).
- 11. Bruckman, L., <u>Suspended Particulate Transport in Connecticut:</u> <u>An Investigation Into the Relationship Between TSP Concentrations</u> <u>and Wind Direction in Connecticut</u>, internal report issued by the Connecticut Department of Environmental Protection, Hartford, Connecticut, December 24, 1976.
- 12. Bruckman, L. and R.A. Rubino, "Monitored Asbestos Concentrations in Connecticut," paper presented at the 70th Annual Meeting of the Air Pollution Control Association, Toronto, Ontario, June 20-24, 1977.

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- 13. Bruckman, L., "Suspended Particulate Transport," paper presented at the 70th Annual Meeting of the Air Pollution Control Association, Toronto, Ontario, June 20-24, 1977.
- 14. Bruckman, L., "A Study of Airborne Asbestos Fibers in Connecticut," paper presented at the "Workshop in Asbestos: Definitions and Measurement Methods" sponsored by the National Bureau of Standards/U.S. Department of Commerce, July 18-20, 1977.
- 15. Bruckman, L., "Monitored Asbestos Concentrations Indoors," paper presented at The Fourth Joint Conference of Sensing Environmental Pollutants, New Orleans, Louisiana, November 6-11, 1977.
- 16. Bruckman, L., "Suspended Particulate Transport: Investigation into the Causes of Elevated TSP Concentrations Prevalent Across Connecticut During Periods of SW Wind Flow," paper presented at the Joint Conference on Applications of Air Pollution Meteorology, Salt Lake City, Utah, November 28 - December 2, 1977.
- 17. Bruckman, L., E. Hyne, W. Keever, <u>"A Comparison of Low Volume</u> and <u>High Volume Particulate Sampling</u>," internal report issued by the Connecticut Department of Environmental Protection, Hartford, Connecticut, 1976.
- 18. <u>"Data Validation and Monitoring Site Review.</u>" (part of the Air Quality Maintenance Planning Process), internal report issued by the Connecticut Department of Environmental Protection, Hartford, Connecticut, June 15, 1976.
- 19. "Air Quality Data Analysis," (part of the Air Quality Maintenance Planning Process), internal report issued by the Connecticut Department of Environmental Protection, Hartford, Connecticut, August 16, 1976.

- 20. Bruckman, L., "Investigation into the Causes of Elevated SO<sub>2</sub> Concentrations Prevalent Across Connecticut During Periods of SW Wind Flow," paper presented at the 71st Annual Meeting of the Air Pollution Control Association, Paper #78-16.4, Houston, Texas, June 25-29, 1978.
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- 22. Anderson, M.K., G. D. Wight, "New Source Review: An Ambient Assessment Technique," paper presented at the 71st Annual Meeting of the Air Pollution Control Association, Paper #78-2.4, Houston, TX, June 25-29, 1978.
- 23. Wolff, G.T., P.J. Lioy, G.D. Wight, R.E. Pasceri, "Aerial Investigation of the Ozone Plume Phenomenon," J. Air Pollut. Control Association, <u>27</u>: 460-3 (1977).
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- 26. Wight, G.D., G.T. Wolff, P.J. Lioy, R.E. Meyers, and R.T. Cederwall, "Formation and Transport of Ozone in the Northeast Quadrant of the U.S.," In: Proceed. ASTM Sym. Air Quality and Atmos. Ozone, Boulder, Colo., Aug. 1977.
- 27. Wolff, G.T., P.J. Lioy, and G.D. Wight, "An Overview of the Current Ozone Problem in the Northeastern and Midwestern U.S.," In: Proceed. Mid-Atlantic States APCA Conf. on Hydrocarbon Control Feasibility, p. 98, New York, N.Y., April, 1977.
- 28. Wolff, G.T., P.J. Lioy, G.D. Wight, R.E. Meyers, and R.T. Cederwall, "An Investigation of Long-Range Transport of Ozone Across the Midwestern and Eastern U.S.," Atmos. Environ. 11:797 (1977).

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