# Market Research Results and Recommendations

Improving Recycling Efforts in the Tunxis Region



#### Acknowledgements

- Tunxis Recycling Operating Committee & its Public Education Subcommittee
- Aceti Associates, Opinion Dynamics Corporation
- Housatonic Resources Recovery Authority (HRRA) & CDHM
- MADEP



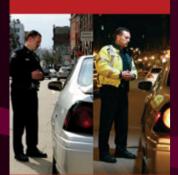
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#### DAY & NITE.



BUCKLE UP OR PAY UP.

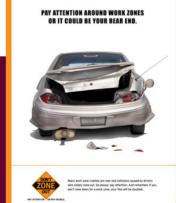


## Social Marketing











#### Objectives

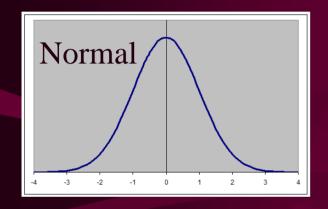
- Understanding of factors that influence participation in recycling
- Opportunities for increasing recycling participation in the future

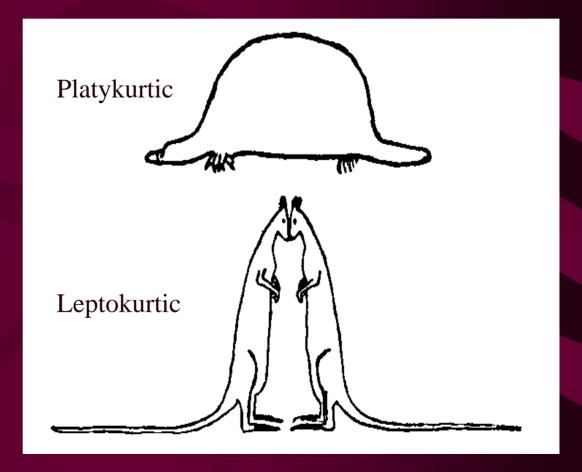
## Survey Methodology

- Survey Conducted March 2006
- Target Population: Adults in 13 TROC
   Communities
- Designed in relative proportion to population/age distribution in region
- 500 Respondents

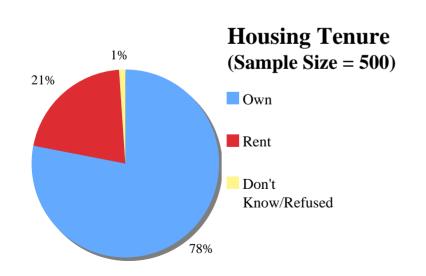
#### Statistical Analysis

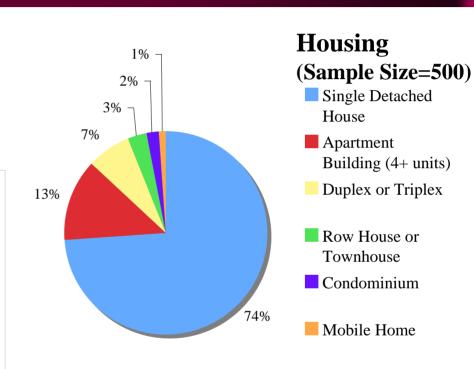
Margin of Error: +/- 4% at 95% Confidence Level



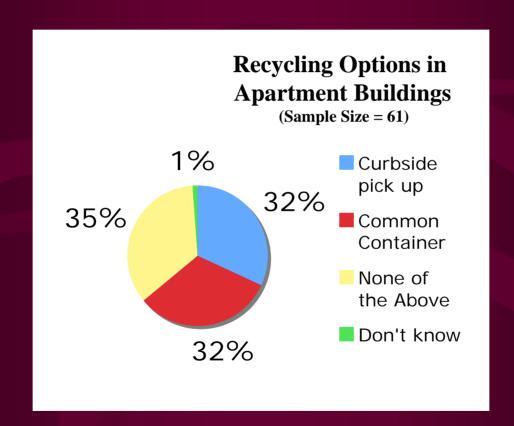


#### General Sample Characteristics - Housing





#### Apartment Dwellers



# Housing Distribution by Participation Level

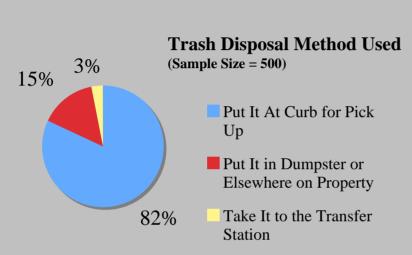
Participation level
(1 = not at all;
6 = all the time)
1-3/6
4-5/6
6/6

Percent in multifamily housing 55%

35% 16%

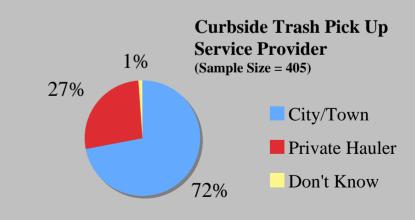
Important classification in market research study

#### Trash Services









# People who participate more in recycling are more likely to:

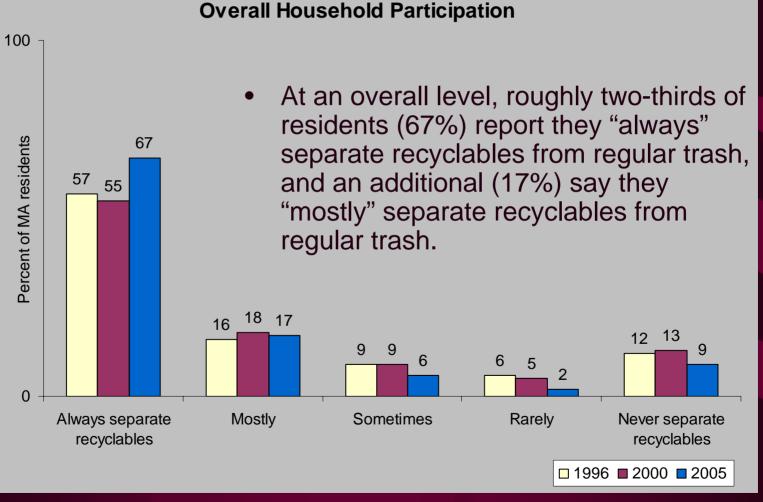
- live in a single detached home
- own their home
- have recycling instructions
- have a recycling bin

#### Other correlations with recycling behavior

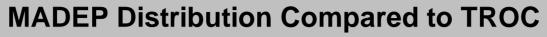
- agree more strongly that it is easy to find a place to store the bin
- disagree more strongly that recycling takes too much time
- agree more strongly that the family expects the household to recycle
- be older (although the difference is not significant across all age groups)
- recycle a higher percentage of the following materials:
  - junk mail
  - newspaper
  - magazines and catalogs
  - cardboard boxes

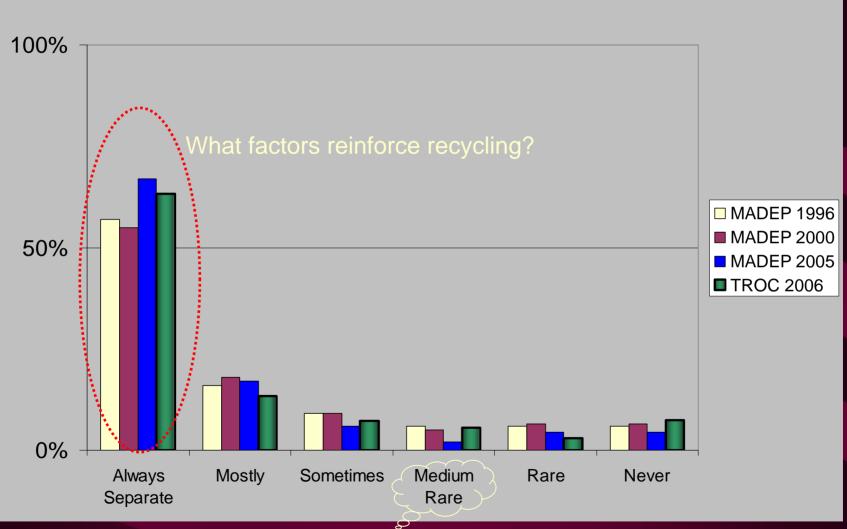
#### MA DEP 1996 – 2005 Trends





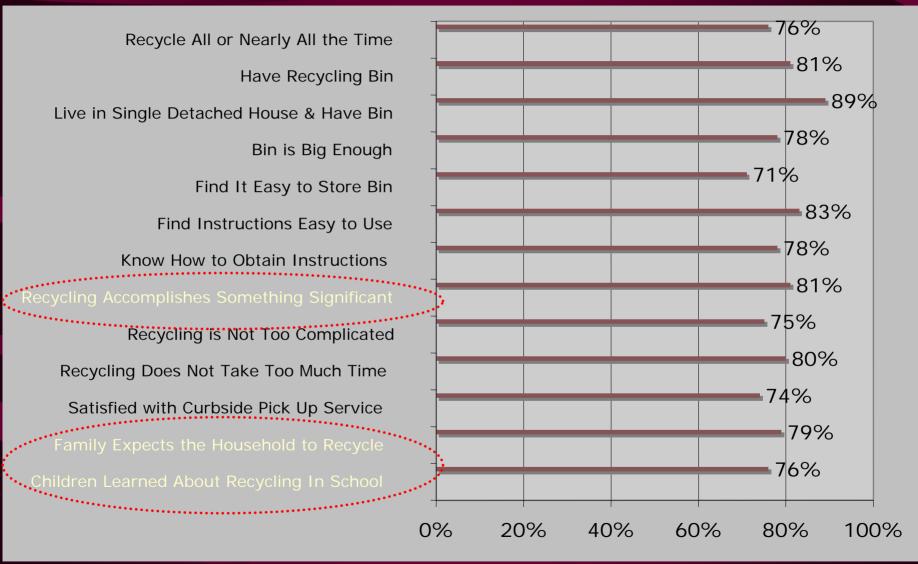
#### Are results unique to MA?



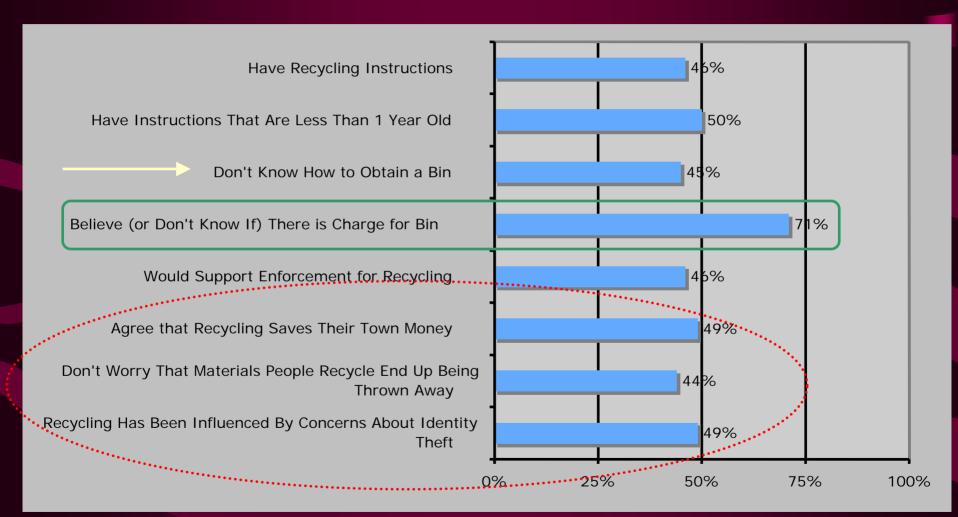


#### Positive Indicators

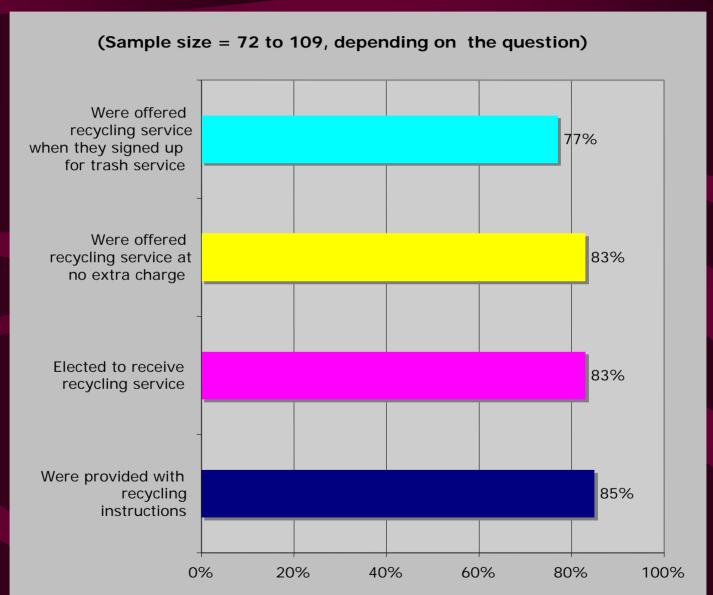
#### Social marketing, behavior & values



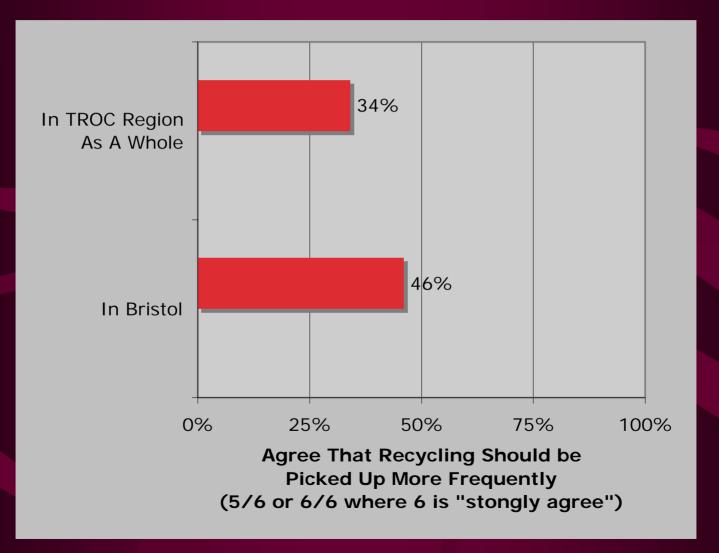
## Negative Indicators



#### Private Hauler Recycling Service



#### Perceptions of Pick Up Frequency

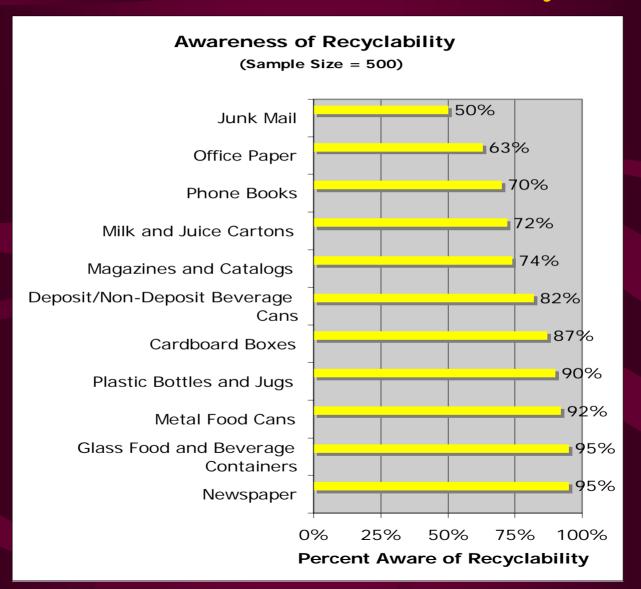


#### Qualitative & Quantitative Factors

- Understanding of factors that influence participation in recycling
- Opportunities for increasing recycling participation in the future

Next, consider quantitative & metrics

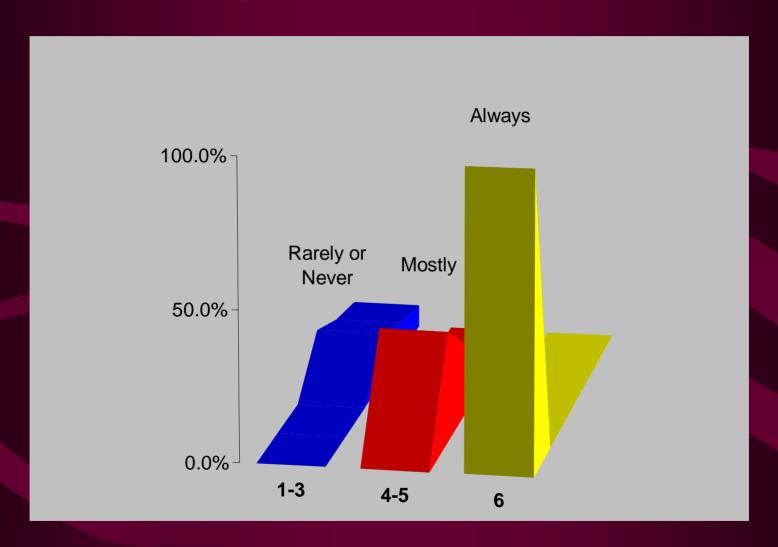
#### Awareness – what can be recycled?



#### Capture Rate (determined from study)

Material	% Recovered from Waste Stream
Junk mail	26
Office paper	29
Magazines and Catalogs	53
Cardboard boxes	63
Newspapers	72
Plastic bottles and jugs	72
Glass, food and beverage containers	76

## Frequency Distribution



## Newspaper Use by Participation Level

Participation level (1 = not at all; 6 = all the time)	1-3/6	4-5/6	6/6
Percent that use local	61%	70%	83%
newspaper	<del>U 1</del> /0	10 70	00 /0

#### Potential Recovery - Newspapers

Participation Level (1 = not at all; 6 = all the time)	Generation Rate for Newspaper (lb/home/yr)	Potential Recovery Rate	Highest Potential Amount Recycled (lb/home/yr)	Current Amount Recycled (lb/home/yr)	Potential Change in Amount Recycled (lb/home/yr)
1–3/6	240.35	75%	180.27	55.64	124.63
4–5/6	358.52	90%	322.67	242.16	80.51
6/6	457.20	90%	411.48	392.48	19.00
		7/			

assumed for purposes of study

Discards 185 lb/yr Discards 65 lb/yr

#### **Newspaper Potential for Category 1-3** Percent Number 1-3 16% 80 % Receiving the Following Number of Daily Newspapers 51.0% 41.0% 4.0% 0.0% NUMBER OF PUBLICATIONS **Total** # Daily Newspapers 3 51.0% 41.0% 0.0% % Received 4.0% Lbs/Hshld/Yr 263 527 790 Number of Hshlds 41 33 0 Lbs/yr 8,635 1,685 10,319 0 **# Sunday Newspapers** 0 0.0% 53.0% 39.0% 4.0% % Received Lbs/Hshld/Yr 678 226 452 Number of Hshlds 31 42 7,047 1,446 8,493 Lbs/vr 0 **# Weekly Newspapers** 0 3 57.0% 32.0% 5.0% 2.0% % Received Lbs/Hshld/Yr 11 22 33 Number of Hshlds 46 26

277

Lbs/yr

**Total Available** 

% Hshlds that Recycle and Aware News is Recyclable

% of news recycled among these households

% max recovery rate (assumed)

Total lb/yr potential for Category 1-3

Improvement potential

52

416

19,228

50.0%

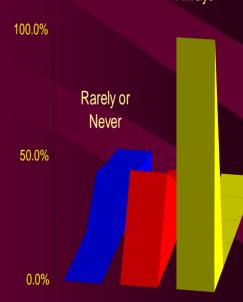
46.3% 75.0%

224%

9,970

87

# Sample calculations for Potential Increased Newspaper Capture Always



#### Potential Recovery - <u>Magazines/Catalogs</u>

Participation Level (1 = not at all; 6 = all the time)	Annual Generation Rate for Magazines & Catalogs (lb/home/yr)	Highest Potential Recovery Rate	Highest Potential Amount Recycled (lb/home/yr)	Current Amount Recycled (lb/home/yr)	Potential Change in Amount Recycled (lb/home/yr)	Number of Homes
1–3/6	104.90	75%	78.67	4.73	73.94	80
4–5/6	117.43	90%	105.69	54.22	51.47	102
6/6	120.47	90%	108.42	86.12	22.30	314

assumed for purposes of study

#### Potential Fiber Recovery



From previous slide

Potential for Increased Newspaper Recycling (Lb/Year)

Potential for Increased Magazine/Catalog Recycling (Lb/Year)

Total Potential for Increased Newspaper and Magazine/Catalog Recycling (Lb/Yr)

5,916 5,250 7,003

2x more material from groups 4-5/6 and 6



2/3 more material from groups 4-5/6 and 6

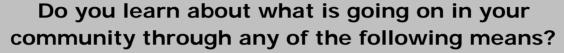
#### Factors affecting recycling:

- whether trash is picked up by municipal service or private hauler
- how old their instructions are
- how strongly they agree that the instructions are easy to use
- whether a language other than English is spoken at home
- whether their bin is big enough

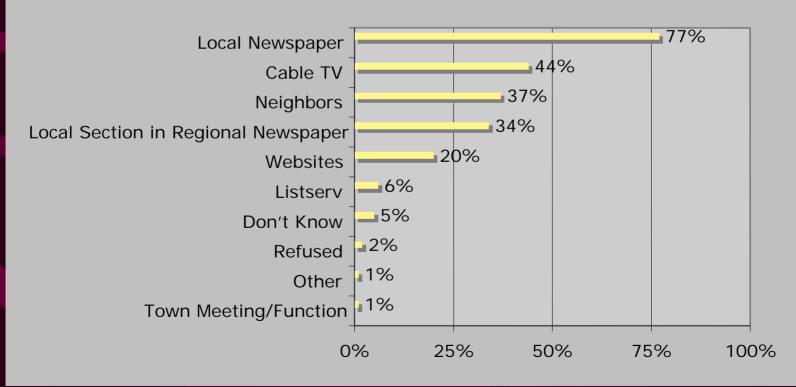
#### Participation unrelated to:

- how worried they are that materials people recycle end up being thrown away
- concerns about identity theft
- whether they have 8-16 year old children at home
- household size (except that 2-person hshlds participate more than 1-person hshlds)
- education level
- income level
- community they live in

#### Most Effective Media



(Sample size = 500)



#### Media Recommendations

Improve/expand use of newspapers to convey information

	Instertions	2 3		5   W	6 7	7 8	9 10		12 13	14 15 F Sa	16		18	19	20 Th	21 22 F Sa		24	25	26	27 Th	28 29
		Su M	l Tu	VV	Th F	F Sa	Su M	Tu \	N Th	F Sa	Su	M	Tu	W	Th	F Sa	Su	M	Tu	W	Th	F Sa
Waterbury Republican-American 3 col x 4" - East Zone (Wed & Fri)	4			5										3								
New Britain Herald 3 col x 4" (Daily)	4								2											4		
Sunday (runs as same paper)	4						2										3	]				
Bristol Press 3 col x 4" (Daily)	4								3											1		
Meriden Record-Journal 3 col x 4" (Daily)	4													2								
3 col x 4" Sunday	4										2											
Citizen Publications 3 col x 4"							m	edia	a m	ix,												
Berlin Citizen (Thurs) Plainville Citizen (Thurs)	4							huc	dge	4					5							
Southington Citizen (Fri)	4							Duc	<u> </u>							3						
CT Voices 3 col x 4" (Wed)	4								5											2		
Registro - Zones 3 col x 4" Hartford/New Britain Zone (Tues/Fri) Iew Haven/Bridgeport Zone (Tues/Fri) Vaterbury/Danbury/NW CT Zone (Fri)	6												BW 4			Spot 3						
Stepsaver/Observer Publications 3 col x 4" (Thurs) Southington Observer Bristol Observer New Britain Observer Plainville Observer	4				5																3	
Tri-Town Post 3 col x 4" (wkly)	3														3							
				TF	RO	$\overline{C}F$	Fall Z	200	7 P	rint	Ca	am	pa	ig	n					32		

# Sept. '07 Print Campaign

# TUNXIS RECYCLING Please recycle your phone books with your newspapers and magazines in a brown paper bag curbside. For more information call 860-585-0419 or 860-225-9811 or visit us online at tunxisrecycling.org



OLD NEWS is good news

Please recycle your newspaper & magazines curbside with your weekly trash pickup.

For more information call 860-585-0419 or 860-225-9811 or visit us online at tunxisrecycling.org





#### Media Recommendations

- Improve/expand use of newspapers to convey information
- Increase the percentage of households with recycling instructions
- Increase the percentage of households with bins

#### Curbside Recycling Guide

#### RECYCLING GUIDE

Keep this information handy so that you'll know what your town accepts as recyclable items. If you have any questions about your town's program, please call your town's number shown below. Remember, curbside recycling saves money, helps the environment ... and, IT'S THE LAW.

NOTE: Not all towns recycle all of these items. Additional items may also be collected at drop-off locations. For more specific instructions check with your town's recycling coordinator.

Berlin: . . . . . . . (860) 828-7022 Branford: . . . . . . (203) 488-8394 Bristol: . . . . . . . (860) 584-6124 Burlington: . . . . . (860) 673-2439 Hartland: . . . . . . . (860)653-6800 Meriden: . . . . . . . (203) 630-4018 Morris: . . . . . . . (860) 567-7438 New Britain: . . . . (860) 826-3350 Plainville: . . . . . . (860) 793-0221 x 210 Plymouth: . . . . . (860) 585-4030 Prospect: . . . . . (203) 758-4461 Seymour. . . . . . . (203) 888-2511 Southington: . . . . (860) 276-6200 Warren: . . . . . . . (860) 879-9030 Washington: . . . . (860) 868-2259 Wolcott: ..... (203) 879-8100

Or call the Tunxis Recycling Operating Committee at 860-585-0419 or 860-225-9811.

www.tunxisrecvcling.com



#### **CURBSIDE** RECYCLING

CAUTION: Do not recycle any plastic or glass that contained prescription drugs. And absolutely NO syringe needles.

When in doubt, leave it out!

In the Tunxis Recycling region, one rectangular bin is used to collect all clean food and beverage containers made of glass, metal or plastic #1 or #2. These items may also be placed in either the red or blue round pails for those residents still using pails.

Rinse all containers

Put newspaper, magazines, and mixed paper in brown paper bags next to pail or bin

■ Flatten corrugated boxes to about 2'x3', place next to pail or bin

Bring to curbside

#### Newspapers and Magazines:

Include all paper inserts. Office paper. place in brown paper bag stationery and envenext to bin. Catalogs & lopes including those with phone books also plastic windows. Direct accepted. mail pieces - shiny coated No: Tape, packaging paper ok. Place in brown materials, egg cartons, paper bas next to bin. No: Brown manila envecereal, shoe and pizza boxes. No: String or lones, overnight envelopes plastic bags. No: Giveaway items (product samples/CD's) No: Greeting cards or No: Boxboard, 6-pack

or Tyvek™

wrapping paper

sensitive labels.

No: Tape, post-it-notes

or mail with pressure

cartons

#### Corrugated Cardboard: Glass & Inice Cartons :

Folded flat Clean

No: Strine

or tape-tied

bundles.

Clean food and beverage containers only. Clear or colored glass bottles & iars. Single-serve containers. pint, quart, and half-gallon iuice & milk cartons. No: Light bulbs, ceramics. cookware window/mirror elass, crystal.

#### **Metal Cans** and Foil:

Clean food and beverage containers only Aluminum foil & foil baking tins. No: Scrap metal, appliances, metal parts, pots/pans, silverware, needles, aerosol and paint cans

#### Plastics: $\Lambda$ and $\Lambda$

Look for the number triangle on bottom No: Bottle caps or #1 & #2 Bottles that contained antifreeze, motor oil. pesticides or other toxic fluids



Place your recycling container at the curb the night before your recycling collection day. Paper/ cardboard may be wet with rain or snow. Do not leave at the curb for more than one day.

35

#### Media Recommendations

- Improve/expand use of newspapers to convey information
- Increase the percentage of households with recycling instructions
- Increase the percentage of households with bins
- Billboards

#### Yellow bin - New Britain

#### **RECYCLING YOUR PLASTIC**

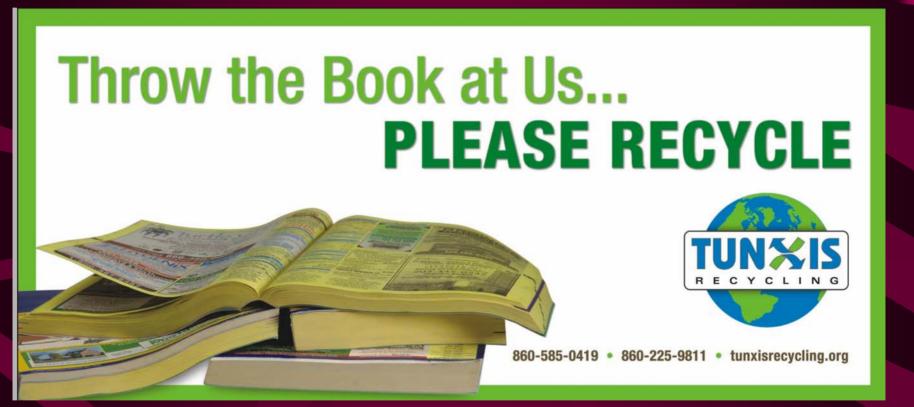








#### Phone Book Promotion



#### Junk Mail Promotion



## It's NOT JUNK to us.

Recycle Your Junk Mail.

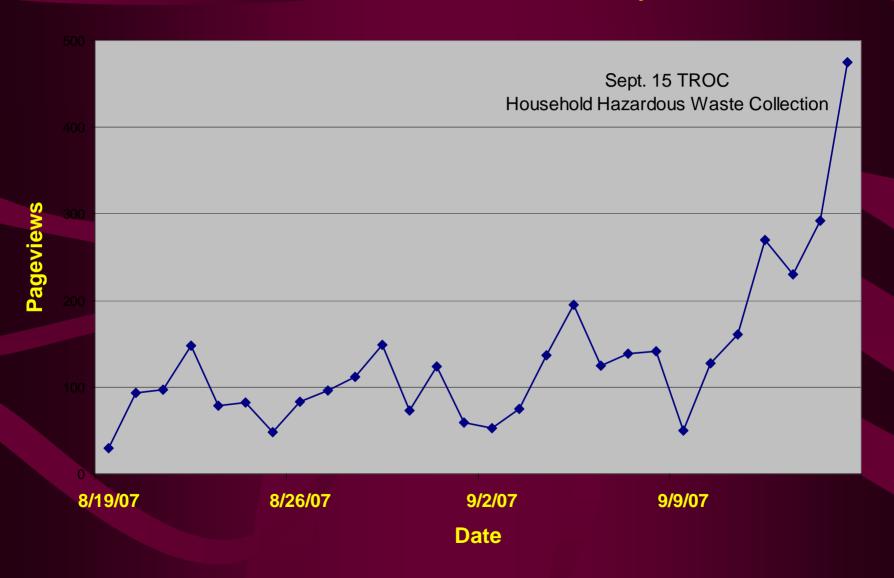
860-585-0419 860-225-9811 tunxisrecycling.org



#### Results

Web Site Activity

#### **Recent TROC Web Site Activity**

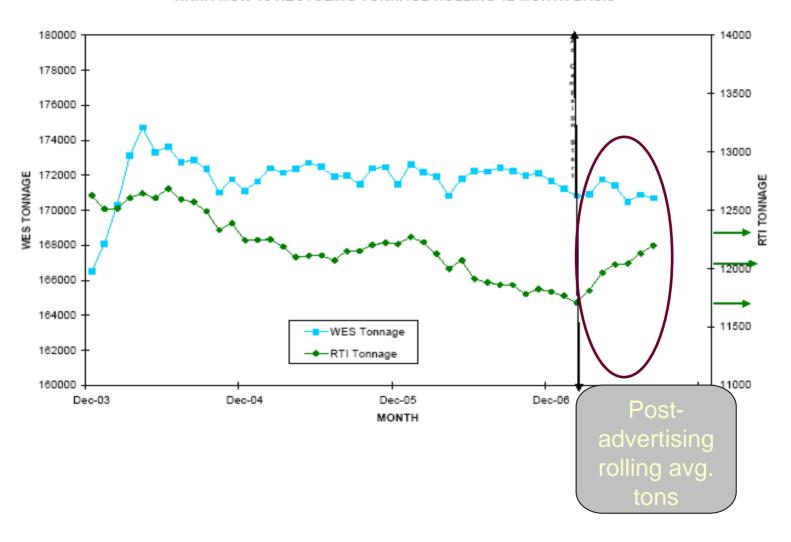


#### Results

- Web Site Activity
- Tons delivered to recycling facility

#### Housatonic Resources Recovery Authority

#### HRRA MSW vs RECYCLING TONNAGE ROLLING 12 MONTH BASIS



#### Results

- Web Site Activity
- HRRA Tons shown, TROC tons available end of September
- Anecdotal
  - Phone calls
  - Comments at HHW collections, other events
  - Questions & comments via contact form on Web Site

#### Questions?

Tunxis Recycling Operating Committee

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