

CONNECTICUT AGRICULTURAL EXPERIMENT STATION.

Bulletin 29.—June 13, 1879.

FERTILIZER ANALYSES.

274. Stockbridge Tobacco Fertilizer. Sampled and sent by Charles Sanford, Roxbury, Ct., from a quantity purchased of agent and received from W. H. Bowker & Co., 3 Park Place, New York, May, 1878.

	Composition per 100 lbs. per ton.	Gnar. per ton.
Sol. Phos. Acid.....	.72	14.4
Rev. Phos. Acid.....	.71	14.2
Insol. Phos. Acid....	.27	5.4
Potash* (as Sul'ate)..	7.36	147.0
Chlorine.....	1.34	
Nitrogen as Am'nia. } 2.85	114.0	119
" of org'ic matter. } 2.85		
* Valued at 9 cents per pound.		
Estimated value per ton.....		\$40.94
Cost per ton.....		50.00

276. Dry Ground Fish.

Made by Quinnipiac Fertilizer Co. Sampled by Experiment Station, May 26th, from stock of R. B. Bradley & Co., New Haven.

278. Dried Blood.

Made by S. E. Merwin & Co., New Haven. Sampled by Experiment Station, May 26th, from stock of R. B. Bradley & Co.

285. Ivory Dust.

286. Buffalo-horn Dust.

285 and **286** were manufactured by F. S. Johnson, Plainville. Sampled and sent, May 29th, by Jacob W. Hemingway, Plainville.

STATION ANALYSES, ETC.

	276	278	285	286
Nitrogen.....	8.18	7.21	5.26	14.44
Phospho'c Acid.....	6.40	8.88	24.65	
Est'd value of Fertilizer pr. t'n.	\$41.88	\$41.27	\$52.67	\$43.32
" Nit'n pr. lb.	.20	.30	.18	.15
" Phos. ac. "	.07	.07	.07	
Cost Fertil'er per ton..	\$40.00	\$38.00	\$30.00	\$30.00
" Nitrogen per lb....	.19	.17	.10	.10½
" Phos. Acid per lb.	.07	.06	.04	

The considerable discrepancies between the estimated value and cost of 278, 285 and 286 are partly due to peculiarities of these articles, which affect the popular estimate of their agricultural value. Dried Blood is apt to prove "flashy" from its high state of division, while ivory dust and horn shavings are each perhaps the slowest of their class to become available, on account of the density of their structure. Blood is likely to give the best satisfaction when the weather that follows its application is either cool or wet or both, while if followed by hot weather it may spend too fast to be of much use, may indeed in large doses, injure the crop. Ivory dust like bone generally, and horn are disappointing on dry light lands, and do best on moist and heavy soils, unless they are rotted somewhat, or fermented by composting with moist loam, or loam and ashes until they heat strongly, previous to application.

S. W. JOHNSON, *Director.*