

**CONNECTICUT AGRICULTURAL EXPERIMENT STATION.**

*Bulletin 40.—April 24, 1880.*

**FERTILIZER ANALYSES.**

- 376** Mapes' Potato Manure, guarantee, Ammonia 4-5 per cent., Phos. Acid 8-10 per cent., Potash sulphate and muriate one half of each, 6-8 per cent.
- 377** Mapes' Grass and Grain Spring Top-dressing: Guarantee, Ammonia 5-7 per cent., Phos. Acid 6-8 per cent., Potash, in form of sulphate and muriate, one half of each, 5-7 per cent.
- 378** Mapes' Complete Manure ("A" Brand). Guarantee, Ammonia 3-4 per cent., available Phos. Acid 10-12 per cent., Insoluble Phos. Acid 2-4 per cent., Potash as Muriate 2 1-4-3 1-2 per cent.
- 379** Mapes' Corn Manure. Guarantee, Ammonia 4 1-2 5 per cent., Phos. Acid 10-12 per cent., Potash as Muriate 6-7 per cent.

The above were manufactured by The Mapes Formula and Peruvian Guano Co., New York, and sold by Albertus N. Clark, Milford.

- 380** Superphosphate made by Russel Coe, Linden, N. J., and sold by E. B. Clark, Agent.
- 381** Superphosphate made by Lister Bros., Newark, N. J., and sold by Albertus N. Clark, Milford. Guarantee, Ammonia 2.85-3.25 Available Phos. Acid 10-12 per cent., Insoluble Phos. Acid 1-3 per cent.
- 384** Ammoniated Bone Superphosphate made by The Geo. W. Miles Co., Milford and bought from Manufacturers.

The above three were sampled and sent to the Station March 22, 1880, by Joseph W. Nettleton, Milford.

**382** Ground Bone made by Lister Bros., Newark, N. J., and sold by Albertus N. Clark, Milford, Guarantee, Nitrogen 2.50-3.00 per cent., Phos. Acid 11.50-13.50 per cent.

**383** Ground Bone made by Peter Cooper, New York, and sold by E. B. Clark, agent, Milford.

Both the above were sampled and sent to the Station by Joseph W. Nettleton, Milford.

**388** Bone Meal from Mapes' Co., Hartford. Guarantee, Ammonia 4-5, Phos. Acid 20-26 per cent.

Sampled and sent April 5 by L. S. Wells, New Britain, as were also the following:

**390** St. Louis Castor Pomace made by Collins Co., sold by F. Ellsworth.

**387** Muriate of Potash, 80 per cent, Mapes' Co.

**389** Sulphate of Potash, 70 per cent., Mapes' Co.

**ANALYSES OF BONE, CASTOR POMACE AND POTASH SALTS.**

	382	383	388	390	387	389
Nitrogen,	3 61	1 12	3 00	5 73		
Phosphoric Acid,	13 04	27 38	25 12	1 79		
Potash				1 29	50 37	35 68
Cost of Potash per 100 lbs.,					\$3 97	\$9 19
Est. value of fertilizers per ton,	\$28 63	\$42 36	\$45 97	\$28 02	45 83	53 52
Cost of fertilizers per ton,	\$30 00	\$32 00	\$42 00	\$20 00	\$40 00	\$65 00

**382** Contains 15 per cent. of salt cake or Sulphate of soda soluble in water.

**388** The potash equals 79.8 per cent of muriate of potash.

**389** The potash corresponds to 66 per cent of sulphate of potash, but there is present 7.56 per cent. of Chlorine which is equivalent to 15.9 per cent. muriate of potash.

**CORRECTON.**—The per cent. of salt in "Refuse Salt Washings" No. 357, misprinted in last Bulletin 67.02 per cent. should have been 67.92 per cent. The per cent of salt in "Kiln Refuse"

**386**

Mapes' Manure ("A" Brand) same as 378 sold at the Hartford Branch of Mapes' Formula Co., sampled and sent to the Station April 3, by L. S. Wells, New Britain.

No. 358, printed 92.20 per cent., should have been 97.20 per cent.  
S. W. JOHNSON, Director.

ANALYSES OF SPECIALS AND SUPERPHOSPHATES.											
Nitrogen as Ammonia,											
" In Organic Matter,											
Soluble Phosphoric Acid,											
Reverted " "											
Insoluble " "											
Potash,											
Chlorine,											
Estimated value per ton,											
Cost per ton,											
	<b>376</b>	<b>377</b>	<b>378</b>	<b>379</b>	<b>380</b>	<b>384</b>	<b>381</b>				
0.96	3.03	1.11	0.68	1.31							
2.96	71	2.02	1.86	2.39	1.13	1.90	2.52				
3.18	2.30	4.88	2.37	4.08	4.6	6.05	6.84				
5.45	5.9	5.04	7.34	6.12	2.02	1.65	1.75				
1.77	1.30	2.48	4.50	1.66	7.30	6.26	2.44				
7.70	6.61	3.30	3.15	7.21	1.35	1.76					
5.2	5.20	3.44	?	6.48	1.74	2.56					
\$45 64	\$45 32	\$40 64	\$38 32	\$45 38	\$20 75	\$26 03	\$32 55				
\$49 00	\$51 00	\$40 00	\$40 00	\$48 00	\$26 00	\$28 00	\$26 00				