

CONNECTICUT AGRICULTURAL EXPERIMENT STATION.

Bulletin 45—June 18, 1880.

FERTILIZER ANALYSES.

HORN, FISH, BLOOD.

- 432 Buffalo Horn Dust, sold by F. S. Johnson, Plainville, sent by J. W. Hemingway, Plainville.
- 433 Quinnipiac Fertilizer Co.'s Dry Ground Fish, sold by J. M. Belden, New Britain, sent by E. F. Blake, New Britain.
- 391 Dried Blood, made by Sperry & Barnes, New Haven, sampled and sent by R. E. Pinney, Suffield.
- 392 Dried Blood and Hair, made by Strong, Barnes, Hart & Co., sampled and sent by R. E. Pinney.
- 439 Dried Blood, manufactured by Strong, Barnes, Hart & Co., New Haven, sent by J. J. Webb, Hamden.

	432	433	391	392	439
Nitrogen	14 50	8 14	8 30	8 80	9 25
Phos. Acid.	9 15	7 25	6 02	5 50	6 41
Estimated value per ton	\$42 71	\$42 75	\$31 50	\$30 00	\$41 97
Cost per ton	\$30 00	\$20 00	\$20 00	?	\$20 00

BONE.

- 434 H. J. Baker & Bro.'s, Strictly Pure Ground Bone, sent by J. J. Webb, Hamden.
- 440 Ivory Saw Dust, manufactured by F. S. Johnson, Plainville, sent by J. W. Hemingway, Plainville.
- 441 Bone Saw Dust, made by Holyoke M'fg. Co., Holyoke, Mass., and sold by R. T. Prentiss, Holyoke, sent by J. W. Hemingway, Plainville.
- 442 } Ground Bone, made by
443 } Atwood Bros., Watertown, sent by M. S. Baldwin, Naugatuck.

	434	440	441	442	443
Nitrogen	5 94	5 62	5 61	5 78	4 29
Phos. Acid.	19 45	24 58	23 18	20 02	21 06
Pass'd holes 1/30 in	40	94	87	2	27
" " 1/25 "	29	0	11	11	29
" " 1/12 "	38	0	0	23	33
" " 1/8 "	0	0	0	23	14
Coarser than 1/8 "	1	0	0	44	10
Estimated value per ton	\$29 15	\$45 44	\$49 22	\$27 96	\$41 90
Cost per ton	\$31 50	\$30 00	\$45 50	\$20 00	\$29 00

442 and 443 are respectively the coarser and finer parts of the same ground bone.

The finer bone, 443, is seen to contain more, both of nitrogen (0.5 per cent.) and of phosphoric acid (1.9 per cent.) and partly for that reason and partly for its fineness it has an estimated value nearly \$7 greater than the coarser bone, 442.

POTASH SALTS.

- 428 Sulphate of Potash, H. J. Baker & Bro., New York, sent by P. M. Augur, Middlefield.
- 438 Muriate of Potash, sold by H. J. Baker & Bro., sent by J. J. Webb, Hamden.

	428	438
Potash	47 37	53 18
Sulphate of Potash	87 40	
Muriate of Potash		82 50
Estimated value per ton	\$71 95	\$48 95
Cost per ton	\$50 00	\$48 00

PLASTER.

- 414 Land Plaster, manufactured by E. B. Alvord, Jamesville, N. Y., sold by S. A. Weldon & Son and sent by S. R. Gridley, president of the Farmers' Club, Bristol, Conn.
- 419 Gypsum or Land Plaster, Nova Scotia (?) ground and sold by George Abbott, Branchville, Conn., sent by D. H. Van Hoosear, President Farmers' Club, East Wilton, Conn.
- 431 Plaster, manufacturer unknown, E. N. Pierce dealer, Plainville, Conn., sent by T. N. Bishop, Plainville.

	414	419	431
Sulphuric acid	25 00	43 64	24 95
Lime	24 50	30 00	24 47
Chemical water	10 10	10 00	15 73
Gypsum	75 44	53 82	75 16
Plaster insoluble in acid	7 48	3 93	7 91
Carbonate of lime, by difference	17 04		17 92
Estimated value per ton	\$93 00	\$100 00	\$93 00
Cost per ton	\$7 50	\$6 00	\$7 00

S. W. JOHNSON, Director.