

THE CONNECTICUT AGRICULTURAL
EXPERIMENT STATION.



BULLETIN No. 69.

MAY 23, 1882.

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FERTILIZER ANALYSES.

POTASH SALTS.

- 728.** MURIATE OF POTASH, 80-84 per cent. Sampled and sent by Dennis Fenn, Milford.
- 734.** MURIATE OF POTASH, 80 per cent. Sampled and sent by J. J. Webb, Hamden.
- 769.** MURIATE OF POTASH, 80 per cent. Sampled from stock of Wilson & Burr, Middletown, and sent by J. M. Hubbard, Middletown.

All the above were imported by H. J. Baker & Bro., New York City, and sold as 80 per cent. muriate.

ANALYSES.

	728	734	769
Actual potash,.....	55.25	50.23	51.21
Equivalent muriate of potash,.....	86.81	79.02	80.56
Cost per ton,.....	\$50.00	40.00*	42.50
Cost of actual potash per 100 pounds,.....	\$4.53	3.98	4.15

* In New York.

COTTON SEED AND CASTOR POMACE.

- 706.** CASTOR POMACE, manufactured by H. Mayhew & Son, Fort Scott, Kansas. Sampled and sent by E. F. Collins, Somers. Not finely ground.
- 723.** I.X.L. CASTOR POMACE, manufactured by R. B. Brown & Co., St. Louis. Sampled and sent by A. P. Hills, East Hartford.

- 746.** JERSEY CASTOR POMACE, manufacturer not known. Sampled from stock of A. W. Allen, Jr., Thompsonville, by the Station Agent.
- 748.** COTTON SEED MEAL. Sampled from stock of H. K. Brainard, Thompsonville, by the Station Agent.

ANALYSES AND VALUATIONS.

	706	723	746	748
Nitrogen,	5.01	5.73	4.95	6.55
Phosphoric acid,	1.89	2.06	1.55	3.52
Potash,	0.94	1.19	1.08	2.05
Cost per ton,	Not given.	\$30.00	32.00	29.00
Estimated value per ton,	\$21.25	24.29	20.74	29.85

723 appears to contain a large admixture of Cotton Seed Meal to which its greater content of nitrogen is due.

GROUND BONE AND DRIED BLOOD.

- 711.** BONE SAWINGS from stock of Wilder & Puffer, Springfield, Mass. Sampled and sent by R. E. Pinney, Suffield.
- 731.** PURE GROUND BONE, manufactured by H. J. Baker & Bro., N. Y. Sampled and sent by Dennis Fenn, Milford.
- 732.** BONE MEAL.
- 733.** BONE SAWINGS.
- 743.** "A" BONE.

The last three samples were manufactured by the Rogers & Hubbard Co., Middletown. **734** was sampled and sent by J. P. Barstow, Norwich. Numbers **732** and **733** by P. M. Augur, Middlefield. **733** is wet.

- 742.** DARLING'S FINE BONE, manufactured by L. B. Darling & Co., Pawtucket, R. I. Sampled and sent by J. P. Barstow, Norwich.
- 736.** DRIED BLOOD, manufactured by Sperry & Barnes, New Haven. Sampled and sent by J. J. Webb, Hamden.

MECHANICAL ANALYSES.

	711	731	732	733	743	742
Fine, smaller than $\frac{1}{16}$ inch,	97	10	40	100	10	73
Fine-medium, smaller than $\frac{1}{8}$ inch,	3	16	35		13	21
Medium, smaller than $\frac{1}{4}$ inch,		35	25		31	6
Coarse-medium, smaller than $\frac{1}{2}$ inch,		38	0		46	0
Coarse, larger than $\frac{1}{2}$ inch,		1	0		0	0
	100	100	100	100	100	100

CHEMICAL ANALYSES AND VALUATION.

	711	731	732	733	743	742	736
Nitrogen,	3.86	3.65	3.94	2.10	3.94	3.82	7.43
Phosphoric acid,	26.98	23.83	23.66	16.50	24.47	22.71	7.46
Cost per ton,	\$40.00*	40.00	37.50	25.00	38.00	42.00	35.00
Estimated value per ton, ...	45.37	33.99	38.63	26.94	35.16	39.02	44.61

SUPERPHOSPHATES AND SPECIAL MANURES.

- 720.** SUPERPHOSPHATE OF LIME, manufactured by Bosworth Bros., Putnam. Sampled and sent by James Allen, Putnam.
- 725.** QUINNIPIAC FERT. CO'S FISH AND POTASH. CROSSED FISH BRAND.
- 737.** QUINNIPIAC FERT. CO'S FISH AND POTASH. CROSSED FISH BRAND.
- 726.** QUINNIPIAC FERT. CO'S PHOSPHATE.

The last three samples were manufactured by the Quininiac Fertilizer Co., New London. **737** was sampled by C. T. Remington, Suffield, from stock of A. W. Allen, Jr., Thompsonville. **725** and **726** were sampled by the Station Agent from stock of R. B. Bradley, New Haven.

- 735.** SUPERPHOSPHATE OF LIME, 19 per cent. From stock of H. J. Baker & Bro., N. Y. Sampled and sent by J. J. Webb, Hamden.
- 766.** ACID PHOSPHATE OF LIME, 14 per cent., available phosphoric acid. H. J. Baker & Bro., N. Y., wholesale dealers. Sampled from stock of Wilson & Burr, Middletown, by J. M. Hubbard, Middletown.

* In bbls. net.

729. PELICAN BONE PHOSPHATE.**730. A. A. BRAND PHOSPHATE.**

Both the above were manufactured by H. J. Baker & Bro., N. Y. Sampled and sent by Dennis Fenn, Milford.

738. STOCKBRIDGE GRASS TOP-DRESSING, manufactured by the Bowker Fertilizer Co., Boston and N. Y. Sampled and sent by J. P. Barstow, Norwich.

ANALYSES AND VALUATIONS.

	720	725	737	726	735	766	729	730	738
Nitrogen as nitrates,	-----	1.64	.53	1.62	----	----	0.94	----	1.59
Organic nitrogen,	2.10	2.42	3.01	1.38	----	----	1.48	3.14	2.46
Soluble phos. acid,	5.50	.80	.43	5.43	19.33	11.50	6.35	6.51	6.10
Reverted phos. acid,	4.61	3.17	4.06	2.76	.31	1.22	2.21	2.28	.62
Insoluble phos. acid,	4.17	4.13	3.58	2.91	.35	.74	.73	.56	2.77
Potash,	2.23	4.19	3.97	2.35	----	----	2.87	2.15	3.69
Chlorine,	-----	8.61	8.15	4.60	-----	-----	4.51	2.22	3.14
Cost per ton,	\$38.00*	38.00	40.00	40.00	34.50	27.00	28.00	45.00	50.00
Estimated value per ton,	\$39.36	37.00	33.87	39.43	-----	-----	35.60	38.27	43.46
Cost of soluble phos. acid per 100 lbs. †	-----	-----	-----	-----	\$8.92	11.74	-----	-----	-----

* In bulk; \$40.00 in bags.

† In New York.

‡ Making no allowance for reverted and insoluble. Reckoning these at 9 and 6 cents per pound respectively, the cost of soluble in **735** is \$8.67 and in **766** is \$10.40 per 100 lbs.

S. W. JOHNSON,
Director.