

CONNECTICUT AGRICULTURAL EXPERIMENT STATION,

Bulletin No. 56, April 15, 1881.

- 549 Bone Saw Dust, manufactured and sold by the Holyoke Mfg. Co., Holyoke, Mass.
- 550 No. 1 Peruvian Guano, sold by Seth Chapman, 170 Front St., New York.
- 551 Tortoise Shell Saw Dust, manufactured and sold by F. S. Johnson, Plainville, Ct.

All the above were sampled and sent to the Station by J. W. Hemingway, Plainville, Ct.

	549	550	551
Nitrogen.....	3.72	5.57	14.72
Soluble phos. acid.....		3.23	
Reverted phos. acid.....		4.33	
Insoluble phos. acid.....	25.67	8.62	trace.
Potash,.....		2.40	
Estimated cost per ton....	\$41.00	\$50. 6	\$32.38
Cost at Plainville.....	\$37.00*	\$60.40†	\$30.00

—* At Holyoke, \$35 00 per ton.

—† At New York, \$2 90 per 100 lbs., = \$58.00 per ton; at Plainville, \$3 02 per 100 lbs.

Peruvian Guano as sold three years ago under guarantee was an excellent and cheap fertilizer that could be depended upon when purchased from the agents of the Peruvian Government. Now the case appears to be otherwise. The Chinca Island high grade deposits are exhausted and the material that is now put upon the market is of variable and often of inferior quality.

The complete analyses of the sample 550 is as follows:—

Organic and volatile matter, *.....	29.77
Sand and insoluble matter,.....	10.15
Iron oxide,	1.08
Lime	13.58
Magnesia,	2.10
Potash,	2.40
Soda,	11.39
Phosphoric acid,	16.18
Sulphuric acid,	8.14
Chlorine,.....	6.75
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	101.54
Deduct oxygen equivalent to chlorine.....	1.54
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	100.00
*With nitrogen,	5.57

S. W. JOHNSON, Director.