

**CONNECTICUT AGRICULTURAL EX-  
PERIMENT STATION.**

*Bulletin 32.—July 18, 1879.*

FERTILIZER ANALYSES.

**298.** Superphosphate of Lime.

Sampled by M. S. Baldwin,  
Naugatuck, June 23. From  
stock purchased of H. J.  
Baker & Bro., New York.

**299.** Pure Ground Bone.

**302.** Salts of Potash.

299 and 302, sampled by S.  
B. Wakeman, Saugatuck.  
From H. J. Baker & Bro.,  
New York.

	298	299	302
Nitrogen.....		5.81	
Sol. Phos. Acid.....	13.69		
Ev. Phos. Acid.....	1.10		
Ins. Phos. Acid.....	1.58	21.63	
Potash.....			22.98
Est. val per ton ....	\$38.47	\$40.52	\$49.47
Cost per ton.....	39.09	23.09*	51.25*
Cost of Sol. Phos. Acid in 298, 11 cents per lb.			

302 was sampled April 25. The specimen was quite dry when first taken, but standing in an imperfectly closed can, gathered moisture from the air and became quite wet.

This sample is mainly a carbonate of potash containing some sulphate a little muriate and also a little prussiate.

Carbonate of potash is quite corrosive and would be likely to injure vegetation if incautiously used. It is easily distinguished from sulphate and muriate by its effervescence when mixed with vinegar.

The above valuation is based on the Station—estimate for high grade sulphate, 7½ cents per lb. What allowance is to be made for the moisture which the sample has gained is of course uncertain.

It is quite important that all samples be secured in air-tight vessels and also that they be forwarded to the Station immediately after they are taken.

All kinds of potash salts gain moisture rapidly when exposed to the air in damp weather.

*Forrester's Special Fertilizers.*

The following samples were sampled and forwarded to the Station by S. B. Wakeman of Saugatuck, and were manufactured by H. J. Baker & Bro., New York city.

**300.** Forrester's Corn Fertilizer.

**301.** Forrester's Onion Fertilizer.

**303.** Forrester's Turnip Fertilizer.

**304.** Forrester's Potato Fertilizer.

	<b>300</b>	<b>301</b>	<b>303</b>	<b>304</b>
Nitrogen as ammonia .....	5.52	5.45	6.73	3.89
Organic nitrogen.....		1.91	1.18	.88
Sol. Phos. Acid.....	.44	1.73	.67	.24
Rev. Phos. Acid.....	4.86	2.76	3.53	5.08
Ins. Phos. Acid.....	1.46	.85	.29	1.79
Potash.....	13.09	7.39	8.30	10.31
Chlorine.....	3.53	1.76	2.60	2.82
Est. val. per ton.....	\$56.37	\$53.05	\$59.54	\$54.15
Cost per ton.....	50.00*	50.00*	53.50*	50.00*

\* In Saugatuck.

S. W. JOHNSON, *Director.*