

This may be illustrated, as it is done by Prof. Johnson, by supposing the valuable components of a fertilizer to be as follows:—

Ammonia, 3 per ct. at 14 cts., . . . . .	\$ .42
Soluble phosphoric acid, 11 per ct. at $12\frac{1}{2}$ cts.	1.37 $\frac{1}{2}$
Insoluble “ “ 10 per ct. at $4\frac{1}{2}$ cts.	.45
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Value of 100 lbs, . . . . .	\$ 2.24 $\frac{1}{2}$ X 20
“ one ton of 2,000 lbs., . . . . .	<hr/> <hr/> \$44.90

By this means Prof. Johnson determined the value of several fertilizers.

1st. *Mapes' Super-phosphate* from Newark, N. J. In 1852 its calculated value was \$44. In 1857 it had degenerated to \$15, owing to the introduction of worthless matter and the total absence of soluble phosphoric acid.

Another article, called “*Mapes' Nitrogenized*,” possessed a value, by calculation in 1856, of \$21; and in 1857 one sample proved to be worth \$14.50, and a second \$12.50, so that it seems to be going down pretty fast.

The name of *De Burg's Super-phosphate*, of Williamsburg, Long Island, so familiar to farmers from advertisements, proved to be worth, in 1852, \$32; in 1856, \$36.25, and in 1857 it had fallen to \$21.50.

Coe's *Super-phosphate*, from Middletown, Conn., has proven more uniform in composition, as shown by seven analysis between 1854 and 1857, its value being as follows:—\$33.75, \$36.25, \$33, \$41, \$33, \$35 and \$33.25.

Prof. Johnson calculated the value of Rhodes' *Super-phosphate of lime*, (a Baltimore article,) from three analysis, to be \$32.25, and his results, he remarks, do not seriously differ from those of Dr. Higgins and Bickell.

*Jourdan's Super-phosphate*.—Since this chapter was placed in the hands of the printer, Dr. Piggot has reported to me the results of analysis of two samples of an article under the above name. They were furnished by Maj. Edward Wilkens, of Kent county.

The first was purchased in 1858, and was used with good effect by many farmers in that county. The second was purchased in 1859. Their composition is as follows:

	1858	1859
Gypsum or plaster of Paris, . . . . .	25.30	39.31
Soluble phosphate of lime, . . . . .	2.53	2.95
Free phosphoric acid, . . . . .	6.86	4.47
Lime, otherwise combined, . . . . .	2.07	