

Alumina, (pure clay),.....	4.80
Lime (as quick lime),.....	1.70
Magnesia, (calcined),.....	1.82
Potash,.....	.90
Soda,.....	.54
Phosphoric acid,.....	.31
Sulphuric acid,.....	.12
Chlorine,.....	.13
	99.57

This soil had been cultivated every year for the last ten years in corn, and its estimated produce was about twenty barrels per acre.

I propose now to give the analyses of several soils of notorious fertility in our own State, from which it will be seen that, although in many constituents they are very far behind that from Illinois, Missouri, and that from the Nile, yet they are very productive.

\* Soil from Col. Capron, on Balto. and Washington Railroad, Prince George's county.

#### FIELD No. 10.

	Improved.
Silica, (sand) coarse,.....	22.20
Silica, fine,.....	73.20
Silica, (soluble,).....	.08
Alumina,.....	1.45
Iron as peroxide,.....	2 51
Iron and alumina as phosphate, trace.....	
Lime as carbonate,.....	.35
Magnesia,.....	.11
Potash and Soda,.....	.09

#### No. 12.

	Imp.
Silica, coarse, (sand,).....	49.34
Silica, fine,.....	43.70
Alumina,.....	2.50
Iron as peroxide,.....	3.50
Phos. al. et ferri,.....	.10
Lime as carbonate, (slaked lime,).....	.25
Magnesia,.....	.26
Potash and soda,.....	.15

The vegetable (organic matter) was as follows: No. 10 improved 6.80—No. 12 improved 5.15.

N. B.—In the above analyses the specimen was first deprived of organic matter.

\* These soils had just produced about 38 bushels of wheat per acre.