

This soil produces from twenty to thirty bushels of wheat, and from six to ten barrels of corn to the acre, at present. It has been manured with two hundred bushels of Schuylkill lime to the acre. This soil in its original condition, contained an abundance of Magnesia. This was not the best lime for it. A specimen taken from an adjoining field gave two-tenths of one per cent. of magnesia. Before the application of the lime, the owner of this land informed me, that it would not have produced three bushels of wheat to the acre.

No. 2.

Specimen from the upper district of Queen Anne's county, taken to the depth of five inches, was composed as follows, of—

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|---------------------------------|-------|
| Vegetable matter, | 3.50 |
| Silica, | 91.10 |
| Alumina, (clay,) | 2.50 |
| Iron as per oxide, | 2.00 |
| Iron and alumina as phosphates, | .05 |
| Lime as carbonate, | .04 |
| Magnesia as carbonate, | .70 |
| Potash and soda, | .03 |
| Sulphuric acid, | .001 |
| Chlorine, | .001 |

This soil had never been limed, it originally contained only twelve bushels of lime to the depth of 12 inches. It has a large abundance of magnesia, and is very poor. The manure is of course *lime*, and the common resources of the farm.

No. 3.

Specimen of unimproved white oak land from Kent Island, in Queen Anne's county. Specimen taken to the depth of five inches, and thoroughly dried gave as follows, of—

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|----------------------------------|-------|
| Vegetable matter, | 3.78 |
| Silica and sand, | 92.30 |
| Alumina, | 2.00 |
| Iron as per oxide, | 1.25 |
| Iron and alumina, or phosphates, | .08 |
| Lime as carbonate, | .08 |
| Magnesia, | .29 |
| Potash and soda, | .16 |
| Sulphuric acid and | |

Chlorine, not estimated quantitatively, but evidently enough.

This land does not produce five buhsels of wheat to the acre, though it has all of the constituents of a fertile soil, except lime, in as good proportions as the other soils which produce twenty-five bushels of wheat.

No. 4.

Specimen from near Miles' River, Talbot county, was composed as follows, of—

| | |
|-----------------|-------|
| Organic matter, | 5.00 |
| Silica, (sand,) | 91.70 |