

Iron and alumina as phosphates,	.	.	.	.	.10
Lime as carbonate,	.	.	.	.	.42
Magnesia,	.	.	.	.	.13
Potash,	.	.	.	.	.18
Soda,	.	.	.	.	.18
Chlorine,	.	.	.	.	.04
Sulphuric acid,	.	.	.	.	.04

All of the above are productive soils, growing from eight to ten barrels of corn per acre, twenty bushels of wheat, from 800 to 1000 pounds of tobacco, and very heavy crops of clover. They differ somewhat in their productive capacity, and I know of no better application to them than the magnesian limes, which I have before recommended.

TABLE LAND SOILS.

These embrace a very large part of Prince George's, Charles, and St. Mary's counties, being that section of them lying at the head of streams which empty into the Patuxent, and Potomac rivers, and not included in the description which I have given before. They occupy the flat country in Prince George's, commencing near Crawford's Mill, thence going down the county by Horse Head and T. B. They are found in Charles county, extending to the brow of the hills which overlook the water courses; they also form much of what are called the forests of St. Mary's. These soils are either very compact, close, and retentive of water, and with a yellow clay subsoil, and they are covered with the box oak, small stunted black oak, or they are loose and sandy, bearing cedar and pine. They are sterile and unproductive, have but a scant population, and though very near, yet stand out in striking contrast to the forest lands in Prince George's, the valley lands in Charles, or those in St. Mary's, which border on the Patuxent and Potomac.

The stiff variety of these soils have fine physical capacities and present great inducements in their purchase to either settlers or speculators, being very cheap, in many cases covered with wood, and being very convenient to market. They can be *easily* and *cheaply* improved, and will, in a few years, greatly increase in value.

The chief deficiency of the stiff variety is phosphoric acid and magnesian lime. If magnesia alone could be procured, it would answer a good purpose; but as that cannot be done, the magnesian lime would be the best application. To supply the present wants of the soil, when the lime is first applied, a small quantity of crude potash should be used, say