

These soils commence in Anne Arundel county, a few miles above a line from the extreme point of tide-water, on South river to the Patuxent, extending down on the ridge, between the Patuxent river and the tributaries of the Chesapeake Bay, gradually running into the light sandy and white oak lands on the Chesapeake side, and into the level and compact soils, which form generally a narrow belt between them and the sandy lands which border on the Patuxent. They occupy this ridge, pass down into Calvert county for some distance below Smithville; they then pass over the Patuxent in a narrow belt, and are found at intervals in St. Mary's county, passing a short distance below Chaptico, and finally cease at the Wicomico river. In Prince George's county, this soil commences near Magruder's tavern, thence down the county to the sandy soils bordering on the Patuxent river, and sometimes running up to it. On the west side it is bordered by the scrubby and box oak soils, next to the Potomac. It lies in the neighborhood of Upper Marlboro', the county town of Prince George's county, going down by Nottingham, and is found bordering the river, near Aquasco Mills, (Woodville,) in the lower end of the county. This variety of soil seems to dip down and be covered by one very inferior to it, in the lower part of Prince George's and Charles counties, as we find in the valleys in these places the same generous soil. This is the case on Hanson's branch and the Piscatawa, in Prince George's, in the valley of Port Tobacco, in Charles, and indeed on all of the valleys in these two counties. This variety of soil crops out at a greater or less distance from the level flat table land, which forms a large part of the soil of parts of these counties. The part of the country which these soils embrace differs in many places, and I by no means intend the above for more than an accurate general description of them. To describe every change that takes place, and every sub-variety that occurs, would not be in place in a general report.

The following are some of the analyses made of this soil:—

Specimen from the summit level, on the road from the Governor's Bridge to the head of South river.

Organic matter,	.	.	.	.	8.50
Silica (sand),	.	.	.	.	83.30
Iron as peroxide and alumina,	.	.	.	.	6.80
Iron and alumina as phosphates,	.	.	.	.	.12
Lime as carbonate,	.	.	.	.	.35
Magnesia,	.	.	.	.	.22
Potash,	.	.	.	.	.23
Soda,	.	.	.	.	.15
Chlorine,	.	.	.	.	.09
Sulphuric acid,	.	.	.	.	.02