The Chenango soils in Northampton County are found along the Delaware River and Jacoby Creek. Near Portland the soils are stony and underlain by a deep deposit of gravel, and are excessively drained and droughty. The largest area lies east of Martin Creek, and has a level to gently sloping surface and good drainage. The sandy loam and fine sandy loam types are the most extensive, but some gravelly or stony areas are found. The soils here are devoted to general farm crops, of which excellent yields are obtained. Potatoes do well, yielding from 100 to 200 bushels per acre. Alfalfa does well where the land is properly prepared. The soils are deficient in organic matter, and in most cases need lime. Market-garden and truck crops do well, and their production could very profitably be extended. The land is valued at $75 to $150 an acre.

**HOLSTON SOILS**

The Holston soils are not extensively developed in this survey, being found only in small areas. The soils occur as second bottoms and terraces along the larger streams, and lie above all but the highest overflows. They represent the deposits made when the streams flowed at higher levels than they do at the present time. The surface soils are grayish yellow to dark grayish brown in color with yellow, gray, or mottled subsoils. Drainage conditions vary greatly. The lighter types are normally well drained, but the heavier often need artificial drainage. Several types were encountered, the silt loam being of greatest extent.

The Holston silt loam consists of six to eight inches of gray to grayish-brown silt loam, resting on a yellow to mottled silty clay loam, grading with depth into a mottled silty clay. The other types encountered included fine sandy loam, loam, clay loam, and clay, and occurred in very small areas.

In Lehigh and Northampton counties there are small areas of Holston soils along the Lehigh River and its tributaries. Some truck and garden crops are grown, but the soils are generally utilized for the general farm crops—corn, wheat, and hay. The yields are moderate to large. The soils along the Lehigh River are better drained than elsewhere.