

Gaston County, North Carolina

ApB—Appling sandy loam, 1 to 6 percent slopes

Map Unit Setting

National map unit symbol: 3s6d

Elevation: 200 to 1,400 feet

Mean annual precipitation: 37 to 60 inches

Mean annual air temperature: 59 to 66 degrees F

Frost-free period: 200 to 240 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Appling and similar soils: 92 percent

Minor components: 4 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Appling

Setting

Landform: Interfluves

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Saprolite derived from granite and gneiss and/or schist

Typical profile

Ap - 0 to 6 inches: sandy loam

Bt1 - 6 to 18 inches: sandy clay loam

Bt2 - 18 to 36 inches: clay

BC - 36 to 52 inches: sandy clay loam

C - 52 to 80 inches: sandy loam

Properties and qualities

Slope: 2 to 6 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Low

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Moderate (about 8.5 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: B



Hydric soil rating: No

Minor Components

Vance

Percent of map unit: 3 percent

Landform: Interfluves

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Convex

Hydric soil rating: No

Helena

Percent of map unit: 1 percent

Landform: Ridges

Landform position (two-dimensional): Summit, footslope

Landform position (three-dimensional): Interfluve

Down-slope shape: Concave

Across-slope shape: Concave

Hydric soil rating: No

Data Source Information

Soil Survey Area: Gaston County, North Carolina

Survey Area Data: Version 20, Jun 4, 2020



Gaston County, North Carolina

MaB2—Madison sandy clay loam, 2 to 8 percent slopes, moderately eroded

Map Unit Setting

National map unit symbol: 2mw69

Elevation: 200 to 1,400 feet

Mean annual precipitation: 37 to 60 inches

Mean annual air temperature: 59 to 66 degrees F

Frost-free period: 200 to 240 days

Farmland classification: All areas are prime farmland

Map Unit Composition

Madison, moderately eroded, and similar soils: 85 percent

Estimates are based on observations, descriptions, and transects of the mapunit.

Description of Madison, Moderately Eroded

Setting

Landform: Interfluves

Landform position (two-dimensional): Summit

Landform position (three-dimensional): Interfluve

Down-slope shape: Convex

Across-slope shape: Convex

Parent material: Residuum weathered from mica schist and/or other micaceous metamorphic rock

Typical profile

Ap - 0 to 6 inches: sandy clay loam

Bt - 6 to 26 inches: clay

BC - 26 to 34 inches: sandy clay loam

C - 34 to 80 inches: loam

Properties and qualities

Slope: 2 to 8 percent

Depth to restrictive feature: More than 80 inches

Drainage class: Well drained

Runoff class: Medium

Capacity of the most limiting layer to transmit water

(Ksat): Moderately high to high (0.57 to 1.98 in/hr)

Depth to water table: More than 80 inches

Frequency of flooding: None

Frequency of ponding: None

Available water capacity: Moderate (about 8.3 inches)

Interpretive groups

Land capability classification (irrigated): None specified

Land capability classification (nonirrigated): 2e

Hydrologic Soil Group: B



Hydric soil rating: No

Data Source Information

Soil Survey Area: Gaston County, North Carolina
Survey Area Data: Version 20, Jun 4, 2020

