

NSSL Pedon Number: 80P0418 Soil Survey Number S80-GA-237-001

Location: Putnam County, Georgia

Putnam Co. 3 km N of Lake Sinclair 0.6 km N of dairy barn on US Hwy 441 6 m E of rd right of way in pasture.

Soil consists of very deep, well drained, moderately permeable soils that formed in materials weathered from dark colored rocks high in ferromagnesian minerals. These soils are on gently sloping to moderately steep uplands and high stream terraces in the Piedmont. Slopes are commonly 2 to 15 percent but range up to 25 percent.

DRAINAGE AND PERMEABILITY: Well drained; medium to rapid runoff; moderate permeability.

GEOGRAPHIC SETTING: on gently sloping to moderately steep uplands and high stream terraces in the Piedmont. Slopes are commonly 2 to 15 percent but may range up to 25 percent. Elevation is 500 to 1100 feet. Average annual temperature is 59 to 65 degrees F., and average annual precipitation is 43 to 50 inches.

USE AND VEGETATION: Cleared areas are used for small grain, corn, cotton, soybeans, grain sorghum, hay, and pasture. The original forest consisted of white oak, red oak, post oak, hickory, yellow-poplar, and cedar; reforested areas are in shortleaf and loblolly pine.

Particle Size Control Section: _____

Parent Material:

Classification: _____

Diagnostic Horizons: _____

-- 0 to 18 cm; dark reddish brown (2.5YR 3/4) interior moist loam; moderate medium granular structure; , friable; many fine roots throughout; strongly acid (pH=5.3); abrupt smooth boundary.

Worm cast evident.

80P2254

-- 18 to 28 cm; dark red (2.5YR 3/6) interior moist loam; moderate medium granular structure; , friable; many fine roots throughout; strongly acid (pH=5.3); clear smooth boundary.

Worm casts evident.

80P2255

-- 28 to 48 cm; dark red (2.5YR 3/6) interior moist clay; weak medium granular structure; , friable; common fine roots throughout; manganese or iron-manganese coats on faces of peds and clay films on faces of peds; very strongly acid (pH=4.8); gradual smooth boundary.

80P2256

-- 48 to 58 cm; dark red (2.5YR 3/6) interior moist clay; moderate medium subangular blocky structure; , friable; few fine roots throughout; many manganese or iron-manganese coats on faces of peds and clay films on faces of peds; very strongly acid (pH=4.8); gradual wavy boundary.

80P2257

-- 85 to 120 cm; dark red (2.5YR 3/6) interior moist clay; moderate medium subangular blocky structure; , friable; continuous clay films on faces of peds; very strongly acid (pH=4.8); gradual wavy boundary.

80P2258

--120 to 180 cm; dark reddish brown (2.5YR 3/4) interior moist clay; common medium mottles; moderate medium subangular blocky structure; , friable; continuous clay films on faces of peds; very strongly acid (pH=4.8).

80P2259

RANGE IN CHARACTERISTICS: Solum thickness is more than 60 inches and depth to bedrock is more than 6 feet. Reaction of all horizons ranges from very strongly acid to slightly acid, except those surface soils which have been limed. Concretions range from few to common in the upper part of most pedons. Flakes of mica are none to common. Thin gravel lines are in some pedons below 60 inches.

