

Pedon 6

The Pedon 6 series consists of very deep, nearly level, moderately well and somewhat poorly drained soils in the Lower Coastal Plain. They have formed in sandy and loamy marine sediment. Near the type location, mean annual temperature is 63 degrees F., and mean annual precipitation is 50 inches. Slopes range from 0 to 3 percent.

TAXONOMIC CLASS:

TYPICAL PEDON: Pedon 6 fine sand - cultivated. (Colors are for moist soil unless otherwise stated.)

_____--0 to 8 inches; dark gray (10YR 4/1) fine sand; single grained; very friable; many fine roots; many clean sand grains; slightly acid; abrupt smooth boundary. (3 to 8 inches thick)

_____--8 to 12 inches; light gray (10YR 7/1) fine sand; single grained; loose; few medium roots; moderately acid; clear wavy boundary. (0 to 12 inches thick)

_____--12 to 23 inches; dark brown (7.5YR 3/2) fine sand; massive; friable; weakly cemented; many sand grains coated with organic matter; few clean sand grains; strongly acid; abrupt irregular boundary.

_____--23 to 28 inches; brown (10YR 5/3) fine sand; single grained; loose; few fine weakly cemented concretions; many sand grains coated with organic matter; common clean sand grains; strongly acid; clear wavy boundary. (2 to 25 inches thick)

_____--28 to 36 inches; light gray (10YR 7/2) fine sand; single grained; loose; few fine and medium brown (10YR 5/3) concretions; moderately acid; clear smooth boundary. (0 to 10 inches thick)

_____--36 to 40 inches; brownish yellow (10YR 6/6) sandy loam; many medium distinct light gray (10YR 7/2) iron depletions; weak medium subangular blocky structure; friable; sand grains are coated and bridged with clay; few faint discontinuous clay films on faces of peds; strongly acid; clear wavy boundary (0 to 8 inches thick)

_____--40 to 66 inches; light gray (10YR 7/1) clay loam; weak medium subangular blocky structure; firm; plastic; sticky; very strongly acid. (5 to 40 inches thick)

TYPE LOCATION: New Hanover County, North Carolina; 0.4 mile north of junction of Highways NC 132 and US 421, 300 yards west of US 421, 20 feet north of field road.

RANGE IN CHARACTERISTICS: Solum thickness ranges from 36 to more than 60 inches. The soil is moderately acid through extremely acid, except where the surface has been limed. Some pedons contain few to common brown nodules that are firm and strongly cemented.

DRAINAGE AND PERMEABILITY: Moderately well drained and somewhat poorly drained; slow runoff; permeability is rapid in the upper sandy horizons and moderate in the 36 - 40 inch horizon. The water table is estimated to rise to depths of about 18 to 30 inches 1 to 4 months during most years.