

Pedon 11

This series consists of deep, moderately well to somewhat poorly drained soils formed on terraces and outwash plains. These are nearly level to gently sloping soils. They typically have loamy fine sand A and B horizons and loamy sand and sand C horizons at depths of 15 to 25 inches.

TYPICAL PEDON: Pedon 11 loamy fine sand - forested (Colors are for moist soil.)

_____ --2 to 0 inches, dark reddish brown (5YR 2.5/2) organic material laced with many roots; moderate very fine granular structure; very friable; many roots; contains a few polished sand grains; very strongly acid; abrupt smooth boundary. (1 to 3 inches thick)

_____ --0 to 2 inches, dark brown (7.5YR 3/2) loamy fine sand; weak to moderate fine granular structure; very friable; many roots; strongly acid; abrupt smooth boundary. (1 to 3 inches thick)

_____ --2 to 5 inches, light brownish gray (10YR 6/2) loamy fine sand; weak fine to medium granular structure; friable; common roots; very strongly acid; abrupt smooth boundary. (2 to 6 inches thick)

_____ --5 to 11 inches, yellowish red (5YR 4/6) loamy fine sand; weak fine granular structure; friable; many roots; contains few slightly firm dark reddish brown (5YR 3/2) concretions 0.25 to 0.5 inch in diameter; nearly all sand grains coated; strongly acid; clear wavy boundary. (4 to 7 inches thick)

_____ --11 to 18 inches, dark yellowish brown (10YR 4/4) loamy fine sand; common medium distinct mottles of gray (10YR 5/1), brown (10YR 5/3) and yellowish red (5YR 5/8); weak fine and medium granular structure; friable; few roots; a few slightly firm concretions 0.25 to 0.5 inch in diameter having reddish brown (5YR 4/4) interiors; numerous dark colored sand grains; strongly acid; gradual irregular boundary. (5 to 8 inches thick)

_____ --18 to 30 inches, olive brown (2.5Y 4/4) loamy sand grading to olive (5Y 5/4) in the lower part; few fine distinct mottles of yellowish red (5YR 5/8) in the upper part and common medium distinct brown to dark brown (7.5YR 4/4) and grayish brown (2.5Y 5/2) in lower part; single grain; loose; slightly compact in place; numerous dark colored sand grains (15-25%); strongly acid; gradual wavy boundary. (10 to 15 inches thick)

_____ --30 to 60 inches, dark gray (5Y 4/1) and gray (5Y 5/1) sand; common fine faint grayish brown (2.5Y 5/2) mottles; single grain; loose; contains a few small gray (5Y 5/1) silt and very fine sand lenses 0.5 inch to 3 inches in diameter near top of horizon; numerous dark minerals and unstained quartz grains; strongly acid.

TYPE LOCATION: Somerset County, Maine; town of Madison, 0.5 mile south of State Route 148 on Macadam Road, 0.25 mile east of Madison town line, 200 yards south of abandoned barn.

GEOGRAPHIC SETTING: These soils are nearly level to gently sloping on undulating terraces and outwash plains. Slopes range from 0 to 8 percent. The soils

developed in glacial outwash material of nearly uniform fine and medium sand sizes. The climate is humid and cool temperate. Mean annual air temperature ranges from 38 to 44 degrees F; mean annual precipitation from 34 to 44 inches and the frost-free days from 80 to 140.

DRAINAGE AND PERMEABILITY: Moderately well and somewhat poorly drained. Runoff is slow. Permeability is moderately rapid to rapid. Depth to seasonal high water table ranges from 12 to 28 inches.

USE AND VEGETATION: Most of the soil is wooded. Woodland species include white pine, balsam fir, red and white spruce, and sugar maple. Cleared areas are used mostly for growing forage crops.