

ICE LAID DEPOSITS

- Thin Till
- Thick Till
- End Moraine deposits

ACIAL MELT-WATER DEPOSITS

Deposits

- Fines (very fine sand, silt, and clay)
- Gravel
- Sand and Gravel
- Sand

Coarse Deposits

- Gravel overlying Sand and Gravel
- Gravel overlying Sand
- Sand and Gravel overlying Sand
- Sand and Gravel overlying Sand overlying Sand and Gravel
- Sand overlying Gravel
- Sand overlying Sand and Gravel

Coarse Deposits Overlying Fine Deposits

- Gravel overlying Sand overlying Fines
- Gravel overlying Fines
- Gravel overlying Sand overlying Sand overlying Fines
- Sand and Gravel overlying Fines
- Sand overlying Fines

Coarse Deposits Overlying Coarse Deposits

- Fines overlying Sand and Gravel
- Fines overlying Sand

POSTGLACIAL DEPOSITS

- Floodplain Alluvium
- Alluvium overlying undifferentiated Coarse deposits (g, sg, s)
- Alluvium overlying Sand
- Alluvium overlying Fines
- Alluvium overlying undifferentiated Coarse deposits overlying Fine deposits
- Alluvium overlying undifferentiated Fine deposits overlying Coarse deposits
- Swamp deposits
- Swamp deposits overlying Sand
- Swamp deposits overlying Fines
- Swamp deposits overlying Sand overlying Fines
- Swamp deposits overlying Fines overlying Sand
- Salt-Marsh and Tide-Marsh deposits
- Salt-Marsh and Tide-Marsh deposits overlying Sand
- Salt-Marsh and Tide-Marsh deposits overlying Fines
- Beach deposits
- Artificial Fill

* Alluvium may be overlying any of the Coarse deposits (g, sg, s)

Figure 1. Legend for Figure 2.

Legend for Figure 2:

Gravel: 10, 25, 16, 08, 04, 02, 01, 005, 0025, 00015, 1 in

Sand: 250, 64, 4, 2, 1, 0, 5, 25, 125, 608, 004, mm

Fines: 200, 60, 40, 20, 10, 5, 2, 1, 0, 5, 25, 125, 608, 004, mm

Gravel Particles: 200, 60, 40, 20, 10, 5, 2, 1, 0, 5, 25, 125, 608, 004, mm

Sand Particles: 250, 64, 4, 2, 1, 0, 5, 25, 125, 608, 004, mm

Fine Particles: 200, 60, 40, 20, 10, 5, 2, 1, 0, 5, 25, 125, 608, 004, mm

Unconsolidated glacial and postglacial deposits, that range from a few feet to several hundred feet in thickness, overlie the bedrock surface of Connecticut (see Block Diagram). This map portrays the distribution of these deposits. The legend is designed to highlight the relationship between the depositional origins and the composition and character of the materials portrayed. Most of the Connecticut glacial and postglacial deposits can be divided into two broad depositional categories: Glacial Ice-Land deposits (tills and moraine) which are generally deposited on the land surface by glacial meltwater, and Glacial Water-Land deposits (stratified deposits) which are most commonly concentrated in valleys and lowlands. A mapping emphasis is placed on stratified meltwater deposits, which are the most important and variable, and historically influenced development patterns throughout the state.

Glacial Ice-Laid deposits (tills and moraine) were derived directly from the ice and consist of nonsorted, generally nonstratified mixtures of grain-sizes ranging from clay to large boulders. The matrix of most tills is predominantly sand and silt and boulders can be sparse to abundant. Some tills contain lenses of sorted sand and gravel and occasionally masses of laminated fine-grained sediment. The lack of sorting and stratification typical of ice-laid deposits often makes them poorly drained, difficult to dig in, and places a medium-sized boulder under and unsuited for septic systems. Till blankets the bedrock surface in variable thicknesses and commonly underlies stratified meltwater deposits (see Block Diagram). End moraine deposits (primarily albion till) occur principally in southeastern Connecticut.

SURFICIAL MATERIALS DATA – Surficial Materials shown on this map are from the Surficial Material Poly dataset which contains polygon data intended to be used at 1:24,000 scale. Based on Connecticut Surficial Materials digital data published in 1995 by the Connecticut Department of Environmental Protection, in cooperation with the U.S. Geological Survey. These data were digitized from the 1:24,000 scale compilation sheets prepared for the statewide Surficial Materials Map of Connecticut, (Stone, J.R., Schafer, J.P., London, E.H. and Thompson, W.B., 1992, U.S. Geological Survey special map, 2 sheets, scale 1:25,000).

RELATED INFORMATION
This map is intended to be printed at its original dimensions in order to maintain the 1:24,000 scale (1 inch = 2000 feet).

Postglacial Sediments (primarily floodplain alluvium and swamp deposits) are less widely distributed and are typically thinner than the glacial deposits that they overlie, but they are locally important ecological, agricultural, commercial, and recreational resources. Talus, a result of rockfall at the base of steep bedrock (primarily trap rock) cliffs, provides a cool damp ecological niche. Beach, marsh and swamp deposits are key ecological elements of coastal and poorly drained inland settings. Deposits of floodplain alluvium are largely composed of sands, gravels and silts that have been reworked from glacial deposits and mixed with organic matter which increases their fertility. Despite their flood-prone nature, low, flat, fertile floodplains have historically been attractive for agricultural uses and development related to water-dependent commerce.

EXPLANATION OF SURFACE VIEW

a	Alluvium
t	Till and bedrock
s/f	Sand overlying fines

MAPS AND DIGITAL DATA - Go to the CT ECO website for this map and a variety of others. Go to the CT DEP website for the digital spatial data shown on this map.

MAP LOCATION

5 Miles

State Plane Coordinate System of 1983, Zone 35S
Lambert Conformal Conic Projection
North American Datum of 1983

