

ACIAL ICE-LAKE DEPOSITS

- Thin Till
- Thick Till
- End Moraine deposits

GLACIAL MELT-WATER DEPOSITS

Fine Deposits

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

Covered 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

Covered Coarse Deposits Overlying Fine Deposits

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

Covered Fine 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 Sand
- Swamp deposits overlying Sand overlying Fines
- Swamp deposits overlying Fines overlying Sand
- Salt-Marsh and Tidal-Marsh deposits
- Salt-Marsh and Tidal-Marsh deposits overlying Sand
- Salt-Marsh and Tidal-Marsh deposits overlying Fines
- Talus
- Beach deposits
- Artificial Fill

* Alluvium may be Any of the Coarse deposits (g. sg. s)

w Water

Unconsolidated glacial and postglacial deposits, that range from a few feet to several hundred feet in thickness, overlie the bedrock (see Fig. 1). These deposits are composed of a wide range of the areal extent, subsurface, grain-size, and textural distributions of these surficial materials. The current research is designed to highlight the relationship between the depositional origins and the distribution of the character of the materials portrayed. Most of Connecticut's surficial material is glacially derived, and can be divided into two broad depositional categories: Glacial Ice-land deposits (fills and moraine) which are generally exposed in the western half of the state, and Glacial Melwater deposits (stratified deposits), which are most commonly concentrated in valleys and lowlands. A major ongoing research project is to determine the depositional influence their distribution and character have historically influenced depositional 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 material. The high clay content and fine-grained nature of till deposits often makes them poorly drained, difficult to dig in or plow, moisture sources of groundwater 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 ablation till) occur principally in southeastern Connecticut.

SURFICIAL MATERIALS DATA – Surficial Materials shown on this map are from the Surficial Material Poly dataset which is the polygon data intended to be used in the Quaternary Geologic Map of Connecticut. Based on Connecticut Department of Environmental Protection, Bureau of Geology and Earth Resources, 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 Connecticut Sound and Long Island Sound, Connecticut, by J.P. Schaefer, J.P., London, E.H. and Thompson, W.B., 1992. U.S. Geological Survey special map, 2 sheets, scale 1:125,000.

RELATED INFORMATION
This map is intended to be
order to maintain the 1:24,000

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.

