

EXPLANATION

This map is intended to serve as an aid in reconnaissance evaluation of unconsolidated materials and can be used to identify areas of potential interest.

The units on this map indicate the first material of substantial thickness (generally greater than 3 feet) encountered beneath the soil layer. The soil layer (commonly a foot or two thick) is not mapped. Other materials, different in composition, may underlie each map unit (see cross sections) or may occur as minor lenses within each map unit.

THIS MAP SHOULD NOT BE USED AS A SUBSTITUTE FOR ON-SITE INVESTIGATION.

Most unconsolidated materials are mixtures of the three particle-size classes defined in the diagram below. This diagram also relates these three size classifications to the Wentworth classification (Wentworth, 1922) which can be compared with other classifications used in engineering and soil science.

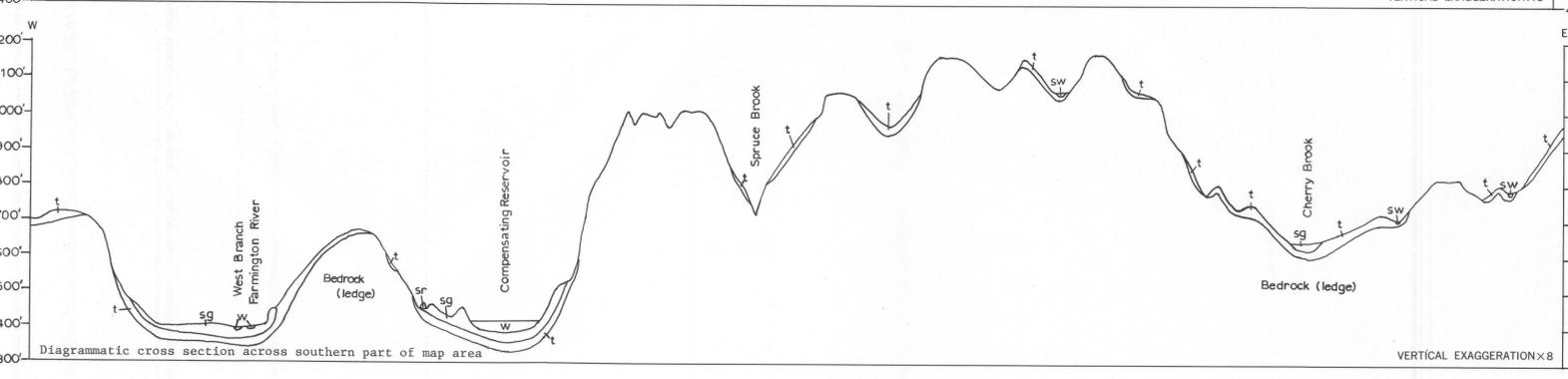
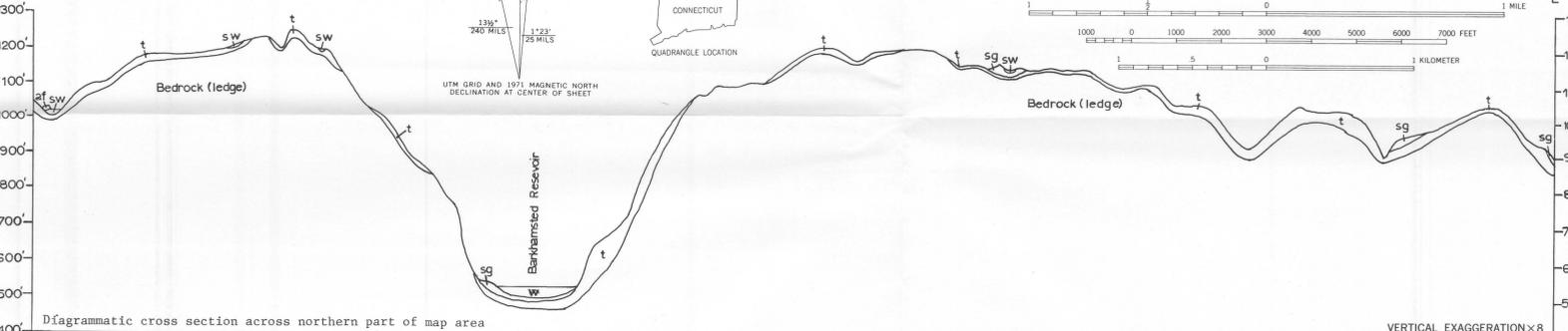
PARTICLE-SIZE CLASSIFICATION									
Classification for use in reports (Illustration in inches)									
COARSE		MEDIUM			FINE				
Boulders	Cobbles	Pebbles	Gravel	Sand	Silt	Clay			
128	64	32	16	4	2	1/2			
Wentworth classification (Illustration in millimeters)									

Materials mapping involves a visual estimate of particle-size distribution in a deposit by the field geologist. Percentages of particle sizes therefore may vary somewhat from place to place beyond the limits defined in the map units below.

- sg**
SAND AND GRAVEL
Particle sizes range from 100 percent coarse to 25 percent coarse and 75 percent medium
 - s**
SAND
Particle sizes range from 25 percent coarse and 75 percent medium through 100 percent medium to 50 percent medium and 50 percent fine
 - t**
TILL (HARDPAN)
Particle sizes range from coarse to fine in varying proportions. Some till, averaging less than 10 feet thick, is sandy, loose, and very stony; other till, commonly more than 10 feet thick, is less sandy, very compact, and less stony. Where these tills occur together, the sandy, loose till is always on top
 - sw**
SWAMP DEPOSITS
Undecomposed to partly decomposed organic matter, generally mixed or interbedded with varying amounts of fine, medium, and coarse particles. Extent and thickness of most swamp deposits is poorly known. **sw** indicates areas where till underlies swamp deposits
 - sr**
SLIDE ROCK (TALUS)
Large angular rock fragments at the base of cliffs; locally contains organic matter and silt
 - af/aft**
ARTIFICIAL FILL
Fill for highways, solid-waste disposal, and other major construction
af, predominantly earth fill
aft, predominantly trash fill
 - bedrock**
BEDROCK (LEDGE) OUTCROP
Bedrock exposed at ground surface; may be partly covered by thin soil. Ruled pattern shows areas of small, closely-spaced outcrops
 - w**
WATER BODIES
In general, lakes and ponds greater than 5 acres, or streams wider than 200 feet
- REFERENCES CITED**
Schnabel, R. W., 1970, Preliminary surficial map of the New Hartford quadrangle, Litchfield and Hartford Counties, Connecticut: U.S. Geol. Survey open-file rept. (scale 1:24,000).
Wentworth, C. K., 1922, A scale of grade and class terms for clastic sediments: Jour. Geology, v. 30, p. 377-392.



Base from U.S. Geological Survey, 1956; photorevised 1971
SCALE 1:24,000
Compiled from Schnabel (1970)



MAP SHOWING UNCONSOLIDATED MATERIALS, NEW HARTFORD QUADRANGLE, CONNECTICUT

By
Robert W. Schnabel
1973