

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

MANCHESTER QUADRANGLE
CONNECTICUT
7.5 MINUTE SERIES (TOPOGRAPHIC)

E X P L A N A T I O N

Availability of Water from
Unconsolidated Deposits



Areas in which most properly developed individual wells can be expected to yield less than 25 gpm (gallons per minute). Deposits include till, very fine sand, silt, and clay with a variable water-saturated thickness as well as sand, gravel, and interbedded sand and gravel with a water-saturated thickness of 10 feet or less.



Areas in which most properly developed individual wells can be expected to yield between 20 and 200 gpm. Deposits are mostly coarse to fine sand with a water-saturated thickness of 15 feet or more overlying unproductive very fine sand, silt, or clay.



Areas in which most properly developed individual wells can be expected to yield between 50 and 2,000 gpm. Deposits include fine to very coarse sand, gravel, and interbedded sand and gravel with a water-saturated thickness of greater than 10 feet, and, in areas adjacent to the Scantic River, interbedded sand and gravel that is overlain or "buried" by at least 15 feet of saturated very fine sand, silt, and clay.

Availability of Water from Bedrock

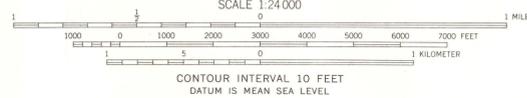
Unconsolidated deposits are almost everywhere underlain by sedimentary bedrock. Properly developed individual bedrock wells can be expected to yield from less than 10 gpm to as much as 600 gpm.

REFERENCES

- Colton, R.B., 1965, Geologic map of the Manchester quadrangle, Connecticut: U.S. Geol. Survey Geol. Quad. Map GQ-433.
- Cushman, R.V., 1964, Ground-water resources of north-central Connecticut: U.S. Geol. Survey Water-Supply Paper 1752, 96p.
- Ryder, R.B., and Weiss, L.A., 1971, Hydrogeologic data for the upper Connecticut River basin, Connecticut: Connecticut Water Resources Bull. No. 25, 54p.



Base from U.S. Geological Survey, 1963
10,000-foot grid based on Connecticut coordinate system
800-meter Universal Transverse Mercator grid ticks
zone 18



CONTOUR INTERVAL 10 FEET
DATUM IS MEAN SEA LEVEL

Compiled in part from data gathered in cooperation
with the Connecticut Department of Environmental
Protection



**AVAILABILITY OF GROUND WATER,
MANCHESTER QUADRANGLE,
CONNECTICUT**

By
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