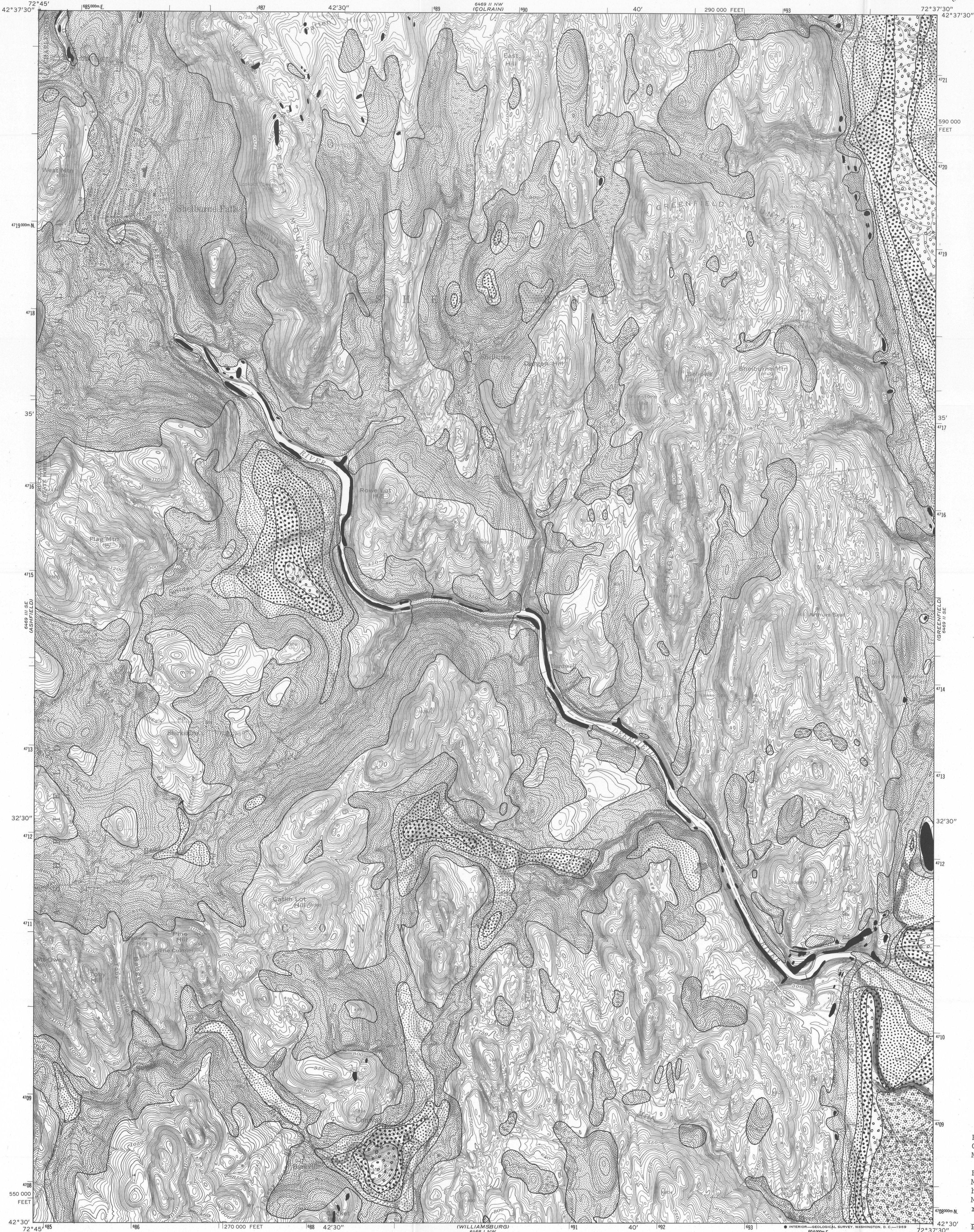


UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

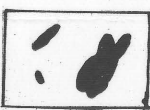


EXPLANATION

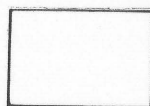
Map units indicate ranges in depth to bedrock (ledge) below land surface. The locations of most bedrock outcrops were obtained directly from the surficial geology map (Segerstrom, 1959) which shows only those outcrops that occur in or immediately adjacent to valley areas; a few locations were interpreted from the bedrock geology map (Segerstrom, 1956). The areal distribution of the map units 0-10 and 10-50 feet (0-3 and 3-15 meters) to bedrock is based on interpretation of the surficial and bedrock geology map supplemented by data from logs of wells and test holes (Hansen and others, 1973; Petersen and Maevsky, 1962) and geophysical studies (Weston Geophysical Engineers, 1967). The areal distribution of additional depths to bedrock is based almost entirely on subsurface data.

Depths shown are a generalization of localized highly variable conditions, they do not include any weathered (decomposed) bedrock, and are based on interpretations of the surficial and bedrock geology maps that have not been field checked. Therefore, this map should be used only to determine the general conditions that can be expected over an area, not as a substitute for detailed site evaluation.

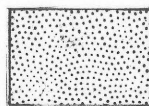
Depth to Bedrock, In feet (meters)



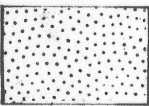
0
Bedrock outcrop
(Ledge exposed at land surface)
Shown primarily in or immediately
adjacent to valley areas



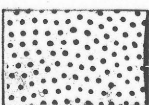
0-10 (0-3)
Includes outcrops on hillsides
and hilltops and may include
small areas in excess of 10
feet (3 meters). Corresponds
in most areas with "Ground
moraine" mapped by Segerstrom,
1959.



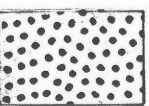
10-50 (3-15)
Corresponds in most areas with
"Thick ground moraine" and
"Drumlins" mapped by Segerstrom,
1959.



50-100 (15-30)



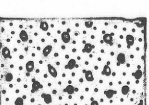
100-150 (30-46)



150-200 (46-61)



200-250 (61-76)



Greater than 250 (76)

REFERENCES

Hansen, B.P., 1972, Bedrock topography of the Connecticut River valley near Greenfield, Massachusetts: U.S. Geol. Survey open-file rept.

Hansen, B.P., Gay, F.B., and Toler, L.G., 1973, Massachusetts hydrologic-data report no. 13, hydrologic data of the Deerfield River basin, Massachusetts: U.S. Geol. Survey open-file rept., 59p.

Petersen, R.G., and Maevsky, Anthony, 1962, Massachusetts basic-data report no. 6, ground-water series, Western Massachusetts area: U.S. Geol. Survey open-file rept., 31p.

Segerstrom, Kenneth, 1956, Bedrock geology of the Shelburne Falls quadrangle, Massachusetts: U.S. Geol. Survey Geol. Quad. Map GQ-87.

Segerstrom, Kenneth, 1959, Surficial geology of the Shelburne Falls quadrangle, Massachusetts: U.S. Geol. Survey Geol. Quad. Map GQ-116.

Weston Geophysical Engineers, 1967, Compilation of geophysical studies conducted by Weston Geophysical Engineers, Inc. throughout Massachusetts for Massachusetts Water Resources Commission: Weston, Mass., Weston Geophys. Eng. Inc., 2 parts including maps and graphs.

MAP SHOWING DEPTH TO BEDROCK,
SHELBERNE FALLS QUADRANGLE.
MASSACHUSETTS

By
Clark J. Londquist

1974