

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY


COMMONWEALTH OF MASSACHUSETTS  
DEPARTMENT OF PUBLIC WORKS


EXPLANATION

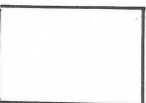
Map units indicate ranges in depth to bedrock (ledge) below land surface. The locations of bedrock outcrops and areas of closely spaced bedrock outcrops were obtained from the geologic map (Balk, 1957). The areal distribution of the map unit 0-10 feet (0-3 metres) to bedrock is based on interpretation of the geologic map supplemented by data from logs of wells and test holes (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 and the published bedrock contour map (Londquist, 1975).

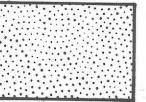
Depths shown are a generalization of localized highly variable conditions and do not include any weathered (decomposed) bedrock. Therefore, this map should not be used as a substitute for detailed site evaluation.

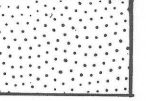
DEPTH TO BEDROCK, IN FEET (METRES)

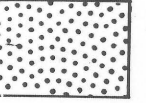
  
Bedrock outcrop  
(Ledge exposed at land surface)

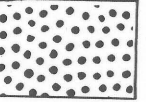
  
Numerous closely spaced bedrock outcrops separated by small areas of less than 10 feet (3 metres) to bedrock.

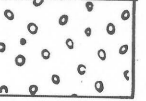
  
0-10 (0-3)

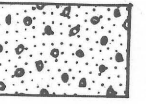
  
10-50 (3-15)

  
50-100 (15-30)

  
100-150 (30-46)

  
150-200 (46-61)

  
200-250 (61-76)

  
Greater than 250 (76)

REFERENCES

- Balk, Robert, 1957, Geology of Mount Holyoke quadrangle, Massachusetts: Geol. Soc. America Bull., v. 68, p. 481-504, 6 figs., 3 pl.
- Londquist, C.J., 1975, Contour map of the bedrock surface, Mount Holyoke quadrangle, Massachusetts: U.S. Geol. Survey Misc. Field Studies Map MF-640 A.
- Petersen, R.G., and Maevsky, Anthony, 1962, Massachusetts basic-data report no. 6, groundwater series, Western Massachusetts area: U.S. Geol. Survey open-file report, 31 p.
- Weston Geophysical Engineers, 1967, Compilation of geophysical studies conducted by Weston Geophysical Engineers, Inc. throughout Massachusetts for Massachusetts Water Resources Commission: Weston, Massachusetts, Weston Geophys. Eng. Inc., 2 parts, including maps and graphs.

Compiled in part from data gathered in cooperation with the Massachusetts Water Resources Commission, Division of Water Resources

MAP SHOWING DEPTH TO BEDROCK,  
MOUNT HOLYOKE QUADRANGLE,  
MASSACHUSETTS

By  
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1976