

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

EXPLANATION

Map units indicate ranges in depth to bedrock (ledge) below land surface. The locations of bedrock outcrops were obtained principally from the surficial geology map (Jahns, 1966) which shows only outcrops in or immediately adjacent to valley areas and from the bedrock geology map (Willard, 1952). The areal distribution of the map units 0-10 and 10-50 feet (0-3 and 3-15 metres) to bedrock is based on interpretation of the geologic maps supplemented by data from logs of wells and test holes (Hansen and others, 1973; Petersen and Maevsky, 1962; Wiesnet and Fleck, 1967) and geophysical studies (Weston Geophysical Engineers, 1966a, 1966b, 1967). The areal distribution of additional depths to bedrock is based almost entirely on subsurface data and the published bedrock-contour map (Londquist and Hansen, 1974).

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)

Includes outcrops on hillsides and hilltops and may include small areas in excess of 10 feet (3 metres) to bedrock. Corresponds largely with thin ground moraine ("Q_{gm}") map unit of Jahns (1966).



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

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Londquist, C.J. and Hansen, B.P., 1974, Contour map of the bedrock surface, Greenfield quadrangle, Massachusetts: U.S. Geol. Survey Misc. Field Studies Map MF-629 A.

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 report, 31 p.

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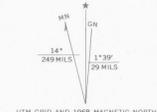
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Base from U.S. Geological Survey, 1968
10,000-foot grid based on Massachusetts coordinate system,
mainland zone.
1000-meter Universal Transverse Mercator grid ticks
zone 18, shown in black.



MAP SHOWING DEPTH TO BEDROCK,
GREENFIELD QUADRANGLE,
MASSACHUSETTS

By
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