



WELL YIELDS FROM BEDROCK AQUIFERS

This map shows the range of well yields and the bedrock geology. Well yields are those expected from individual wells that are fully developed. Yields represent potential sustained withdrawals from individual wells as estimated from the transmissivity of the aquifer without consideration of total aquifer yield. About 90 percent of the fully developed wells in each area should have yields within the ranges shown.

In some areas, the bedrock aquifer may be overlain by unconsolidated deposits that have significant yields. Therefore, both well-yield maps (sheets 2, 3) should be used to estimate the ground-water potential of such areas.

SELECTED REFERENCES

- Isachsen, Y. W., and Fisher, D. W., 1970, Geologic map of New York--Adirondack sheet: New York State Museum and Science Service Map and Chart Series no. 15.
- Isachsen, Y. W., Fisher, D. W., and Rickard, L. V., 1970, Geologic map of New York--Hudson-Mohawk sheet: New York State Museum and Science Service Map and Chart Series no. 15.
- Waller, R. M., and Ayer, G. R., 1975, Water Resources of the Black River basin, New York: New York State Department of Environmental Conservation, BRB-1, 205 p.

EXPLANATION

- WELL YIELDS**
- <1 TO 10 GALLONS PER MINUTE--Rock type is shale or crystalline rock of low permeability overlain by till or lake silt and clay
 - 1 TO 50 GALLONS PER MINUTE--Rock type is limestone of moderate permeability overlain by lake silt or clay
 - 51 TO 500 GALLONS PER MINUTE--Rock type is limestone or sandstone of moderate to high permeability, favorably situated with respect to stream infiltration
- GEOLOGIC UNITS**
- Oo Oswego Sandstone
 - Opw Pulaski and Whetstone Gulf Formation (Usage of the New York State Geological Survey)--siltstone, shale
 - Ou Utica Shale
 - Ot Trenton Group--limestone
 - Obr Black River Group--limestone
 - pCc Crystalline rock--metamorphic and igneous-rock complex of Precambrian age
- CONTACT**--dashed where approximately located
- BASIN BOUNDARY**



GROUND-WATER AVAILABILITY IN THE BLACK RIVER BASIN, NEW YORK

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Hydrology by R.M. Waller, 1968. Geology modified from Isachsen and Fisher, 1970, and Isachsen and others, 1970

Base from U.S. Geological Survey
 Topographic maps, 1:62,500 scale