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POTENTIOMETRIC SURFACE

By

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EXPLANATION

POTENTIOMETRIC CONTOUR - Shows approximate altitude at which water would stand in tightly cased wells. Contour interval 20 feet. National Geodetic Vertical Datum of 1929. Arrows indicate direction of groundwater flow.

GROUND-WATER DIVIDE approximately located

AQUIFER BOUNDARY—dashed where full extent of aquifer is not shown

MAJOR INFLOW TO AQUIFER - surface and ground-water flow along main valleys beyond extent of mapped aquifer.

MAJOR OUTFLOW FROM AQUIFER - surface and ground-water flow flow along main valleys Beyond extent of mapped aquifer.

301-622-1 COMMUNITY WATER-SYSTEM WELL OR INDUSTRIAL WELL - numbers are based upon latitude and longitude, after Kantrowitz (1970)

X DATA POINT

NOTE

The contours represent the estimated average altitude of the water table in the aquifer based upon surface water levels and water levels in wells measured between 1953 and 1983. Because valley aquifers are the discharge point for regional ground-water flow and thus do not have a great annual fluctuation, because there is no extensive pumping in the valley, and because the long-term observation well maintained by the U.S. Geological Survey shows no long-term changes, the use of old water-level data is warranted to portray the probable current water table. The water table fluctuates seasonally in response to changing recharge and discharge. Recharge occurs generally over the entire aquifer wherever the land surface is permeable. Discharge occurs principally as inflow to streams and wetlands and as pumpage from wells. Heavy pumpage from wells near streams can induce recharge from the stream.

REFERENCES

Kantrowitz, I.H., 1970, Ground-water resources of the eastern Oswego River basin, New York: New York State Water Resources Commision Basin Planning Report ORB-2, 129 p.

New York State Department of Health, 1982, New York State Atlas of Community Water System Sources: Bureau of Public Water Supply Protection. 79 p.

O'Brien and Gere, 1968, Onondaga County Public Water Supply Study, CPWS-21: Appendices

SCALE 1:24 000

BASE FROM NEW YORK STATE DEPARTMENT OF TRANSPORTATION PLANIMETRIC MAPS.
LYSANDER, N.Y. 1978, BALDWINSVILLE, N.Y. 1978, BREWERTON, N.Y. 1978,
JORDAN, N.Y. 1978, CAMILLUS, N.Y. 1978, SYRACUSE WEST, N.Y. 1978, 1:24,000

GEOHYDROLOGY OF THE GLACIAL OUTWASH AQUIFERS IN THE BALDWINSVILLE AREA, SENECA RIVER, ONONDAGA COUNTY, NEW YORK
1984