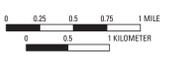


EXPLANATION

- **Water-table contour**—Shows the average altitude of the water table in the surficial sand and gravel aquifer that occupies the Sprout and Fishkill Creek valleys. Water-table contours are extended into adjacent permeable units, such as kame sand and gravel and fine-grained lacustrine units, to show the general direction of groundwater flow. Contour interval is 10 feet. Datum is National Geodetic Vertical Datum of 1929.
- - - - - **Groundwater divide**—Shows approximate location of local groundwater divides as inferred from average water-table conditions shown here.
- **Direction of groundwater flow**—Shows the general direction of groundwater flow under average, non-pumping conditions.
- **Aquifer boundary**—Shows the boundary between the surficial sand and gravel aquifer that occupies the Sprout and Fishkill Creek valleys and adjacent till and bedrock hills.
- **Limit of mapped area**—Indicates arbitrary truncation of mapped area.

Altitude of the water table

The water table in an unconfined aquifer is defined by the static levels to which groundwater rises in tightly cased shallow wells that extend a few feet into the zone of saturation. Streams and rivers that are fed by groundwater also reflect the approximate water-table altitude during dry-weather streamflow conditions (base flow). This map shows the estimated altitude of the water table in the surficial sand and gravel aquifer that occupies the Sprout and Fishkill Creek valleys under average conditions. It was constructed from (1) historic water-level data from shallow drilled and dug wells that were obtained from drillers' records during a well inventory of Dutchess County (Simmons and others, 1961); (2) water-level measurements made by drillers at the time a well was drilled as reported to the NYSDEC under the Water Well Program; (3) water-level measurements made in monitoring wells installed by consulting firms as part of remedial investigations of the Hopewell Precinct and Shenandah Road Superfund sites; and (4) the altitude of stream surfaces as indicated on the topographic base map.



SCALE 1:24,000

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by
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