UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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WATER RESOURCE INVESTIGATIONS
REPORT 85-4095 (SHEET 6 OF 7)

WELL YIELD

By

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EXPLANATION

POTENTIAL WELL YIELD FROM PROPERLY CONSTRUCTED WELL IN SURFACE AQUIFER

in gallons per minute

1	50 - 500
2	50 - 1000
3	500 - 2500
4	1000 - 10000

BOUNDARY OF WELL YIELD UNITS

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

AREA OF INSUFFICIENT DATA

AREA UNDERLAIN BY BURIED AQUIFER WITH POTENTIALLY GREATER PRODUCTIVITY THAN SURFACE AQUIFER

14-40 spring 45-41 COMMUNITY WATER SYSTEM WELL OR INDUSTRIAL WELL - numbers are seconds of latitude and longitude, after Randall (1972).

NOTE

Potential well yield map is based upon hydrologic data from Hollyday (1969) and MacNish and Randall (1982), and well data from Randall (1972). The potential yeild ranges listed above are the yields obtainable from more than 50% of wells tapping similar aquifers throughout the Susquehanna River basin. The highest yielding wells require special construction, usually a Ranny type collector.

In some areas the surface aquifer is underlain by more productive buried aquifers. These aquifers are separated from the surface aquifer by relatively impermeable silt and clay layers (see geologic sections, sheet 2), and are indicated on the map.

REFERENCES

Hollyday, E.F., 1969, An appraisal of the groundwater resources of the Susquehanna River basin in New York State, U.S. Geological Survey Open-File Report, 52 p.

MacNish, R.D., and Randall, A.D., 1982, Stratified-drift aquifers in the Susquehanna River basin, New York, New York State Dept. of Environmental Conservation Bulletin 75, 68pp., 17 figures, 1 pl.

Randall, A.D., 1972, Records of wells and test borings in the Susquehanna River basin, New York State, N.Y. State Dept. of Environmental Conservation Bulletin, 69, 92p.

DRAINAGE AREA

AQUIFER AREA

SCALE 1:24 000

JOINS U.S. GEOLOGICAL SURVEY OPEN-FILE REPORT 82-85, CORNING AREA, STEUBEN COUNTY, NEW YORK.

BASE FROM NEW YORK STATE DEPARTMENT OF TRANSPORTATION PLANIMETRIC MAPS. AVOCA, N.Y. 1977, SAVONA, N.Y. 1977, RHEIMS, N.Y. 1977, BATH, N.Y. 1977, TOWLESVILLE, N.Y. 1977, 1:24,000

GEOHYDROLOGY OF THE VALLEY-FILL AQUIFER IN THE BATH AREA, LOWER COHOCTON RIVER, STEUBEN COUNTY, NEW YORK

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