DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

PREPARED IN COOPERATION WITH THE
NEW YORK STATE DEPARTMENT OF HEALTH

OPEN-FILE REPORT 82-110
(SHEET 6 OF 7)

WELL YIELD

By

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76°57'30" 76°55' 76°50' 76°47'30"

42°10' 42°07'30" 42°05'

X ADJOINS Y-Y' (CORNING MAP) X'

11070110 00093000 00632000 11070730 11070779 11070755 00632000 00632000 01938000 00414000 00414000 00414000 00414000 02257000

BIG FLATS HORSEHEADS ELMIRA HEIGHTS ELMIRA

Fisherville Big Flats Newtown Bowman Hill Industrial Park Orchard Knoll Elmira Heights North Harris Hill Manor Leach Hill Golden Glow Heights West Elmira Mount Zoar Southport Big Island

CHEMUNG RIVER CHEMUNG R. Sing Sing Creek Seeley Creek Meadow Brook Creek Newtown Creek Baldwin Creek Brushes Creek Hollow Park Creek

Chemung County Airport

11070577

DRAINAGE AREA TO AQUIFER

AQUIFER

INDEX MAP

SCALE 1:24000

1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 KILOMETER

N

EXPLANATION

ESTIMATED WATER YIELD FROM A PROPERLY CONSTRUCTED WELL, in gallons per minute

1	Less than 50
2	50 to 500
3	500 to 1,000
4	Greater than 1,000

BOUNDARY OF WELL-YIELD UNITS--approximately located

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

00414000 COMMUNITY WATER SYSTEM WELL OR WELL FIELD--numbered by New York State Department of Health

X DATA POINT

NOTE

Map is based on data from wells (Randall, 1972), 20 pumping tests, and specific capacities from engineering consultants for public water and industrial water supplies, and from a transmissivity map constructed by Reisenauer (1977). Most of the area is considered low yield because of the relative thickness of the more permeable material. High yields generally occur adjacent to large streams where induced recharge of water from the stream occurs under pumping conditions. Well yields are only estimates of the maximum long-term yields of individual wells completed in the aquifers.

REFERENCES CITED

Randall, A. D., 1972, Records of wells and test borings in the Susquehanna River Basin, New York: New York State Department of Conservation Bulletin 69, 92 p.

Reisenauer, A. E., 1977, Groundwater model application to the Chemung River Basin 208 study area, New York State: Battelle, Pacific Northwest Laboratories, Richland, Washington, 57 p.

BASE FROM NEW YORK STATE DEPARTMENT OF TRANSPORTATION BIG FLATS, N.Y., 1978; ELMIRA, N.Y., 1978; SEELEY CREEK, N.Y.-PA., 1978; HORSEHEADS, N.Y., 1978. 1:24,000

GEOHYDROLOGY OF THE VALLEY-FILL AQUIFER IN THE ELMIRA AREA, CHEMUNG COUNTY, NEW YORK

1982

HYDROLOGY FROM A.D. RANDALL (1972), AND A.E. REISENAUER, IN PART (1977); MODIFIED BY T.S. MILLER (1981)