UNITED STATES DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PREPARED BY ENGINEERING ENTERPRISES, INC., NORMAN, OKLAHOMA, FOR THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY UNDER CONTRACT NO. 68-01-6389

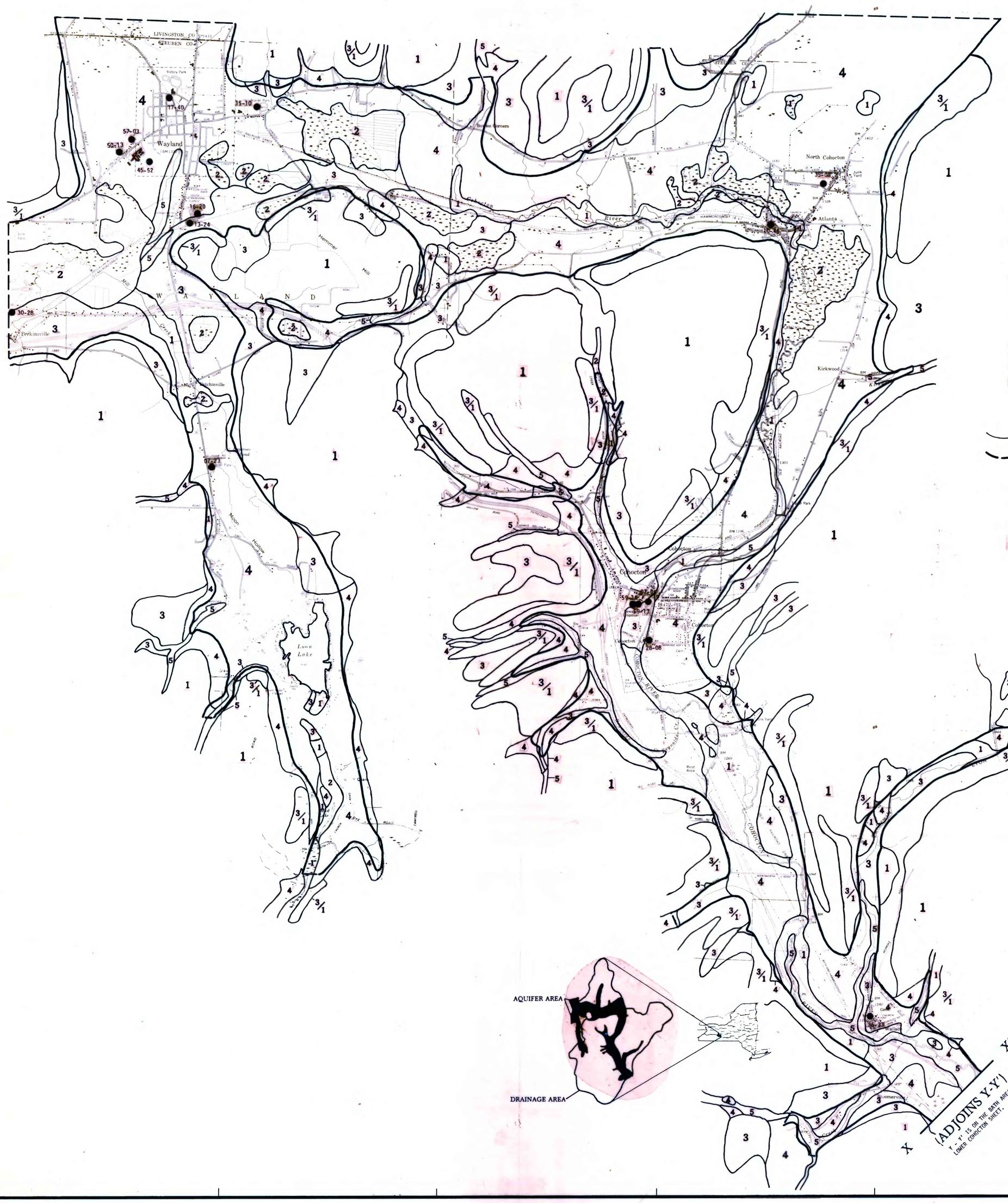
WATER RESOURCE INVESTIGATIONS
REPORT 85-4060 (SHEET 3 OF 7)

77°35' 77°32'30" 77°30' 77°27'30" 77°25'

WATER-INFILTRATION POTENTIAL OF SOIL ZONE

By
David B. Terry and Timothy S. Pagano

42°35' 42°32'30" 42°30' 42°27'30"



EXPLANATION

Map Units	Classification	Infiltration rate, in inches per hour
1	Very low	less than 0.20
2	Low	0.20 to 0.63
3	Moderate	0.63 to 2.0
4	Moderate to high	greater than 2.0
5	Too variable to estimate	
3/1	Thin (60 in.) soil with moderate infiltration potential, over bedrock with very low infiltration potential.	
2/1	Thin (60 in.) soil with low infiltration potential over bedrock with very low infiltration potential	

NOTE

Range of infiltration rates are derived from a soil survey of Steuben County (1978) and are estimates of the rate that water moves in the B horizon of soils (generally 10 - 40 inches below land surface). The estimates are based on infiltration and permeablility tests, soil texture and structure, porosity, and drainage observations.

BOUNDARY OF UNITS OF SOIL PERMEABILITY - approximately located

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

17-40 ● COMMUNITY WATER SYSTEM WELLS AND INDUSTRIAL WELLS - numbers are seconds of latitude and longitude, after Randall (1972)

SCALE 1:24 000

1 0 1 MILE
1000 0 1000 2000 3000 4000 5000 6000 7000 FEET
1 0 1 KILOMETER

REFERENCES

French, L.M., Wulforst, J.P., Broad, W.A., Bauter, P.R., and Guthrie, R.L., 1978, Soil Survey, Steuben County, New York, U.S. Dept. Agriculture, 120p.

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

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

1984

BASE FROM NEW YORK STATE DEPARTMENT OF TRANSPORTATION PLANIMETRIC MAPS, WAYLAND, N.Y. 1977, NAPLES, N.Y. 1977, AVOCA, N.Y. 1977, HASKINVILLE, N.Y. 1977. 1:24,000