DEPARTMENT OF THE INTERIOR
UNITED STATES GEOLOGICAL SURVEY

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NEW YORK STATE DEPARTMENT OF HEALTH

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(SHEET 3 OF 7)

SOIL PERMEABILITY

By
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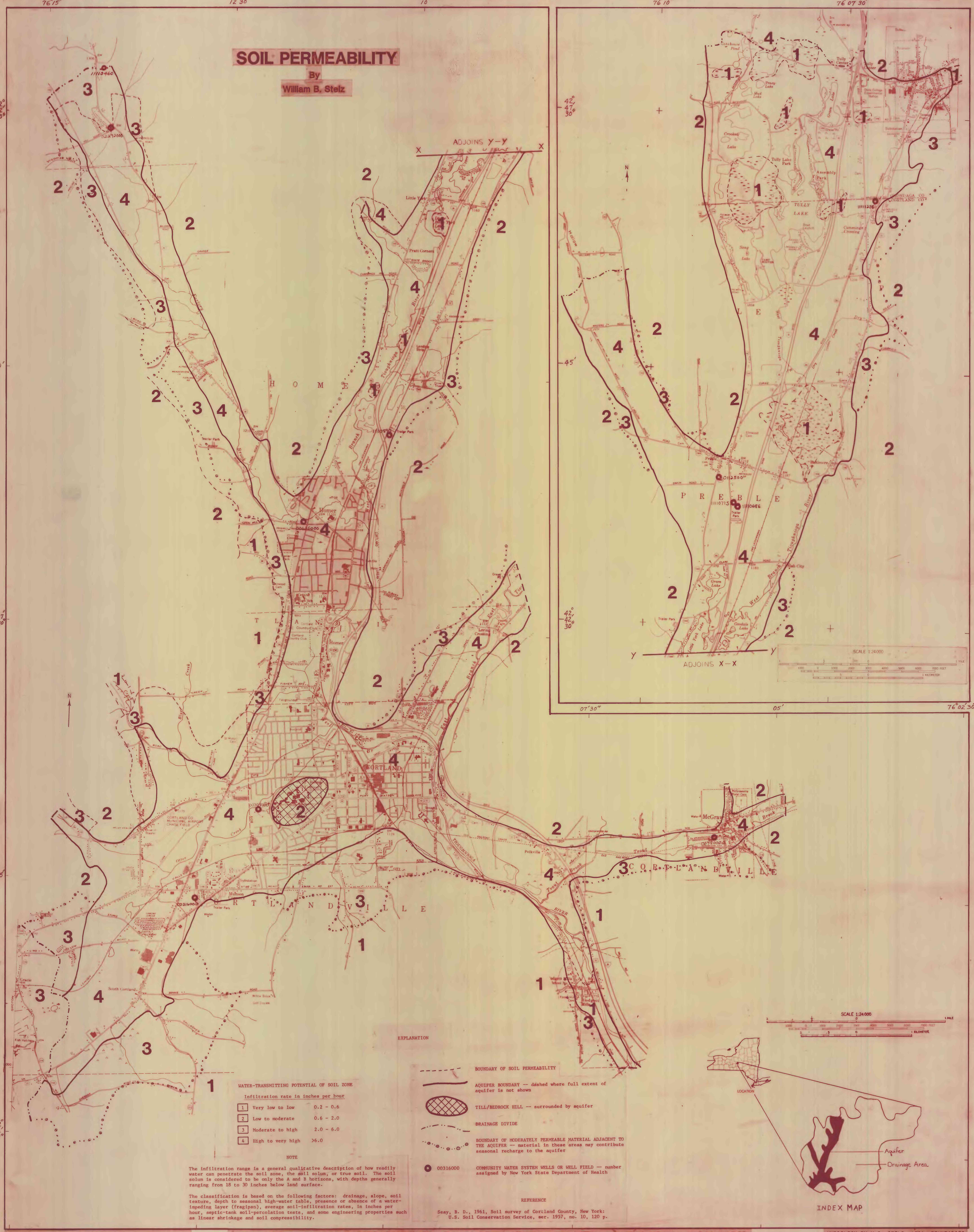

WATER-TRANSMITTING POTENTIAL OF SOIL ZONE

Infiltration rate in inches per hour

1	Very low to low	0.2 - 0.6
2	Low to moderate	0.6 - 2.0
3	Moderate to high	2.0 - 6.0
4	High to very high	>6.0

NOTE

The infiltration range is a general qualitative description of how readily water can penetrate the soil zone, the soil solum, or true soil. The soil solum is considered to be only the A and B horizons, with depths generally ranging from 18 to 30 inches below land surface.

The classification is based on the following factors: drainage, slope, soil texture, depth to seasonal high-water table, presence or absence of a water-impeding layer (fragipan), average soil-infiltration rates, in inches per hour, septic-tank soil-percolation tests, and some engineering properties such as linear shrinkage and soil compressibility.

EXPLANATION

BOUNDARY OF SOIL PERMEABILITY

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

TILL/BEDROCK HILL -- surrounded by aquifer

DRAINAGE DIVIDE

BOUNDARY OF MODERATELY PERMEABLE MATERIAL ADJACENT TO THE AQUIFER -- material in these areas may contribute seasonal recharge to the aquifer

00316000 COMMUNITY WATER SYSTEM WELLS OR WELL FIELD -- number assigned by New York State Department of Health

REFERENCE

Seay, B. D., 1961, Soil survey of Cortland County, New York: U.S. Soil Conservation Service, ser. 1957, no. 10, 120 p.

BASE FROM NEW YORK STATE DEPARTMENT OF TRANSPORTATION CORTLAND, N.Y., 1974; HOMER, N.Y., 1974; MCGRAW, N.Y., 1974; OTISCO VALLEY, N.Y., 1978; TRUXTON, N.Y., 1974; TULLY, N.Y., 1978. 1:24,000

GEOHYDROLOGY OF THE VALLEY-FILL AQUIFER IN THE CORTLAND-HOMER-PREBLE AREA, CORTLAND AND ONONDAGA COUNTIES, NEW YORK

1981

HYDROLOGY BY W.G. STELZ, 1981; BOUNDARIES MODIFIED FROM B.D. SEAY(1961)