Ground-Water Resources of WOOD COUNTY

by

Michael Hallfrisch

Chemical Analysis Table

Well Site	A	B	C	D	E	F	G	H	I
Hardness total as $CaCO_3$	437	262	1760	362	958	581	2120	1800	984
Sulfate (SO_4)	260	136	1410	50	888	110	1910	1720	840
Nitrate (N)	0.08	0.02	0.0	0.02	0.0	*	0.0	*	0.0
Chloride (Cl)	37	12	18	8.7	63	222	48	45.7	25
Iron (Fe)	—	1.3	3.1	0.36	1.6	0.03	0.32	1.50	—
Manganese (Mn)	0.01	0.03	0.05	0.02	0.5	*	0.08	0.04	—
Floride (F)	1.97	1.0	1.6	0.70	2.1	0.66	1.7	1.35	1.0
Total Dissolved Solids	600	368	2240	392	1460	874	2850	2772	1400
Sodium (Na)	—	24	23	7.1	91	71	62	79.2	—
Hydrogen Sulfide	—	1.7	0.0	0.0	—	—	6.1	—	20

*Value below detection limits Chemical constituents as milligrams per liter (mg/l).

Well Yields

AREAS IN WHICH YIELDS OF 100 TO 500 GALLONS PER MINUTE CAN BE DEVELOPED

Principal aquifer in this county is the carbonate bedrock. Industrial and municipal supplies may be developed at depths of 100 to 400 feet. Domestic supplies are usually obtained at depths of less than 100 feet. High hydrogen sulfide concentrations may be encountered in some localities at shallow depths. Hydrogen sulfide and hardness levels tend to increase with depth throughout the county.

AREAS IN WHICH YIELDS OF 25 TO 100 GALLONS PER MINUTE CAN BE DEVELOPED

Larger yields, 50 to 100 gallons per minute, may require drilling to depths in excess of 400 feet in the carbonate bedrock aquifer. Domestic wells are usually less than 150 feet in depth. High hydrogen sulfide concentrations may be encountered in some locations at shallow depths. Hydrogen sulfide and hardness levels tend to increase with depth throughout the county.

0 1 2 Miles
0 1 2 3 Kilometers
1:62,500

Well Site Symbols

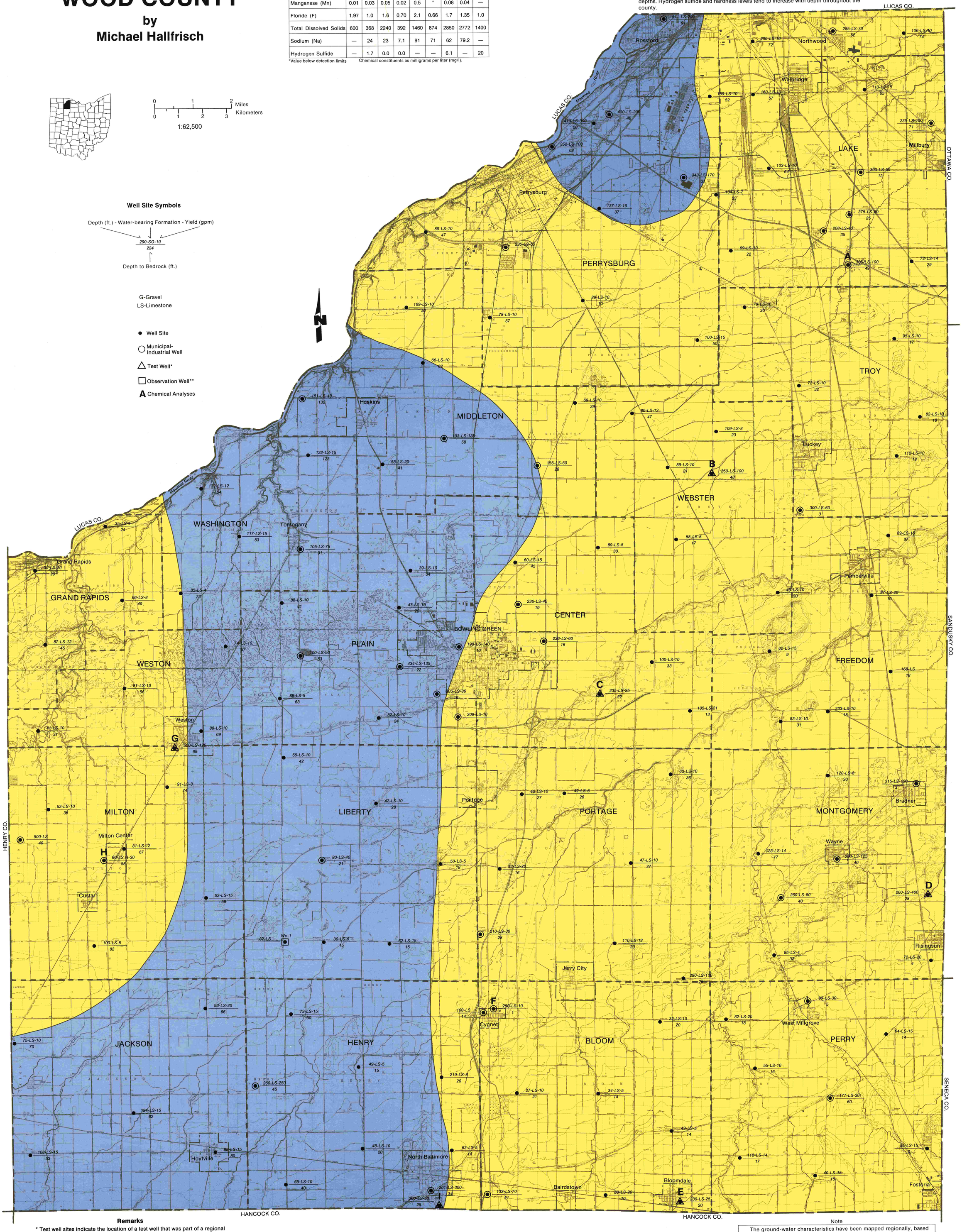
Depth (ft.) - Water-bearing Formation - Yield (gpm)

290-SG-10
224

Depth to Bedrock (ft.)

G-Gravel
LS-Limestone

- Well Site
- Municipal-Industrial Well
- Test Well*
- Observation Well**
- A Chemical Analyses



Remarks

* Test well sites indicate the location of a test well that was part of a regional ground water study. Detailed lithologic logs, water quality analysis and pumping test information for these wells may be available from ODNR-Division of Water.

** Observation well sites indicate the location of wells used to collect ground-water level information. These wells are part of the State observation well network. Hydrographs of the water levels recorded in these and other State observation wells can be obtained through ODNR-Division of Water.

Note

The ground-water characteristics have been mapped regionally, based upon interpretations of water well records and the area's geology and hydrology. Well sites mapped were selected as typical for the areas shown.

Information regarding specific sites may be obtained from the Division of Water.

Cartography: David S. Orr

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