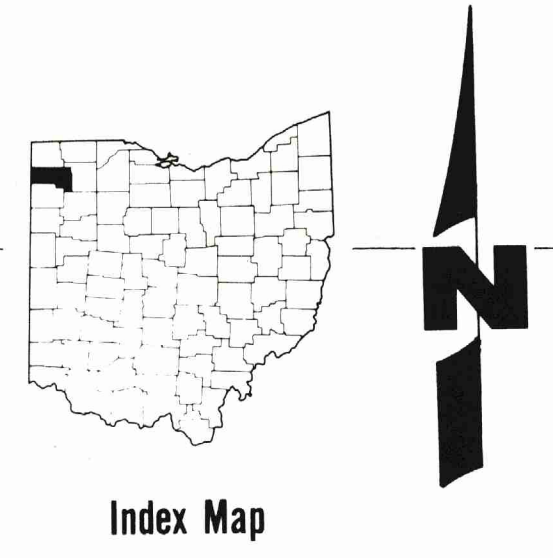


Ground-Water Resources of DEFIANCE COUNTY

by James J. Schmidt

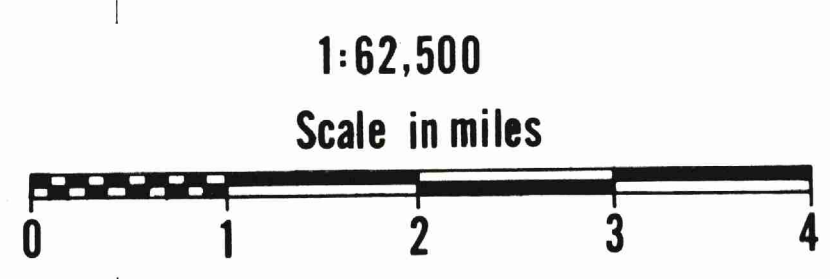
Ohio Department of Natural Resources
DIVISION OF WATER
Fountain Square
Columbus, Ohio 43224



- LEGEND**
- AREAS IN WHICH YIELDS OF 100 TO 500 GALLONS PER MINUTE MAY BE DEVELOPED
- Regionally extensive glacial deposits of sand and gravel, fine sand and thick layers of clay. Extensive test drilling may be necessary to locate coarse deposits for maximum yield. Glacial deposits are as much as 245 feet thick.
 - Depth to water less than 10 feet. Flowing wells are noted.
- AREAS IN WHICH YIELDS OF 25 TO 100 GALLONS PER MINUTE MAY BE DEVELOPED
- Limestone aquifer beneath relatively thin glacial drift 45 to 95 feet thick may yield as much as 20 gallons per minute. Wells developed at depths exceeding 235 feet may yield in excess of 50 gallons per minute, although hardness, hydrogen sulfide and sulfate content may deter its use.
- AREAS IN WHICH YIELDS OF 3 TO 10 GALLONS PER MINUTE MAY BE DEVELOPED
- Thin lenses of sand and gravel beneath thick layers of fine sand and silty clay. Yields of as much as 10 gallons per minute may be encountered near the non-water-bearing shale bedrock at depths ranging from 45 to 110 feet. However, lesser quantities and dry wells are noted.

Well Site	A	B	C	D	E	F	G
Depth (Feet)	80	64	110	147	71	90	580
Iron (Fe)	10	2.3	.48	2.2	1.2	.11	6.8
Hardness as CaCO ₃	815	248	184.0	464	153	1120	403
Dissolved Solids	1022	566	420.0	507	279	1770	676
Sulfates	372	180	1.2	-	28	740	116
Chloride	6.0	17.	63	4.	7.	200	120
Hydrogen Sulfide	-	-	-	-	-	110	69
Aquifer	G	SH	SH	G	SH	SH	LS

Chemical Constituents as mg/l



- SYMBOLS**
- S-Sand
 - G-Gravel
 - FS - Fine Sand
 - SH-Shale
 - LS-Limestone
 - SG-Sand and Gravel
- ▲ Test Well
 - Domestic Well
 - Ⓐ Chemical Analysis
- Depth (ft) - Water-Bearing Formation - Yield (gpm)
Depth to Bedrock (ft)

Cartography: VK & Douglas E. Keen
Published, 1982

"This map was made possible in part by a grant from the U.S. Water Resources Council."