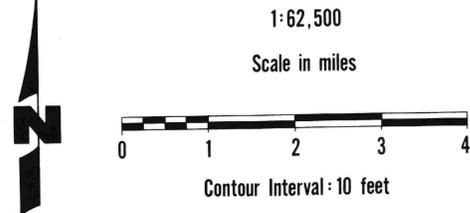


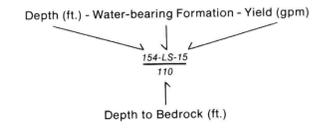
Ground-Water Resources of AUGLAIZE COUNTY

by Richard J. Kostelnick



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

- Principal aquifer is the limestone and dolomite of the Bass Island and Lockport groups. Yields in excess of 300 gallons per minute may be developed from various solution cavities in the bedrock. Farm and domestic supplies of 10 to 30 gallons per minute may be obtained at depths of less than 100 feet.
- Bedrock is covered with 20 to 100 feet of glacial till consisting of clay, sandy-clay and lenses of sand and gravel. Hydrogen sulfide (H₂S) is often encountered in the bedrock.
- Deep sand and gravel lenses in ancestral Teays Valley overlie glacial till and moraine. Sand and Gravel deposits between thick silty-clay layers may yield 10 to 20 gallons per minute to screened wells, however, yields of over 400 gallons per minute have been reported from deep gravel lenses of over 150 feet.
- Test drilling to locate the more permeable deposits may be required. Drilling through the valley fill material into the underlying impermeable shale is not recommended.
- Bedrock surface contour
Altitude in feet above mean sea level



TEST WELL	A	B	C	D	E
DEPTH (feet)	260	228	280	300	380
AQUIFER	LS	LS	LS	LS	LS
CALCIUM (Ca)	---	172	128	81	110
MAGNESIUM (Mg)	---	86	57	36	43
BICARBONATE (HCO ₃)	---	516	384	352	320
HARDNESS AS (CaCO ₃)	513	783	554	350	450
pH	8.0	7.2	7.4	7.6	7.4
CHLORIDE (Cl)	---	8	48	4.0	6.0
NITRATE (NO ₃)	---	0	0.8	0.0	2
SULFATE (SO ₄)	---	389	246	94	240
SULFIDE (H ₂ S)	0	---	2.0	1.7	2.6
FLOURIDE (F)	---	1.5	1.1	1.9	1.1
DISSOLVED SOLIDS	---	1020	726	429	605
PUMPING RATE (GPM)	60	800	275	500	480

Constituents in Milligrams per liter (Mg/l)

- ### FORMATIONS
- SG - Sand and Gravel
 - SH - Shale
 - LS - Limestone
 - G - Gravel
- ### WELL TYPES
- Domestic Well
 - ⊙ Industrial-Municipal Well
 - △ Test Well

ODNR
OHIO DEPARTMENT OF NATURAL RESOURCES

The ground-water characteristics have been mapped regionally, based upon interpretations of water well records and the area's geology and hydrology. Well log data on the map were selected as typical for the areas shown. Information regarding specific sites may be obtained from the Division of Water.

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