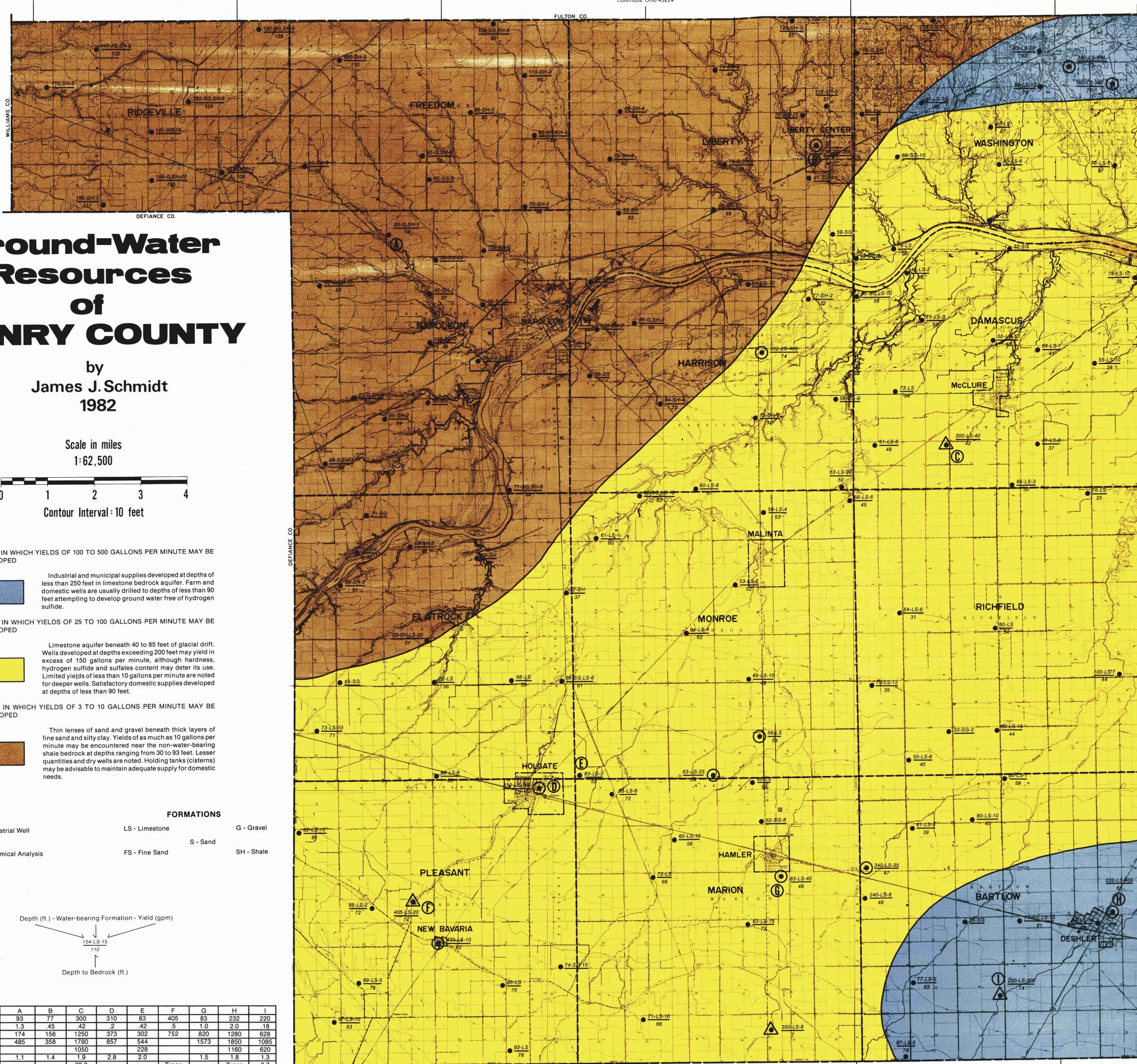




Index Map



Ground-Water Resources of HENRY COUNTY

by James J. Schmidt
1982

Scale in miles
1:62,500



Contour Interval: 10 feet

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

Industrial and municipal supplies developed at depths of less than 250 feet in limestone bedrock aquifer. Farm and domestic wells are usually drilled to depths of less than 90 feet attempting to develop ground water free of hydrogen sulfide.

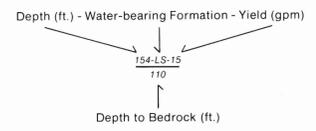
AREAS IN WHICH YIELDS OF 25 TO 100 GALLONS PER MINUTE MAY BE DEVELOPED

Limestone aquifer beneath 40 to 85 feet of glacial drift. Wells developed at depths exceeding 200 feet may yield in excess of 150 gallons per minute, although hardness, hydrogen sulfide and sulfates content may deter its use. Limited yields of less than 10 gallons per minute are noted for deeper wells. Satisfactory domestic supplies developed at depths of less than 90 feet.

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 30 to 93 feet. Lesser quantities and dry wells are noted. Holding tanks (cisterns) may be advisable to maintain adequate supply for domestic needs.

- Domestic Well
 - ⊙ Public or Industrial Well
 - ⓑ Well Site-Chemical Analysis
 - ⚠ Test Well
- FORMATIONS**
- LS - Limestone
 - FS - Fine Sand
 - G - Gravel
 - S - Sand
 - SH - Shale



Well Site	A	B	C	D	E	F	G	H	I
Depth (feet)	93	77	300	310	83	405	83	232	220
Iron	1.3	.45	.42	.2	.42	.5	1.0	2.0	.18
Hardness as CaCO ₃	174	156	1250	373	302	752	820	1280	628
Dissolved Solids	485	358	1780	857	544	228	1573	1850	1085
Sulfates (SO ₄)			1050					1160	620
Fluoride	1.1	1.4	1.9	2.8	2.0	Trace	1.5	1.8	1.3
Hydrogen Sulfide			23.0					Trace	3.7
Aquifer	G,SH	S&G	LS	LS	LS	Trace	LS	LS	LS

Chemical constituents as milligrams per liter mg/l.
Well site F-Hach Kit Field analysis.

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.

Cartography: Douglas E. Keen
Published, 1983