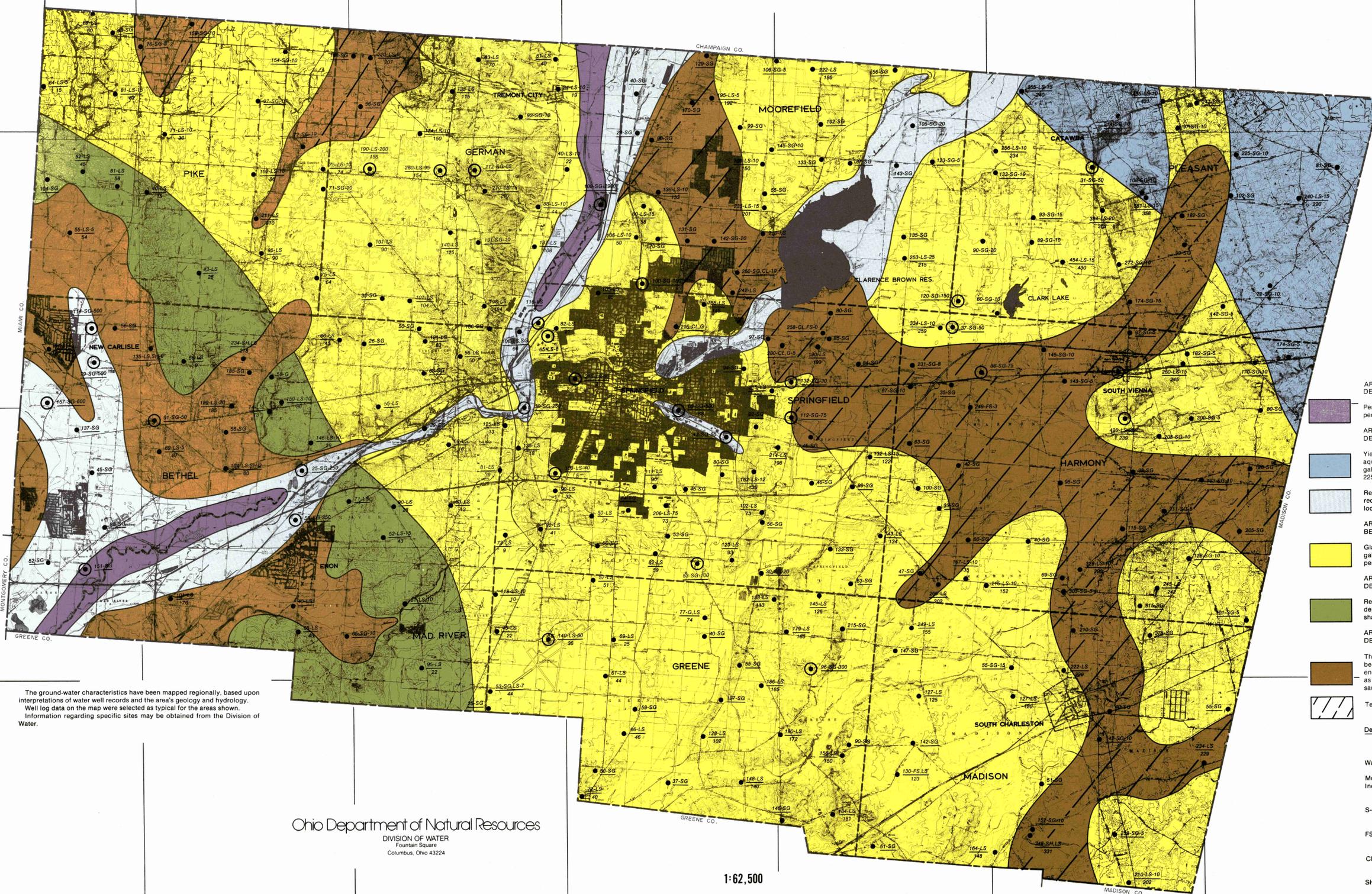


Ground-Water Resources of CLARK COUNTY

by
James J. Schmidt
(after Norris, S. E. 1952)



Index Map



- AREAS IN WHICH YIELDS OF 500 TO 1000 GALLONS PER MINUTE MAY BE DEVELOPED.
- Permeable sand and gravel adjacent to Mad River yields in excess of 1000 gallons per minute to properly constructed large diameter wells 80 to 125 feet deep.
- AREAS IN WHICH YIELDS OF 100 TO 300 GALLONS PER MINUTE MAY BE DEVELOPED.
- Yields of as much as 300 gallons per minute may be developed from carbonate aquifer at depths greater than 275 feet. Farm and domestic supplies of 5 to 15 gallons per minute are developed from thick glacial drift at depths of as much as 225 feet.
- Regionally extensive, thick permeable deposits of sand and gravel beyond the recharge influence of the Mad River. Extensive test drilling is recommended to locate coarse deposits at depths ranging from 35 to 155 feet.
- AREAS IN WHICH YIELDS OF AS MUCH AS 100 GALLONS PER MINUTE MAY BE DEVELOPED.
- Glacial drift of variable thickness ranging up to 215 feet yield as much as 100 gallons per minute. Underlying carbonate aquifer yields as much as 100 gallons per minute at depths of less than 325 feet.
- AREAS IN WHICH YIELDS OF 5 TO 15 GALLONS PER MINUTE MAY BE DEVELOPED.
- Relatively shallow carbonate aquifer yields less than 15 gallons per minute at depths of less than 100 feet. Deeper drilling to underlying non-water-bearing shaly limestone is not recommended.
- AREAS IN WHICH YIELDS OF 3 TO 10 GALLONS PER MINUTE MAY BE DEVELOPED.
- Thin to exceptionally thick unconsolidated glacial deposits above non-water-bearing shaly limestone bedrock. Thin layers of sand and gravel may be encountered at depths of less than 75 feet in the southwestern area, and as much as 205 feet for the area designated as Teays. Deeper drilling encounters silty sand with meager to no usable ground-water supplies.
- Teays Valley - ancestral drainage channel.

Depth (ft.) - Water-bearing Formation - Yield (gpm)	Depth to Bedrock (ft.)
Water Well	•
Municipal-Industrial Well	⊙
S-Sand	
FS-Fine Sand	
CL-Clay	
SH-Shale	
LS-Limestone	
G-Gravel	

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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