

# Ground-Water Resources of MAHONING COUNTY

by  
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## AREAS IN WHICH 100 TO 500 GALLONS PER MINUTE ARE AVAILABLE

-  Excellent ground-water area. Pennsylvanian sandstone aquifer underlies 100 feet of permeable sand and gravel. Sustained yields of 200 gallons per minute are available from wells averaging over 300 feet deep. Area is suitable for municipal and industrial development.
-  Best ground-water area in Mahoning County. Permeable sand and gravel deposits over 100 feet thick provide sustained yields of several hundred gallons per minute. Supply is sufficient for municipal and industrial use.

## AREAS IN WHICH 25 TO 100 GALLONS PER MINUTE ARE AVAILABLE

-  Ground water obtained from Pennsylvanian and Mississippian sandstones overlain by 30 to 40 feet of glacial debris. Principal aquifers are the Berea and Sharon sandstones. Wells will produce sustained yields of 50 to 80 gallons per minute. Greater yields, up to 200 gallons per minute, may be available for intermittent pumping. This area is suitable for small industrial and municipal development.
-  Good ground-water area. Valley fill contains deposits of sand and gravel 200 feet thick in the central portion of the county. Wells encountering coarse gravel yield over 100 gallons per minute. Exploratory drilling may be necessary to locate such deposits. Reliable yields of 40 to 60 gallons per minute are sufficient for small industrial and farm supplies.

## AREAS IN WHICH 10 TO 25 GALLONS PER MINUTE ARE AVAILABLE

-  Mississippian and Pennsylvanian sandstones produce 10 to 25 gallons per minute of ground water. Bedrock is covered with up to 40 feet of unconsolidated deposits. Supply is sufficient for domestic and farm use.
-  Valley fill containing sand and gravel deposits 100 feet thick in the western portion of the county, discontinuous and limited in thickness and extent in the eastern portion. Yields range from 10 to 30 gallons per minute. Wells not encountering permeable sands and gravels must be drilled into the underlying bedrock.

## AREAS IN WHICH 3 TO 10 GALLONS PER MINUTE ARE AVAILABLE

-  Mississippian sandy shales and shales have reported yields from 4 to 25 gallons per minute with a reliable yield of less than 10 gallons per minute. Glacial cover ranges from 0 to 70 feet in thickness. Supply is adequate for domestic use only.
-  Isolated sand and gravel lenses in thick clayey glacial outwash. Unconsolidated material is as much as 100 feet thick. Yields are less than 10 gallons per minute. Wells not encountering sand and gravel must be drilled into underlying sandy shales.

Ohio Department of Natural Resources

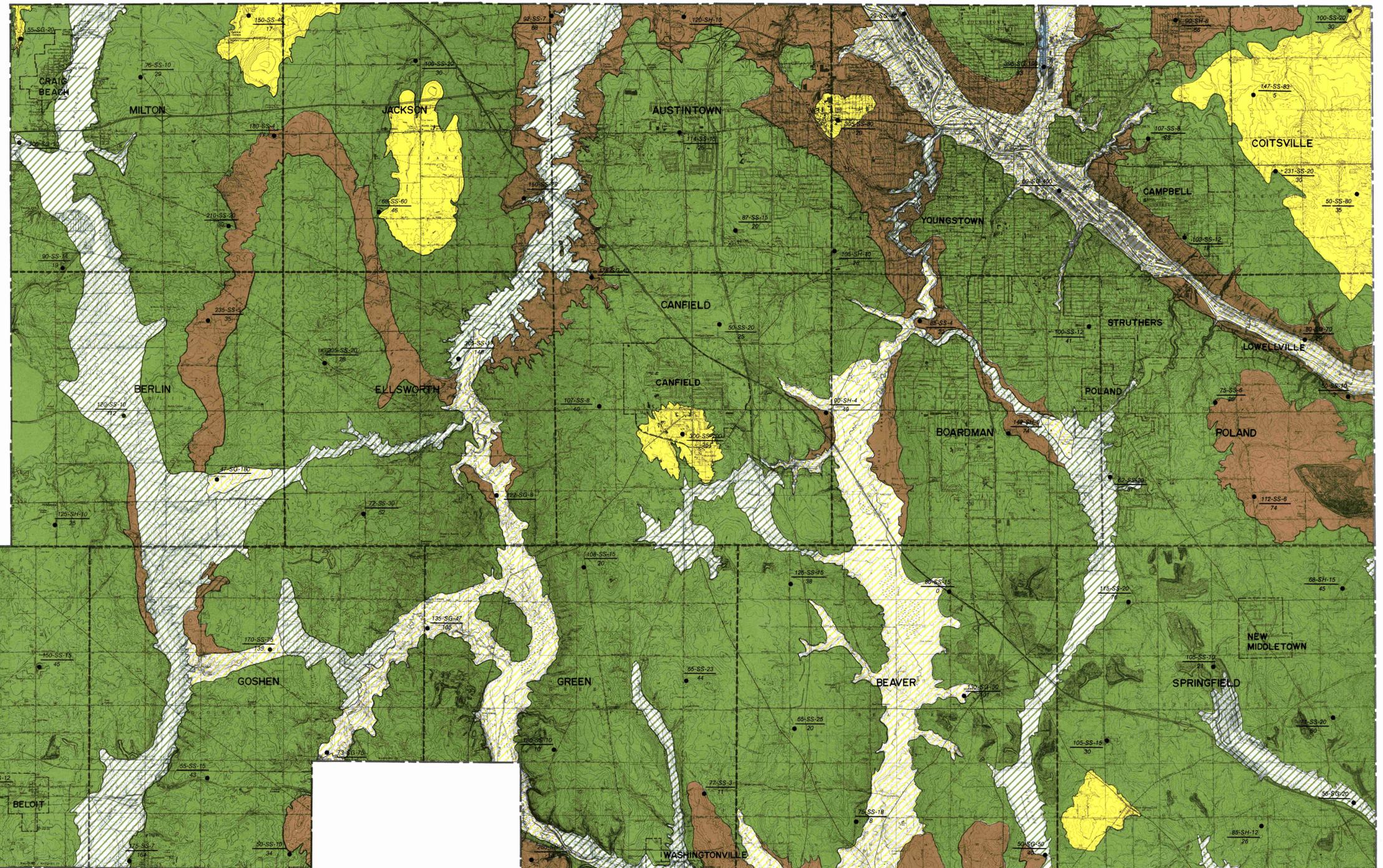
DIVISION OF WATER  
Fountain Square  
Columbus, Ohio 43224



Index Map



Scale in miles



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

Depth to Bedrock (ft.)

• Water Well

SS - Sandstone SH - Shale

SG - Sand & Gravel

