Ground Water Resources of COLUMBIANA COUNTY

by

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Well Site Symbols

WELL INFORMATION
(SEE NOTE)

AQUIFER TYPE
Water bearing formation.

DEPTH (ft.)
Total depth of well in feet

YIELD (gpm)
Amount of water a well produces in gallons per minute.

WELL SITE
Approximate location of a well.

75-SS-20
26

DEPTH TO BEDROCK (ft.)
Depth to bedrock in feet.

WELL TYPES

- Well Site
- Municipal-Industrial Well

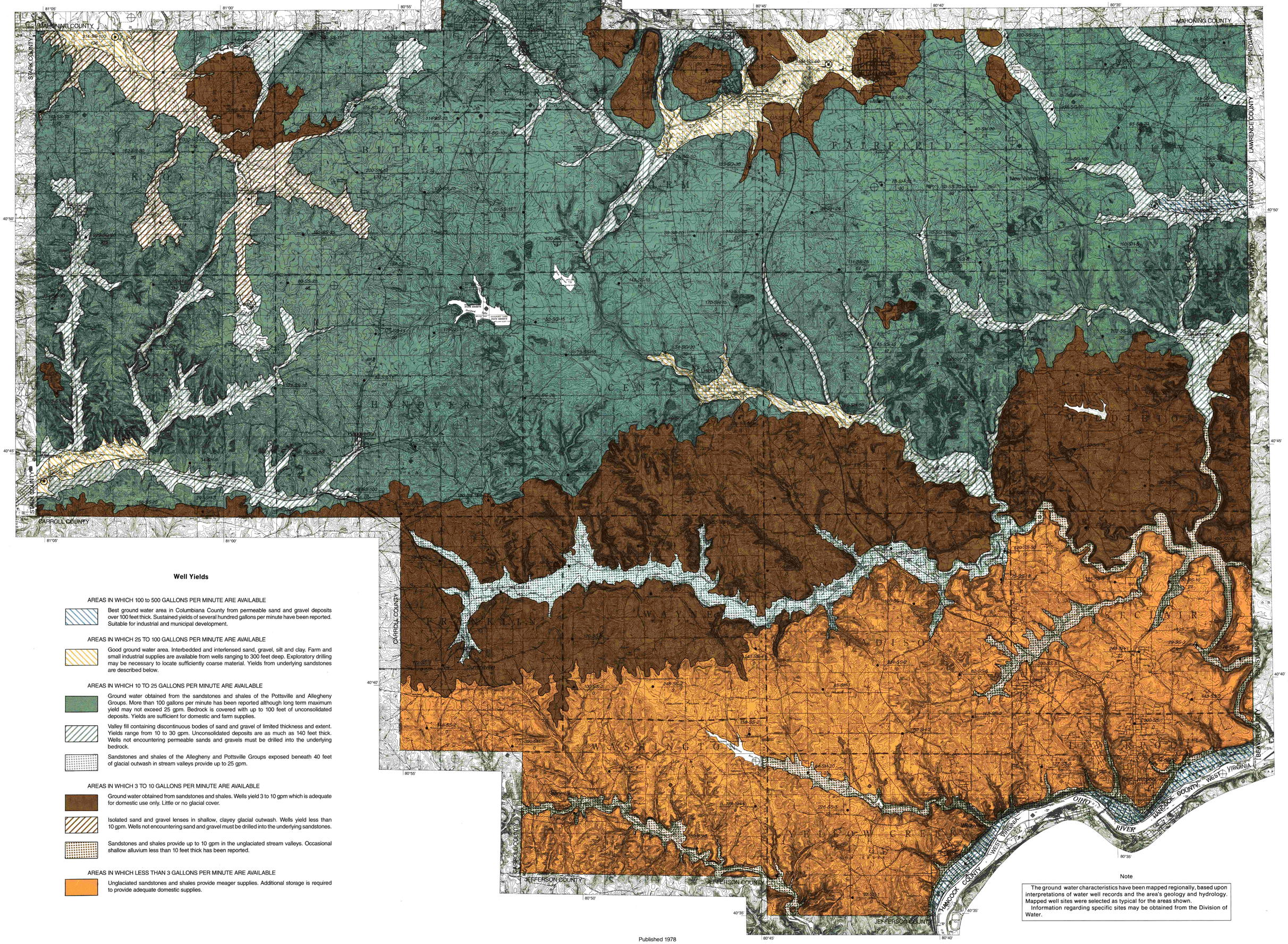
AQUIFER TYPES

S - Sand
SG - Sand and Gravel
SS - Sandstone
SH - Shale

County Line
Township Line
Incorporated City Limit

1 0 1 2 Miles
1 0 1 2 Kilometers

CONTOUR INTERVAL 10 TO 20 FEET



Well Yields

AREAS IN WHICH 100 to 500 GALLONS PER MINUTE ARE AVAILABLE

Best ground water area in Columbiana County from permeable sand and gravel deposits over 100 feet thick. Sustained yields of several hundred gallons per minute have been reported. Suitable for industrial and municipal development.

AREAS IN WHICH 25 TO 100 GALLONS PER MINUTE ARE AVAILABLE

Good ground water area. Interbedded and interlensed sand, gravel, silt and clay. Farm and small industrial supplies are available from wells ranging to 300 feet deep. Exploratory drilling may be necessary to locate sufficiently coarse material. Yields from underlying sandstones are described below.

AREAS IN WHICH 10 TO 25 GALLONS PER MINUTE ARE AVAILABLE

Ground water obtained from the sandstones and shales of the Pottsville and Allegheny Groups. More than 100 gallons per minute has been reported although long term maximum yield may not exceed 25 gpm. Bedrock is covered with up to 100 feet of unconsolidated deposits. Yields are sufficient for domestic and farm supplies.

Valley fill containing discontinuous bodies of sand and gravel of limited thickness and extent. Yields range from 10 to 30 gpm. Unconsolidated deposits are as much as 140 feet thick. Wells not encountering permeable sands and gravels must be drilled into the underlying bedrock.

Sandstones and shales of the Allegheny and Pottsville Groups exposed beneath 40 feet of glacial outwash in stream valleys provide up to 25 gpm.

AREAS IN WHICH 3 TO 10 GALLONS PER MINUTE ARE AVAILABLE

Ground water obtained from sandstones and shales. Wells yield 3 to 10 gpm which is adequate for domestic use only. Little or no glacial cover.

Isolated sand and gravel lenses in shallow, clayey glacial outwash. Wells yield less than 10 gpm. Wells not encountering sand and gravel must be drilled into the underlying sandstones.

Sandstones and shales provide up to 10 gpm in the unglaciated stream valleys. Occasional shallow alluvium less than 10 feet thick has been reported.

AREAS IN WHICH LESS THAN 3 GALLONS PER MINUTE ARE AVAILABLE

Unglaciated sandstones and shales provide meager supplies. Additional storage is required to provide adequate domestic supplies.

Note

The ground water characteristics have been mapped regionally, based upon interpretations of water well records and the area's geology and hydrology. Mapped well sites were selected as typical for the areas shown.

Information regarding specific sites may be obtained from the Division of Water.

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