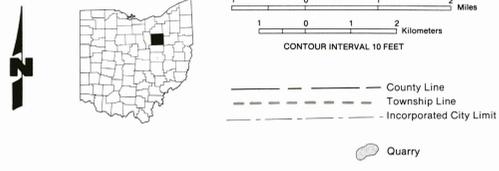


# Ground Water Resources of WAYNE COUNTY by Katie Crowell



## Well Yields

### AREAS IN WHICH YIELDS OF OVER 300 GALLONS PER MINUTE MAY BE DEVELOPED.

Best ground water areas in Wayne County. Permeable sand and gravel deposits in deep buried valleys with yields of 500 to 1000 gallons per minute have been developed at depth of 100 to 200 feet. These areas are suitable for municipal and large industrial well field development.

### AREAS IN WHICH YIELDS OF 100 TO 300 GALLONS PER MINUTE MAY BE DEVELOPED.

Good ground water areas. Permeable sand and gravel deposits in buried valleys yield well over 100 gallons per minute. Exploratory drilling may be necessary to locate sufficiently coarse materials. These areas are suitable for industrial and small municipal well field development.

Ground water is obtained from sandstones of the lower Pottsville Group and the Cuyahoga Formation. Wells will produce sustained yields of 100 to 200 gallons per minute with reported yields of over 500 gallons per minute. Industrial and small municipal supplies are available from wells ranging to 300 feet deep.

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

Ground water is obtained from the sandstones of the Pottsville Group in the eastern third of the county, and the Cuyahoga Formation in the western portion of the county. Yields of 10 to 25 gallons per minute are available at depths of less than 150 feet. The Sharon Conglomerate may be from 150 to 300 feet below land surface in some portions of the eastern third of the county. Large diameter wells may yield up to 100 gallons per minute from the Sharon, with sustained yields of 50 gallons per minute.

The aquifer in these areas is valley fill consisting of interbedded and interlensed sand, gravel, silt, and clay. Farm and small industrial supplies are available from wells ranging to 325 feet deep.

### AREAS IN WHICH YIELDS OF 10 TO 25 GALLONS PER MINUTE MAY BE DEVELOPED.

Ground water is obtained from sandstones and sandy shales of the Cuyahoga Formation and the Pottsville Group. Bedrock is covered with 20 to 80 feet of unconsolidated material which may supply domestic yields in the glaciated portions of the county.

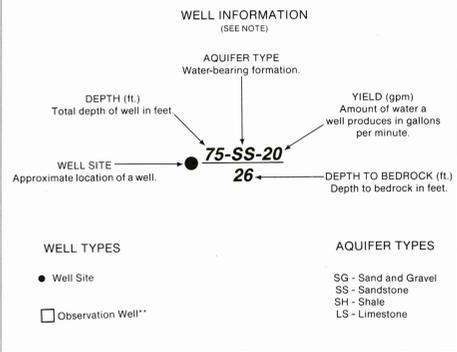
Ground water is obtained from sandstones overlain by unconsolidated glacial moraine deposits consisting of sand, gravel and impermeable layers of clay up to 300 feet thick. Wells may yield 5 to 20 gallons per minute, sufficient for farm and/or domestic supplies.

Valley fill and glacial outwash containing discontinuous bodies of sand and gravel. Yields range from 10 to 30 gallons per minute. If permeable deposits are not encountered wells may be drilled into the underlying sandstones in search of a domestic supply.

### AREAS IN WHICH YIELDS LESS THAN 10 GALLONS PER MINUTE MAY BE DEVELOPED.

Ground water obtained from thin, not extensive sand and gravel deposits interbedded with a thick clayey till. Yields range from 2 to 10 gallons per minute and depths may reach over 300 feet. Potable water may be found in the underlying sandstones and shales. Storage may be necessary to supply peak daily demands.

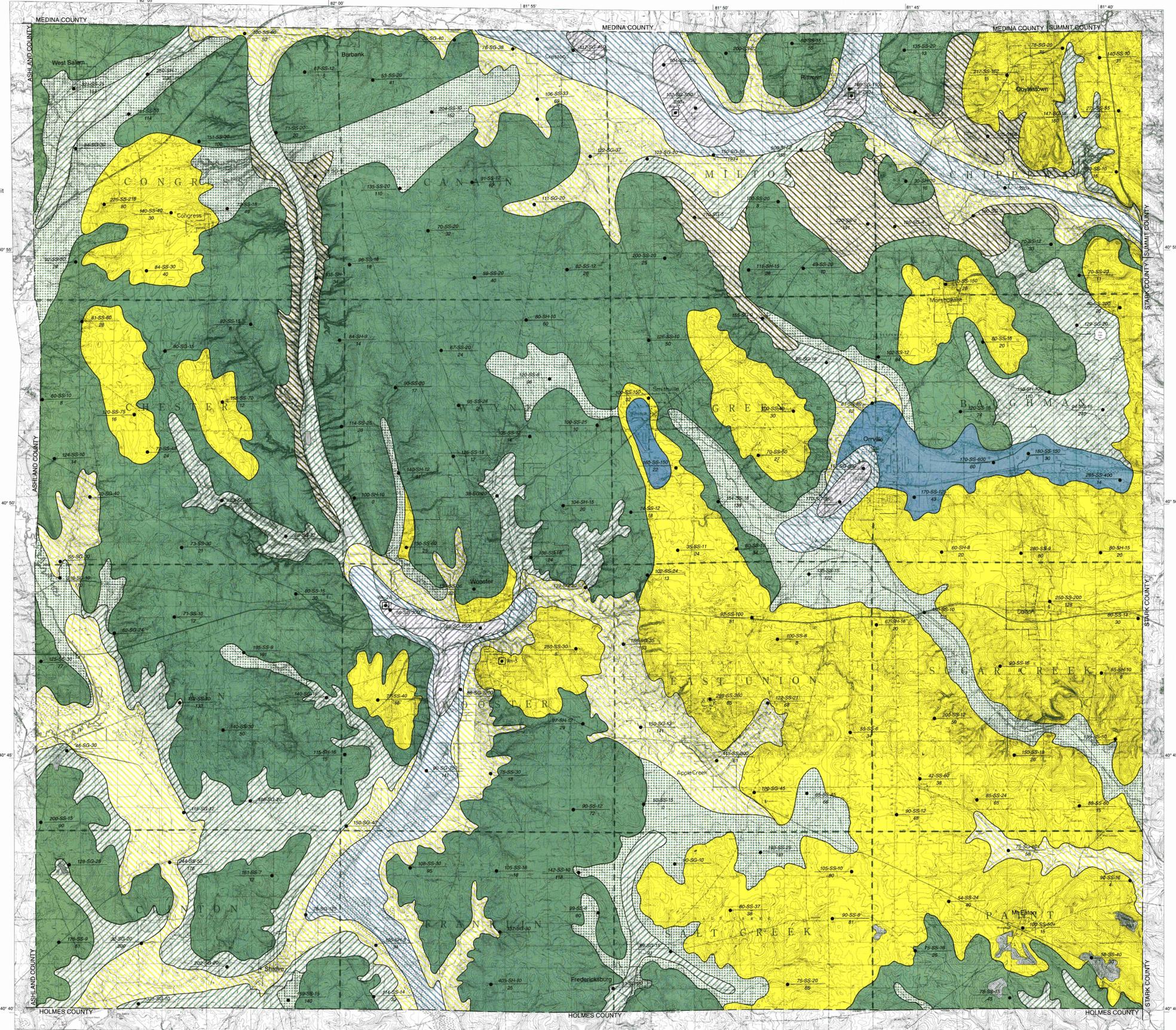
## Well Site Symbols



\*\* Observation well sites indicate the location of wells used to collect ground water level information. These wells are part of the State observation well network. Hydrographs of the water levels recorded in these and other State observation wells can be obtained through ODNR-Division of Water.

## 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.



Published 1979  
Reprinted 1993  
Ohio Department of Natural Resources  
Division of Water  
Ground Water Resources Section  
1939 Fountain Square  
Columbus, Ohio 43224

Total copies printed 500  
Last copy 8/1/90  
Publication date 3/93

George V. Voinovich  
Governor  
Frances S. Buchholzer  
Director

