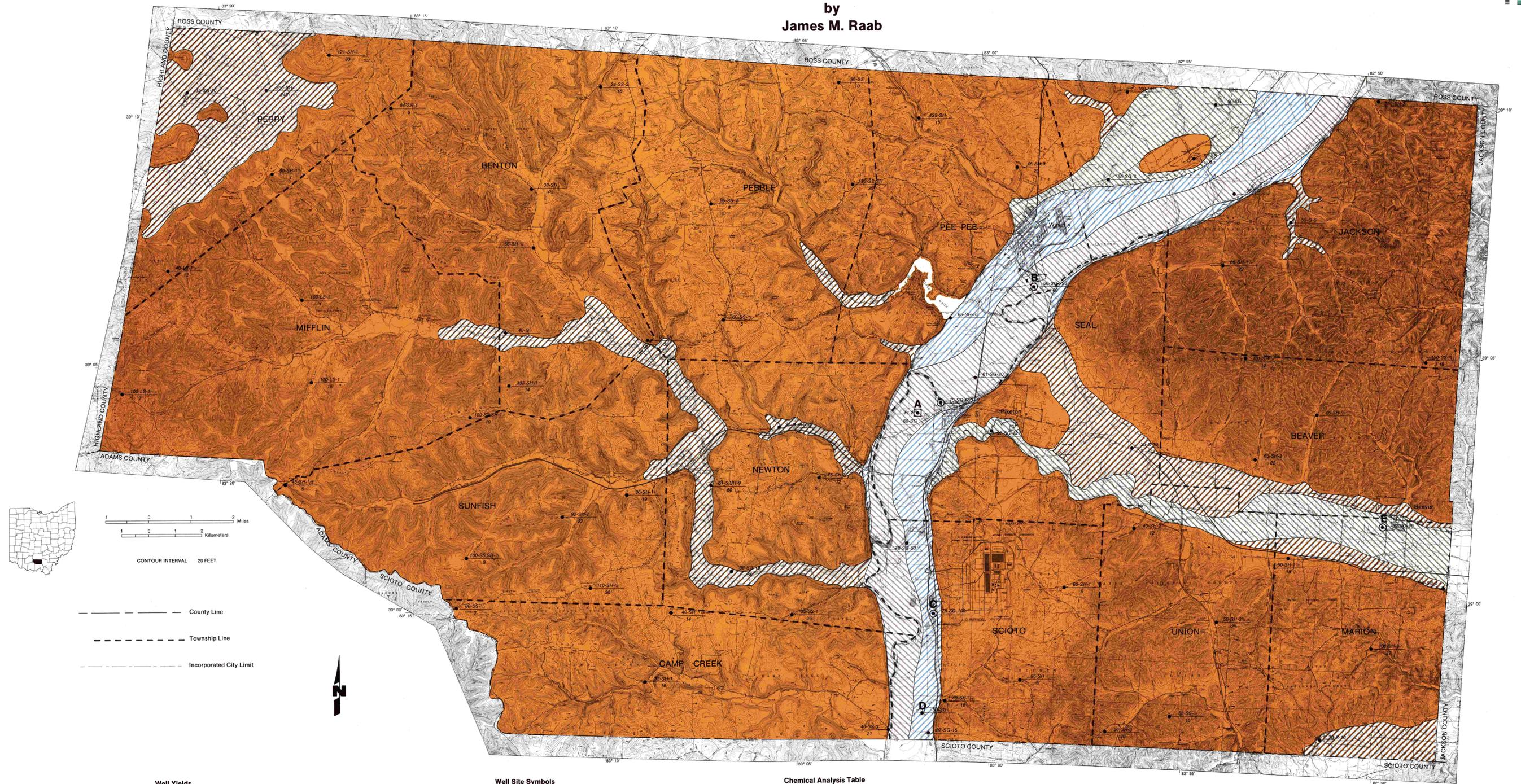


Ground-Water Resources of PIKE COUNTY

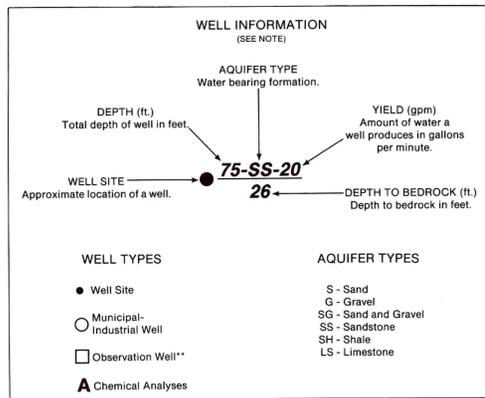
by James M. Raab



Well Yields

- AREAS IN WHICH YIELDS OF AS MUCH AS 1,000 GALLONS PER MINUTE CAN BE DEVELOPED.**
 Permeable deposits of sand and gravel beneath the area adjacent to the Scioto River yield as much as 1,000 gallons per minute to properly constructed large diameter wells. Large sustained yields are developed from wells ranging from 65 to 78 feet deep that are recharged by stream infiltration.
- AREAS IN WHICH YIELDS OF 100 TO 500 GALLONS PER MINUTE CAN BE DEVELOPED.**
 Regionally extensive, thick permeable deposits of sand and gravel occur beyond the recharge influence of the Scioto River. Test drilling is recommended to locate the coarser deposits.
- AREAS IN WHICH YIELDS OF 5 TO 25 GALLONS PER MINUTE CAN BE DEVELOPED.**
 Thick deposits of clay, silt and fine sand occasionally interbedded with layers of sand and gravel partially fill the pre-glacial Teays drainage channel. Yields in some areas may exceed 10 gallons per minute. Drilling deeper into the non-water-bearing shale bedrock is not recommended.
- AREAS IN WHICH YIELDS OF 3 TO 10 GALLONS PER MINUTE CAN BE DEVELOPED.**
 Deposits of silt and clay interbedded with thin lenses of sand and gravel partially fill the pre-glacial Teays drainage channel and major tributaries of the Scioto River. Wells usually range from 30 to 70 feet deep except in the northwestern corner of the county where depths may range to more than 250 feet.
- AREAS IN WHICH YIELDS OF LESS THAN 3 GALLONS PER MINUTE CAN BE DEVELOPED.**
 Thin clay and silt deposits overlying shale, shaley sandstone or limestone bedrock, yield very meager quantities of water.

Well Site Symbols



Chemical Analysis Table

Well Site	A	B	C	D	E
Depth	60	66	—	60	39
Aquifer	SG	SG	SG	SG	SG
Iron	2.3	1.46	0.03	0.17	5.3
Hardness [CaCO ₃]	350	—	—	—	—
Dissolved Solids	407	427	460	566	76
Chloride	13	21	13	63	17
Fluoride	—	0.17	0.15	0.12	0.06
Sodium	10	11	13	—	14
pH	7.4	—	7.8	—	—

Chemical constituents as milligrams per liter (mg/l)

Note

The ground-water characteristics have been mapped regionally, based upon interpretations of water well records and the area's geology and hydrology. Well sites mapped were selected as typical for the areas shown. Information regarding specific sites may be obtained from the Division of Water.

** 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.