



EXPLANATION

Area 1
Many properly constructed drilled wells in this area will produce several hundred gallons per minute from alluvial material unless bedrock is encountered at shallow depths. Maximum reported yield is 800 gpm. Most drilled wells will produce enough water for a domestic supply with a power pump and pressure system (more than 500 gallons a day) at depths of less than 100 feet. Water is hard or very hard but otherwise of good quality

Area 2
Most drilled wells in this area will produce enough water for a domestic supply with a power pump and pressure system (more than 500 gallons a day) at depths of less than 100 feet. Some wells produce as much as 150 gallons per minute from alluvium or thick limestone along large streams. Water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet

Area 3
Most drilled wells in this area will produce enough water for a domestic supply with a hand pump (100 to 500 gallons a day) at depths of less than 100 feet. Some wells will produce more than 500 gallons a day except during dry weather. Water is hard or very hard and may contain salt or hydrogen sulfide, especially at depths greater than 100 feet

Area 4
Most drilled wells in this area will not produce enough water for a dependable domestic supply (100 gallons a day). Wells along drainage lines may produce enough water for a domestic supply except during dry weather. Water is hard and may contain salt or hydrogen sulfide at depths greater than 100 feet

EXPLANATION

Well
Spring

No objectionable quantities of salt or hydrogen sulfide in water

Sulfurous water¹
Contains hydrogen sulfide in noticeable amounts

Salty water
Contains sodium chloride in amounts readily detected by tasting

Salty and sulfurous¹ water
Contains both sodium chloride and hydrogen sulfide in readily detectable amounts

¹Much of the sulfurous (hydrogen sulfide-bearing) water is satisfactory for domestic use, as the hydrogen sulfide escapes as a gas upon exposure of the water to the air

Aquifer
Qal Alluvium (Quaternary)
Om Maysville group (Ordovician)
Oe Eden group (Ordovician)
Ocy Cythiana formation (Ordovician)
Ol Lexington group (Ordovician)

Yield
1 Figure above line indicates yield, in gallons per minute, where known
P Reported adequate for power-pump installation
H Reported adequate for hand-pump installation
N No pump, or reported inadequate supply

Depth
70 Figure below line indicates depth of well, in feet

AVAILABILITY OF GROUND WATER IN BRACKEN, HARRISON, MASON, NICHOLAS, AND ROBERTSON COUNTIES, KENTUCKY (COUNTY GROUP 16)

Scale 1:125 000
1 0 1 2 3 4 5 6 7 8 9 10 Miles

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