

EXPLANATION

15.1
 Point of ground-water observation within the shallow unconsolidated aquifer

Number indicates depth to water level, in feet below land surface. Measurements by U.S. Geological Survey and Smith, Miller and Associates of Kingston, Pa., during April 30 - May 1, 1974, a period of high ground-water level. (1 foot multiplied by 0.3048 equals 1 metre)

5
 Line of equal depth to water level below land surface; Interval 5 feet (1.524 metres)

- Potential of Basement Flooding
- Basement flooding will occur when the ground-water level rises above the bottom of any basement or other subsurface excavation. At any specific site the potential of basement flooding depends upon the relative positions of the basement floor and the ground-water stage. Ground-water levels fluctuate throughout the year and are generally highest in the spring. The zones outlined depict relative potential of basement flooding, are based on measurements of depth to ground water April 30 - May 1, 1974.
- **Greatest Potential:** All basements that extend 5-feet (1.5 metres) or more below land surface will be flooded unless pumped or dewatered. Flooding of basements that extend less than 5-feet (1.5 metres) below land surface may occur unless pumped or dewatered.
 - **High Potential:** All basements that extend 10-feet (3 metres) or more below land surface will be flooded unless pumped or dewatered. Basements that extend between 5 and 10-feet (1.5 and 3 metres) below land surface may be flooded unless pumped or dewatered.
 - **Moderate Potential:** All basements that extend 15-feet (4.5 metres) or more below land surface will be flooded unless pumped or dewatered. Basements that extend between 10 and 15-feet (3 and 4.5 metres) below land surface may be flooded unless pumped or dewatered.
 - **Least Potential:** Basements that extend 15-feet (4.5 metres) or more below land surface may be flooded unless pumped or dewatered.

Areas not colored are outside the limits of the study.

*At a specific site, depth to water level can be extrapolated from the contour lines.

Base map from the Susquehanna River Basin Commission, 1973



0 500 1000 1500
 0 100 200 300 400 500
 Feet
 Metres
 Contour Interval 5 feet (1.524 metres)
 Datum is mean sea level

MAP SHOWING APPROXIMATE DEPTHS TO WATER LEVEL IN THE SHALLOW AQUIFER, APRIL 30 - MAY 1, 1974, AND THE POTENTIAL OF BASEMENT-FLOODING IN THE KINGSTON AREA, PENNSYLVANIA

Prepared by U. S. Geological Survey in cooperation with the Pennsylvania Department of Environmental Resources and the Susquehanna River Basin Commission.

Open-File map 74-122

Hydrology by D. J. Garton
 U.S. Geological Survey

Pennsylvania (Kingston area), Ground-water potential, 1974
 ep. 10

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