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Average Ground-Water Temperature Map, Wisconsin

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GEOLOGICAL AND NATURAL HISTORY SURVEY

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AVERAGE GROUND-WATER TEMPERATURE MAP

The data used to generate the ground-water temperature map were taken from the U. S. Geological Survey data storage and retrieval system. Ground water temperatures were taken from 743 wells sampled from 1934-1978 with depths from 30-350 feet. The average ground-water temperature for each county was determined and these average values were used to make the state-wide contour map.

The map illustrates a general trend of warmer ground-water temperatures as one moves from north to south in Wisconsin. The average ground-water temperature ranges from about 47°F in the north central part of the state to about 51°F in the extreme southern part of the state. Thus, the map may be used to determine what the probable ground-water temperature in an area will be, but it may not be used to determine the exact ground-water temperature an individual will find in his or her well. For example although the average ground-water temperature in Dane County is 50.4°F, one well sampled in this county had a ground-water temperature of 45°F. Likewise, although the average ground-water temperature in Ashland County is 47.5°F, one well sampled in this county had a ground-water temperature of 52°F. Some of the extreme high and low temperature values may be due to measurement or sampling error.

Average Ground-Water Temperature in Wells 30-350 Feet Deep. (°F)

