

Illinois State Water Survey

# Illinois Community Water Supply Wells

- Communities
- County Seats
- Sand and Gravel Wells
- Shallow Bedrock Wells
- Deep Bedrock Wells
- ▨ Major Sand and Gravel Aquifers
- ▨ Major Shallow Bedrock Aquifers (< 500 feet)
- ▨ Major Deep Bedrock Aquifers (> 500 feet)

Illinois has abundant buried groundwater reserves that supply millions of gallons of groundwater per day for public, agricultural, and industrial/commercial use. These aquifers are unevenly distributed throughout the state. Fortunately, surface water or a combination of groundwater and surface water is available to meet required needs in most cases where groundwater resources are marginal.

This map depicts community water supply wells in relation to the major aquifer systems in Illinois. A community water supply is defined as "a public water system which serves at least 15 service connections used by residents or regularly serves at least 25 residents for at least 60 days per year." Only community wells classified as active in the ISWS Public Industrial-Commercial Survey database for the Year 2003 are shown.

Major aquifers are capable of yielding at least 70 gallons per minute to wells and cover at least 50 square miles. Areas delineated indicate three types of major aquifers: sand and gravel, shallow bedrock (major units within 500 feet of ground surface), and deep bedrock (units greater than 500 feet from ground surface). Unlike the boundaries of the other aquifers, the southern boundary of the deep bedrock is delineated across central Illinois as an estimated 2,500 milligrams per liter total dissolved solids concentration boundary, not a physical boundary. Colored symbols represent the aquifer in which the well is completed: sand and gravel, shallow bedrock, or deep bedrock. However, not all community wells are located within a major aquifer. Wells classified as deep bedrock may also draw water from the shallow bedrock aquifers.

This map was funded in part by the Environmental Protection Trust Fund and the Illinois Environmental Protection Agency. The technical content of the map is the responsibility of the authors. The user assumes all liability for the interpretation and use of the map.

Lambert Conformal Conic NAD27 projection based on standard parallels 30° and 45°.

#### MODIFIED GEOGRAPHIC INFORMATION SYSTEM THEMES

##### Well Locations

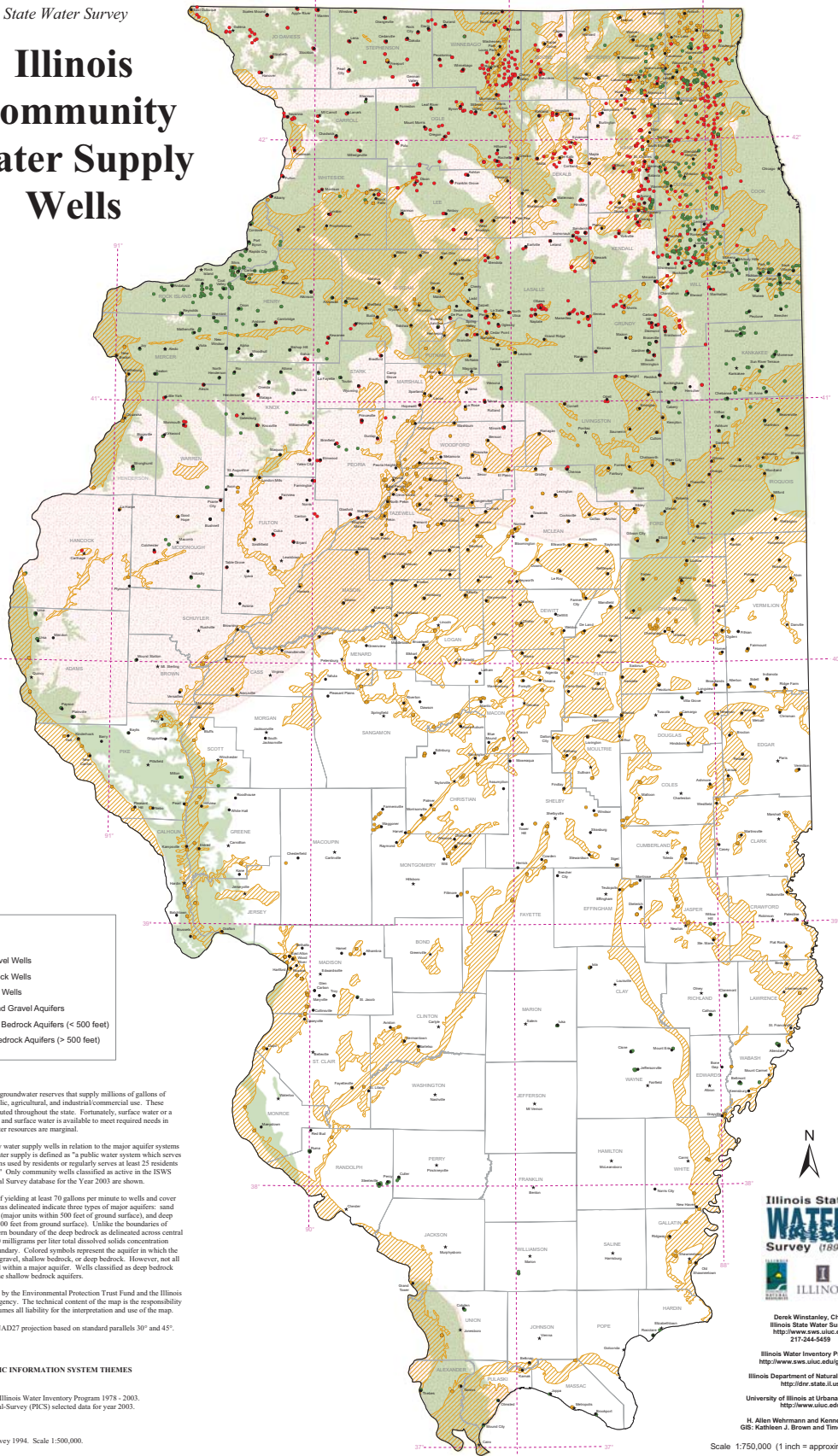
Illinois State Water Survey, Illinois Water Inventory Program 1978 - 2003.  
Public Industrial-Commercial Survey (PICS) selected data for year 2003.  
Scale 1:24,000.

##### Aquifers

Illinois State Geological Survey 1994. Scale 1:500,000.

##### Communities

Illinois Department of Natural Resources, Illinois Geographic Information System, 1996. Point locations are approximately the center of the communities.  
Scale 1:500,000.



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Illinois Water Inventory Program  
<http://www.isws.uiuc.edu/gwsi/wip>  
Illinois Department of Natural Resources  
<http://dnr.state.il.us>

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Scale 1:750,000 (1 inch = approximately 12 miles)



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