

Bibliography of Selected References on the Hydrogeologic and Chemical Properties of the Galena-Platteville Bedrock Unit in Illinois and Wisconsin, 1877–1997

By Timothy A. Brown, Charles P. Dunning,
and William G. Batten

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ABSTRACT

This report presents selected references concerning the Galena-Platteville deposits in Illinois and Wisconsin published from 1877 to 1997. Sources of the bibliographic information are the Universities of Illinois and Wisconsin Library Computer Systems; Illinet Online; the Illinois and Wisconsin District Libraries of the U.S. Geological Survey; U.S. Geological Survey Selected Water Resources Abstracts; U.S. Environmental Protection Agency reports; and Federal, State, and local agencies, corporations, and consultants.

The bibliography is arranged alphabetically, by county, in Illinois and Wisconsin. The references available for each county are arranged alphabetically by author. In addition, one or more selected hydrogeologic key words describing the content of the reference follow each listing. These key words are geophysical properties, hydraulic properties, inorganic geochemistry, lithology, organic geochemistry, physical properties, and water use. Included in the bibliography are 186 references obtained for 15 counties in Illinois and 21 counties in Wisconsin.

INTRODUCTION

The Galena-Platteville deposits in northern Illinois and the Sinnipee Group¹ in Wisconsin compose the Galena-Platteville aquifer and are the source of

¹For the purposes of this report, the Galena-Platteville deposits in Illinois and the Sinnipee Group in Wisconsin collectively will be called the Galena-Platteville bedrock unit.

ground water for many private residences. Because the Galena-Platteville bedrock unit is near land surface in much of the study area (fig. 1) and has limited capacity to attenuate any contaminants that may enter the unit, ground water in the aquifer is susceptible to contamination. In the subcrop area of Illinois and Wisconsin (Willman and Kolata, 1978) volatile organic compounds and other contaminants have been detected in this aquifer at several sites (Mills, 1993; Kay and others, 1994). Once contamination has entered the unit, the complex nature of the ground-water flow and contaminant transport through the aquifer makes characterization of the aquifer difficult. It is hoped that compilation of the references pertaining to the Galena-Platteville bedrock unit into a single source will assist investigators seeking a more thorough understanding of the unit, thereby facilitating aquifer characterization and any attempts at ground-water remediation.

This bibliography was prepared by the U.S. Geological Survey in cooperation with the U.S. Environmental Protection Agency as part of a study of the Galena-Platteville bedrock unit. Sources of the bibliographic information are the Universities of Illinois and Wisconsin Library Computer Systems; Illinet Online; Illinois and Wisconsin District Libraries of the U.S. Geological Survey; U.S. Geological Survey Selected Water Resources Abstracts; U.S. Environmental Protection Agency reports; and Federal, State and local agencies, corporations, and consultants. The large number of references concerning the Galena-Platteville bedrock unit and the continued interest in the quality of the ground water obtained from the unit indicate the need for a single source of references. Although a thorough literature search was done to compile this bibliography, it is not claimed to be a complete compilation of all references concerning the Galena-Platteville bedrock unit.

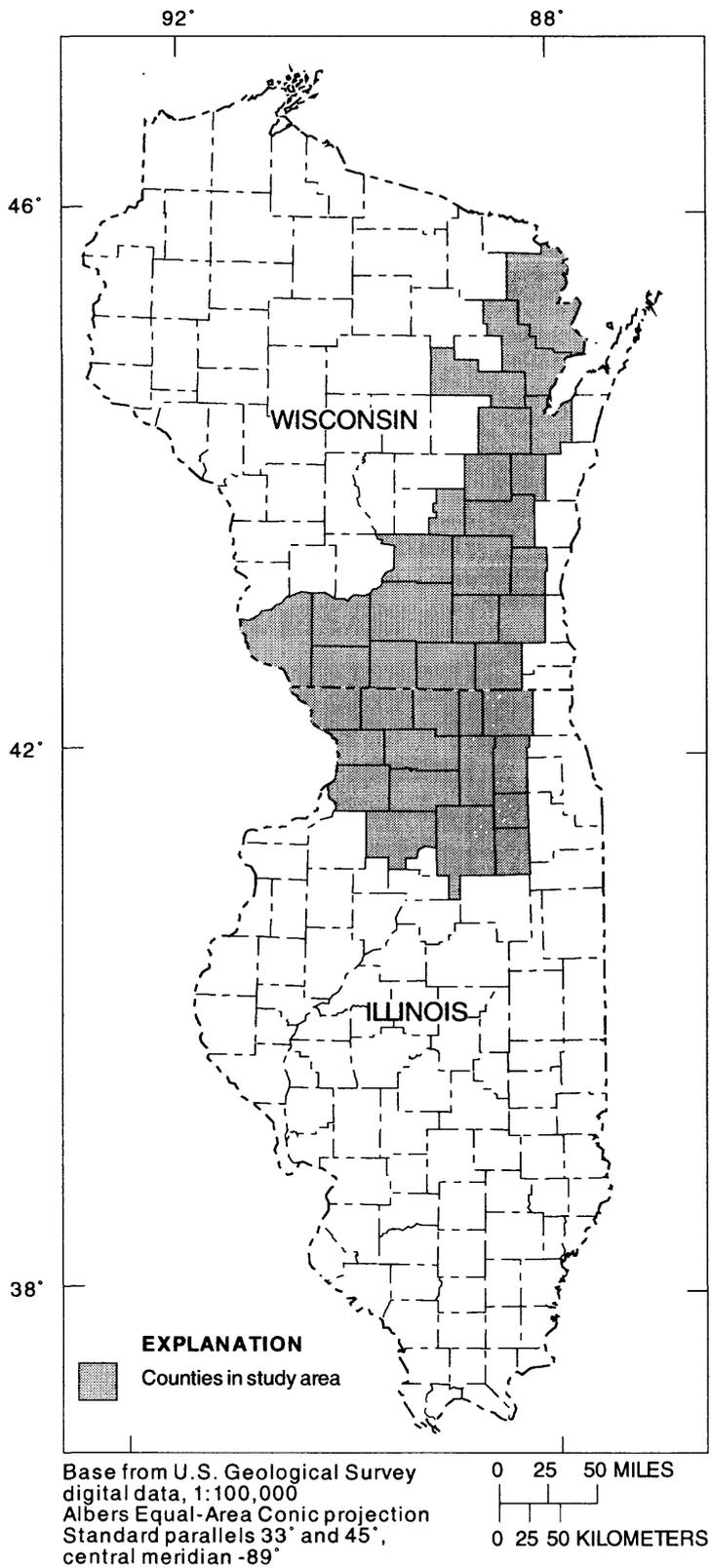


Figure 1. Location of the study area in Illinois and Wisconsin.

ORGANIZATION OF THE BIBLIOGRAPHY

The bibliography contains 186 references published between 1877 and 1997 that concern the Galena-Platteville deposits in 15 counties in Illinois and 21 counties in Wisconsin (fig. 1). The references are arranged alphabetically by county in Illinois and Wisconsin. The references available for each county are arranged alphabetically by author. The arrangement is chronological when an author has more than one publication. If two or more publications within a chronological listing have the same year, the publications are arranged alphabetically by title, and the dates are followed by letters such as a, b, and c. Each reference is followed by one or more key words that identify the type of hydrogeologic information available in that reference.

The references in the bibliography present information ranging from regional-scale investigations covering multiple counties to site-specific investigations. Because of the diverse nature of the references, the key words that are assigned to each reference are intended only to provide a general idea of the content of the reference. The reader should obtain the original reference for detailed information.

The assigned key words are:

- geophysical properties** - The reference includes specific surface and borehole geophysical data, such as caliper, natural gamma, temperature, and other borehole geophysical logs.
- hydraulic properties** - The reference includes specific hydraulic properties, such as specific capacity, transmissivity, porosity, and storage coefficient.
- inorganic geochemistry** - The reference includes data for inorganic chemical analyses. Also may include field parameters, such as pH, specific conductance, and temperature.
- lithology** - The reference includes a description of the bedrock unit composition.
- organic geochemistry** - The reference includes data for organic chemical analyses.
- physical properties** - The reference includes bedrock-unit properties, such as presence or absence, thickness, bedrock-surface altitude, and bedrock water levels.
- water use** - The reference includes pumpage rates and types of use for water obtained from the bedrock unit.

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Winnebago County

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