

Water-Related Publications of the U.S. Geological Survey in Minnesota, 1946-94

Compiled by G.L. Amos

U.S. Geological Survey
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U.S. DEPARTMENT OF THE INTERIOR

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Introduction

The U.S. Geological Survey was established as an agency in the Department of the Interior by an Act of Congress in 1879. The growth of its scientific investigations has paralleled the growth of the United States and has contributed to that development. Initially, the mission of the U.S. Geological Survey was to assess the mineral resources of the United States. However, as need arose, the Survey mission expanded and the organization eventually was divided into several operating Divisions and Offices, each addressing specific aspects of natural resources. As a result of its expanding research and fact-finding role, the U.S. Geological Survey has become the Nation's largest earth science research agency, the largest civilian mapmaking agency, the primary source of data on the Nation's surface-water and ground-water resources, and the employer of the largest number of professional earth scientists. Today's programs, which serve a diversity of needs and users, include:

- * Conducting detailed assessments of the energy and mineral potential of the Nation's land and offshore areas.
- * Investigating and issuing warnings of earthquakes, volcanic eruptions, landslides, and other geologic and hydrologic hazards.
- * Conducting research on the geologic structure of the Nation.
- * Studying the geologic features, structure, processes, and history of the other planets in our solar system.
- * Conducting topographic surveys of the Nation and preparing topographic and thematic maps and related cartographic products.
- * Developing and producing digital cartographic data bases and products.
- * Collecting data on a routine basis to determine the quantity, quality, and use of surface and ground water.

- * Conducting water-resources appraisals to describe the consequences of alternative plans for developing land and water resources.

- * Conducting research in hydraulics and hydrology, and coordinating all Federal water-data acquisition.

- * Using remotely sensed data to develop new cartographic, geologic, and hydrologic research techniques for natural resources planning management.

- * Providing earth-science information through an extensive publications program and network of public access points.

Along with its continuing commitment to meet the growing and changing earth-science needs of the Nation, the Survey remains dedicated to its original mission to collect, analyze, interpret, publish, and disseminate information about the natural resources of the Nation--providing "Earth Science in the Public Service."

Water Resources Division

The mission of the Water Resources Division is to provide the hydrologic information and understanding needed for the optimum utilization and management of the Nation's water resources for the overall benefit of the people of the United States.

This is accomplished, in large part, through cooperation with other Federal and non-Federal agencies by:

- * Collecting, on a systematic basis, data needed for the continuing determination and evaluation of the quantity, quality, and use of the Nation's resources.

- * Conducting analytical and interpretive water-resources appraisals describing the presence, availability, and the physical, chemical, and biological characteristics of surface water and ground water.

- * Conducting supportive basic and problem-oriented research in hydraulics, hydrology, and related fields of science to improve the scientific basis for investigations and measurement techniques, and to understand

hydrologic systems sufficiently well to quantitatively predict their response to stress, either natural or man-made.

- * Disseminating the water data and the results of these investigations and research through reports, maps, computerized information services, and other forms of public release.

- * Coordinating the activities of Federal agencies in the acquisition of water data for streams, lakes, reservoirs, estuaries, and ground water.

- * Providing scientific and technical assistance in hydrologic fields to other Federal, State, and local agencies, to licensees of the Federal Power Commission, and to international agencies on behalf of the Department of State.

- * Acquiring, developing, and disseminating information on water-related natural hazards such as droughts, floods, landslides, land subsidence, mudflows, and volcanoes.

- * Administering the provisions of the Water Resources Research Act of 1984, which include the State Water Resources Research Institutes and the Research Grants and Contracts Programs.

- * Supporting the provisions of the National Environment Policy Act of 1969 and managing the Geological Survey conduct of natural resources surveys in response to the Comprehensive Environmental Response, Compensation, and Liability Act (Superfund Act) of 1980.

The U.S. Geological Survey has expanded its work in Minnesota to meet growing demand for scientific data by Federal, State, and local agencies, for use in the planning and management of one of the State's most precious resources—water. The Minnesota District of the Water Resources Division, with the main office in Mounds View, and a field office in Grand Rapids, continues to investigate the presence, quantity, quality, distribution, and movement of surface and ground water. Its activities include the systematic collection, analysis, and interpretation of data; the investigation of water demand for public supply, industrial, domestic, and agricultural purposes; and the research and development of new techniques to improve the scientific basis of water data collection and investigative principles.

Purpose

This report lists the water-related publications written by or in cooperation with the U.S. Geological Survey in Minnesota for 1946-94. These publications are released

in scientific journals, conference proceedings, State or local cooperator report series, and as U.S. Geological Survey reports.

The bibliographic listings are divided into eight sections. The first section is a chronological listing by year of publication. The second section is an alphabetical listing of publications by author. Sections three through eight list publications by subject. The subjects are ground water, surface water, water quality, methods of data collection, hydrologic modeling, and miscellaneous. In the subject listings publications are arranged alphabetically by author. In addition, two indexes are provided. The first is to help locate publications by additional subjects and geographic areas. The second is to help locate publications by author.

Where to Obtain U.S. Geological Survey Publications

Most publications listed in this report are available through the U.S. Geological Survey office in Mounds View, Minnesota (fig. 1); however, a listing of additional information resources are provided.

Current U.S. Geological Survey releases are described in a monthly pamphlet, "New Publications of the Geological Survey." You may have your name added to the mailing list and receive the monthly catalog free. Write to:

**Mailing List Unit
Geological Survey
582 National Center
Reston, VA 22092**

Open-File Reports, Water-Resources Investigations Reports, and popular leaflets, pamphlets, and booklets may be purchased from:

**U.S. Geological Survey
Earth Science Information Center
Open-File Report Section
Box 25286, MS 517
Denver, CO 80225**

Professional Papers, Bulletins, Water-Supply Papers, Techniques of Water Resources Investigations, Circulars, Earthquake Information Bulletins, and maps may be purchased from:

**U.S. Geological Survey
Branch of Distribution and Map Distribution
Box 25286
Denver, CO 80225**

Flood-prone area maps of Minnesota may be obtained from the U.S. Geological Survey office in Mounds View, Minnesota.

Map, benchmark, and aerial photograph information is available from:

National Cartographic Information Center
U.S. Geological Survey
12201 Sunrise Valley Drive
Reston, VA 22092

Requests for miscellaneous information on water and on programs in other states may be referred to:

Public Inquiries Office
U.S. Geological Survey
12201 Sunrise Valley Drive
Reston, VA 22092

The Geological Survey National Center maintains a library with an extensive earth-sciences collection. Local libraries may obtain books, periodicals, and maps through interlibrary loan by writing to:

U.S. Geological Survey Library
950 National Center
Room 4-A-100
12201 Sunrise Valley Drive
Reston, VA 22092

Hydrologic Investigations Atlases and Hydrologic Unit Maps may be purchased from:

U.S. Geological Survey
Branch of Distribution and Map Distribution
Box 25286
Denver, CO 80225

Topographic maps of Minnesota also may be obtained from:

Minnesota Geological Survey
2642 University Avenue
St. Paul, Minnesota 55114

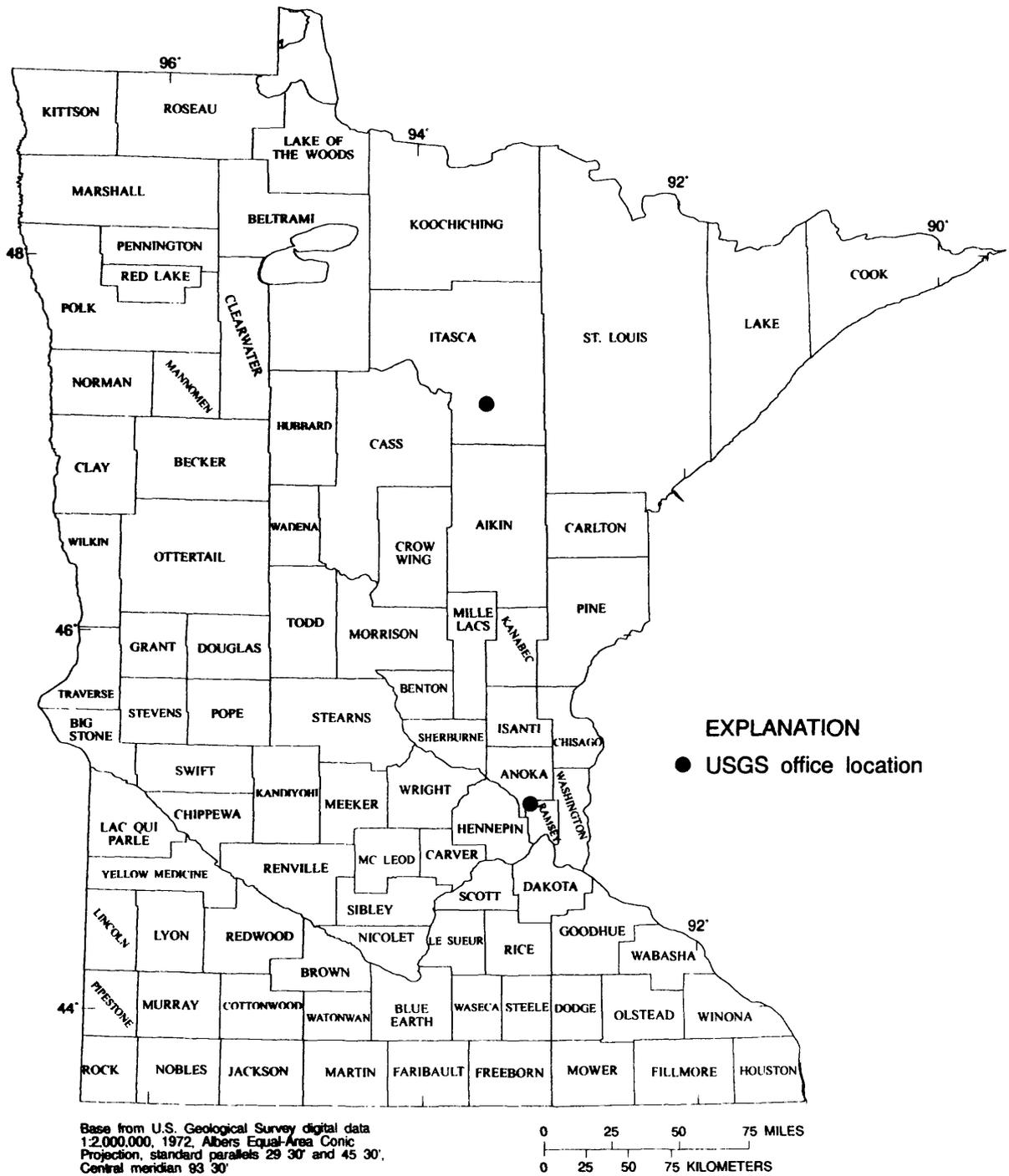


Figure 1. U.S. Geological Survey offices and county locations in Minnesota

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