

WISCONSIN MAPPING BULLETIN

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INFORMATION ON CARTOGRAPHIC ACTIVITIES AND
AERIAL PHOTOGRAPHIC COVERAGE IN THE STATE
OF WISCONSIN; PUBLISHED QUARTERLY BY THE
STATE CARTOGRAPHER'S OFFICE, UNIVERSITY OF
WISCONSIN, 144 SCIENCE HALL, MADISON, WI. 53706.

AERIAL PHOTOGRAPHY CATALOG-1976

An updated and revised second edition of the Catalog of Aerial Photography on Wisconsin 1971-1976 is now available from the State Cartographer's Office. Coverage has been expanded to include city, county, commercial and additional state agency holdings. A new, larger scale index map format has also been implemented.

Single copies of the catalog are available free on request from the State Cartographer's Office, 144 Science Hall, Madison, WI 53706 (608) 262-3065.

SOILS OF WISCONSIN

Soils of Wisconsin by Prof. Francis D. Hole makes available to the public a comprehensive summary of information thus far gathered on the soil resources of the state. It includes definitions of terms and concepts relating to factors and processes of soil formation, soil properties, modern soil classification, and descriptions of major soil regions of Wisconsin and of the specific kinds of soils that characterize them. A map sequence, beginning with an index map of Wisconsin and continuing through a series of pedogenic factor maps to the final soil map, presents geographic relationships of soils to the environment. Soils of Wisconsin is Bulletin 87, Soil Series 62 of the Wisconsin Geological and Natural History Survey. It is published and sold by the University of Wisconsin Press, Box 1379, Madison, WI 53701 (\$15.00, 223 pages, illus., maps, 1976).

METRIC CONVERSION OF THE NATIONAL MAPPING PROGRAM

Metrication was the topic of a panel discussion chaired by Prof. Richard Dahlberg, Northern Illinois University, at the A.A.G., West Lakes Division annual meeting in Iowa on October 29, 1976. Representatives for Iowa, Illinois, Minnesota, Wisconsin, and the U.S. Geological Survey participated on the panel. The views of the Wisconsin Topographic Committee were presented by Christine Reinhard, State Cartographer's Office.

The basic metrication plans of the U.S.G.S. Topographic Division are:

1. The scale of 1:25,000 shall be adopted as the basic scale for the $7\frac{1}{2}'$ quadrangle mapping series. (continued on page 2)

METRICATION (from page 1)

2. Contour intervals of 1, 2, 5, 10, 20, 50 and 100 meters will be basic intervals.
3. All new county maps will be prepared as metric editions at 1:50,000 or 1:100,000.
4. 30' by 60' quadrangle maps will be prepared as metric editions at 1:100,000.
5. Complete revisions of 1:250,000-scale maps will be metric editions.

The U.S.G.S. recognizes that the various states have different problems and requirements and that the percent of completion of standard 1:24,000 quad coverage varies greatly among them. Several operating procedures tailored to the varying requirements of the states were formulated by the U.S.G.S. for the transition period:

- a. New 7½' maps will be prepared as full metric versions (1:25,000 with metric contours) in all states willing to accept such mapping.
- b. New 1:24,000 maps will be prepared with metric contours in states which are willing to accept metric contours but require 1:24,000 scale to maintain scale continuity.
- c. New 1:24,000 maps will be prepared with foot contours in states which insist on delaying metric conversion until complete 1:24,000 coverage is available.
- d. Complete revisions of existing 7½' maps will be metric editions.

Considering the status of 7½' quad coverage in Wisconsin (46% complete) option "c" is best suited for achieving a single consistent set of topo maps at a uniform scale with compatible contour intervals. The Wisconsin Topographic Committee realizes the necessity of rapid conversion to metric mapping but one scale total coverage is top priority at this time. The addition of metric conversion information to the standard 1:24,000-scale map is highly endorsed but this information would be supplemental and would not replace English measurements. It is anticipated that with the current U.S.G.S.-Wisconsin coop mapping program complete 7½' coverage will be available by 1985.



GLACIAL DEPOSITS OF WISCONSIN;



SAND AND GRAVEL RESOURCE POTENTIAL

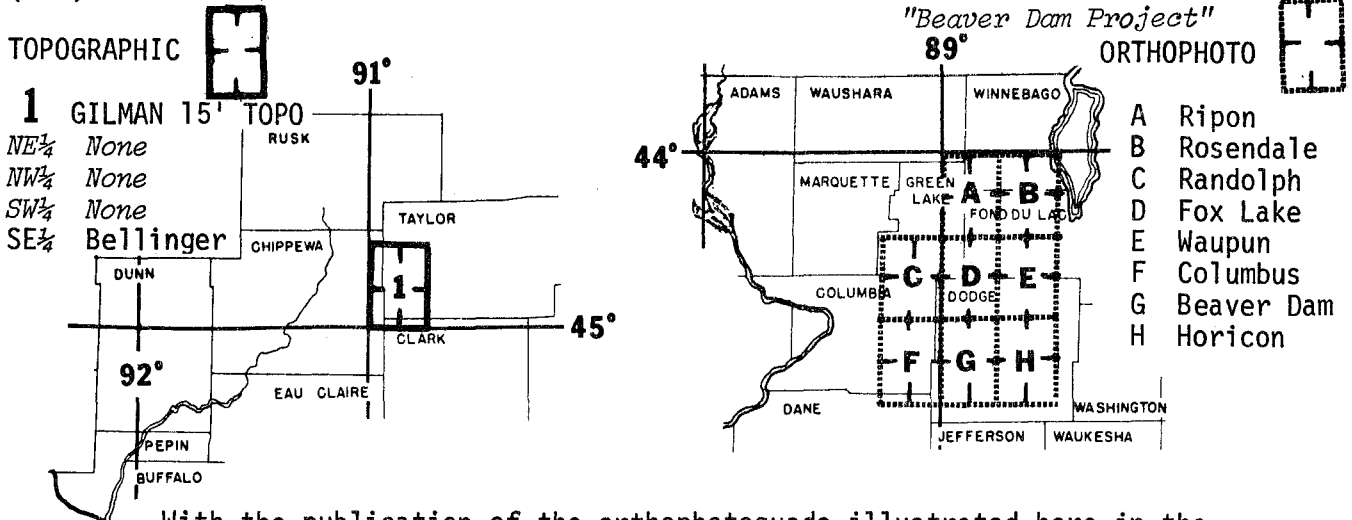
This map is based on all available published and unpublished glacial mapping in the state and represents a summary of the current state of knowledge concerning the surficial glacial deposits of Wisconsin. The purpose of the map and its accompanying 19-page report is to indicate the sand and gravel resource potential of these deposits.

This summary map is the 10th in the LANDRAP series which was jointly funded by the Dept. of Administration and the Wisconsin Geological Survey. It was prepared by David W. Hadley and James H. Pelham.

Glacial Deposits of Wisconsin is available for purchase from the Wisconsin Geological Survey, 1815 University Ave., Madison, WI 53706 (608) 262-0586. for \$3.50. The accompanying report of the same title is \$1.50.

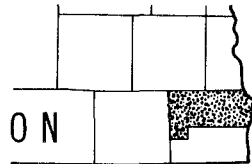
NEW PRODUCTION FROM U.S. GEOLOGICAL SURVEY

This newly published 7½' topographic quadrangle map (1:24,000) is listed by its location on the superseded 15' topographic map of the area. It is available from the Wisconsin Geological Survey, 1815 University Ave., Madison, WI 53706 (608) 262-0586. \$1.50



With the publication of the orthophotoquads illustrated here in the "Beaver Dam" project area, the U.S. Geological Survey has during 1975 and 1976 published a total of 132 orthophotoquads in Wisconsin. Based on the 7½' format (1,156 such areas in the state) this represents a 11.5% of total coverage. Currently in process at the U.S. Geological Survey are an additional 84 orthophotoquads scheduled for release during 1977. The Wisconsin Geological and Natural History Survey has an index of all currently published orthophotoquads available free on request. For information on the characteristics and properties of an orthophotoquad contact the State Cartographer's Office.

RACINE COUNTY FIRST TO COMPLETE REMONUMENTATION



Racine County has completed relocation and restoration of all corners set by the Original Government Survey and has established a network of horizontal and vertical control between these corners, which is a first for any county in the nation.

In 1969 the Wisconsin Society of Land Surveyors was instrumental in having a law passed in the state making it permissible for all counties to remonument at least five percent of their section corners each year. At that rate at the end of 20 years every county would have all their section corners relocated, remonumented, and referenced. At the present time Wisconsin has approximately 40 some counties that have begun a program of relocation and remonumentation.

Racine County initiated its program prior to the law being enacted. The program was started in 1965, and last year, 1976, the entire county was completely remonumented. A state plane coordinate system on the monuments along with second order vertical control on each section corner have been established as well. This field work was accomplished by Racine County Surveyor John H. Nielson.

In conjunction with the section corner remonumentation and state plane coordinates, plus second order vertical control on these section corners, the entire county will also have been topographically mapped at a scale of 1 in. = 200 ft., with a contour interval of 2 feet, in 1977.



CENSUS NEWS
CENSUS INDEXES REPRINTED



The Index to Selected 1970 Census Reports and the Index to 1970 Census Summary Tapes, which have been out-of-print for some time, have now been reprinted. Both indexes include concise descriptions of every data table, alphabetized by variable. Both also include cross-reference guides to help the reader use appropriate terminology and find all relevant tables. The Index to Selected 1970 Census Reports may be purchased for \$3.70 and the Index to 1970 Census Summary Tapes may be purchased for \$2.60 from the Subscriber Services Section, Bureau of the Census, Washington, D.C. 20233.



1980 CENSUS TRACTS DELINEATED



The Census Bureau's program to establish census tracts for the 1980 Census of Population and Housing is on schedule to have census tracts delineated for all Standard Metropolitan Statistical Areas (SMSA's) in time for use in the 1980 Decennial Census.

The most common change requested was to subdivide existing tracts because of significant population growth reflected in the 1970 figures or projected for 1980. The other significant change proposed was to relocate tract boundaries which currently follow corporate limits if they do not coincide with physical features such as streets, railroads or streams, and align them with these visible features.

Further information on the 1980 census tracts can be obtained from the Chief, Geography Division, Bureau of the Census, Washington, D.C. 20233.

..... COUNTIES NEWLY TRACTED SINCE 1970

Counties which will be tracted for the first time for the 1980 census are listed below. Those counties marked with an asterisk have tract plans for 1980 approved.

Fond du Lac (Non-SMSA)*
La Crosse*
Sheboygan (Non-SMSA)*

St. Croix
Walworth (Non-SMSA)*



WISCONSIN MAP SOCIETY



On December 2, 1976 Christine Reinhard of this office and Michael Fox, Map Curator, State Historical Society, gave a joint presentation on the historical and current mapping of Monroe County before the Monroe County Historical Society in Sparta. The MCHS is the parent organization of the Wisconsin Map Society.

The formation of the Map Society was discussed at a meeting held on November 7, 1976 in Sparta. Temporary officers were elected and a constitution was proposed based on the constitution of the Chicago Map Society. Plans to affiliate with the State Historical Society of Wisconsin and the Council for Local History were also discussed.

An annual meeting is scheduled for May 1977 in Madison to elect officers and ratify the new constitution. Membership cards and a descriptive brochure are being printed. Persons interested in joining or learning more about the Wisconsin Map Society should contact Mr. Wilfred Beaver, President, Wisconsin Map Society, P.O. Box 422, Sparta, WI 54656 (608) 269-6205.

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