

WISCONSIN MAPPING BULLETIN

Volume 7 No. 1 January 1981

A QUARTERLY NEWSLETTER FOCUSED ON
CARTOGRAPHIC ACTIVITIES IN WISCONSIN

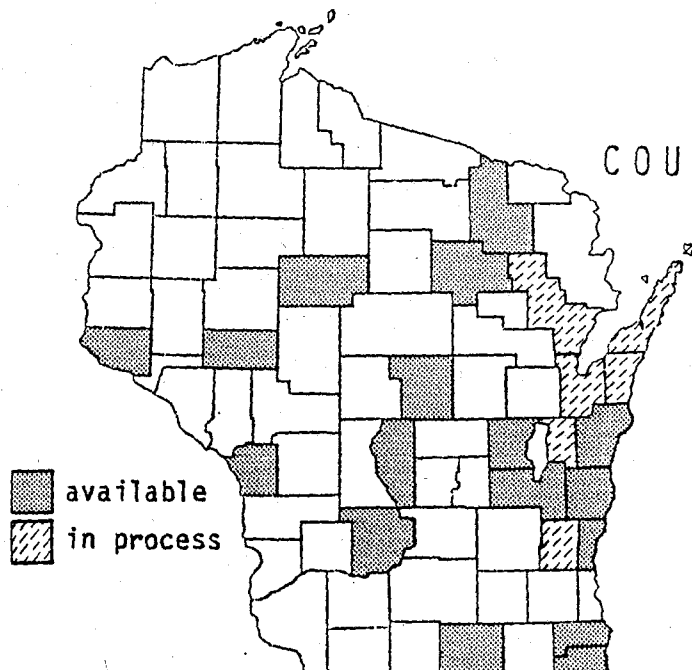
Wisconsin State Cartographer's Office

Established 1973

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(608) 262-3065

Art Ziegler
State Cartographer

Christine Reinhard
Editor



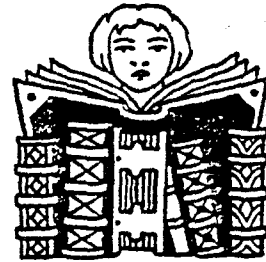
COUNTY CARTOGRAPHIC CATALOGS

Production continues in the State Cartographer's Office on county cartographic catalogs. Since the last report in the July 1980 Bulletin, catalogs for MANITOWOC, RACINE and SHEBOYGAN have been printed and are being distributed. In the final stages of production and scheduled to go to the printer this month are catalogs for BROWN and KEWAUNEE. During the next 90 days, we plan to release for printing the catalogs for Washington, Door, Calumet and Oconto. The graphic indicates these in-production counties as well as the 16 previously published.

1:100,000 DEVELOPMENTAL COUNTY MAPS

During 1980 the State Cartographer's Office produced several developmental maps. The Office utilized film reproducibles at 1:100,000 scale from the U.S. Geological Survey's county and quad (30' by 1 degree) intermediate mapping program. The intent of this developmental mapping was to use existing copy available from U.S.G.S. to produce county base maps at a reasonable cost. The maps produced were base maps for JEFFERSON and ROCK Counties with slightly different graphic aspects for each county. In addition, a summarization map of Farmland Preservation for Jefferson County was also printed. In January the Office is printing a complete report on this development mapping. The manual includes samples of the above maps and a copy of the current U.S.G.S. 1:100,000-scale map for Fond du Lac. Planned distribution of this report in March will be to all regional and county officials on our mailing list. Additional information on developmental mapping will be included in the April Bulletin.

PUBLICATIONS OF INTEREST



WINDOWS TO THE PAST; A BIBLIOGRAPHY OF MINNESOTA COUNTY ATLASES

This valuable research tool by Mai Treude is the first of its kind. Besides providing a comprehensive list of county atlases, Ms. Treude gives extensive background information that greatly enhances one's appreciation of a county atlas. Single copies of the illustrated, 187-page book are available free-of-charge from the Center for Urban and Regional Affairs, 311 Walter Library, 117 Pleasant Street S.E., University of Minnesota, Minneapolis, MN 55455 (612) 373-7833.

FACSIMILES OF MAPS AND ATLASES, A LIST OF REPRODUCTIONS FOR SALE BY VARIOUS PUBLISHERS AND DISTRIBUTORS

By Barbara Noe with an introduction by John Wolter; published by the Library of Congress. Areas shown on the maps and the names of the original cartographers and publishers are arranged in an index which is keyed to a list of facsimile publishers. Very complete descriptions of each map are given. The 36-page booklet is available from the Superintendent of Documents, Government Printing Office, Washington, D.C. 20402 (Stock no. 030-004-00019-1) for \$2.25.

NATIONAL OCEAN SURVEY CARTOBIBLIOGRAPHY; CIVIL WAR COLLECTION

This is the first in a planned series of cartobibliographies by the National Ocean Survey. It represents the Civil War Collection within the NOS historical map library. The U. S. Coast Survey, precursor to the National Ocean Survey, contributed significantly in the Civil War by producing maps, charts, surveys, and reconnaissance for the United States government. Nearly 14,000 maps and charts were produced for the Union Army in 1864 alone, and an additional 23,000 for the Navy that same year. Copies of the above cartobibliography are available by writing the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C., 20402 and are priced at \$4.00 per copy. Orders should include the stock number 003-017-00483-0.

DEPARTMENT OF DEVELOPMENT

The Department of Development was established on September 1, 1980 when legislative action abolished the Dept. of Local Affairs and Development and the Dept. of Business Development. D.O.D. publishes a newsletter, Wisconsin Developments. The new agency is located at 123 West Washington Ave., Madison. Mail should be addressed to P.O. Box 7970, Madison, WI 53707. Pertinent phone numbers for several map-related sections are:

Environmental Impact Statements	Marc Williamson	(608) 266-6989
Farmland Preservation	James Mohrbacher	" 266-3533
Plat Review	Robert Chittenden	" 266-3200
DOD and other State and Federal programs "Hotline"		" 266-8524
DOD general telephone number		" 266-1018

WETLANDS MAPS

The preliminary Wisconsin Wetlands Inventory maps prepared by the Department of Natural Resources will be sold by the University of Wisconsin-Extension Geological and Natural History Survey. All maps for a particular county will be available for sale to the public as soon as the mapping process has been completed for that county.

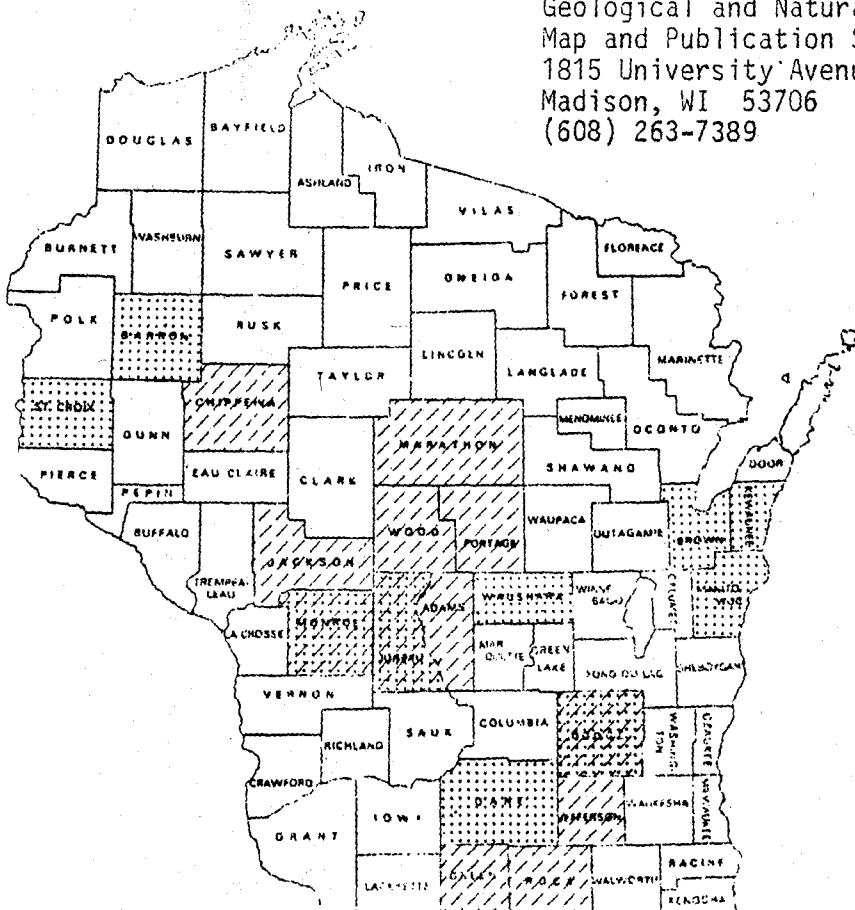
The preliminary wetland maps are in one of two forms: Department of Transportation (DOT) photo bases, which cover an area of one surveyed township or U.S. Geological Survey orthophotoquads, which cover an area slightly larger than a township. Both maps have a scale of 1 inch represents 2,000 feet (1:24,000). All wetlands of five acres or more are delineated on these maps. The wetland vegetation and water characteristics are classified into different categories useful for wetland management and evaluation.

These wetland maps are preliminary and therefore are subject to change after county review at the NR 115 proceedings.




Wetland maps which are now available for sale include those in BARRON, BROWN, DANE, KEWAUNEE, MANITOWOC, ST. CROIX and WAUSHARA Counties. The orthophoto coverage for the Counties of DODGE, JUNEAU and MONROE will also be for sale. Counties which are presently in the process of being mapped, include Adams, Chippewa, Dodge, Green, Jackson, Jefferson, Juneau, Marathon, Monroe, Portage, Rock and Wood.

Black-line diazo copies of maps for those counties which are completed can be obtained by contacting -

University of Wisconsin-Extension
Geological and Natural History Survey
Map and Publication Sales
1815 University Avenue
Madison, WI 53706
(608) 263-7389



The Survey will directly receive and handle all map orders. The cost per map will be \$2.00, which covers handling and postage. When ordering include the county, township, range and section of the desired location (e.g., T34N, R6W, sec. 5) along with a return address. After ordering, the maps can be picked up directly from the Survey's offices for a cost of \$1.50. Otherwise a four-week delivery period should be allowed to fill all map orders. All orders must be prepaid.

-  available
-  in process
-  orthophoto coverage available;
D.O.T. photo base maps in process

DANE COUNTY MAPS

The Dane County Regional Planning Commission recently issued a list of available base maps. Contact the map producer indicated; addresses are given on page 5.

DANE COUNTY MAPS

1. Municipal boundaries map showing major lakes. Available with or without names at 1" = 1 mile or at much reduced 8½ x 11. At the RPC.
2. Detailed base map. Shows all rural roads, major urban streets, municipal boundaries and section lines, and water bodies. Has a reference grid to several ground coordinate systems. Names on municipalities and on state and county highways. At 1" = 1 mile only. At the RPC.
3. County highway map. Shows and names rural roads, including an index and locational grid. County parks and other public features also identified. At County Surveyor's office.
4. Topographic base map. A pre-1970 mosaic of United States Geological Survey (U.S.G.S.) map with 20' contour lines. Also available with watersheds delineated. 1" = 1 mile only. At the RPC.

TOWNSHIP MAPS

1. Base maps with rural roads and most streets, and updated municipal boundaries shown. 1" = 2000'. Overlays of planning information such as soil types, zoning, water resources and land use are available for most towns and can be printed with base maps. At the RPC.
2. Property maps with recent boundaries and owners' names, but not lot lines within subdivisions or incorporated areas. 1" = 1000' or 1" = 2000'. Individual sections available at 1" = 400', with or without zoning lines. At the County Surveyor's office.
3. Topographic maps 1" = 2000'. As printed color sheets from U.S.G.S. Black-and-white reproducible copies for work maps. Blow-ups to 1" = 1000' also at the RPC, but accuracy is limited by enlargement.

VILLAGE AND CITY MAPS

1. Annually updated street maps at the Wisconsin Department of Transportation Map Sales Office. Size and scale vary.
2. Maps (other than Madison) with streets and lot lines at 1" = 200', 300', or 400' at the County Surveyor's Office.
3. Madison streets at 1" = 2000' at the City Purchasing Office, Rm. 504, City County Bldg.
4. Madison area streets, without names, at 2.25" = 1 mile. At the City Purchasing Office.



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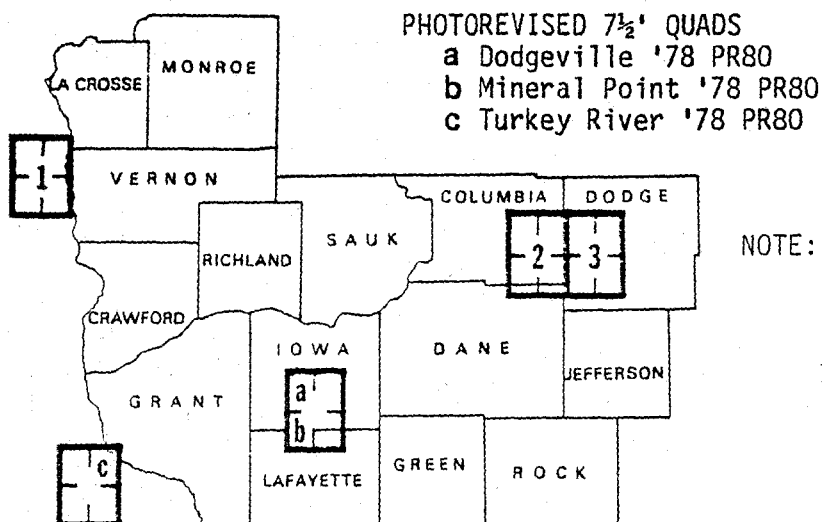
NEW PRODUCTION FROM U.S. GEOLOGICAL SURVEY

These newly published 7½' topographic quadrangle maps (1:24,000) are listed by their location on the superseded 15' topographic map of the area. They are available from the Wisconsin Geological Survey, 1815 University Ave., Madison, WI 53706 (608) 263-7389. Topographic quadrangles are \$1.50 each.

1 BROWNSVILLE 15' TOPO
NE¼ Brownsville, MN '80
NW¼ None
SW¼ None
SE¼ Reno, MN, IO '80

2 COLUMBUS 15' TOPO
NE¼ None
NW¼ None
SW¼ North Bristol '80
SE¼ None

3 BEAVER DAM 15' TOPO
NE¼ None
NW¼ Lost Lake '80
SW¼ None
SE¼ None



NOTE: Order 7½' quads by name, NOT by the index number or letter used here for locational purposes.

MAPS FOR WARMTH

A spokesperson for the Wisconsin AAA advises motorists to use various items, including MAPS, newspapers and plastic bags for body insulation should their cars become stranded in winter. Real trouble begins however, after the motorist is rescued and he or she tries to fold the maps up again!

DANE COUNTY ADDRESSES(see article on preceeding page)

Dane County RPC
210 Monona Ave.
Madison, WI 53709
(608) 266-4137

Dept. of Transportation
3617 Pierstorff Street
Madison, WI 53704
(608) 266-8921

County Surveyor
210 Monona Ave.
Madison, WI 53709
(608) 266-4251

City Purchasing Office
504 City-County Bldg.
210 Monona Ave.
Madison, WI 53709
(608) 266-4521

CENSUS MAPS

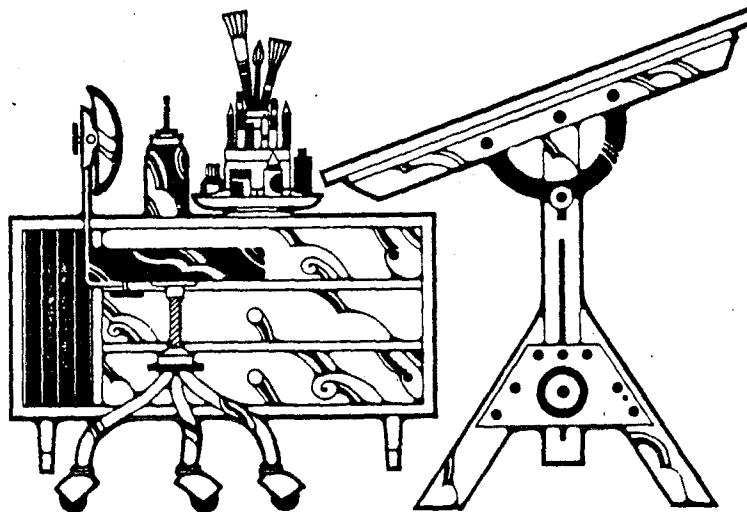
Maps are among the major tools used by the Census Bureau to carry out its mission as a primary data collection and data dissemination agency of the Federal Government. In fulfilling its mission, the Bureau is both a major consumer and producer of maps.

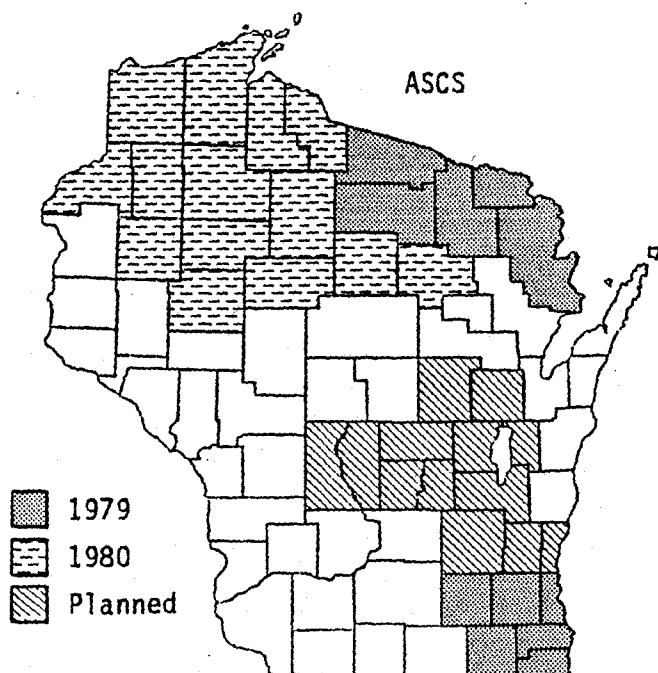
The maps used for the data collection phase, and subsequently for the data dissemination phase, consist of four basic types: county maps, place maps, place-and-vicinity maps, and Metropolitan Map Series (MMS) or Vicinity Map Series (VMS) sheets. These maps are referred to as "outline" maps because they do not show any data, only the areas to which data can be related. In 1980, all four map types have several characteristics in common:

- To improve legibility, most 1980 maps are at a larger scale than were the comparable 1970 maps.
- Symbols used for the various boundaries are consistent for all four types of maps.
- Names, identifying numbers, and boundaries are shown where appropriate on all maps for minor civil divisions (MCD's) or census county divisions (CCD's), places, American Indian reservations and Alaska Native villages, census tracts or block numbered areas where present, ED's (in those areas which are not block numbered), and blocks.
- All maps contain metric, feet, and mile scales.

In addition to the four basic categories of maps, which show the detailed geographic structure recognized in the census, there are a number of other "outline" type maps that are prepared and published in the various printed report series. More information is available from the State Cartographer's Office.

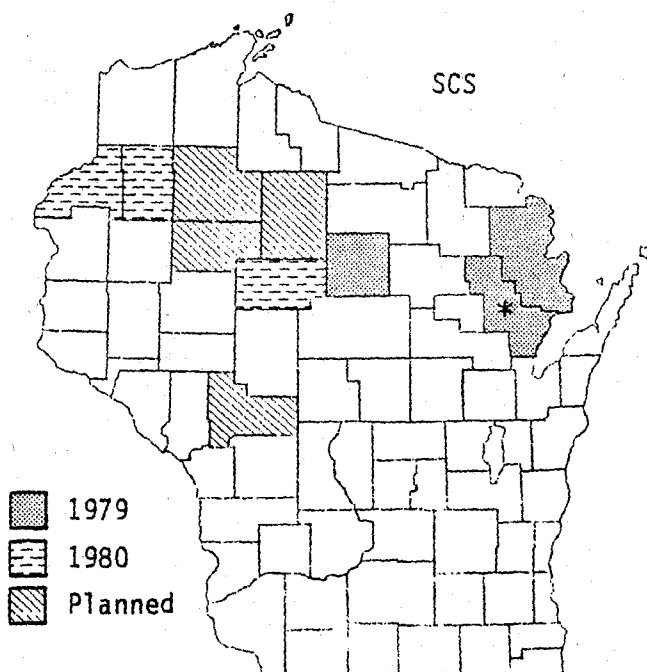
Requests for copies of the maps and cost estimates for reproduction should be directed to the Customer Services Branch, Data User Services Division, Bureau of the Census, Washington, D.C. 20233. Questions regarding map content or boundaries should be directed to the Chief, Geography Division, Bureau of the Census, Washington, D.C. 20233.





U. S. D. A. AERIAL PHOTOGRAPHY

The extent of U.S. Department of Agriculture aerial photographic acquisition in Wisconsin during 1979 and 1980 and what is planned for 1981 is shown here. The Agricultural Stabilization and Conservation Service (A.S.C.S.) acquired photography for 25 counties during 1979/80. With 13 planned for 1981, over half of the state is covered by this program. The Soil Conservation Service (S.C.S.) in 1979/80 acquired photography on 6 counties, with 4 planned for 1981. There is duplication between the coverage acquired by SCS and ASCS.



The ASCS coverage is black-and-white panchromatic taken during the summer at 1:40,000 scale (1" = 3,333').

The SCS photography is also black-and-white panchromatic taken during late spring or early summer. The scale for all counties is 1:48,000 (1" = 4,000') except for Oconto County (indicated by *) which was at 1:38,000 (1" = 3,167').

Indexes of this photography are available at your County Agricultural or Soil Conservation Agent. Photography is ordered from:

Aerial Photography Field Office
Administrative Services Division
A.S.C.S. - U.S.D.A.
P.O. Box 30010
Salt Lake City, UT 84125
(801) 524-5856

Contact the State Cartographer's Office for more information.

CARTOGRAPHIC INFORMATION SOCIETY

The newly formed, and soon to be incorporated, Cartographic Information Society has altered its name to North American Cartographic Information Society. This was done to avoid confusion with the Canadian Institute of Surveying. A board of directors has been selected: Walter Chappas, Nat'l. Ocean Survey; Norman Bliss, UW-River Falls; Deloris Biron, Racine Co. Wis.; Barbara Hartman, Texas Bur. Econ. Geology; Marily Schumucki, Genge Aerial Survey, Sacramento. The following committees have been set up: Objectives and Goals, Constitution and Bylaws, Conference Program, Publications, Membership and Publicity, and Nominations and Elections. All appointments and offices are ad hoc until the first annual meeting is held in the fall. Karl Proehl, Pennsylvania State University, is putting together a newsletter for publication in early spring. Interested persons should contact Christine Reinhard, ad hoc president, NACIS, 143 Science Hall, Madison "



NEW MAPS



SOKAOGON CHIPPEWA (MOLE LAKE) COMMUNITY OF WISCONSIN

Prepared by the U.S. Geological Survey for the Sokaogon Chippewa Community, 1978. Scale 1:24,000, contour intervals 10 and 20 feet. Copies may be purchased for \$1.00 from the Sokaogon Chippewa Community, Route 1, Box 328, Crandon, WI 54520, ATTN: John Schmitz. Phone (715) 478-2604.

CONTAMINATION POTENTIAL IN THE SILURIAN DOLOMITE AQUIFER, EASTERN WISCONSIN

By M.G. Sherrill. Published by the U.S. Geological Survey in cooperation with the Wis. Dept. of Natural Resources in 1979 as U.S.G.S. Water Resources Investigations Open-file report 78-108. Two sheets, scales vary. Available from the Dept. of Natural Resources, Publications, 101 S. Webster, Madison, WI 53702.

SEISMICITY MAP OF THE STATE OF WISCONSIN

By C.W. Stover, B.G. Reagor, and S.T. Algermissen, 1980. U.S.G.S. Misc. Field Studies Map MF-1229. Scale 1:1,000,000 (1 inch = about 16 miles). Sheet 24" x 39". Price 75¢. Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

HYDROLOGIC UNIT MAP OF THE UNITED STATES

1980. U.S.G.S. Hydrologic Unit Map. Two sheets, both 41" x 52". Scale 1:2,500,000 (1 inch = about 40 miles). \$3 per set. Available unfolded only. Branch of Distribution, U.S. Geological Survey, 1200 South Eads Street, Arlington, VA 22202.

PRELIMINARY AERIAL PHOTOGRAPHIC INTERPRETATIVE MAP SHOWING FEATURES RELATED TO THE MAY 18, 1980 ERUPTION OF MOUNT ST. HELENS, WASHINGTON. 1980.

Sheet 27" x 41". Scale not given. The map shows areas of complete devastation, seared zones, debris flows, ash flows and mudflows. Branch of Distribution, U.S. Geological Survey, Box 25286, Federal Center, Denver, CO 80225. Price 75¢.

OUR 7TH YEAR



This issue of the Wisconsin Mapping Bulletin marks the beginning of the 7th volume. Last year we successfully updated our mailing list, which now numbers over 1,200. This year we want to find out how and why you use the Bulletin. The January mailing cover is actually a questionnaire in disguise. Please take a few minutes to complete it. Your comments and suggestions are also welcome.

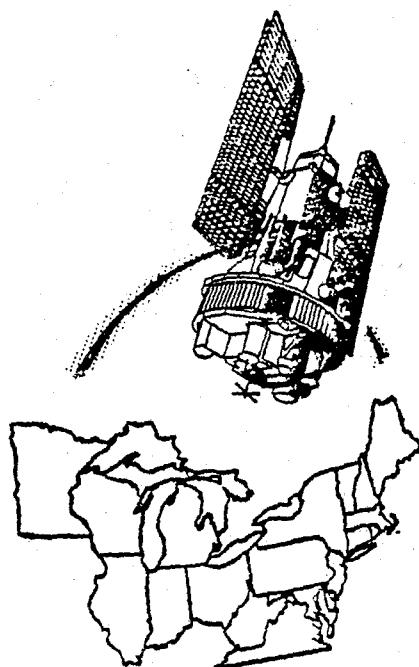
We hope to meet your needs for current cartographic information with the Bulletin. Your response to the questionnaire will help us do a better job in 1981, 1982, 1983, 1984....

AEROMAGNETIC DATA

An index map for Wisconsin is available showing the location of all U.S. Geological and some state-controlled airborne magnetic and radioactivity surveys for which results are available to the public. The index map has an accompanying list of publications or open-file releases.

Copies of the index and list are free on request from:

Regional Geophysics Branch
U.S. Geological Survey
Bldg. 25, Federal Center
MS 964 Box 25046
Denver, CO 80225



TELEPHONE CALLS TO EROS DATA CENTER

The EROS Data Center has recently installed a direct-dial telephone system so that users will not have to ask for an extension number when they call the Center. The User Services Section can now be dialed directly at (605) 594-6151. If you desire to reach another part of the Center, and you know the 3-digit extension number, simply dial (605) 594-6_____, inserting the 3-digit number in the blank space. The operator, of course, can always be reached at (605) 594-6511.

VILLAGE OF SLINGER MAPPING PROGRAM

The 5.25-square-mile area mapped in 1980 increased the total and cadastral mapping program. Under this program, 1" = 200' scale, 2' contour interval topographic maps of the Village and its environs are being prepared. They are based on the Southeastern Wis. Regional Planning Commission's monumented control survey network relating the U.S. Public Land Survey system to the state plane coordinate system.

The 5.25-square-mile area that will be mapped in 1980 will increase the total topographically mapped area in Washington County to 106.75 square miles-at about 24.5 percent of the total area of the County. In addition, all cities and villages in the County will be mapped once the Village of Slinger mapping program is completed.

This mapping program is being funded by the Village of Slinger, with supplemental funding from Washington County and from the Wisconsin Department of Natural Resources under the Wisconsin Floodland and Shoreland Mapping Grant Program.

MURPHY'S LAWS OF ORIENTEERING

TOPO MAP AVAILABILITY

When two or more contiguous maps are needed, it will be discovered that the adjacent map is (in descending order of frequency):

- A. Not yet mapped
- B. Mapped, but not yet printed
- C. Out of print
- D. On a different scale
- E. On a different contour interval

TAKING BEARINGS

All prominent features visible from a given location will be found to be on the adjoining map. Exception: sometimes they are two maps over.

CONTOUR INTERVAL

The chosen contour interval will be found to be optimum for the terrain on some other portion of the map.

The terrain mapped with an 80 foot contour interval will be found to be studded with 79 foot tall cliffs and hills..

MAP ALIGNMENT

When relying on range lines for north/south map alignment, it will be discovered that:

- A. There are no such lines on the part of the map on which you are located.
- B. The surveyor was drunk and the lines only occasionally go north/south.

WORN SPOTS ON MAP

If the map has worn spots from excessive folding or becoming wet, the worn spots will cover (in descending order of frequency):

- A. Where you are
- B. Where you are going
- C. The nearest prominent feature
- D. The declination arrow
- E. All of the above (get new map)

TRAILS

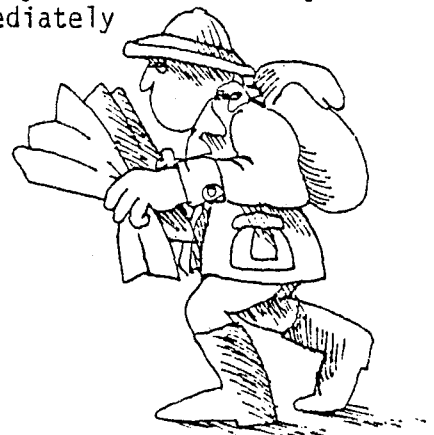
Trails always follow the borders of maps so as to frequently cross between adjacent maps. When trails approach the corners of maps, they immediately curve so as to be on all four intersecting maps.

LOCATING YOURSELF WHEN LOST

When attempting to locate yourself, you discover:

- A. You didn't bring the map
- B. You didn't bring the compass
- C. Both of the above
- D. You brought the wrong map

(source: Footnotes, v.6)



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