

## UPPER MISSISSIPPI RIVER SYSTEM COMPREHENSIVE MASTER MANAGEMENT PLAN

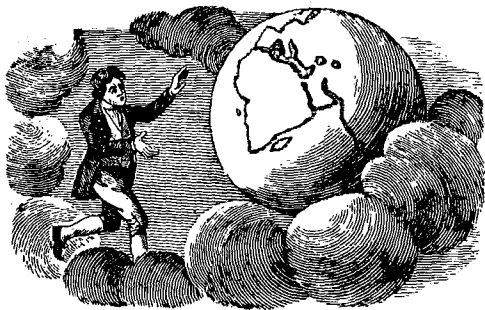
In October of 1978 the Congress passed and the President signed Public Law 95-502 which directs the Upper Mississippi River Basin Commission to "prepare a comprehensive master plan for the management of the Upper Mississippi River System in cooperation with the appropriate Federal, State, and local officials. The Commission shall publish a preliminary plan not later than January 1, 1981. The Commission shall hold public hearings on the preliminary plan in each State which would be affected by the plan, ... and submit to Congress a final master plan not later than January 1, 1982. .... The Commission, in developing the plan, is to identify the various economic, recreational and environmental objectives of the Upper Mississippi River System and recommend guidelines to achieve such objectives ...." The development of a computerized analytical inventory and system analysis for the Upper Mississippi River System to facilitate evaluation of the comparative environmental effects of alternative management proposals is to be studied by the Commission.

As an interested observer the State Cartographer attended the public participation meeting held at Bettendorf, Iowa on April 3, 1979. Dependent on public awareness, concern and input, the plan could have a long-range beneficial effect on the river system that drains over two-thirds of Wisconsin. The suggestion was offered that public input meetings be held in several locations in Wisconsin since none were planned.

The UMRB Commission is publishing a newsletter Mississippi Issues, which deals with this plan and in which meetings will be announced. To receive the newsletter contact: Upper Mississippi River Basin Commission, Federal Building, Room 510, Fort Snelling, Twin Cities, MN 55111.







## U. S. D. A. PHOTOGRAPHY

Previous information in this Bulletin (*v. 4, no. 4, p. 6*) reported that the Agricultural Stabilization and Conservation Service would acquire 1:40,000-scale aerial photography over 14 counties during 1978. The acquisition program was not as successful as anticipated. The status report from ASCS in March indicates that photography has been accepted on 5 counties (COLUMBIA, RICHLAND, ROCK, SAUK, and SHEBOYGAN) and that 4 additional counties were flown but are not yet accepted (CLARK, MARATHON, PORTAGE, and WOOD). The remaining 5 counties (FLORENCE, FOREST, MARINETTE, ONEIDA, and VILAS) are now rescheduled for 1979 with the additional eight previously referenced in the Bulletin. The Soil Conservation Service's acquisition program has also slipped but the exact extent of the scheduling for 1979 is not known at this time.

## WISCONSIN'S UNIFIED AERIAL ACQUISITION

As indicated in the Bulletin (*v. 4, no. 4, p. 3*) the state's aerial photography program acquired 58% of the coverage during the first half of a two-year acquisition program. The Dept. of Transportation is processing the 1" = 400' enlargement original copy necessary to produce the diazo half tone prints which sell for \$1 each plus tax and handling. As of April 1, the D.O.T. Engineering Services Lab has produced 3441 four-land-section enlargements or 24% of total state requirement. In order to expedite the availability of these prints, a commercial contract is being issued to process additional enlargements.

The Engineering Services Section is pleased to report that sales have been quite good considering the program is in its initial stages. They have processed \$16,700 in orders. The U.S. Geological Survey is planning on ordering a fairly significant amount of coverage for their photo-inspection of topo quads. The St. Croix Planning Office obtained total county coverage with the diazo prints for \$125. The City of Eau Claire ordered total coverage for their various offices' uses. Numerous other towns and municipalities have ordered coverage and are especially pleased with the cost.

---

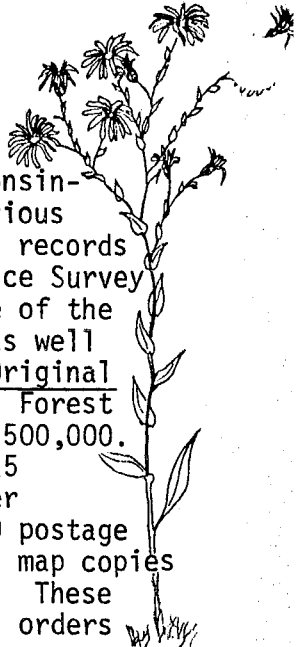
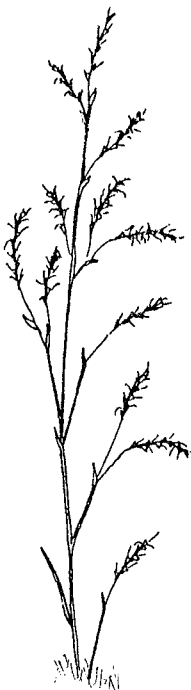
## TOPOGRAPHIC MAPPING

At the request of the U.S. Geological Survey, the Wisconsin Topographic Mapping Committee met in March and established priorities for the remaining 177 7½' topographic quads required for completion of total state coverage. As of April 1, 1979, the state has 708 quads published in lithographic form, 61% of the total 1154 quad areas required. Currently 269 (23%) are in production and the remainder have priorities assigned. It is anticipated that with some support funding from the U.S. Geological Survey's internal resources, the scheduled completion for total lithographic coverage by 1983 is feasible.



## NEW MAPS

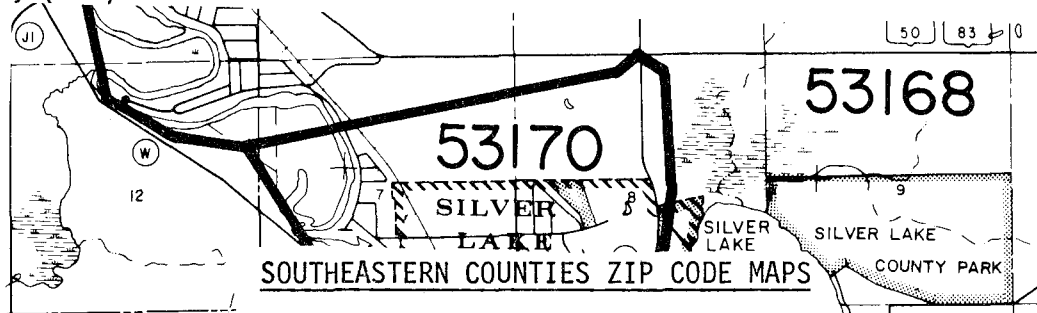
### ORIGINAL VEGETATION COVER OF WISCONSIN



This map by Emeritus Professor Robert W. Fineley, Univ. of Wisconsin-Extension, portrays the vegetation in Wisconsin immediately previous to the main impact of settlement on it. The map is based on the records left by surveyors who conducted the first U.S. General Land Office Survey of the state during 1832-1866. An extensive text on the reverse of the map describes the data sources and compilation techniques used as well as the individual plant communities mapped. The very colorful Original Vegetation Cover of Wisconsin was published by the North Central Forest Experiment Station, U.S. Forest Service in 1976 at a scale of 1:500,000. It is available from Map Sales, Wisconsin Geological Survey, 1815 University Ave., Madison, WI 53706. Single copies are free over the counter. Copies ordered by phone or by mail require a \$1.00 postage and handling charge per map. A limited number of unfolded, wall map copies are available for \$2.00 each to libraries and institutions ONLY. These orders must be on letterhead stationery or purchase orders. All orders must be prepaid.

### \* P.S.C. ENVIRONMENTAL MAPS \*

The Wisconsin Public Service Commission has developed a file of acetate map overlays as part of their power plant/transmission siting process. Utilizing best available sources, legends and drafting specifications designed by the State Cartographer, these resource/land maps were compiled statewide at two scales, 1:250,000 and 1" to 2 miles, to match the USGS regional and DOT county base maps respectively. Blue-line prints of one or any combination of overlays are available from the Public Service Commission at 50¢ per resultant map (tax and postage included). Information is available statewide at the 1:250,000 scale. County Maps at a scale of 1" = 2 miles available to date include BUFFALO, LANGLADE, LA CROSSE, ONEIDA, VILAS, SHEBOYGAN, PIERCE, WASHINGTON, OZAUKEE, MILWAUKEE and parts of ST. CROIX, DUNN AND PEPIN. For more information, contact the Systems Planning Environment Review and Consumer Analysis Division of the P.S.C., Room 402, Hill Farms State Office Bldg., Madison, WI 53702, (608) 266-5990.



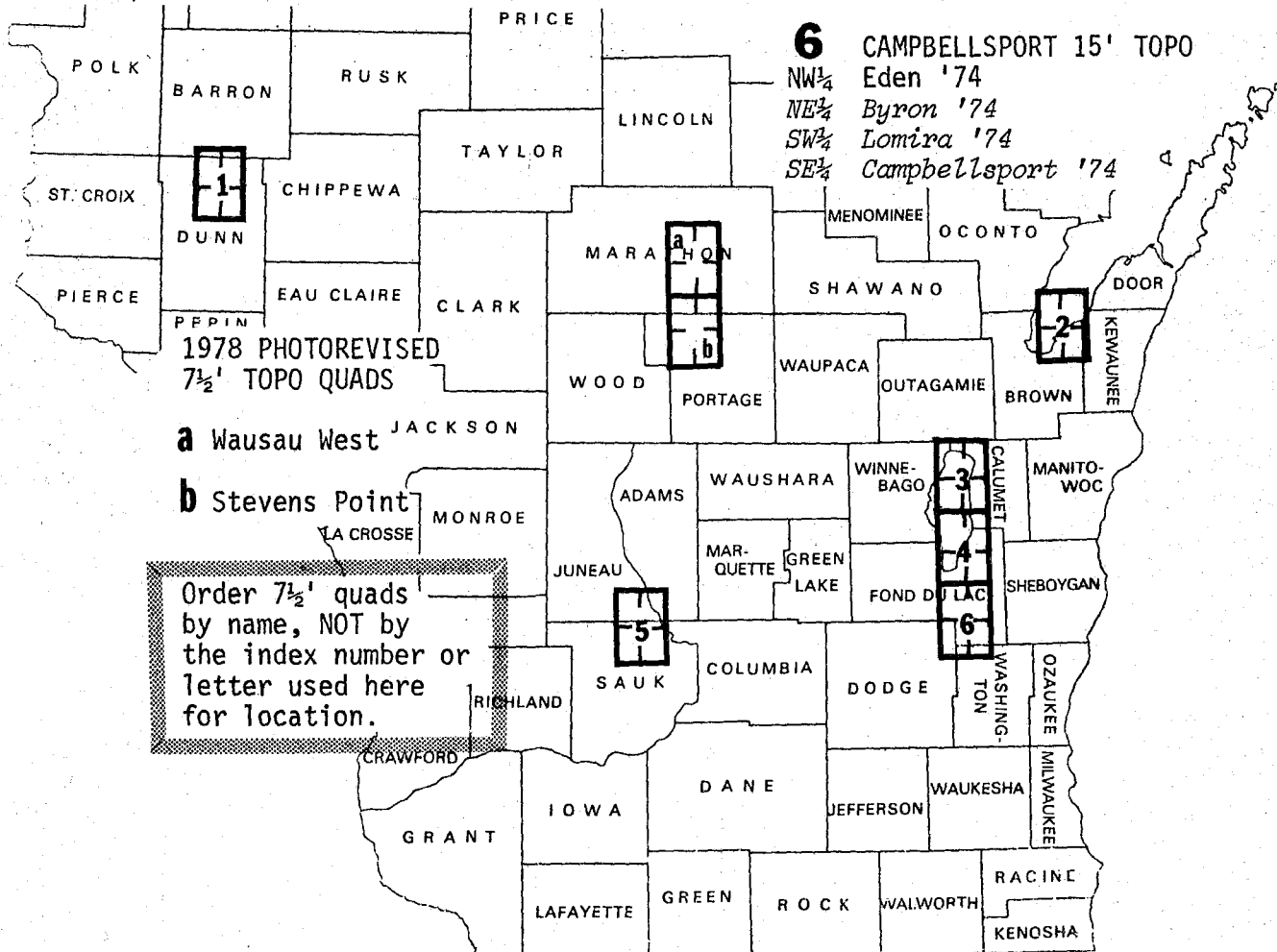
As part of its cooperative work with the U.S. Bureau of the Census on the region's Geographic Base File/Dual Independent Map Encoding (GBF/DIME) System, the Southeastern Wisconsin Regional Planning Commission has recently prepared boundary location maps of the U.S. Postal Service zip code areas in WASHINGTON, OZAUKEE, WAUKESHA, MILWAUKEE, WALWORTH, RACINE, and KENOSHA Counties. Boundaries of zip code areas as of spring 1978 were determined by the Commission using U.S. Postal Service street address directories and postal delivery information obtained directly from post offices in the region. These boundaries have been delineated on the Commission's 1" = 4,000' scale base maps. Ozalid copies of the county zip code maps can be obtained from the Commission for \$4 each. Southeastern Wisconsin Regional Planning Commission, Old Courthouse, P.O. Box 769, Waukesha, WI 53187.

# 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 or planimetric 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.

- |  |  |  |
|--|--|--|
| <p><b>1</b> RIDGELAND 15' TOPO<br/> <i>NE¼ Ridgeland NE '75</i><br/> <i>NW¼ Ridgeland '75</i><br/> <i>SW¼ Wheeler '75</i><br/> <i>SE¼ Norton '75</i></p>             | <p><b>2</b> NEW FRANKEN 15' TOPO<br/> <i>NE¼ None</i><br/> <i>NW¼ Little Tail Point '74</i><br/> <i>SW¼ Green Bay East '71PR</i><br/> <i>SE¼ None</i></p>  | <p><b>3</b> NEENAH 15' TOPO<br/> <i>NE¼ Sherwood '74</i><br/> <i>NW¼ Neenah '75PR</i><br/> <i>SW¼ Indian Point '74</i><br/> <i>SE¼ Stockbridge '74</i></p> |
| <p><b>4</b> FOND DU LAC 15' TOPO<br/> <i>NE¼ Brothertown '74</i><br/> <i>NW¼ Fahrney Point '74</i><br/> <i>SW¼ Fond du Lac '55</i><br/> <i>SE¼ St. Peter '74</i></p> | <p><b>5</b> WISCONSIN DELLS 15' TOPO<br/> <i>NE¼ Wisconsin Dells North '75</i><br/> <i>NW¼ Lyndon Station '75</i><br/> <i>SW¼ Reedsburg East '75</i><br/> <i>SE¼ Wisconsin Dells South '75</i></p> |  |

- 6** CAMPBELLSPORT 15' TOPO  
*NW¼ Eden '74*  
*NE¼ Byron '74*  
*SW¼ Lomira '74*  
*SE¼ Campbellsport '74*



## NEW LIST OF PUBLICATIONS

The Wisconsin Geological and Natural History Survey which was created in 1897 has issued a 1979 List of Publications. A copy has been included with this issue of the Bulletin. Additional free copies can be obtained from the WGS Map Sales Office listed above.

★ U. S. G. S. INTERMEDIATE-SCALE MAPPING ★  
1: 100, 000

Recently received advance production indexes from the U.S. Geological Survey indicate that significant progress has been made in assigning production coverage of the intermediate-scale (1:100,000) planimetric mapping in both quadrangle (30' by 1<sup>0</sup>) and county formats. In the county format series, 32 counties of Wisconsin are either in the planning stage for FY-80, in production during FY-79 or were completed in FY-78. In the 1:100,000 quad series, 19 of the required 49 quads are in the same categories as the counties.

Since both series have identical specifications and county formats can be produced from quad sheets and vice versa, the total coverage for Wisconsin approaches 60% plus. In fact, 17 complete counties can be framed out of the quad sheets and an additional 9 quad sheets have over 90% of their area covered by county maps.

This office plans to publish indexes and specific schedule dates for both 1:100,000 series in the July Bulletin. If there is interest prior to that time, please contact this office.



UPPER GREAT LAKES REGION ATLAS

The new 46-page atlas graphically depicts the resurgence of growth and activity in this once depressed region of the United States. The illustrations and text tell a story of significant development and progress in many areas during the 1970's. In addition to the maps which indicate the degree and location (by county) of the change taking place within the region, the indicators are presented in a context that allows comparison of the region to both the three-state area and the United States as a whole. Indicators discussed in the atlas include population projections, median age, Native American population, community sizes, railroads and ports facilities, electric power, energy flow, plywood and mineral production. This atlas will provide useful information on existing conditions and trends for those concerned with development in the Upper Great Lakes region.

For a free copy of the Upper Great Lakes Region Atlas, write or call the Upper Great Lakes Commission, 2093 U.S. Dept. of Commerce, Washington, D.C. 20230, (202) 377-2845.

FOREST ATLAS

The Forest Atlas of the Midwest is a new publication compiled by Robert Merz of the College of Forestry, University of Minnesota and funded by the North Central Forest Experiment Station and the Northeastern Forest Experiment Station. The atlas describes, with brightly colored maps and text, the forest environment and the characteristics of the forests in nine midwestern states -- Illinois, Indiana, Iowa, Kentucky, Michigan, Minnesota, Missouri, Ohio, and WISCONSIN. Included are sections on the population, physiography, soils, climate, transportation, land ownership, recreation, water and wildlife of the region, and the timber types, volume, insect pests, and diseases of the forests of the region. Most of the regional maps in the atlas are at a scale of approximately 1:6,000,000. The atlas is free and available from: North Central Forest Experiment Station, 1992 Folwell Ave., St. Paul, MN 55108, (612) 645-0841, ext. 213.



## UPDATES

### COMPLETION OF ORTHOPHOTQUAD PROGRAM (*reference v. 4, no. 4, p. 5*)

The orthophotoquad program as initially funded by the U.S. Geological Survey has been completed with the receipt in January of the orthophotoquads in West Central Wisconsin. In the four years of production, 216 7½' format orthophotoquads have been produced. This is 19% of the total required for state coverage. The Wisconsin Geological Survey is preparing a final index similar to the one distributed with the July 1978 issue of the Wisconsin Mapping Bulletin. Currently, there are no plans to produce additional orthophotoquads. The U.S. Geological Survey has stated that any future production will require cooperative funding.

### HORIZONTAL GEODETIC CONTROL PROGRAM (*reference v. 4, no. 3, p. 5*)

The Wisconsin Dept. of Transportation has been informed by the National Geodetic Survey that due to reduced budgeting allocation and the lack of available manpower, the program to increase first-order control in central Wisconsin will be delayed one year and is now scheduled to start in the summer of 1980.

### 1:250,000 REVISIONS (*reference v. 4, no. 3, p. 3*)

Information received from the U.S. Geological Survey, Reston, VA indicates the availability of advance copy (ozalid prints of reproduction negatives) for three Wisconsin 1:250,000 topo sheets, specifically, Rice Lake (NL-15-9), Eau Claire (NL-15-12) and La Crosse (NK-15-3). It is anticipated that printed lithographic copy will be available in 6 months. If an urgent need exists for this copy, contact the National Cartographic Information Center, NCIC-USGS, 507 National Center, Reston, VA 22092, (708) 860-6045.

### DNR WETLANDS MAPPING (*reference v. 4, no. 3, p. 3*)

Preparation for the Wisconsin Wetlands Inventory is under way, and production of wetlands maps is expected to begin late this spring. The DNR mappers will locate and identify the wetlands by interpreting recent black-and-white aerial photos. Classification of wetland vegetation and water regimes will be based on the new U.S. Fish and Wildlife Service "Classification of Wetlands and Deep-Water Habitats of the United States," which replaces Circular 39. DNR has been working with other state and local agencies to adapt the F & WS Wetland Classification to Wisconsin's needs, and to develop a working definition of wetland. Wetland boundaries and classification symbols will be drafted onto reproducible 1:24,000 enlargements of high-altitude air photos. Field checking of the wetland maps will ensure that they are accurate. To find out more about the Wisconsin Wetlands Inventory, contact Carol A. Johnston, Project Leader, Department of Natural Resources, Box 7921, Madison, WI 53707.

### LAND RECORDS STUDY (*reference v. 4, no. 1, p. 2*)

As a follow-up to the Dept. of Administration's Cost of Land Records to the Citizen Study, the Department of Landscape Architecture of the College of Agricultural and Life Sciences, U.W.-Madison has proposed an interdisciplinary demonstration project which would focus on a local, large-scale, integrated land records system. The research is designed to develop and test a system that can incorporate data from many agencies and provide quality control through standardization of base mapping and survey ground control. The entire system is geared toward easy access by the general public and county/city officials who would benefit from coordinated record files. The committee, in which this office participates, has reduced the large field of land records to a few select areas that can be studied within the proposal's time limits. A study site will soon be chosen where there is sufficient data and support to develop a representative land records system. This prototype system's costs and benefits can then be evaluated by other counties and by the Legislature. For more information on this pilot land records project, contact this office or Prof. Ben Niemann, Landscape Architecture, 25 Ag Hall, Madison, WI 53706. (608) 262-2677.

## COMING EVENTS

ASP-ASCM -- "Observing and Measuring the Planet Earth" is the theme of the 1979 Fall Convention and Exhibit of the American Society of Photogrammetry and the American Congress on Surveying and Mapping. It is being held in Sioux Falls, SD on Sept. 17-21 with the cooperation of the EROS Data Center, U.S.G.S. and the Remote Sensing Institute of South Dakota State University. For more information, write to: ASP-ACSM Fall Convention, P.O. Box 1837, Sioux Falls, SD 57101

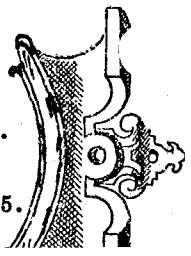
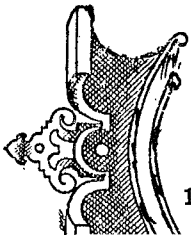
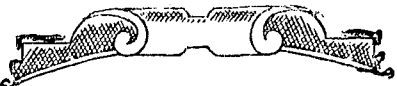
AUTO-CARTO IV -- "Cartography and Computing Applications in Health and Environment." Sponsored by A.C.S.M. and A.S.P. in cooperation with the National Center for Health Statistics, the U.S. Defense Mapping Agency, and the National Cancer Institute, November 4-8 at the Sheraton Inn & International Conference Center, Reston, VA. For more information contact: James A. Smith, Conference Management Branch, NCHS, Room 2-12, Center Building, 3700 East West Highway, Hyattsville, MD 20782, (301) 436-7122.

THE NEWBERRY LIBRARY -- "16th-Century Italian Maps from the Newberry's Collection" will be the featured exhibit during May. The Newberry Library is open from 9:00 a.m. to 9:40 p.m. Tuesday-Thursday and 9:00 a.m. to 5:40 p.m. on Friday and Saturday. The Newberry Library, 60 W. Walton St., Chicago, IL 60610 (312) 943-9090.

WISCONSIN MAP SOCIETY -- A tentative date and place has been set for the third annual meeting. At this time the meeting is planned to be hosted by Prof. Jerry Culver (Univ. Wisconsin - La Crosse, Geography) on June 23 at La Crosse. For more information contact Virginia Schwartz, Secretary, Wisconsin Map Society, Milwaukee Public Library, 814 W. Wisconsin Ave., Milwaukee, WI 53233 (414) 278-3000.

## HIGHWAY SAFETY MAPPING DESIGN PROJECT

The State Cartographer's Office is an advisor to the mapping design project being conducted by the Wisconsin Dept. of Transportation and funded by a highway safety grant from the Governor's Office. During 1979 the project will test the feasibility of highway accident reference point signs with a mapping system which illustrates the reference numbering system. If this project is successful, considerable cost savings are anticipated. Specific county test areas and general map graphic design criteria will be presented in the July Bulletin.



THE WISCONSIN MAPPING BULLETIN IS DISTRIBUTED FREE OF CHARGE ON REQUEST. ARTICLES MAY BE REPRODUCED WITH ACKNOWLEDGEMENT GIVEN. ANY COMMENTS SHOULD BE SENT TO THE STATE CARTOGRAPHER'S OFFICE, 144 SCIENCE HALL, UNIVERSITY OF WISCONSIN, MADISON, WI 53706 (608) 262-3065.  
ART ZIEGLER, STATE CARTOGRAPHER      C. REINHARD, EDITOR