

TOPO QUAD STATUS

All the remaining $7\frac{1}{2}$ ' topographic quadrangles for Wisconsin are now assigned for production by the U.S. Geological Survey. The last 70 areas have reached the status of "AUTHORIZED" in the latest U.S.G.S. quarterly report (July). No additional quads remain to be placed into production.

During the first six months of 1982, U.S.G.S. printed a rather large volume of $7\frac{1}{2}$ ' topographic guads. Our current status for Wisconsin is as follows:

a.	total number required		1155	100%
b.	total printed quads to date	e (7/6/82)	862	74.6%
с.	all categories of "in-work"	' quads	293	25.4%

The 293 in-work quads fall into the following production areas and lead to some interesting statistics:

a.	authorized for production	70	 24%
b.	in, or completed, stereophotogrammetric phase	89	 30%
с.	in, or completed, cartography (scribing)	117	 40%
d.	in final review prior to printing	17	 6%

With 134 quads in the cartography or final review phases we can look for a heavy release of printed quads during the next 18 months. By the end of 1983 we can anticipate a total of 996 $7\frac{1}{2}$ ' quads printed, or 86.2% of the topo mapping program completed.

In addition the July 6th report listed 34 $7\frac{1}{2}$ " quads in the revision phase (including 12 in the Madison area, 3 in the Green Bay area and 2 in the Superior area).

ACKNOWLEDGEMENT

Unfortunately two illustrations by Jim McEvoy (Dept. of Nat. Resources) were used without credit in the April Bulletin (pages 2 and 8). Our apologies to Mr. McEvoy.

NGS MARK UPKEEP

During the past century and a half, the U.S. Department of Commerce's National Ocean Survey (formerly the Coast and Geodetic Survey) has accurately located the latitude and longitude and/or elevation of over a half million points in the United States and its possessions.

The bronze disks, measuring about three and one-half inches in diameter, mark survey points for latitude and longitude, elevation, gravity, and azimuth or direction. They are used by engineers, surveyors, and mapping agencies as the basis or framework for maps, charts, local control and boundary surveys, and for various public and private engineering projects.

The cost of surveying and placing a single mark ranges from around \$300 to several thousand, depending on the type of survey, accuracy, and proximity to other survey monuments.

An alarming number of survey markers have been destroyed or disturbed by construction crews. Many are stolen. If you see a survey mark which appears in danger of destruction or damage by erosion, construction, or other causes, please take appropriate steps to preserve it. If it's endangered by construction, call it to the attention of the crewchief or flag the mark by stakes. Contact the State Cartographer's Office for a "Report on Condition of Survey Mark" form. You can send this prepaid post card to NGS explaining the problem.

The National Geodetic Survey has a team of Mark Maintenance Engineers who will normally perform the necessary maintenance. Wisconsin is in District 7. Contact Ronald Ramsey, NGS Mark Maintenance



Engineer, Lansing P.O. & Federal Bldg., 315 W. Allegan, Room 215A, Lansing, MI 48933, (517) 377-1510.

DANE COUNTY LAND RECORDS

The Dane County Board has called for a plan to consolidate the surveyor's office, the tax and assessment record clerk in the treasurer's office, the zoning department, and the plat review function of the Dane County Regional Planning Commission. All these would be combined into one agency, tentatively called the Department of Development, presided over by an appointed surveyor. If approved, the change would come on line with \$525,000 of new computer hardware the county plans to buy.

County Executive Jonathan Barry envisions "one-stop service" for people seeking information about property, including ownership, zoning, judgements, and back taxes. As in most counties, anyone who wants to learn about a piece of land must shuttle back and forth between several departments, some of which are saddled with written records reminiscent of the 19th century. Barry says "The key to bringing the county into the '80s with computers starts with land." (The Capital Times)

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NEW PRODUCTION FROM U.S. GEOLOGICAL SURVEY

These newly published $7\frac{1}{2}$ ' topographic quadrangle maps (1:24,000) are listed by their location on the superceded 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 \$2.00 each, plus postage and handling.



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METROPOLITAN GREEN BAY/BROWN COUNTY STREET MAP

The 1982 Metropolitan Green Bay Street Map includes all parks, schools, hospitals and municipal buildings as well as color-coded municipal boundaries. Also shown are the Villages of Howard and Ashwaubenon, the Towns of Allouez and Bellevue and the City of DePere. Its scale is 1" = 2800'. On the reverse is a street map of Brown County at a scale of 1" = 7000' with insets of the Villages of Pulaski, Wrightstown, and Denmark and the Community of Oneida. All street names are indexed.

The Green Bay-Brown County Planning Commission prepared both full-color maps. The combined map sells for \$1.00, or 75¢ each in lots of 50 or more. They're available from the Brown County Planning Commission, 100 N. Jefferson Street, Green Bay, WI 54301, (414) 497-3633.

MILWAUKEE AND WAUKESHA COUNTIES

Milwaukee Map Service announces the 1982-83 edition of their Milwaukee/Waukesha County wall map and a new 1980 Census Tract map for those same counties. The full-color updated wall map, at a scale of 1" = .55 miles, is available in several formats. The unmounted paper copy is \$55.

Their newest map shows all the streets of Milwaukee and Waukesha Counties in black and white with 1980 census tract boundaries and numbers outlined in red. The scale is also 1" = .55 miles. An unmounted paper map is \$75. Milwaukee Map Service is located at 4519 W. North Ave., Milwaukee, WI 53208.

MINERAL-RESOURCE ASSESSMENT OF THE IRON RIVER 1^o BY 2^o QUADRANGLE, MI AND WI Prepared by W.F. Cannon; 34 pages, 1 over-size sheet, scale 1:500,000 (1 inch = about 8 miles). This open-file report is available from the Open-File Services Section, Western Distribution Branch, U.S. Geological Survey, Box 25425, Federal Center, Denver, CO 80225. Microfiche \$4; paper copy \$5.50. Order #0F 82-0223.

IRRIGABLE LANDS INVENTORY

Ron Hennings and Irene Lippelt compiled maps of water-table elevations and aquifer potentials and prepared brief narratives for 10 counties in the Golden Sands Resource Conservation and Development Area of central Wisconsin. The maps are available either individually for $50 \notin$ - \$1.25 or as a complete set (report and 21 maps) for \$10 at the Wisconsin Geological Survey, 1815 University Ave., Madison, WI 53706. The Map Sales phone number is 608/263-7389.

RECHARGE/DISCHARGE

A Wisconsin recharge/discharge map for large regional groundwater flow systems is now available from the Wisconsin Geological Survey (address above). The map has been prepared as a part of a special study to provide the Wisconsin Dept. of Natural Resources with basic information for its underground injection control report for EPA. Bruce Cutright was the research assistant on the study, which was supported by a grant from the Wisconsin DNR.

continued

NEW MAPS, cont.

NEW GEOLOGIC MAP OF WISCONSIN

The Wisconsin Geological and Natural History Survey will publish a new Wisconsin geologic map within the year. Mike Mudrey, along with Bruce Brown and Jeff Greenberg, compiled the map, with a 1 inch = 16 miles scale. It will feature the Precambrian area of Wisconsin in greater detail than ever previously shown.

BLM LAND AND MINERAL STATUS MAPS

Five new maps showing the location of public lands and Federal mineral ownership in northwestern Wisconsin are now available for \$2.00 each from the Bureau of Land Management (BLM). The new BLM maps cover the areas around BLOOMER, SPOONER, PARK FALLS, and MEDFORD, Wisconsin, and IRONWOOD, Michigan. They are part of a series of maps produced as a result of a BLM program to map areas of mineral exploration interest coinciding with significant acreage of Federally-owned mineral rights. The maps are also valuable aids to recreationists for locating public lands. The maps show private, county, state and Federally-owned land, by agency in most cases. The extent of Federally-owned mineral rights is overprinted on the surface ownership colors. They are published at the scale of 1:100,000 (one centimeter represents one kilometer) and cover an area approximately 34 x 49 miles. The maps show contours and elevations in meters; highways, roads, and other cultural features; water bodies; and geographic names. To order the maps or to obtain a free BLM map index, contact the Bureau of Land Management, Duluth Field Office, 125 Federal Building, Duluth, MN 55802.

NICOLET NATIONAL FOREST

Bob Rosenthal of the U.S. Forest Service-Milwaukee reports that they recently flew aerial photography for a cadastral project in the Nicolet National Forest. Reproductions made from the color negative film will show white circles indicating the ground control targets used in the project. Prints can be ordered from the U.S.D.A. Aerial Photography Field Office, 2222 West 2300 South Street, P.O. Box 30010, Salt Lake City, UT 84130. For current prices call (801) 524-5856.

	area of coverage
Code #	719063
Roll #	182
Date	4/27/82
Scale	1:12,000
Film	color

Nicolet National Forest



NEWBERRY MAP SLIDES

The Hermon Dunlap Smith Center for the History of Cartography at the Newberry Library has produced the first of a series of map slide sets. Each set, priced at \$7.50 (including postage) contains six colored slides of maps from atlases compiled by the following: Ptolemy (1482), Braun and Hogenberg (1574), Saxton (1577), Ortelius (1606) and Mercator (1611). These sets may be ordered from the Bookshop, The Newberry Library, 60 West Walton Street, Chicago, IL 60610.



MAP DATA ACQUISITION PROGRAM

(v. 7, no. 4, p. 1 & v. 8, no. 1, p. 8)

The State Cartographer's Office continued the map data acquisition program through June of this year with Mike D'Onofrio as the field representative collecting the information. Inventories were completed for the counties of KEWAUNEE, DOOR, MANITOWOC and CALUMET. In BROWN County Mike completed the Bay-Lake Regional Planning Commission and the Brown County/Green Bay Planning Office. Mike left the State Cartographer's Office in June for another job and an August wedding. He was replaced by Ms. Joan Koppa as the field representative. Joan previously worked for the Department of Natural Resources in the Bureau of Water Regulation and the Coastal Zone Management Office. Joan is becoming acquainted with our collection activities and during July will start with field trips to DODGE County. After completing Dodge County she will resume the Brown County inventory.

Current funding for this project runs through the end of September. However, the Office has applied for an additional year's cooperative funding with the U.S. Geological Survey. If this contract is approved the Office will continue to have a full-time field representative and plans to collect county cartographic information in the east central portion of the state.

U.S.D.A. AERIAL PHOTOGRAPHY

(v. 8, no. 1, p. 6)

The U.S. Department of Agriculture, Agricultural and Stabilization and Conservation Service (ASCS) and the Soil Conservation Service (SCS) aerial photography programs have not changed. The U.S.D.A. is using the National High-Altitude Aerial Photographic Program (NHAP) for current acquisitions. The current status report received from the U.S.D.A. Lab in Salt Lake City, Utah indicates that they are using the NHAP photography for the following Wisconsin counties: BUFFALO, EAU CLAIRE, JACKSON, PEPIN, ST. CROIX and TREMPEALEAU.

CARTOGRAPHIC "STATE OF THE STATE"

SESSIONS

(v. 8, no. 2, p. 1)

The State Cartographer's Office held cartographic briefing sessions on May 18 and May 21, 1982. The overall attendance was not as large as originally indicated by reader response. Approximately 60 persons attended the "outside-the-Madison-area" session on May 21, 1982. However what was lacking in volume was made up for by the interest and involvement of those who did attend.

The State Cartographer's Office is considering presenting this type of cartographic briefing in the future. One option under consideration is to present oneday sessions in the northeastern and northwestern portions of the state, locations as yet undetermined. The Office would appreciate hearing from Bulletin readers on your interest in this type of presentation.

KENOSHA COUNTY TOPO MAPPING & CONTROL SURVEY PROGRAM

Kenosha County is continuing its largescale topographic mapping and control survey program begun in 1980. This program is designed to prepare 1" = 200' scale, 2' contour interval, topographic maps. They're based on the Southeastern Wits. Regional Planning Commission's recommended monumented control survey network, which relates the U.S. Public Liand: Survey system to the State Plane Coordinate System. In 1982, Kenosha will have 24 more sq. miles of large-scale topp: maps, bringing total coverage to 175.75 sg. miles. An additional 107 section corners will be recovered, monumented and given State Plane Coordinates, for a total of 915 corners.

The program is funded by Kenosha County, with supplemental funding from the Wisconssin Department of Natural Resources under the State Floodplain and Shoreland Map-

ing Program. Completion of the mapping will! take several more years. The largescale topographic maps will be extremely helpful in many aspects of county and local planning and zoning and in county and local public works engineering, as well! as in the private land development process. They represent an important and! farsighted capital investment on the pant of Kenosha County. (SEWRPC Newsletter)





FARMLAND PRESERVATION

MAPPING

The State Cartographer's Office is assisting the Departments of Agriculture, Trade and Consumer Protection (DATCP) and the Dept. of Development (DOD) in the farmland preservation mapping of counties who don't have grant or mapping agreements with the DATCP. One aspect of the current mapping program is to enter the farmland preservation categories into an automated cartographic system by digitizing the various classifications of land cover as defined by the county. An initial digitization test was done in Brown County. At the "state of the state" cartographic briefing sessions, a series of 35mm color slides were shown which indicated the potential of this system in automatically portraying and comparing such items as: land parcels, wetlands, agriculture lands, developed areas, transitional areas, and natural resource features. The color slides were prepared from a variety of images shown over a base map on a color video tube. As this program develops, additional information will be presented in the Bulletin. If county or regional offices are interested they should contact Art Ziegler, State Cartographer's Office, (608) 262-6852.



COMING EVENTS

PRACTICAL APPLICATIONS OF COMPUTERS IN GOVERNMENT Urban and Regional Information System Association's 20th Annual Conference; August 22-25, 1982; Minneapolis, MN; featuring programs on modernizing land records systems, and geoprocessing and interactive graphics. For more information contact URISA, 2033 M Street NW, Suite 300, Washington, D.C. 20036 (202/466-7406).

PROFESSIONALS SERVING THE PUBLIC

This is the theme of the American Congress on Surveying and Mapping/American Society of Photo-

grammetry, 1982 Fall Convention, Fort Lauderdale-Hollywood, Florida, September 19-23. Along with technical sessions and exhibits there will be a national symposium on "The Professional in Private Practice". For more information contact 1982 ACSM-ASP Fall Convention, 3152 Coral Way, Miami, Florida 33145, (305) 446-3511.

THE UTILIZATION OF AUTOMATED AND CONVENTIONAL METHODS IN SURVEYING, MAPPING, AND MAP DATA APPLICATIONS

The conference will be held in Rolla, MO on October 13-15. It is sponsored jointly by the Rolla Region chapters of the American Congress on Surveying and Mapping and the American Society of Photogrammetry. The program will include concurrent seminars and demonstration workshops, as well as a poster session and commercial exhibits. Tours of the U.S. Geological Survey Mid-Continent Mapping Center and the Missouri Dept. of Natural Resources will round out the program. For more information contact Gary W. McKeown, Coordinator ASCM-ASP Symposium, 1400 Independence Road, Mail Stop 601, Rolla, MO 65401, (314) 341-0928.

NORTH AMERICAN CARTOGRAPHIC INFORMATION SOCIETY

The second annual NACIS meeting will take place in Washington, D.C. on October 21-24. It's being held in conjunction with the newly organized INTERNATIONAL MAP DEALERS ASSOCIATION. Commercial and government agencies will be represented in technical sessions, tours and exhibits. The featured speakers are Rupert Southard, Chief of the U.S. Geological Survey's National Mapping Program and William Radlinski, former Executive Director and now COMPASS Executive Manager of the Am. Congress on Surveying and Mapping. NACIS promotes interdisciplinary communication and cooperation within the cartographic community. For more information contact Christine Reinhard, 143 Science Hall, Madison, WI 53706 or Don Daidone, Newman Library, Virginia Tech., Blacksburg, VA 24061 (703) 961-6308.

SOCIETY FOR THE HISTORY OF DISCOVERIES

The Annual Meeting of the Society for the History of Discoveries will be held at the University of Wisconsin-Madison on November 5-6, 1982, with a session planned at the American Geographical Society Collection in Milwaukee. There will be two sessions of local and cartographic interest: history of discovery and exploration in Wisconsin, and the history of cartography. For more information contact Program Chairman, Prof. Bruce B. Solnick, c/o Department of History, SUNY-Albany, Albany, NY 12222.



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State Statute 36.25 (6) requires the Wisconsin Geological and Natural History Survey (WG&NHS), under the supervision of the State Geologist, to "continue the topographic mapping of the state begun by the U.S. Geological Survey, but no money may be expended for topography unless an equivalent amount is expended for this purpose in the state by the U.S. government" (Laws of Wisconsin 1897, Chapter 297, Section 2). The State Topographic Mapping Committee builds on this mandate.

In 1963 Governor Nelson formed a special subcommittee on state mapping within the Natural Resources Council of State Agencies (NRCSA). Representatives from the Departments of Transportation, Resource Development, and Administration and the State Geologist participated. In that same year the Senate Committee on Conservation, by request of the NRCSA, introduced a bill "to create a seven man advisor committee on topographic maps for the purpose of expediting the completion of the topographic map of the state; commission to be composed of state geologist plus one representative from the departments of highways, resource development, conservation and agriculture, public service commission and state board of health.

"To appropriate annually beginning July 1, 1963, for not to exceed five years \$645,000 as a nonlapsible appropriation to the university from the general fund for topographic mapping." The bill did not pass. In a restructuring of the NRCSA the State Mapping Committee became the Topographic Mapping Subcommittee of the Land Committee.

The Department of Conservation and the Department of Transportation began funding the WG&NHS/USGS cooperative program at about this time to accelerate the mapping of the state. Currently the cooperative mapping program is funded by \$20,000 from the Geological and Natural History Survey, \$155,000 from

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the Department of Transportation, and \$31,000 from the Department of Natural Resources (a 1967 consolidation of the former Conservation and Resource Development departments and portions of the Public Service Commission and the State Board of Health). This \$206,000 has consistently been one of the largest cooperative programs in the U.S.

During the dismantlement of the NRCSA (beginning approximately 1974), the State Geologist, M.E. "Buzz" Ostrom, supported the continuation of the Topographic Mapping Subcommittee as the State Topographic Mapping Committee. He has continuously chaired the Committee which consists of representatives from the state departments of Administration, Transportation, and Natural Resources. Upon his appointment in 1974 the State Cartographer joined the Committee. A representative from the U.W. Department of Civil & Environmental Engineering had been added shortly before that. Although the representatives themselves have changed, the participating departments remain the same.



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Cart Lab News will become a regular feature in the <u>Bulletin</u>. Jim Hilliard, Acting Associate Director of the UW-Cartographic Lab, provides the information. For details, contact him at 385 Science Hall, Madison, WI 53706, (608) 262-1363.

Tourist Maps

The UWCL recently prepared two county tourist maps. The 17" x 22" maps are done in 4 colors with international pictorial symbols. They are:

- CHIPPEWA COUNTY: scale 1:145,000; contact the County Extension Agent, 711 N. Bridge St., Chippewa Falls, WI 54729, and
- BURNETT COUNTY; scale 1:105,600 (ca. 1:100,000); contact the County Extension Agent, Burnett County Office Bldg., Webster, WI 54893.

Prototype Handicap Map

The research and development aspect of this map was a combined interdisciplinary effort between the Cartography Lab and the Behavioral Disabilities Department of the UW-Madison. This map of a portion of the UW-Madison campus is a highly innovative and unique handicap aid. It portrays all the necessary information to facilitate cross-campus mobility by displaying various elements of grade (as a percent of slope), physical impediments (lack of curb cuts, access to buildings), as well as elevational relief, parking availability and emergency telephones. The UWCL and the Behavioral Disabilities Department are developing data collection methods for use with handicap mapping techniques associated with this project.

Computer-assisted Mapping of Celestial Bodies

The UWCL has developed a computer-assisted system for the mapping of celestial bodies. To do so, the UWCL modified and expanded the CAM (Computer-Aided Mapping) software package developed by the Cartography Division of the CIA and obtained digital data for over 259,000 celestial bodies from the Smithsonian Astrophysical Observatory (SAO).

The CAM software package provides the capability of creating 22 different map projections which can be prepared in various aspects. By using these when generating maps of the heavens, it is possible to preserve certain spatial properties in order to represent specific celestial relationships.

Wisconsin Zip Code/County/MCD Data Base

The UWCL is currently generating a versatile cartographic data base in digital form for the Wisconsin Bureau of Health Statistics. This data base will include zip code, minor civil divisions (MCD's) county and health service area boundaries. The coordinates were obtained by digitizing Department of Transportation county maps with superimposed zip code boundaries. The data base will be used to extract coordinate files at the county level, health service areas level, or state level. The initial goal, to retrieve zip code boundaries on a statewide basis, will be possible by August 1982.

The maximum retrievable scale will be approximately 1:125,000. These coordinate files can be used to generate a variety of computer-drawn thematic maps at virtually any scale smaller than 1:125,000. (see related article on page 11)



MORE ZIP CODE INFO

The preparation of five-digit zip code area data was part of the Census Bureau's original 1980 summary tape file (STF) program, but budget uncertainties forced cancellation of these plans. Now, as the result of private sponsorship of a special tabulation, the Bureau plans to prepare zip code area data during the second and third quarters of this year. The National Planning Data Corporation (NPDC) is providing the estimated \$250,000 needed to produce the data.

The tabulations will present essentially the whole range of census subjects. NPDC is also sponsoring preparation of a zip code equivalency file which relates zip codes to 1980 census enumeration districts or block groups.

During the first 18 months after the data are prepared, the Bureau will furnish other users with the data only if they assume a proportionate share of its cost. As an alternative, users may arrange to purchase zip code data during this period from the National Planning Data Corp., P.O. Box 610, Ithaca, N.Y. 14850, telephone 607/273-8208. Eighteen months after the zip code data for any particular State are released, the Bureau will begin selling the tape files at the standard price (currently \$140 per meel). For more information write to the Chief, Decennial Census Division, Bureau of the Census, Washington, D.C. 20233.

(see related article on page 10)



TREMPEALEAU COUNTY SOIL LOSS MAPPING

The following information comes from Jerry Larsen who is working with Norman Bliss and a small group of programmers on this 4-month project:

"Through Senate Bill 72, all counties in Wisconsin have been asked to target the areas within their counties that have the worst erosion problems. The Senate hopes that this work will help get state erosion control monies into those areas that have the worst erosion problems. The Senate offered a 50-50 matching grant to a county that would be willing to conduct a pilot project. Trempealeau County, mainly through the efforts of David Appleyeard, agreed to the project.

"Trempealeau County decided that the best way to approach the project was to computerize their Soil Survey and then apply the Soil Loss Equation to that information. The end result would be a map that showed the areas where erosion problems are the worst. Using computers for the project allows for repeated use of the mapping process at very little additional cost. This allows for continually narrowing the study area until more accurate, site specific information can be used as inputs to the Soil Loss Equation, thereby targeting the farms that have the worst erosion problems.

"On August 15, most of the state area conservationists will meet to review and discuss the results of Trempealeau County's pilot project. Positive findings may very well prompt other counties to use the computerized mapping project."

Mr. Larsen and Mr. Bliss would like information on any similar computer mapping efforts. Contact Norman Bliss at 522 East Maple, River Falls, WI 54022, (715) 425-8776.

HISTORY OF CARTOGRAPHY PROJECT

The first two volumes of a projected five-volume general history of cartography are in work under the direction of Dr. David Woodward, Professor of Geography, U.W.-Madison. An international team of scholars from a variety of fields is contributing to the project. Dr. Woodward's European counterpart is Dr. J.B. Harley, Montefiore Reader in Geography, University of Exeter. The history volumes will provide an authoritative reference work which is presently absent in the subject. It will also serve as a base for a more coordinated research effort.

The volumes are generally chronologically arranged. Worldwide coverage includes not only the more familiar Western European and Mediterranean tradition but Asian contributions to cartography. Volume one covers earliest times to 1470; Volume two encompasses the Renaissance of Cartography, 1470-1660. Volume three (1660-1800), volume four (1800-1914), and volume five (1914-present) are planned as a second phase of the project under separate funding.

The project is funded by a two-year grant of \$134,399 plus an additional \$22,400 in matching funds from the Research Materials Program of the National Endowment for the Humanities. The University of Chicago Press will publish the work. For more information on content, authors or advisers, please contact Dr. David Woodward, Dept. of Geography, 443 Science Hall, University of Wisconsin, Madison, WI 53706, (608) 263-3992.

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MIDWEST ARCHIVES

PROJECT

The Archives Division of the State Historical Society of Wisconsin is creating a large data base which will "substantially improve" the ease with which researchers can access the state archives of Wisconsin, Minnesota, and Illinois. Known as the Midwest State Archives Guide Project, this data base will contain detailed descriptions of every document and manuscript in the archives of the three states. It will eventually tie into the National Historical Publications and Records Commission's National Data Base Project.

Wisconsin's archives contain more than 35,000 cubic feet of records dating back to 1799. They include governors' papers as well as the records of state agencies, courts, counties, and the legislature. The Society also has over 15 million manuscripts, mostly dealing with early Wisconsin and the Great Lakes states.

Max Evans is the project chief. The University of Wisconsin-Madison Administrative Data Processing's Office Systems Network provides the word processing capabilities. (ADP Newsletter)



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PUBLICATIONS OF INTEREST

QUATERNARY HISTORY OF THE DRIFTLESS AREA

This field trip guidebook accompanied the Midwest Friends of the Pleistocene at their 29th annual meeting in Prairie du Chien, Wis. on May 22 and 23, 1982. The road log section (63 pages) covers the quaternary history of the Kickapoo and lower Wisconsin River valleys.



Eight special papers are included as well. Besides the black-and-white diagrams, maps, and illustrations, there are four page-size, colored, state maps. Field-trip Guidebook Number 5 is available from the Wisconsin Geological Survey, 1815 University Ave., Madison, WI 53706, ATTN: Map Sales. Price: \$5.00.

GROUND-WATER QUALITY OF ROCK COUNTY, WIS

This 1982 report contains many illustrations, a cross section, and two maps at 1:100,000...thickness of unconsolidated materials, and permeability of soils. Alex Zaporozec prepared this report as well as a free brochure of the same title. Information Circular 41 is available for \$6.00 from the Wisconsin Geological Survey (address above).

GROUND-WATER LEVELS IN WISCONSIN, 1981

This annual summary includes small state maps showing the location of observation wells, average water-level changes from 1980 to 1981 by county, and total annual precipitation by county. Alex Zaporozec prepared this 4-page booklet which is available free from the Wisconsin Geological Survey (address above).

WETLAND MAPPING FROM DIGITIZED AERIAL PHOTOGRAPHY

F.L. Scarpace, D.K. Quirk, R.W. Kiefer, and S.L. Wynn of the Univ. of Wisconsin-Madison Environmental Remote Sensing Center, scanned aerial photographic imagery of the SHEBOYGAN MARSH through three different narrow band interference filters. The output data eventually generated a digital file from which color coded thematic classification representations could be produced. The wetland boundary was easily delineated, but there was difficulty in mapping the boundaries of vegetation within the wetland. Order #E82-10019 from the National Technical Information Service, 5285 Port Royal Road, Springfield, VA 22161. Paper copy \$7.50, microfiche \$4.00.

MULTIDISCIPLINARY RESEARCH ON THE APPLICATION OF REMOTE SENSING TO WATER RESOURCES PROBLEMS

R.W. Kiefer, of the Univ. of Wisconsin-Madison Inst. for Environmental Studies, reports the progress of the following NASA-funded projects: (1) sediment plume study, (2) atmospheric correction to LANDSAT imagery, (3) demonstrating and evaluating opportunities for operational application of LANDSAT data in Wisconsin, and (4) the development of a study facility to process imagery. Other summaries are given of the vegetation mapping in SHEBOYGAN MARSH, surveying the GREEN BAY watershed to estimate the impact of land development on bay water quality; lake water quality, the Irondequoit River watershed, a model of thermal environment for land use planning; and changes in wetland vegetation near the COLUMBIA Generating Station. The 45-page report is available from NTIS (address above). Order #E82-10021; paper copy \$7.50, microfiche \$4.00.

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PUBLICATIONS, cont.

REMOTE SENSING FOR RESOURCE MANAGEMENT

The 55 chapters illustrate the applications of remote sensing for such resource professionals as conservationists, extension workers, farm cooperative managers, agribusiness people, and local, state, and federal government personnel.

The book is an outgrowth of a national conference of the same name held in October 1980 by the Soil Conservation Society of America. More than 100 fullcolor photographs illustrate the uses of remote sensing data in natural resources. The 688-page, hardbound book is \$45 from the Soil Conservation Society of America, 7515 N.E. Ankeny Road, Ankeny, IA 50021.

1980 USERS' GUIDE TEXT

The Census Bureau has published Part A (the "Text") of the <u>Users' Guide</u>. This part consists of seven chapters and an index. It provides indepth information on the nature, purpose, and historical background of each census question; a thorough review of census geography and data products; and guidance in dealing with the limitations of census data. It provides information on how to obtain and use these products and on other aspects of 1980 census products and services. The <u>1980 Users' Guide Text</u> is available for \$5.50 from the Superintendent of Documents, U.S. Government Printing Office, Washington, D.C. 20402. Order #003-024-03625-8.

OUR 25TH

We are happy to announce the availability of the ASHLAND COUNTY Cartographic Catalog. The Ashland County catalog is significant to us because it is done to our new design specifications and it's our first triple-division catalog. Using the standard base map scale made it necessary to divide Ashland into three sections. This increased the compilation and editing complexity as well as the bulk of the catalog. The Ashland County Cartographic Catalog will automatically go to Ashland County offices, as well as state and regional agencies. Please direct your catalog requests to Ms. Brenda Skaggs, 144 Science Hall, Madison, WI 53706 (608) 262-3065.

MAPS ON THE MOVE

UW-Madison Map and Air Photo Library librarian Mary Galneder announces that 11,700 items were added to the collection since 1980. This brings the holdings to approximately 330,200 items (maps, air photos, wall maps, photo mosaic indexes, gazetteers and glossaries, and miscellaneous pieces). All of which put a considerable strain on the support structure for the third floor library. To prevent any structural damage to Science Hall, the Map Library moved to larger quarters. It's still on the third floor but it now occupies the whole north wing. The move took place in June and July and Ms. Galneder reports service has returned to normal. The new address is 310 Science Hall, Madison 53706. The phone number remains the same: 608/262-1471.



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