



Minnesota Board of Water and Soil Resources.
Minutes.

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BOARD OF WATER AND SOIL RESOURCES
HOLIDAY INN-ROSEVILLE
2540 NORTH CLEVELAND AVENUE
I-35W EXIT 24
ROSEVILLE, MINNESOTA
JANUARY 24, 1990

PRELIMINARY AGENDA

- 9:00 a.m. 1. Call to Order
2. Adopt Agenda
3. Approval of Minutes of December 20, 1989
4. Reports
- Chairman's Report - Donald Ogaard
 - Executive Director's Report - Jim Birkholz
 - EQB/Water Resources Committee Report - Loni Kemp
 - Dispute Resolution Committee Report - Forest Lake Watershed Management Organization - Donald Ogaard, Bruce Sandstrom
5. Southwest Administrative Region Report - Brian Dwight
6. Status Report - MPCA Feedlot/Animal Waste Committee - Bill Cofell
- 10:30 7. Wetland Mitigation Program - Minnesota Department of Transportation - Dr. Lawrence Foote, Director Environmental Services Section
- 11:30 8. BWSR Policy: RIM Wetlands/Mitigation - Wayne Edgerton
9. Advisor Comments
- Noon Lunch
- 1:00 10. 110B Comprehensive Local Water Plans
- For Approval
 - Douglas County - Dan Steward, Dick Howe
 - Overviews
 - Cass County, Dan Steward, John Sumption
 - Southeast Minnesota, 9 counties - Chris Hughes, Pam Hunt
 - Brown County - Chris Hughes, Charles Enter
 - Martin County - Chris Hughes
 - Review of draft rule for Local Water Plan Implementation Grants - Greg Larson

- 2:30 11. Metropolitan Water Plans - Bruce Sandstrom
- Brown's Creek WMO - for approval
 - Lower Rum WMO - for overview
 - Prior Lake-Spring Lake WMO - for overview
 - 509 update
- 3:00 12. LCMR Proposals - for discussion - Jim Birkholz
- 3:30 Adjourn



Southbridge Office Building
155 South Wabasha St., Suite 104
St. Paul, Minnesota 55107
(612) 296-3767
Fax (612) 297-5615

January 16, 1990

TO: Board of Water and Soil Resources Members,
Staff, and Advisors

FROM: Jim Birkholz, Executive Director

SUBJECT: January 24, 1990 Board Meeting

Regional Offices

Northwest Region
1106 Paul Bunyan Drive, NE
Bemidji, MN 56601
218-755-3963

Northeast Region
394 South Lake Avenue
Room 402
Duluth, MN 55802
218-723-4752

West Central Region
503 Washington Street
Brainerd, MN 56401
218-828-2604

South Central Region
Box 756
New Ulm, MN 56073
507-354-2196

Southeast Region
Friedell Bldg., Room 100
1200 S. Broadway
Rochester, MN 55904
507-285-7458

Southwest Region
Box 111
1400 E. Lyon Street
Marshall, MN 56258
507-537-7260

East Central Region
Southbridge Office Building
155 South Wabasha Ave., Suite 104
St. Paul, MN 55107
612-296-3767

Enclosed is the agenda and information packet for the January 24th BWSR meeting. Please note that the meeting location will be at the Holiday Inn-Roseville, 2540 North Cleveland Avenue, I-35W, Exit 24, (see attached map). Board members wishing to make room reservations at the Holiday Inn-Roseville can call 612-636-4567.

Following is information relating to individual agenda items:

- Forest Lake Watershed Management Organization, Dispute Resolution Committee Report. The Dispute Resolution Committee will meet Tuesday evening, the 23rd, with representatives of the WMO. The meeting will focus on suggested amendments to the WMO plan. A report will be made for Board information and discussion.
- MNDOT Wetland Mitigation Program. Dr. Lawrence Foote and staff from the Environmental Services Section of the Department of Transportation will explain the wetlands values methodology which the Department has used in its wetland mitigation program. This information should be helpful for the Board to finalize a policy regarding the use of RIM wetlands restoration in mitigation circumstances. Immediately following this presentation will be further discussion of the Board policy regarding RIM wetlands restoration.

Board Members, Staff, and Advisors
January 16, 1990
Page Two

- 110B Comprehensive Local Water Plans. The Douglas County plan is scheduled for approval if remaining details can be worked out between now and the Board meeting. Twelve plans are scheduled for overview at the meeting. Staff will bring information to the meeting in as concise a format as possible. We are struggling to keep the information brief, yet comprehensive. Board member feedback is welcome at the meeting to help us keep on track. Also included in your packet is a draft of the rules for the local water plan implementation grants which are now being prepared. Greg Larson will be covering this information at the meeting.
- LCMR Proposals. Staff is currently preparing LCMR proposals based on input from the previous Board meeting. This meeting will afford us the final opportunity to provide input into the proposals before the February 16th deadline.

Enclosed for your review are the following informational materials.

- Letter to Larry Foote explaining the rationale for the MNDOT presentation at the Board meeting.
- Draft 319 Narrative. This was sent to the Minnesota Pollution Control Agency to become part of the Minnesota Application for Federal 319 Nonpoint Source Grants. It represents some pass through funds which would come through the Board of Water and Soil Resources. This would be a good agenda item for future Board meetings.
- Copy of the most recent no net loss wetlands bill which is currently being drafted by a review group under the leadership of the DNR.
- 1988 SWCD Financial Summary
- 1988 Watershed Financial Summary
- Sinkhole Management Article from Iowa.
- Proposal by the Minnesota Forage Council for promoting better grazing and pasture management.

Please call myself or Chairman Ogaard if you have additional agenda items or require more information. I look forward to seeing you at the Holiday Inn in Roseville on January 24th!

JB:mja
Enc.



January 5, 1990

Dr. Lawrence Foote, Director
Environmental Services Section
Minnesota Department of Transportation
Room 704
St. Paul, Minnesota 55155

Dear Dr. Foote:

Southbridge Office Building
155 South Wabasha Ave., Suite 104
St. Paul, Minnesota 55107

(612) 296-3767

Regional Offices

Northwest Region
1819 Bemidji Ave.
Bemidji, MN 56601
218-755-3963

Northeast Region
Government Service Center
320 W. 2nd Street
Room 603
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218-723-4752

West Central Region
611 Iowa Avenue
Staples, MN 56479
218-894-1692

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Box 756
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The Board of Water and Soil Resources is currently considering policy to guide the use of the Reinvest In Minnesota Wetland Restoration practice in cases involving wetland mitigation. The Board's intent is that the RIM program remain "net gain" wetlands program. However, we are considering that when a party responsible for mitigation contributes to the cost of wetland restoration perhaps some portion may be credited towards mitigation. The BWSR wishes to fully explore the issue of wetland values prior to adopting a policy which brings me to the reason for this letter.

Would it be possible for you or someone from your staff to make a presentation to the Board at its next meeting on January 24th? What would be most valuable is an approximately 45 minute presentation including time for questions which would include an overview of the MNDOT mitigation procedure, especially how you deal with comparing wetland values. This information would be extremely valuable to the Board in its policy consideration. To my knowledge, you have done more than any other agency to develop a pragmatic workable wetland values formula to be used in mitigation cases.

The January 24th Board meeting will be at the Roseville Holiday Inn, beginning at 9:00 a.m. and ending at approximately 3:00 p.m. I can schedule the agenda to fit your convenience. Please let me know if a presentation is possible so we can work out the details.

Sincerely,

Jim Birkholz
Executive Director

*OK for 10:30-11:30
SB*

JB:mja

DRAFT POLICY

BWSR POLICY FOR USING
RIM WETLANDS
FOR WETLAND MITIGATION

It shall be the policy of the Minnesota Board of Water and Soil Resources [BWSR] that wetlands enrolled in the RIM Reserve Program cannot be used to mitigate other wetland losses. The BWSR's intent is that wetlands restored or created by the RIM Reserve Program be "net gain" wetlands and not used for "no net loss" mitigation.

An exception may be made to this policy when all or a portion of the wetland restoration costs are supplied by another entity. When this happens, that portion of the restoration paid for from funds other than RIM funds may be credited toward mitigation of wetland losses if agreed to by that supplier of supplemental funds. A consideration for wetland values of the lost wetland vs. the restored wetland may be required.

January 10, 1990

DRAFT 319 NARRATIVE - BOARD OF WATER AND SOIL RESOURCES

I. 100% of Target Proposal. \$40,000 of EPA 319 funds provided through the MPCA to the BWSR.

Description:

This proposal is to fund an Agricultural Engineer as a field position of the BWSR. This position would provide design, consultation, and training to local soil and water conservation district staff concerning site planning, design and construction of animal waste control systems.

Rationale:

The lack of timely engineering assistance has restricted efforts in Minnesota to correct polluting feedlot systems. Landowner requests for assistance to upgrade systems are not being met and existing cost-share funds being fully utilized.

Activities:

The Engineer would provide training and on-the-job training to SWCD staff in a multi-county area as needed to improve the capability of local staff to provide technical assistance to landowners. The Engineer would also sign-off as to the technical adequacy of designs and assume responsibility for quality control during construction. Technical criteria of USDA, Soil Conservation Service field office technical guide would be utilized and all aspects of this project would be coordinated with the Soil Conservation Service. SWCDs will be selected for participation based on the occurrence of high priority polluting feedlots within shoreland areas as determined by feedlot inventories and the "Pollution Rating Guide for Minnesota Feedlots" developed by the USDA, Agricultural Research Service.

Funding Analysis:

EPA 319 Program: \$40,000

\$20,000 cash State match from BWSR General Service grants to SWCDs; to augment salary, fringe and support budget for engineer position.

\$25,000 in-kind Local match from soil and water conservation district additional staff time directed toward feedlot pollution abatement systems.

\$150,000 cash State match from existing BWSR cost-share program funds directed toward high

priority feedlot systems.

\$100,000 cash Federal match from USDA, Agricultural Stabilization and Conservation Service ACP program slippage funds lost annually due to lack of technical assistance.

\$83,000 cash Local match from the landowner shares of the 75/25 percent cost-share rate.

Accomplishments/outputs

This project will result in the construction of approximately 15 feedlot pollution abatement systems. In addition training and technical support will be provided to additional SWCDs resulting in 30 additional systems.

Counties would be selected for participation based on those which have identified polluting feedlots as a significant pollution problem and a priority action item in their comprehensive local water plan.

The engineer could also provide support to Clean Water Partnership Projects where feedlot pollution abatement systems are a component of the implementation program.

II. 150% of Target Proposal. \$200,000 of EPA 319 funds provided through the MPCA to the BWSR.

Description and Activities:

This proposal would also fund the Agricultural Engineer proposed in (I.) above. The remaining \$160,000 would be allocated as a Water Quality Special Project fund through the existing cost-share program framework of the Board of Water and Soil Resources. These funds would be allocated to high priority and/or innovative projects which demonstrate significant beneficial water quality impacts. Funds would be allocated annually by the BWSR with project administration provided locally by soil and water conservation districts. Because Minnesota has approximately 15,000 lakes and over 90,000 miles of rivers and streams, priority would be given to projects which correct sedimentation on targeted streambank and lakeshore sites.

Streambank and lakeshore erosion projects would be cost-shared at a 50% rate. This is the traditional rate of cost-share utilized for this practice in Minnesota. Funds would be directed toward those projects which demonstrate greatest potential for water quality improvement and show greatest public benefit. Priority would also be given to those projects which can leverage other federal funds. Innovative water quality improvement projects such as wetland rehabilitation or restoration and vegetative filter runoff treatment systems would be cost-shared at up to a 75% rate.

Design criteria of the USDA, Soil Conservation Service would be used where applicable.

Funding Analysis:

Same match as above for feedlot component plus:

EPA 319 Program: \$160,000

\$10,000 in-kind State match from BWSR staff support to set up, publicize, monitor and report on the program.

\$100,000 in-kind Local match from contributions of landowners and local units of government to cost-shared projects.

Accomplishments/outputs:

Projects will be solicited through an open application process and then ranked according to potential water quality benefits. Priority would be given to those projects which, through demonstration, would result in similar water quality projects being initiated in other parts of the state. Numbers or types of projects are unknown at this time.

A bill for an act

WETLAND HERITAGE ACT OF 1990

relating to waters; wetlands identification, preservation, and management; amending Minnesota Statutes 1988, sections 105.38; 105.391, by adding subdivisions; and 106A.701, by adding a subdivision.

BE IT ENACTED BY THE LEGISLATURE OR THE STATE OF MINNESOTA:

Section 1. Minnesota Statutes 1988, section 105.38 is amended to read:

105.38 [DECLARATION OF POLICY.]

Subdivision 1. [POLICY.] To conserve and use the state's water resources in the best interests of its people, and to promote the public health, safety, and welfare, the policy of the state is as follows:

(a) Subject to existing rights, public waters and wetlands are subject to the control of the state.

(b) The state, to the extent provided by law, shall control the appropriation and use of surface and underground waters of the state.

(c) The state shall control and supervise, so far as practicable, any activity that changes or will change the course, current, or cross-section of public waters or wetlands, including but not limited to the construction, reconstruction, repair, removal, abandonment, the making of any other change, or the transfer of ownership of dams, reservoirs, control structures, and waterway obstructions in public waters or wetlands of the state.

Subd. 2. [FINDINGS; PUBLIC INTEREST.] The legislature finds that the wetlands of Minnesota provide public value by conserving surface waters, maintaining and improving water quality, preserving wildlife habitat, providing recreational opportunities, reducing runoff, providing for floodwater retention, reducing stream sedimentation, contributing to improved subsurface moisture, enhancing the natural beauty of the landscape, and promoting comprehensive water management; and that it is in the public interest to:

(a) achieve no net loss in the quantity and quality of Minnesota's existing wetlands;

(b) increase the quantity and quality of Minnesota's wetlands by restoring or enhancing diminished or drained wetlands; and

(c) avoid direct or indirect impacts from activities that destroy or diminish wetlands. This subd. must guide the enforcement and administration of all other statutes affecting wetlands unless the statute expressly states otherwise.

Sec. 2. Minnesota Statutes 1988, section 105.391, is amended by adding a subdivision to read:

Subd. 3a. [REPLACEMENT OF WETLANDS.] Additional Wetlands of one acre or more, as identified on United States Fish and Wildlife Service National Wetlands Inventory Maps and wetlands which have been created or restored by public or private conservation programs, not inventoried under subdivision 1, must not be drained or filled, wholly or partially, unless there are no feasible and prudent alternatives and unless replaced by creating wetland areas of at least equivalent size, quantity, character, and diversity under a mitigation plan approved as provided in subdivision 3c. Wetlands which are less than 5 acres in size and are surrounded by cropland shall not be required to demonstrate the availability of feasible or prudent alternatives to drainage. Any mitigation or replacement shall be within the same watershed as the impacted wetlands and shall be in the ratio of 1.5 acres of mitigated wetland for each acre of impacted wetland. Wetlands which are created or restored as a result of an approved mitigation plan shall be subject to the provisions of this section for any subsequent drainage or filling. All requests to add or delete a wetland from the jurisdiction of this section must be approved as provided in subdivision 3h and must be based on substantial evidence that the wetland does or does not comply with established criteria for inclusion in the National Wetlands Inventory. This section shall also apply to any work affecting a calcareous fen as identified by _____.

Sec. 3. Minnesota Statutes 1988, section 105.391, is amended by adding a subdivision to read:

Subd. 3b. [EXCEPTIONS.] Wetlands identified in subdivision 3a shall not be subject to mitigation or replacement if:

(1) the wetland was planted and harvested with annually seeded crops or was in a crop rotation seeding 6 of the 10 years prior to January 1, 1990; or

(2) the wetland is a wetland restored under a contract or easement providing the landowner with the right to drain said restored wetland; or

(3) the wetland is a Type 2 wetland, as defined in United States Fish and Wildlife Service Circular No. 39 (1971 edition) and is drained by an authorized public drainage system repair proceedings under section 106A.701 or by the repair of a private drainage system consistent with the provisions of section 106A.701; or

(4) the wetland is located between the banks of a ditch, as defined in section 106A.005, subdivision 8, or is located between the crown of the leveled spoil bank planted with permanent grass, as provided in section 106A.021, and the wetland is drained pursuant to a ditch repair as defined in section 106A.701; or

(5) the wetland is a Type 1 or 8 wetland, as defined in United States Fish and Wildlife Circular No. 39 (1971 edition); or

(6) the wetland was included in a request for a commenced drainage determination provided for by the 1985 Federal Food Security Act that made to the county Agricultural Stabilization and Conservation Service office prior to September 19, 1988 and a ruling and any subsequent appeals or reviews have determined that drainage of the wetland had been commenced prior to December 23, 1985.

Sec. 4. Minnesota Statutes 1988, section 105.391, is amended by adding a subdivision to read:

Subd. 3c. [RULES.] By July 1, 1992, the commissioner shall adopt rules governing the approval of mitigation plans under this section. These rules must address the criteria, procedure, timing and location of acceptable mitigation; the establishment and administration of a wetland banking program; the methodology to be used in identifying and evaluating wetland functions; the administrative, monitoring and enforcement procedures to be used; and provide a procedure for the review and appeal of decisions under this section. Prior to the adoption of these rules the mitigation plan must be approved by a four member review panel. The review panel shall be composed of: the regional administrator for the Department of Natural Resources; one board member of the local soil and water conservation district or districts within the county; one manager of the watershed district and one member of the local water planning group who must be appointed by the county board. Where there is no watershed district a member of the governing board of the county or city shall be present on the review panel. After the adoption of these rules the mitigation plan must be approved by a resolution of the governing board of the local water management organization, consistent with the provisions of the rules.

Sec. 5. Minnesota Statutes 1988, section 105.391, is amended by adding a subdivision to read:

Subd. 3d. [EVALUATION.] Questions concerning the location, size or type of a wetland shall be submitted to a technical evaluation panel. The technical evaluation panel shall be composed of a technical professional employee of the Department of Natural Resources; a technical professional employee of the local

soil and water conservation district or district's and an engineer for the local water management organization. This panel shall advise the authority that must approve a mitigation plan under subdivision 3c.

Sec. 6. Minnesota Statutes 1988, section 105.391, is amended by adding a subdivision to read:

Subd. 3e. [DECISION.] As provided in subdivision 3c, the organization approving a mitigation plan shall act on all applications for mitigation plan approval within 60 days after the application and all required data are submitted.

Sec. 7. Minnesota Statutes 1988, section 105.391 is amended by adding a subdivision to read:

Subd. 3f. [NOTICE OF APPLICATION.] Within 10 days of receiving an application for approval of a mitigation plan under this section, a copy of the application must be submitted for publication in the Environmental Quality Board Monitor and separate copies submitted to the commissioner, the board of supervisors of the soil and water conservation district, the managers of the watershed district, the board of county commissioners and within the wetland watershed, the mayors of the cities.

Sec. 8. Minnesota Statutes 1988, section 105.391, is amended by adding a subdivision to read:

Subd. 3g. [NOTICE OF DECISION.] At least 30 days prior to the effective date of the approval or denial of a mitigation plan under this section, a copy of the approval or denial must be submitted for publication in the Environmental Quality Board Monitor and separate copies submitted to the commissioner, the board of supervisors of the soil and water conservation district, the managers of the watershed district, the board of county commissioners and the mayor of the city.

Sec. 9. Minnesota Statutes 1988, section 105.391, is amended by adding a subdivision to read:

Subd. 3h. [APPEAL.] The applicant, the commissioner, the board of supervisors of the soil and water conservation district, the managers of the watershed district, the board of county commissioners and the mayor of the city may, within 30 days after notice under subdivision 3g, appeal the approval or denial of a mitigation plan. Appeals shall also be allowed by petition of not less than 25 landowners or residents. All appeals shall be heard by the committee for dispute resolution of the Board of Water and Soil Resources. The committee for dispute resolution shall act on all appeals within 60 days after the request for an appeal is submitted. The decision of this committee shall be final.

Sec. 10. Minnesota Statutes 1988, section 105.391, is amended by adding a subdivision to read:

Subd. 3i. [WETLAND MANAGEMENT ADVISORY COMMITTEE.] The commissioner shall establish a wetland management advisory committee consisting of a balanced diversity of interests including agriculture, environmental, sportsman organizations; local government organizations and other agencies. The committee shall advise the commissioner on the development of rules and after rule adoption meet twice a year to review implementation of the program, to identify strengths and weaknesses, and recommend changes to the rules and the law to improve the program.

Sec. 11. Minnesota Statutes 1988, section 105.391, is amended by adding a subdivision to read:

Subd. 3j. [MITIGATION CREDITS.] No public or private wetland restoration, enhancement or construction shall be allowed for mitigation unless specifically designated for mitigation by the individual or organization performing the wetland restoration, enhancement or construction.

Sec. 12. Minnesota Statutes 1988, section 105.391, is amended by adding a subdivision to read:

Subd. 3k. [TAX EXEMPTION.] The owner of wetlands identified under M.S. 105.391 or created under mitigation provision of M.S. 105.391, unless the wetlands are exceptions pursuant to M.S. 105.391, subd. 3b, shall be exempt from taxes as provided for under M.S. 272.02, subdivision 1(10).

Sec. 13. Minnesota Statutes 1988, section 105.391, is amended by adding a subdivision to read:

Subd. 3l. [DRAINING PUBLIC WATERS.] No public ditch may be repaired in such a way as to partially or completely drain a public water basin or wetland basin inventoried under subdivision 1, except as provided in subdivision 3. This section does not limit the rights of a landowner to maintain an existing drainage system within the criteria set forth in subdivision 3b.

Sec. 14. Minnesota Statutes 1988, section 105.391, subdivision 3, is amended to read:

Subd. 3. [PERMISSION TO DRAIN WATERS AND WETLANDS.] Except as provided below, no public waters or wetlands shall be drained, and no permit authorizing drainage of public waters or wetlands shall be issued, unless the public waters or wetlands being drained are replaced by public waters or wetlands that will have equal or greater public value. Wetlands, drainage of which is lawful, feasible, and practical and would provide high quality cropland and that is the projected land use, as determined by the commissioner, may be drained without a

permit and without replacement of wetlands of equal or greater public value if the commissioner does not choose, within 60 days of receiving an application for a permit to drain the wetlands, to (1) place the wetlands in a the state waterbank program permanent easement under section 105.392, or (2) acquire it in fee under section 97A.145. The applicant, if not offered a choice of the above alternatives, is entitled to drain the wetlands involved.

~~In-addition,-the-owner-of-lands-underlying-wetlands-situated-on-privately owned-lands-may-apply-to-the-commissioner-for-a-permit-to-drain-the-wetlands-at any-time-more-than-ten-years-after-their-original-designation.--On-receiving-an application,-the-commissioner-shall-review-the-status-and-conditions-of-the wetlands.--If-the-commissioner-finds-that-the-current-status-or-conditions-make it-likely-that-the-economic-or-other-benefits-from-agricultural-use-to-the-owner from-drainage-would-exceed-the-public-benefits-of-maintaining-the-wetlands,-the commissioner-shall-grant-the-application-and-issue-a-drainage-permit.--If-the application-is-denied,-the-owner-may-not-apply-again-for-another-ten-years-~~

Sec. 15. Minnesota Statutes 1988, section 105.392, subd. 3 is amended to read:

Subd. 3. [CONTENTS OF WATERBANK AGREEMENT.] In the easement between the commissioner and an owner, the owner shall agree:

(1) to place in the program for the period of the agreement eligible wetland areas the owner designates, ~~which-may-include-wetlands-covered-by-a federal-or-state-government-easement-that-permits-agricultural-use,~~ together with adjacent areas as determined by the commissioner;

(2) not to drain, burn, fill or otherwise destroy the wetland character of the areas; ~~nor-to-use-them-for-agricultural-purposes,-as-determined-by-the commissioner;~~

(3) not to use the wetland for agricultural purposes unless it is a type 2 wetland and agricultural use is allowable by an agricultural use easement.

Sec. 16. Minnesota Statutes 1988, section 105.37 is amended by adding a subdivision to read:

Subd. 19. Local water management organization. "Local water management organization" means the managers of a watershed district established pursuant to Minnesota Statutes Chapter 112. Where no watershed district has been established the local water management organization shall be the governing board of the county or city.

Sec. 17. Minnesota Statutes 1988, section 105.392, subd. 4 is amended to read:

Subd. 4. [PAYMENT AND HELP TO OWNER.] In return for the easement of the owner, the commissioner must provide advice on conservation and development practices on the wetland and adjacent areas for the purposes of this section as the commissioner determines to be appropriate. The commissioner must make the following payments to the landowner for the easement:

(1) for a permanent easement, 50% of the average equalized estimated market value of cropland in the township as established by the commissioner of revenue for the time period when the application is made;

(2) for an easement of limited duration, a lump sum payment equal to 65% of the value of the permanent easement value for the time period when the application is made;

(3) for an agricultural use easement of permanent duration, a lump sum payment equal to 75% of the value of the permanent easement value for the time period when the application is made;

(4) for an agricultural use easement of limited duration, a lump sum payment equal to 65% of the value of the permanent agricultural use easement for the time period when the application is made; or

~~(3)~~ (5) an alternative payment system for easements based on cash rent or a similar system as may be determined by the commissioner.

Sec. 18. Minnesota Statutes 1988, section 272.02, subdivision 1(1) is amended to read:

(10) Wetlands. For the purpose of this subdivision, "wetlands" means (1) land described in section 105.37, subdivision 15, or (2) land described in section 105.391, subdivision 3a, ~~land which is mostly under water, produces little if any income, and has no use except for wildlife or water conservation purposes,~~ provided it is preserved in its natural wetland condition or restored to a wetland condition, and (3) land on which a wetland is created or restored. ~~and drainage of it would be legal, feasible, and economically practical for the production of livestock, dairy animals, poultry, fruit, vegetables, forage and grains, except wild rice.~~ "Wetlands" shall include adjacent land which is not suitable for agricultural purposes due to the presence of the wetlands. "Wetlands" shall not include ~~woody swamps containing shrubs or trees, wet meadows, meandered water, streams, and rivers, and floodplains or river bottoms.~~ Exemption of wetlands from taxation pursuant to this section shall not grant the public any additional or greater right of access to the wetlands or diminish any right of ownership to the wetlands.

Sec. 19. Minnesota Statutes 1988, Section 106A.701, is amended by adding a subdivision to read:

Subd. 6. [WETLAND RESTORATION AND MITIGATION.] Repair of a drainage system may include the restoration or enhancement of wetlands; wetland mitigation pursuant to section 105.391, subd. 3a; and the realignment of a drainage system to prevent drainage of a wetland.

Sec. 20. Minnesota Statutes 1988, section 105.391, subdivision 10, currently reads:

Subd. 10. Landowner's use of wetlands. This chapter does not prevent a landowner from using the bed of wetlands or public waters for pasture or cropland during periods of drought, if there is no construction of dikes, ditches, tile lines or building, and the agricultural use does not result in the drainage of the wetlands or public waters. This chapter does not prevent a landowner from filling a wetland to accommodate wheeled booms on irrigation devices so long as the fill does not impede normal drainage.

Sec. 21. Minnesota Statutes 1988, section 272, is amended by adding a subdivision to read:

272.115 STATE PAID WETLANDS EXEMPTION

The total amount of revenue lost as a result of the exemption provided in section 272.02, subdivision 1, clause (10), shall be submitted by the county auditor to the commissioner of revenue as part of the abstracts of tax lists to be filed with the commissioner under the provisions of section 275.29. The amount of revenue lost as a result of the exemption shall be computed each year by applying the current tax rates of the taxing jurisdictions in which the wetlands are located to the assessed valuation of the wetlands for purposes of taxes levied beginning in 1990. Provided that payment to the county for lost revenue shall not be less than the revenue which would have been received in taxes if the wetlands had an assessed value of \$5 per acre. The commissioner of revenue shall review such certification as he may deem necessary or a return a certification to the county auditor for correction.

Sec. 22. Minnesota Statutes 1988, section ?, is amended by adding a subdivision to read:

Subd. ?. [WETLAND DEFINITION.] Wetlands are lands transitional between terrestrial and aquatic systems where the water table is usually at or near the surface or the land is covered by shallow water. For purposes of this definition wetlands must have one or more of the following three attributes: (1) at least periodically, the land supports predominantly hydrophytes; (2) the substrate is predominantly undrained hydric soil; and (3) the substrate is nonsoil and is saturated with water or covered by shallow water at some time during the growing season of each year.

1001E ←

SOIL AND WATER CONSERVATION DISTRICTS

SUMMARY OF FY88 (CALENDAR YEAR 88)

STATEMENTS OF REVENUES AND EXPENDITURES

DISTRICT		REVENUE							EXPENDITURES							EXCESS REVENUES (EXPENDITURES)	
		LOCAL	INTERGOVERNMENTAL COUNTY	STATE	FEDERAL	CHARGES FOR SERVICES	MISCELLANEOUS INTEREST	OTHER	TOTAL REVENUE	PERSONAL SERVICES	OTHER SERVICES AND CHARGES	SUPPLIES	CAPITAL OUTLAY	PROJECT EXPENSE DISTRICT	STATE		TOTAL EXPENDITURES
NE	AITKIN		42,533.00	26,693.66		4,297.05	2,983.36	120.00	\$76,627.07	46,915.24	17,280.02	1,896.59	141.87	3,250.58	15,173.47	\$84,657.77	(\$8,030.70)
EC	ANOKA	7,752.00	33,275.00	17,000.00		40,167.00	631.00	1,405.00	\$100,230.00	56,982.00	20,062.00	1,695.00	941.00	26,551.00	142.00	\$106,373.00	(\$6,143.00)
WC	BECKER		43,704.00	45,690.83	624.96	19,252.92	3,401.74	374.10	\$113,048.55	66,173.07	3,502.51	10,415.90	5,346.95	12,128.26	20,929.26	\$118,495.95	(\$5,447.40)
NW	BELTRAMI	34,107.68	30,000.00	17,415.25		27,278.79	3,760.41	8,538.15	\$121,100.28	58,935.88	12,798.12	1,014.45	5,447.00	41,596.29	6,012.84	\$125,804.58	(\$4,704.30)
EC	BENTON		45,098.31	56,308.00		1,035.33	4,026.60		\$106,468.24	22,663.47	5,468.47	254.37	3,170.28	3,236.49	23,326.41	\$58,119.49	\$48,348.75
SW	BIG STONE		32,609.00	284.00	465.91	27,296.70	2,755.31	12,920.27	\$76,331.19	37,148.80	14,267.69	572.43	60.00	14,197.50		\$66,246.42	\$10,084.77
SC	BLUE EARTH		47,751.00	54,017.32	5,196.92	298,740.96	6,725.94	14,791.11	\$427,223.25	94,288.86	18,278.49	3,431.47	21,797.74	245,376.24	30,255.04	\$413,427.84	\$13,795.41
SC	BROWN		59,451.31	31,392.07	260.00	12,752.57	5,073.22	919.66	\$109,848.83	51,713.16	8,367.60	1,335.92	1,086.12	8,328.21	15,889.73	\$86,720.74	\$23,128.09
NE	CARLTON		60,279.00	43,909.00			2,295.00	1,966.00	\$108,449.00	44,894.00	26,543.00	1,858.00	5,854.00		33,242.00	\$112,391.00	(\$3,942.00)
EC	CARVER		106,109.78	26,046.88		9,141.50	6,574.69	486.18	\$148,359.03	111,593.03	10,706.04	1,244.63	0.00	11,859.96	12,363.75	\$147,767.41	\$591.62
WC	CASS		1,815.00	11,616.06			1,372.42		\$14,803.48	8,520.71	5,744.53	158.56		5,981.86	9,261.78	\$29,667.44	(\$14,863.96)
SW	CHIPPEWA		31,000.00	40,340.07	598.00	19,244.20	2,746.40	1,369.50	\$95,298.17	48,989.11	12,271.50	217.46	1,526.90	13,202.78	12,548.04	\$88,755.79	\$6,542.38
NE	CHISAGO		22,635.00	15,791.62		30,959.73	1,880.16	1,014.99	\$72,281.50	45,605.03	9,106.45	192.99	225.00	26,618.55	2,282.92	\$84,030.94	(\$11,749.44)
WC	CLAY		43,148.00	39,491.36	350.00	36,171.84	3,605.03	2,580.22	\$125,346.45	60,138.69	11,065.20	764.02	4,500.00	21,854.67	9,771.41	\$108,093.99	\$17,252.46
NW	CLEARWATER	5,315.38	32,500.00	11,420.00	1,964.00	14,346.29	1,130.43	681.46	\$67,357.56	41,106.58	4,473.73	5,307.54	1,357.60	15,104.89		\$67,350.34	\$7.22
NE	COOK		2,000.00	7,733.01		600.00	313.39	526.00	\$11,172.40	8,223.60	5,847.30	818.97		813.10		\$15,702.97	(\$4,530.57)
SW	COTTONWOOD		52,293.99	37,225.82	390.00	58,608.66	2,397.43	748.66	\$151,664.56	67,198.66	12,385.88	1,036.70	4,710.13	33,418.93	19,005.00	\$137,755.30	\$13,909.26
WC	CROW WING		12,000.00	33,955.00	460.00		662.55		\$47,077.55	16,543.46	6,919.69	42.48		1,132.85	22,605.00	\$47,243.48	(\$165.93)
EC	DAKOTA		127,019.00	24,945.00		96,780.00	2,627.00	525.00	\$251,896.00	217,549.00	24,123.00	4,057.00	2,239.00	10,782.00		\$258,750.00	(\$6,854.00)
SE	DODGE		81,840.00	36,496.74	29.00	15,350.42	3,961.58		\$137,677.74	78,706.13	12,740.21	514.91	20,000.36	5,614.05	8,375.00	\$125,950.66	\$11,727.08
WC	DOUGLAS		37,000.00	43,750.53	200.00	57,317.08	3,745.08	1,581.55	\$143,594.24	72,335.43	13,734.86	2,045.52	11,218.39	29,950.81	25,471.25	\$154,756.26	(\$11,162.02)
SC	FARIBAULT		30,000.00	41,719.40	2,439.75	25,063.84	2,345.73	2,322.75	\$103,891.47	61,420.62	13,110.29	1,430.19		16,534.04	5,773.72	\$98,268.86	\$5,622.61
SE	FILLMORE		80,714.69	86,595.34	2,700.00	2,008.11	4,571.07	478.88	\$177,068.09	87,452.85	11,285.54	221.45	2,593.15	2,784.47	49,977.67	\$154,315.13	\$22,752.96
SE	FREEBORN		43,044.00	47,455.74		16,836.73	2,424.80	1,464.94	\$111,226.21	64,864.90	11,464.37	891.88	856.99	11,754.52	16,715.00	\$106,547.66	\$4,678.55
SE	GOODHUE		88,360.00	117,718.03	3,116.10	22,252.94	7,644.77	3,536.29	\$242,628.13	100,191.74	21,401.87	956.01	18,472.31	11,881.81	28,460.50	\$181,364.24	\$61,263.89
WC	GRANT		25,000.00	30,876.15	13,029.78	20,101.36	926.71	811.82	\$90,745.82	57,542.84	8,736.92	1,748.91		8,047.10	7,234.05	\$83,309.82	\$7,436.00
EC	HENNEPIN		295,590.00	51,350.00		3,424.00	4,193.00	52.00	\$354,609.00	229,414.00	80,361.00	3,645.00	1,479.00	3,006.00	29,600.00	\$347,505.00	\$7,104.00
NW	HUBBARD		21,000.00	22,026.80		4,852.76	1,928.74	83.76	\$49,892.06	30,281.68	6,901.39	522.53	5,879.49	5,571.68	8,076.00	\$57,232.77	(\$7,340.71)
NE	ISANTI		31,000.02	31,646.32		76,700.07	1,790.06	5,680.96	\$146,817.43	53,839.01	10,047.54	1,157.30	4,336.49	43,688.12	501.78	\$113,570.24	\$33,247.19
NE	ITASCA		41,500.00	15,394.88			4,658.10	25,222.52	\$86,775.50	49,734.52	13,090.54	657.90		43,197.61	1,309.00	\$107,989.57	(\$21,214.07)
SW	JACKSON		20,239.43	27,321.29	65,000.00	27,407.91	3,733.71	787.00	\$144,489.34	43,751.06	12,054.53	472.30	2,439.14	14,294.80	7,052.83	\$80,064.66	\$64,424.68
NE	KANABEC		12,875.11	32,444.41		6,570.46	943.53	19,256.78	\$72,090.29	28,552.92	6,251.30	353.69	4,441.01	26,322.39		\$65,921.31	\$6,168.98
SC	KANDIYOHI		88,765.00	48,488.37	640.00	47,346.66	3,796.55	2,929.72	\$191,966.30	85,154.39	18,844.63	3,893.97	6,329.00	51,671.47	35,160.00	\$201,053.46	(\$9,087.16)
NW	KITTSON		20,000.00	16,493.00	9,600.00	13,446.90	555.82	137.20	\$60,232.92	53,710.12	9,672.87			6,421.93	9,600.00	\$79,404.92	(\$19,172.00)
NE	KOOCHICING		15,518.00	23,489.10			1,587.13	2,140.64	\$42,734.87	16,970.28	7,357.83	685.02	679.96	38.50	12,809.54	\$38,541.13	\$4,193.74
SW	LAC QUI PARLE	480.00	44,000.00	36,205.11		32,687.06	4,456.74	1,479.54	\$119,308.45	52,879.32	19,327.42	1,074.78	21.99	28,265.84	14,226.45	\$115,795.80	\$3,512.65
NE	LAKE		20,361.86	9,291.36			1,181.23	3,312.63	\$34,147.08	24,791.65	5,741.19	3,111.74			1,883.34	\$35,527.92	(\$1,380.84)
NW	LAKE OE WOODS		1,000.00	14,653.98	876.00	268.00	453.51	27.00	\$17,278.49	9,724.96	1,202.60	991.66		249.49		\$12,168.71	\$5,109.78
SC	LESUEUR		34,779.00	39,461.16		12,942.87	10,278.31		\$97,461.34	39,997.85	15,020.14	597.80		9,042.68	24,120.00	\$88,778.47	\$8,682.87
SW	LINCOLN		36,600.00	40,954.70	2,010.00	41,368.41	2,925.43	1,092.62	\$124,951.16	54,441.22	16,421.02	474.14	1,176.94	19,584.21	16,285.00	\$108,382.53	\$16,568.63
SW	LYON		46,615.00	40,553.34	12,555.00	20,944.30	3,369.01	71.85	\$124,108.50	69,918.11	13,231.23	993.20	1,119.62	14,023.26	19,661.37	\$118,946.79	\$5,161.71
NW	MAHONOMEN		8,400.00	45,417.47	500.00	6,868.05	2,325.65	321.17	\$63,832.34	35,527.55	8,204.23			6,974.06	9,148.00	\$59,853.84	\$3,978.50
NW	MARSHALL		11,567.50	33,423.51	6,569.44	19,234.98	2,065.62	1,187.54	\$74,048.59	54,650.92	20,468.02	914.92		8,371.19	12,650.50	\$97,055.55	(\$23,006.96)
NW	MARSHALL-BELTRAMI		24,275.00	21,717.05	500.00	1,990.34	1,200.51	1,095.37	\$50,778.27	34,797.76	9,465.30	50.02	302.72	1,944.66	114.75	\$46,675.21	\$4,103.06
SC	MARTIN		31,800.00	37,304.33	4,700.00	29,342.97	2,716.80	3,100.00	\$108,964.10	50,970.64	9,197.35	669.56	10,198.31	20,145.98	5,015.00	\$96,196.84	\$12,767.26
SC	MCLEOD		32,847.00	31,609.46		71,839.28	5,083.51	914.49	\$142,293.74	50,126.09	8,918.54	709.72	4,145.75	52,193.30	8,764.88	\$124,858.28	\$17,435.46
SC	MEEKER		37,669.64	47,488.45		32,917.44	2,973.72	237.50	\$121,286.75	53,686.02	9,430.34	715.09	184.57	23,586.62	16,300.00	\$103,902.64	\$17,384.11
NE	MILLE LACS		2,000.00	24,999.24	136.88		5,150.92	394.50	\$32,681.54	26,049.81	5,553.82	350.46			2,197.54	\$34,151.63	(\$1,470.09)

SOIL AND WATER CONSERVATION DISTRICTS

SUMMARY OF FY88
(CALENDAR YEAR 88)

STATEMENTS OF REVENUES AND EXPENDITURES

DISTRICT		REVENUE							EXPENDITURES						EXCESS REVENUES (EXPENDITURES)		
		LOCAL	INTERGOVERNMENTAL COUNTY	STATE	FEDERAL	CHARGES FOR SERVICES	MISCELLANEOUS INTEREST	OTHER	TOTAL REVENUE	PERSONAL SERVICES	OTHER SERVICES AND CHARGES	SUPPLIES	CAPITAL OUTLAY	PROJECT EXPENSE DISTRICT		STATE	TOTAL EXPENDITURES
WC	MORRISON		41,461.00	33,842.00	1,480.00	45,255.00	3,362.00	3,164.00	\$128,564.00	60,082.00	20,009.00	2,477.00		16,200.00	9,806.00	\$108,574.00	\$19,990.00
SE	MOWER		62,000.00	30,848.42	450.00	19,820.85	1,971.27	1,419.28	\$116,509.82	76,373.25	11,332.21	984.10	1,307.22	17,112.15	14,983.45	\$122,092.38	(\$5,582.56)
SW	MURRAY		34,930.97	8,662.50	1,095.00	17,344.64	4,042.76	114.65	\$66,190.52	54,298.17	10,096.58	896.93	450.85	10,079.00	5,905.00	\$81,726.53	(\$15,536.01)
SC	NICOLLET		31,185.00	27,122.50		10,247.42	2,693.40	461.29	\$71,709.61	40,918.81	7,878.28	118.28		6,793.88	4,957.50	\$60,666.75	\$11,042.86
SW	NOBLES	8,612.00	32,500.00	35,786.00	19,752.00	45,250.00	3,568.00		\$145,468.00	72,439.00	21,803.00	978.00	1,739.00	26,250.00	18,473.00	\$141,682.00	\$3,786.00
NW	NORMAN		33,000.00	32,739.35	2,278.20	17,196.57	7,415.54	935.31	\$93,564.97	63,096.40	14,362.68	2,079.99	12,546.73	7,839.31	5,766.25	\$105,691.36	(\$12,126.39)
SE	OLMSTED	5,953.94	91,080.00	50,424.14	9,760.00	21,620.70	5,940.08	884.55	\$185,663.41	110,803.28	16,438.96	1,577.31	2,834.95	12,120.10	34,741.00	\$178,515.60	\$7,147.81
WC	OTTERTAIL E.		31,500.00	42,063.49	825.00	38,237.04	4,164.08	0.00	\$116,789.61	49,974.97	18,578.26		2,892.75	31,392.91	5,811.51	\$108,650.40	\$8,139.21
WC	OTTERTAIL W.		31,500.00	66,616.89	618.75	162,910.96	7,034.88	2,234.42	\$270,915.90	76,054.55	26,306.43	881.02	22,928.63	112,328.41	28,362.38	\$266,861.42	\$4,054.48
NW	PENNINGTON	5,700.00	30,314.00	13,068.69	13,275.01	36,742.64	1,043.54	1,380.53	\$101,524.41	54,560.20	11,316.93	557.20	7,513.00	25,602.50	1,583.69	\$101,133.52	\$390.89
NE	PINE		34,200.00	21,443.10	94.40	27,894.94	2,982.15	60.95	\$86,675.54	41,778.42	5,844.52	503.27		17,147.09	7,400.00	\$72,673.30	\$14,002.24
SW	PIPESTONE		27,210.14	45,136.80		33,778.84	2,929.28	289.04	\$109,344.10	36,510.30	8,731.86	1,485.51	1,330.00	16,377.54	30,308.76	\$94,743.97	\$14,600.13
NW	POLK EAST		15,000.00	23,760.65	2,745.14	35,366.85	3,160.44	1,367.57	\$81,400.65	38,193.74	26,035.03	121.08		7,562.24	6,911.62	\$78,823.71	\$2,576.94
NW	POLK WEST		18,000.00	15,143.73		51,685.14	2,536.64	12,975.00	\$100,340.51	45,865.44	14,956.69	1,934.57	10,000.00	23,839.10	14,500.00	\$111,095.80	(\$10,755.29)
WC	POPE		25,000.00	56,962.10	12,375.62	19,167.87	1,963.09	22,653.89	\$138,122.57	68,308.75	8,340.16	367.21		36,354.88	26,915.25	\$140,286.25	(\$2,163.68)
EC	RAMSEY		51,045.77	13,635.82					\$64,681.59	43,198.86	16,924.88	442.07	1,719.90		23,510.47	\$85,796.18	(\$21,114.59)
NW	RED LAKE		21,545.00	32,949.50	1,777.05	10,528.21	2,078.97	444.48	\$69,323.21	40,805.27	5,823.60	1,300.35	1,000.00	6,757.33	17,130.00	\$72,816.55	(\$3,493.34)
SW	REDWOOD	2,633.05	65,750.00	29,586.62	990.00	23,952.79	5,085.08	15,070.00	\$143,067.54	81,374.07	37,332.12	368.72	1,515.19	17,359.39	16,035.00	\$153,984.49	(\$10,916.95)
SC	RENVILLE			39,978.84		41,254.94	2,988.80	2,385.52	\$86,608.10	57,373.90	18,313.70	868.65		23,115.41	14,720.00	\$114,391.66	(\$27,783.56)
SE	RICE		31,101.18	15,818.80		10,749.32	2,292.86	110.00	\$60,072.16	40,745.97	6,911.20	876.73	5,711.74	7,239.24	12,835.27	\$74,320.15	(\$14,247.99)
SW	ROCK		6,293.56	29,951.34		14,474.96	2,193.63	1,063.79	\$53,977.28	24,028.29	8,263.53	62.51	700.00	11,189.82	11,013.50	\$55,257.65	(\$1,280.37)
SE	ROOT RIVER		67,541.00	54,117.44	900.00	3,050.47	1,911.83	20.00	\$127,540.74	89,179.71	8,036.27	1,231.63	105.97	1,515.00	11,072.00	\$111,140.58	\$16,400.16
NW	ROSEAU		16,000.00	30,015.00	12,000.00	20,534.00	2,470.00	496.00	\$81,515.00	50,886.71	10,204.22			11,329.46	4,430.34	\$76,850.73	\$4,664.27
EC	SCOTT	25,580.61	81,860.00	40,915.14		3,500.00	6,040.11	587.20	\$158,483.06	102,912.19	12,837.93	248.50		17,595.49	15,449.39	\$149,043.50	\$9,439.56
EC	SHERBURNE		37,357.00	23,639.14		8,772.66	3,123.36	761.73	\$73,653.89	50,482.69	7,354.30	1,034.61		7,940.44	1,649.16	\$68,461.20	\$5,192.69
SC	SIBLEY		27,817.00	26,077.48	5,024.50	37,148.51	1,694.88	6,084.93	\$103,847.30	59,533.13	12,369.22	840.44		29,747.09	5,914.05	\$108,403.93	(\$4,556.63)
EC	STEARNS		210,000.00	44,320.00	7,810.72	23,472.70	22,381.67	15,516.68	\$323,501.77	267,347.79	30,252.93	6,689.06	3,276.42		30,415.80	\$337,982.00	(\$14,480.23)
SE	STEELE		33,863.49	32,792.17		22,728.64	865.74	592.94	\$90,842.98	46,740.00	6,275.91	142.03		13,843.13	8,994.88	\$75,995.95	\$14,847.03
WC	STEVENS		39,085.62	62,773.01	3,760.00	22,800.74	2,994.01	654.20	\$132,067.58	65,989.82	17,630.66	789.27	7,854.93	24,531.82	38,314.83	\$155,111.33	(\$23,043.75)
NE	ST. LOUIS N.		26,574.00	29,876.00		6,142.16	2,964.74	1,002.70	\$66,559.60	30,269.52	6,112.38	495.29	7,849.18	22,904.49	14,582.81	\$82,213.67	(\$15,654.07)
NE	ST. LOUIS S.		26,574.00	91,091.98		11,472.09	3,667.38	1,047.06	\$133,852.51	33,714.10	12,578.67	464.40	3,716.95	8,024.53	78,444.70	\$136,943.35	(\$3,090.84)
SW	SWIFT		26,679.00	35,478.17	460.00	26,011.63	1,893.18	2,182.92	\$92,704.90	54,137.50	3,556.10	0.00	15,813.90	12,300.86		\$85,808.36	\$6,896.54
WC	TODD		40,403.00	52,405.52		23,053.65	1,527.64	3,272.88	\$120,662.69	72,606.46	12,654.02	324.28	6,047.00	8,277.82	20,423.76	\$120,333.34	\$329.35
WC	TRAVERSE		41,124.16	30,657.13		17,441.72	2,387.76	3,907.68	\$95,518.45	55,993.79	14,087.37	759.66	3,149.10	13,453.43	1,491.63	\$88,934.98	\$6,583.47
SE	WABASHA		68,873.00	64,628.00	10,669.00	4,114.00	4,895.00	1,257.00	\$154,436.00	73,970.00	19,388.00	254.00	4,989.00	1,494.00	36,052.00	\$136,147.00	\$18,289.00
WC	WADENA		14,454.00	55,827.58	251.24	14,937.23	2,795.91	1,035.30	\$89,301.26	43,078.65	7,340.27	357.71	5,619.00	4,918.60	9,242.75	\$70,556.98	\$18,744.28
SC	WASECA		33,292.19	84,255.53		14,153.42	1,815.08	433.95	\$133,950.17	61,223.65	6,809.65	1,462.70	79.95	10,437.68	71,092.52	\$151,106.15	(\$17,155.98)
EC	WASHINGTON		105,000.00	24,103.41		33,593.03	8,053.00	19,009.93	\$189,759.37	105,344.78	26,362.18	1,561.08	1,316.18	40,795.76	10,355.35	\$185,735.33	\$4,024.04
SC	WATONWAN		32,500.00	27,272.64	2,352.27	39,080.01	1,951.90	2,282.91	\$105,439.73	44,718.96	16,243.19	699.20		36,751.24	7,760.00	\$106,172.59	(\$732.86)
WC	WILKIN	1,089.00	28,420.89	85,781.95		26,447.49	3,950.52	2,444.52	\$148,134.37	33,374.55	11,986.42	965.21	925.84	18,820.55	63,573.89	\$129,646.46	\$18,487.91
SE	WINONA	129.73	106,701.24	124,916.44	18,166.00	5,772.57	14,847.16	420.61	\$270,953.75	89,841.63	6,356.89	37,410.90		16,313.79	82,916.92	\$232,840.13	\$38,113.62
EC	WRIGHT		69,812.00	51,999.66	725.00	31,252.85	6,283.08		\$160,072.59	90,825.19	12,714.50	714.56	6,703.10	22,054.97	26,025.44	\$159,037.76	\$1,034.83
SW	YELLOW MED.		49,996.00	116,101.29	13,350.00	27,623.50	8,966.56	1,116.26	\$217,153.61	73,875.76	16,970.57	1,060.66	2,355.50	11,750.11	85,800.50	\$191,813.10	\$25,340.51
TOTAL		\$97,353.39	\$3,988,126.85	\$3,492,206.17	\$277,896.64	\$2,412,339.23	\$324,876.42	\$259,828.99	\$10,852,627.69	\$5,506,298.10	\$1,205,244.50	\$142,107.77	\$296,550.86	\$1,727,242.21	\$1,522,266.82	\$10,399,710.26	\$452,917.43



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NOV 30 1989

Jim-
FYI
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Denise

Agri News Photo by Jean Caspers-Simmet

DEPARTMENT OF AGRICULTURE and Land Stewardship officials offer pointers on cleaning refuse out of sinkholes at a site northwest of Decorah, Iowa. Once all the refuse was removed, the sinkhole was reshaped and seeded down.

Study looks at sinkhole residue

¹³³ Plan for managing, handling sinkhole trash will be studied

over >

EDITOR'S NOTE: With the growing concern over ground water quality, more and more attention is being focused on the role sinkholes play in pollution. In this, the second segment of a two-part series on sinkholes, Agri News Staff Writer Jean Caspers-Simmet continues her examination of the issue.

By **JEAN CASPERS-SIMMET**
Agri News Staff Writer

Household trash, empty pesticide containers, a broken-down combine and other farm implements, rusting appliances and fence wire, and bald tires.

It sounds like things you'd find in a sanitary landfill, but that list of refuse was actually retrieved recently from two northeast Iowa sinkholes by the Iowa Department of Agriculture and Land Stewardship.

The 1987 Iowa Groundwater Protection Act assigned the ag department the task of finding and demonstrating safe techniques for removing wastes from sinkholes, according to Mehar Saini, an



environmental engineer with the agriculture department's division of soil conservation.

Sinkhole sites in Mitchell and Winneshiek counties were chosen for the demonstration project.

There are an estimated 13,700 sinkholes in northeastern Iowa, Saini said. The sinkholes provide a channel for surface water to flow directly into underlying aquifers. Many sinkholes have been used as dump sites with possible aquifer contamination occurring from some of the waste materials, Saini said.

The Department of Agriculture and Land Stewardship is studying how to clean out sinkholes and the problems encountered when removing and properly disposing of the trash, Saini said during a recent informational meeting in Decorah.

The department will take the information gathered from the two test sites and develop a plan for cleaning out sinkholes, Saini said.

Steve Downing, owner of Downing Construction in Decorah, was the contractor hired to clean the trash out of the two sinkholes. Prior to the demonstration projects, Downing had never cleaned out sinkholes, although he had filled some.

At the Winneshiek County site, Downing used five dump trucks, a crawler loader, a backhoe and an excavator to clean up the sinkhole. The project took seven workers.

"Old televisions, freezers, motorcycle frames," Downing said of the trash in the 35-foot deep sinkhole. "You name it, it's there."

In a telephone interview, Bill

Nicholas, a natural resources engineer with the ag department's division of soil conservation, said that at both sites it was obvious that the sinkholes had been used as neighborhood dumps. Neither site showed evidence of recent dumping, he said.

Among the debris pulled out of the Mitchell County sinkhole on land owned by Scott Davenport Farms were 450 pesticide containers. At least 50 of the containers still contained pesticide residue and had to be rinsed before they could be disposed of. Only about 14 pesticide containers were found at the Decorah site owned by Ross and William Merritt. None contained residue.

Disposal of the pesticide containers was the biggest problem encountered while cleaning out the sinkholes, Nicholas said. He explained that landfills cannot accept wet pesticide containers unless they have been triple rinsed.

"Since we found a variety of pesticide containers, we had to separate them by brand for rinsing and then what do you do with the rinsate?" Nicholas asked.

With assistance from the Iowa Fertilizer and Chemical Association, the ag department worked out an agreement with the Osage Co-operative Elevator. The co-op took the rinsate by brand for mixing and application on fields next spring.

Brands of pesticide cans found at the Mitchell County site included Lasso, Amiben, Sutan, Treflan, 2-4D and Conklin, Saini said.

The motors and compressors were removed from the appliances, which were then crushed for recycling. Three truckloads of steel — 20 tons from the Mitchell County site and 10 tons from the Winneshiek County site — were taken to a steel recycling firm in Le Roy, Minn.

Twenty-three truckloads of trash from the Mitchell County site and 43 truckloads from the Winneshiek County site went to landfills. There were 99 tires disposed of from the Mitchell County site, and 125 tires from the Winneshiek County site.

All were taken to landfills and separate per-tire fee was paid.

Total cost for cleaning up the sinkholes was \$6,500 in Mitchell County and \$7,000 in Winneshiek County, Saini said that 12 public and private organizations cooperated in the clean-up project.



Minnesota Forage and Grassland Council

..... an affiliate of the American Forage and Grassland Council

January 12, 1990

TO: Jim Birkholz, Executive Director
Board Members Minnesota Board of Water and Soil Resources

FROM: Gary Weness
Gary Weness
MFGC Minute Man Committee Member

RE: Support for a University of Minnesota Extension Agronomist-Grazing Position

A coalition of the Minnesota Forage and Grassland Council, County and/or Area Forage Councils and agribusiness through the Extension/Seed Industry Advisory Committee will be going to the 1990 State Legislature to request funding of an Extension Agronomist position to work on applied research and demonstrations for grazing lands within Minnesota. Enclosed find support information for this request including a brief summary of the coalitions actions to date (Enclosure A), a justification statement for the request (Enclosure B), and a brief description of position and support being requested (Enclosure C).

We believe the Minnesota Dairy Task Force Report will recommend that the Legislature support this request. In addition we believe that Senator Charles Davis, chair of the Senate Agriculture Committee, will sponsor this legislative request.

We are now providing information concerning this effort to agencies and organizations such as yours and enlist your support to fund this position with a focus on grazing lands. This position will have a favorable economic impact for Minnesota forage producers and a positive effect on conserving our natural resources.

1989
County or Area
Forage Councils

Goodhue CFC
Courthouse
Red Wing 55068

Houston CFC
Courthouse
Caledonia 55921

Winona CFC
Courthouse
Winona 55987

Wabasha CFC
Courthouse
625 Jefferson Ave
Wabasha 55981

Oristad CFC
1421 SE 3rd Ave
Rochester 55904

Dakota CFC
4100-220th St West
Farmington 55024

Central Minnesota CFC
2700 1st Street North
St Cloud 56301

Steele CFC
520 Dunbar Drive
P.O. Box 890
Owatonna 55060

Dodge CFC
Box 159 Main St
Dodge Center 55927

East Central CFC
Courthouse
18 N. Vine
Mora 55051

South Central CFC
219 E. Frontage Rd
Wadena 55387

Cass-Hubbard-Wadena CFC
Courthouse
Wadena 56482

Male Lake CFC
County Office Bldg
Male Lake 56353

Minnesota Valley CFC
Courthouse
LeCenter 56037

Farmers CFC
Masonic Building
Preston 55965

Northwestern CFC
109 Washburn Hall
2305 E 5th Street
Duluth 55812

Greenwater CFC
Rt 1, Box 18
Bagley 56021

Jace CFC
Courthouse
Faribault 55021

Becker-Olmsted CFC
1000 8th St SE
Detroit Lakes 56501

North Central CFC
Old Courthouse
Little Falls 56345

Todd CFC
Courthouse Annex
Long Prairie 56347

West Central CFC
905 West Litchfield
P.O. Box 977
Winnetka 56201

Norman-Mahnomen CFC
Norman City Office Bldg
Ada 56510

Douglas Pope
Courthouse
Alexandria 56308

Tri County CFC
Pine County Est. Office
P.O. Box 307
Hindley 55037

Koochichewi CFC

Attachment A

Summary Actions Taken in Grazing Position

1. Support for the position by the Department of Agronomy and Plant Genetics.
 - a. An External Review Team in March of 1978 recommended additional support for Extension Forage Programs.
 - b. The current list of needed positions for Agronomy and Plant Genetics submitted to the College of Agriculture contains Extension agronomist-grazing. Agronomy has not added a new position in the last fifteen years.
2. On June 22, 1988 an Ad Hoc Committee of the Minnesota Forage Extension/Seed Industry Advisory Committee chaired by Glen Christianson, Cenex/Land O'Lakes, presented this proposal to add a grazing specialist plus support to Agronomy and Plant Genetics to Minnesota Extension Service and College of Agriculture Administration. The College of Agriculture decided this proposal was not important enough with respect to other needs of the College and University to be added to the University's Request to the Minnesota Legislature.
3. On February 23, 1989 the Minnesota Forage and Grassland Council passed a resolution addressed to the Minnesota Dairy Task Force in support of the request for a grazing specialist and support. In addition, East Central Forage and Grassland Council, North Central Forage and Grassland Council and Houston County Forage and Grassland Council added resolutions.
4. In March of 1989, Lisa Axton, Allen Jackson, Gary Weness and Wesley Cashman submitted written testimony at two Dairy Task Force Hearings.
5. On September 8, 1989 Linda Rotz, chairperson of Minnesota Dairy Task Force stated in a meeting with Minnesota-Wisconsin Forage Extension/Seed Industry Advisory Committee and Senator Charles Davis that the Minnesota Dairy Task Force will recommend to the Minnesota Legislature to support the request for an extension agronomist-grazing position plus support at the University of Minnesota, St. Paul, MN.
6. Glen Christianson presented Senator Charles Davis with the justification statement for the request and outlined a proposed advisory committee to guide forage extension programs at the University of Minnesota.
7. Now the county and area forage council or other organizations supporting this request should contact their legislators to voice their feelings.

FORAGE MANAGEMENT TECHNOLOGY TRANSFER WITHIN THE STATE OF MINNESOTA

ECONOMICS

The conservative estimated value of increasing quantity and quality values of alfalfa hay production in Minnesota amount to an estimated 110,000,000 dollars per year. The conservative value of increasing profitability on just 25% of Minnesota's grazing lands is calculated to be 820,000,000 dollars per year. The total value of utilizing the existing and new technology on forages and grazing lands approaches \$1 billion dollars (\$930,000,000) per year. If the one billion is turned over in our rural economy seven times, this amount to a seven billion dollar opportunity for Rural Minnesota. Can the State of Minnesota afford not to invest in this program?

PART I

The direct yearly investment we are asking the state to make is approximately \$225,000/year. This investment would be in the form of a second Forage Extension Specialist at the University of Minnesota. This would enable Dr. Neal Martin the current Extension Agronomist to focus on forages and the proposed new Extension Agronomist to focus on grazing lands. Both of these areas are critical to the above mentioned forage economics of this state. These two specialists would work with the proposed Forage Task Force representatives and their constituents to implement a program that will facilitate the adoption of current and new technology.

PART II

The second aspect of this proposal is to set up a Minnesota Forage Task Force that would provide direction and leadership within the state to accomplish this technology transfer. We are proposing that a nine member Forage Task Force be established. This Forage Task Force would have qualified representatives from all major facets of the Forage Industry within the state, represented.

MINNESOTA FORAGE TASK FORCE

PURPOSE

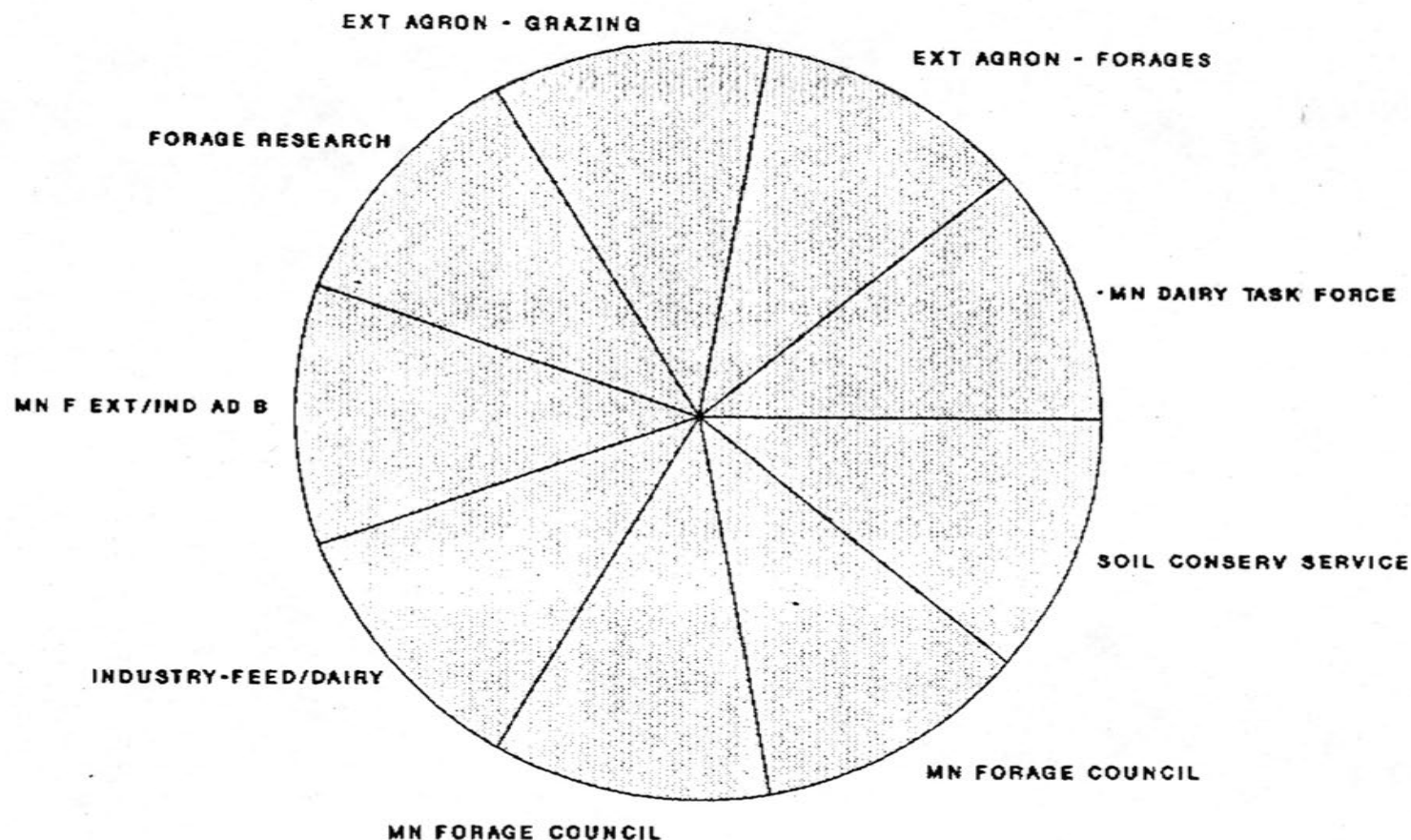
Develop a program in conjunction with Extension, Industry and the Minnesota Forage & Grassland Council to assist producers to understand, adopt and implement current and new forage technology (technology transfer) to improve profitability.

- o Focus on the Forage Priorities
- o What Information Must Be Communicated
 - Prioritize
- o How Should Information Be Communicated
- o Who Will Be Involved In Specific Activities
- o Time Table For Action
- o How & When Can Results Be Measured Against Established Goals & Objectives

The attached illustration gives an example of who would be proposed as the representatives to serve on this Task Force.

PROPOSED MN FORAGE TASK FORCE

NINE MEMBERS



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USDA-SCS

05

Extension Agronomist-Grazing Lands
and support for
Extension Agronomist-Forages

Minnesota has at least 25% of its current farmland acreage committed to forage production and grazing lands.

Grazing Lands (75% extension, 25% research)

This position will have applied research and demonstration responsibility for grazing lands within Minnesota. Entire statewide responsibility is expected to work on solving low productivity and low profitability of at least 4 million acres of grazing lands. Clientele contacts will be with horse owners, sheep operators, beef cow-calf operators, cattlemen and dairymen. This faculty position will be able to work cooperatively with researchers in Agronomy and Plant Genetics, Animal Science and other related Departments. Interaction with other government agencies, in particular with the Soil Conservation Service, is expected. This position must address the productivity and profitability of CRP acreages eligible to return to farm use in 1994 and 1995. This position will interact with extension agronomist-forages and specialists in other departments in developing a statewide plan of work on grazing lands and forage crops. It is expected that growers demonstration activities will be established with county agents, industry representatives, and other agency personnel. The opportunity exists to work with 24 area or county forage councils.

Forages

The current extension agronomist-forage position in the Department of Agronomy and Plant Genetics will have applied research and demonstration responsibility for harvested forage crops. Almost 3 million acres of farmland in Minnesota is utilized as hay, haylage or silage. Primary clientele contacts will be with dairymen, commercial hay producers, sheep operators, and cattle feeders. This position will conduct applied research cooperatively with the Department of Animal Science (dairy nutrition), Department of Agricultural Engineering, Department of Agronomy and Plant Genetics and other related departments. Emphasis will be placed on developing alfalfa as a cash crop for export. Educational activities will be with large cash volume operators, industry representatives, county agents, government agencies, MFGC (Minnesota Forage and Grassland Council), and NHA (National Hay Association).

Support

This request, \$225,000 per year, is expected to provide:

- 1) A technician to support the grazing lands position.
- 2) At least \$15,000 per year operating budget for the grazing lands position.
- 3) At least \$20,000 per year operating budget for the harvested forage position.
- 4) At least \$40,000 per year for personnel for quality testing, standardization of testing and dairy nutrition education.

Additional grant funds and user fees will be used to complete support for both positions.

Table 1

WATERSHED DISTRICTS
SUMMARY OF FY88
STATEMENT OF REVENUES AND EXPENDITURES

WATERSHED DISTRICT	REVENUE			EXPENDITURES			EXCESS REVENUES (EXPENDITURES)
	INTEREST	OTHER	TOTAL REVENUE	PERSONAL SERVICES	OTHER SERVICES AND CHARGES	TOTAL EXPENDITURES	
BEAR VALLEY	\$546.28	\$11,399.29	\$11,945.57	\$602.75	\$2,100.60	\$2,703.35	\$9,242.22
BELLE CREEK	\$11,953.00	\$5,966.00	\$17,919.00	\$1,307.00	\$15,524.00	\$16,831.00	\$1,088.00
BOIS DE SIOUX	?	?	\$23,446.58	\$5,471.06	\$17,782.31	\$23,253.37	\$193.21
BUFFALO CREEK	\$5,812.14	\$37,206.38	\$43,018.52	\$21,508.58	\$4,935.48	\$26,444.06	\$16,574.46
BUFFALO-RED RIVER	\$65,283.00	\$1,533,842.00	\$1,599,125.00	\$275,214.00	\$1,105,830.00	\$1,381,044.00	\$218,081.00
CARNELIAN-MARINE	\$2,134.00	\$21,739.00	\$23,873.00	\$19,426.00	\$7,573.00	\$26,999.00	(\$3,126.00)
CLEARWATER	\$10,700.00	\$328,648.00	\$339,348.00	\$49,758.00	\$277,378.00	\$327,136.00	\$12,212.00
COOKS VALLEY (from their report)			\$0.00	\$30.00		\$30.00	(\$30.00)
COON CREEK	\$16,955.00	\$419,751.00	\$436,706.00	\$173,853.00	\$311,429.00	\$485,282.00	(\$48,576.00)
CORMORANT LAKE	\$177.00	\$5,061.00	\$5,238.00	\$3,088.00	\$1,055.00	\$4,143.00	\$1,095.00
CROOKED CREEK		\$7,154.64	\$7,154.64	\$5,659.52		\$5,659.52	\$1,495.12
HIGH ISLAND (No report provided)			\$0.00			\$0.00	\$0.00
JOE RIVER	\$25,983.09	\$40,323.62	\$66,306.71	\$2,962.32	\$33,326.95	\$36,289.27	\$30,017.44
KANARANZI-LITTLE ROCK	\$1,885.76	\$29,871.88	\$31,757.64	\$11,890.51	\$8,874.40	\$20,764.91	\$10,992.73
LAC QUI PARLE-YELLOW BANK	\$1,292.89	\$341,181.50	\$342,474.39	\$14,121.92	\$280,021.77	\$294,143.69	\$48,330.70
LOWER MINNESOTA RIVER	\$38,447.00	\$123,398.00	\$161,845.00	\$118,659.00	\$31,793.00	\$150,452.00	\$11,393.00
MIDDLE DES MOINES	\$8,595.07	\$42,364.90	\$50,959.97	\$29,361.80	\$16,010.96	\$45,372.76	\$5,587.21
MIDDLE SNAKE RIVER	\$66,564.47	\$665,222.91	\$731,787.38	\$202,164.88	\$561,187.72	\$763,352.60	(\$31,565.22)
MINNEHAHA CREEK			\$265,223.00	\$145,291.00	\$51,492.00	\$196,783.00	\$68,440.00
NINE MILE CREEK	\$102,854.00	\$623,710.00	\$726,564.00	\$208,188.00	\$57,698.00	\$265,886.00	\$460,678.00
NORTH FORK CROW RIVER	\$2,000.20	\$74,335.58	\$76,335.78	\$5,791.23	\$61,478.22	\$67,269.45	\$9,066.33
OKABENA-OCIEDA			\$0.00			\$0.00	\$0.00
PELICAN RIVER (No report provided)			\$0.00			\$0.00	\$0.00
PRIOR LAKE-SPRING LAKE	\$98,531.89	\$1,505,174.40	\$1,603,706.30	\$526,709.35	\$965,058.45	\$1,491,767.80	\$111,938.50
RAMSEY-WASHINGTON METRO	\$6,914.00	\$124,569.00	\$131,483.00	\$154,654.00	\$30,504.00	\$185,158.00	(\$53,675.00)
RED LAKE	\$105,868.00	\$93,836.70	\$199,704.70	\$95,073.00	\$902,791.00	\$997,864.00	(\$798,159.30)
RICE CREEK (No report provided)			\$0.00			\$0.00	\$0.00
RILEY-PURGATORY-BLUFF CREEK	\$6,587.96	\$879,592.84	\$886,180.80	\$221,202.89	\$669,061.77	\$890,264.66	(\$4,083.86)
ROSEAU RIVER	\$27,362.60	\$71,280.80	\$98,643.40	\$26,825.82	\$41,680.64	\$68,506.46	\$30,136.94
SAND HILL RIVER	\$27,356.75	\$260,225.05	\$287,581.80	\$86,885.14	\$166,386.60	\$253,271.74	\$34,310.06
SAUK RIVER	\$2,028.00	\$165,516.00	\$167,544.00	\$42,634.00	\$59,152.00	\$101,786.00	\$65,758.00
SOUTH TWO RIVER	\$607.46	\$28,745.66	\$29,353.12	\$4,096.08	\$6,143.62	\$10,239.70	\$19,113.42
STOCKTON-ROLLINGSTONE-MINNESOTA CITY (No report provided)			\$0.00			\$0.00	\$0.00
THE TWO RIVERS	\$18,629.43	\$191,291.51	\$209,920.94	\$82,941.17	\$80,253.14	\$163,194.31	\$46,726.63
THIRTY LAKES	\$1,661.00	\$27,593.00	\$29,254.00	\$7,937.00	\$15,544.00	\$23,481.00	\$5,773.00
TURTLE CREEK	\$1,089.00	\$11,817.00	\$12,906.00	\$7,001.00	\$5,673.00	\$12,674.00	\$232.00
UPPER MINNESOTA RIVER	\$2,239.88	\$237,986.41	\$240,226.29	\$78,885.63	\$142,037.43	\$220,923.06	\$19,303.23
VALLEY BRANCH	\$12,902.00	\$246,724.00	\$259,626.00	\$118,020.00	\$65,173.00	\$183,193.00	\$76,433.00

WATERSHED DISTRICTS
SUMMARY OF FY88
STATEMENT OF REVENUES AND EXPENDITURES

WATERSHED DISTRICT	REVENUE			EXPENDITURES			EXCESS REVENUES (EXPENDITURES)
	INTEREST	OTHER	TOTAL REVENUE	PERSONAL SERVICES	OTHER SERVICES AND CHARGES	TOTAL EXPENDITURES	
WARROAD <i>(No report provided)</i>			\$0.00			\$0.00	\$0.00
WILD RICE	\$48,767.75	\$1,551,901.22	\$1,600,668.97	\$217,481.23	\$786,197.97	\$1,003,679.20	\$596,989.77
YELLOW MEDICINE RIVER	\$22,344.23	\$535,641.22	\$557,985.45	\$19,840.88	\$571,376.46	\$591,217.34	(\$33,231.89)
TOTALS	\$744,072.85	\$10,243,070.51	\$11,275,812.95	\$2,984,535.76	\$7,352,523.49	\$10,337,059.25	\$938,753.70