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ABOUT THIS MATRIX

This Matrix is a guide to the many state and federal land and water management programs operating in Minnesota. It provides basic information designed to be useful to local water planning coordinators, Soil and Water Conservation District staff, lake association members, local government officials and staff, and federal, state and local agency staff that may make use of these programs to manage resources in the state.

The body of the Matrix is organized by resource type, with programs categorized under the major headings of Surface Waters (including Wetlands, Lakes, and Streams), Ground Water, and Terrestrial Programs (Agriculture, Forestry, Natural Areas, Minerals, and Parks and Trails). The major reference to each program is listed once, under the major resource type that the program serves. Cross-reference are included under other categories to the main reference.

Within each resource category, programs are organized by management function, including:

- Protection/Regulation,
- Enhancement/Restoration,
- Acquisition/Easements,
- Inventory/Classification,
- Monitoring/Assessments,
- Technical Assistance,
- Training, and
- Information/Education.

Cross-references are provided when the program addresses more than one of these functions.

To help you navigate through this maze of programs we have provided:

- an index that includes references by program name, agency, and key words such as "wildlife;" and
- a list of acronyms and their respective meanings

The references in the matrix provide basic information about state and federal land and water management programs, including:

- agency name,
- a contact position and phone number,
- program name and description,
- legislative or legal basis for the program,
- funding, and
- **a** summary of how the program is delivered.

Agencies and program staff should be contacted for more detailed information about program guidelines, eligibility, etc., or about local programs that are not listed in this Matrix.

While the task force that put the matrix together made every reasonable effort to include all state and federal programs, the possibility that some may have been overlooked does exist. If you have any questions or comments about the matrix, please direct them to John Pauley, Minnesota DNR Planning, (612) 296-1548.

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WETLANDS



I. SURFACE WATERS

A. Wetlands

1. Protections / Regulation

Agency Name	Program	Authority	Funding	Program Delivery
ASCSand SCS County offices, or State ASCS Office for general information: (612)290-3650	Swampbuster Program: prohibits agricultural producers receiving USDA program benefits from planting on converted wetlands (includes wetlands converted after 12/23/85). Producers receiving USDA program benefits must certify activities regarding wetlands each year. Agencies provide technical assistance in wetlands determinations.	Federal Register	Annual Congressional appropriation to ASCS	Program delivered jointly through county ASCS/SCS offices. ASCS administers the program, and SCS provides technical expertise and assistance to landowners.
BWSR	Wetland Conservation Act: provides protection to wetlands that are not protected	Wetland Conservation Act of 1991, Chapter 354	State General Fund	Local governments and watershed management organizations certify
Wetlands Specialist (612) 297-3432	by other state and federal programs. Includes Wetland Preservation Areas to protect priority wetlands and tax incentives to landowners. (The Act includes some exemptions.) Permanent program to begin 7/1/93.			exemptions and approve replacement plans. DNR and local government licensed peace officers enforce the Act.
DNR Area Wildlife Managers	Migratory Waterfowl Feeding and Resting Areas Program: designates and protects wetlands that provide feeding and resting habitat for ducks, geese, other migratory waterfowl and wildlife. Some uses of these areas are restricted to minimize human disturbance.	MN Statutes 97A.145	Duck Stamp revenues and State General Fund	DNR Area Wildlife Managers identify and designate refuge sites.
DNR Area Hydrologists, or Division of Waters: (612)296-4800	Protected Waters & Wetlands Permit Program: requires a for activities that will change or diminish the course; current or cross- section of wetlands or streams that are designated as protected waters or wetlands by the DNR. Scope: Approx. 1000 permits are processed yearly.	MN Statutes 103G.101- 103G.315; MN Rules 6115.0150 - 6115.0280	Permit application fees go to the General Fund and are then appropriated to DNR Division of Waters.	DNR Regional offices process permit applications. Area hydrologists review applications and make recommendations for their respective areas. Permits are approved, modified or denied at Regional or Central Office depending on permit type.

1. Protections / Regulation

Agency Name	Program	Authority	Funding	Program Delivery
DNR Area Hydrologists, or Division of Waters Permit Coordinator: (612)296-48(X)	Water Appropriation Permit Program: requires permits for appropriations of surface or ground water exceeding 10,000 gallons per day or 1 million gallons per year. Includes surface waters in lakes, wetlands and streams. Scope: Approximately 1000 permits are processed yearly.	MN Statutes 103G.255 to 103G.297; MN Rules 6115.062	Permit application fees go to the General Fund and are then appropriated to the DNR Division of Waters.	DNR Regional offices process permit applications. Area hydrologists review applications and make recommendations in their respective areas. Permits are approved, modified, or denied at the Regional or Central Office, depending on permit type.
MPCA Water Quality Division (612)296-7202	Feedlot Program: requires the owner of a proposed or existing feedlot of 10 or more animal units (10 steers, 1,000 chickens, etc.) to apply for an MPCA permit when a new feedlot is proposed, a change in an existing feedlot is proposed, ownership changes, a federal permit is required, or an investigation of a complaint reveals a pollution problem.	Clean Water Act, Section 402; MN Statutes 116.07; MN Rules 7020; MN Rules 7001	Federal 106 and Federal 319 Funds	The MPCA reviews applications by examining the livestock facility for potential pollution problems; for example, when the facility's boundaries are located within shoreland or a flood plain, near a well, or in an area draining into a sinkhole. The feedlot review process results in issuance of a certificate of compliance, an interim permit, an NPDES permit or a five-year feedlot permit.
MPCA Water Quality Division: (612)296-7202	National Pollutant Discharge Elimination System (NPDES) Permit Program: regulates point source discharges into waters of the United States, including wetlands, lakes and streams. The MPCA is delegated by the U.S. Environmental Protection Agency (EPA) to issue these permits. Effluent limits are assigned in each permit for oxygen demand, solids, pathogens, nutrients, temperature, toxics, and other pollutants.	Clean Water Act, Section 40240 CFR 122-124; MN Statutes 115.07 Sub. 1 MN Statutes 116.081; MN Rules 7050; MN Rules 7001; Executive Order 91-3	Federal 106 Fund; Permit Fees; State General Fund	An applicant applies to the MPCA at least 180 days prior to commencing construction of a facility that would result in a point source discharge to waters of the United States. Agency staff review the application and may require an environmental review of the proposed project. Permits are typically issued for 5 years.

1. Protections / Regulation (Cont.)

Agency Name	Program	Authority	Funding	Program Delivery
MPCA Water Quality Division: (612)296-7202	Water Quality Certification Program: requires that an applicant for federal permits or licenses for a project that may affect water quality obtain a certification from MPCA that water quality standards will be met before the license or permit may be granted. The majority of applications include construction projects which involve physical alterations of wetlands.	Clean Water Act, Section 401; MN Statutes 116.07; MN Rules 7050; MN Rules 7001.14001470; Executive Order 91-3	State General Fund; Federal 106 Fund	An applicant may apply directly to the MPCA for a water quality certification, or the federal agency granting the permit or license may notify the MPCA of the application through public notice or other formal notification.
U.S. Army Corps of Engineers - St. Paul District Permit Analysis Section: (612) 220-0367	The Corps of Engineers Regulatory Program: regulates the discharge of dredged or fill material into the "waters of the United States" -including wetlands, lakes and streams. The Corps regulates more wetland types than the DNR. Permits are often denied for projects that would alter wetlands, without a clear demonstration that no feasible alternative exists. Mitigation may be required to meet "no net loss" of wetlands policy.	Section 404 of the Federal Water Pollution Control Act, Amendments of 1972 (PL 92-500, the "Clean Water Act").	Annual Congressional appropriation. Permit fees may be required depending on the nature and scope of the project.	Permit applications are received at the St. Paul District Office. Regional contacts are available throughout the State. The Corps has issued a number of nationwide permits for minor activities which require little or no individual review. The Corps and the DNR have developed a general permit for certain projects that require both Corps and DNR permits.

See Also DNR -	Shoreland Management Program Page 18
See Also MPCA -	Individual Sewage Treatment Systems (ISTS) Program Page 19
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Agency Name	Program	Authority	Funding	Program Delivery
ASCS and SCS County ASCS/SCS Offices, or State ASCS Office for general information: (612)290-3650	Water Bank Program: provides annual payments and assistance to landowners to protect and enhance wetlands and surrounding uplands by enrolling them for 10 years in the Program. Technical assistance provided in developing and implementing contracts.	Federal Register	Congressional appropriation	Landowners request participation at county ASCS/SCS offices in eligible counties. ASCS administers the program and makes contract payments to landowners. SCS staff provide technical assistance.
ASCS - SCS County SCS Offices or State Resource Conservationist: (612)290-3670	Wetland Reserve Program. Assistance to landowners to develop and implement plans to retire or restore wetlands with a cropping history.	FACTA 1990	Federal funds. Technical assistance funded 100%.	Landowners sign up at county ASCS offices. Bids are accepted based on national criteria and competition. Technical assistance and costshare available to enhance/restore wetlands. Contact county offices for information and assistance.
BWSR Grants Coordinator: (612) 297-7361	BWSR Cost-Share Program: provides financial assistance to landowners and operators for installation of erosion, sediment, and water quality control projects. Wetlands enhanced or restored to improve water quality may be eligible for this program.	MN Statutes 103C.501; MN Rules 8400	Congressional appropriation. Cost-share with landowners up to 75% of total cost for high priority erosion and water quality problems.	Administered by BWSR at the state level; administered locally through Soil and Water Conservation Districts. Applications taken at SWCD offices year-round.
BWSR Grants Coordinator: (612) 297-7361	BWSR Special Projects: provide cost-sharing to landowners and local units of government for projects such as wetlands restorations or enhancements done as part of a demonstration or special purpose project.	MN Statutes 103C.501; MN Rules 8400	State General Fund	Administered by the BWSR at the state level; administered locally through Soil and Water Conservation Districts. Applications are taken once per year; deadline is in April.
BWSR Easement Coordinator: (612) 297-7965	Reinvest in Minnesota (RIM) Wetland Restoration Program: to restore drained or altered wetlands in agricultural areas of the state. Upon restoration the wetland must be protected with a perpetual easement with the State of Minnesota.	MN Statutes 103F.501 -103F.535	State legislature allocated \$5.6 million for the 1992 - 93 biennium. Landowner payment for restoration is 100% of cost up to \$300 per acre. Payments to landowners for perpetual easements are 90% of estimated market value of ag-land in township.	Administered by the BWSR at the state level; administered locally through Soil and Water Conservation Districts. Application period determined annually.

Agency Name	Program	Authority	Funding	Program Delivery
BWSR Easement Coordinator (612) 297-7965	Wetland Establishment & Restoration Program: allows landowners to apply to counties or local watershed management organizations for assistance to restore or enhance wetlands in identified high priority areas.	Wetland Conservation Act of 1991, Chapter 354, Article 5.	No appropriation. Local governments can apply to BWSR for cost-sharing on restoration for up to 50% of the total cost, not to exceed \$20,000.	Landowners apply to counties or local watershed management organizations.
DNR Area Wildlife Managers	Forestry Stewardship Program: funds the costs of wildlife habitat restoration projects on wetlands in forested areas. A cooperative program between DNR Wildlife and DNR Forestry.	MN Statutes 97A.145	US Forest Service federal grant funds	Local Area Wildlife Manager or Foresters provide information and assistance to interested landowners and local governments.
DNR Area Fisheries Supervisors	Northern Pike Spawning Area Program: develops controlled Type II wetlands adjacent to lakes and streams as northern pike spawning and nursery habitat by diking and manipulating water levels. Most sites are less than 15 acres, and selected where natural spawning habitat is limited or lost to drainage or shoreland development.	MN Statutes 97A.135, 97A.141 and 97A.145	Fishing license fees; Federal Aid in Sport Fishing Restoration; and Reinvest in Minnesota (RIM) Funds	Area Fisheries Supervisors identify sites for acquisition and development. Fisheries staff operate ponds to produce northern pike fingerlings.
DNR Area Wildlife Managers	Private Lands Wetland Restoration Program: assistance provided to private landowners to restore wetlands and improve associated upland areas for wildlife habitat.	MN Statutes 97A.145	RIM and Pheasant Stamp revenues	Contact Local Area Wildlife Manager for information and assistance.
DNR Area Wildlife Managers	Wetland Reserve Supplement Program: provides supplemental state funds to private landowners participating in the federal Wetland Reserve Program to cover costs of wetlands restoration and habitat improvement for wildlife. A one-year pilot program (1992).	MN Statutes 97A.145	Pheasant Stamp revenues	Local ASCS offices provide information and assistance. State funds are administered with federal Wetland Reserve funds.

Agency Name	Program	Authority	Funding	Program Delivery
DNR Area Wildlife Managers	Wildlife Habitat Enhancement on Wildlife Management Areas (WMAs) Program: improves wildlife habitat through wetlands restoration, addition of cover grasses, and development of upland habitat areas.	MN Statutes 97A.145	Waterfowl Stamp revenues and surcharge on hunting licenses	Local Area Wildlife Managers identify or suggest projects.
DNR Area Wildlife Managers	Wildlife Lakes Designation and Enhancement Program: designates and enhances wetlands and lakes for wildlife management based on habitat suitability. These are generally shallow public waters with a history of wildlife use and public access.	MN Statutes 97A.145	Duck Stamp revenues	Local Area Wildlife Managers select appropriate lakes and develop and implement management plans.
MPCA Water Quality Division: (612)296-7202	Clean Water Partnership Program: provides matching grants and technical assistance to local governments to lead watershed management projects to protect and improve wetlands, lakes, streams and/or ground water degraded by nonpoint sources of pollution. Requires identification of pollution problems and causes, development of a plan, and implementation of best management practices.	Clean Water Partnership Act; MN Statutes 103F.701; MN Rules Chapter 7076	Local governments provide a 50/50 match to State funds.	Local governments apply to the MPCA on an annual application cycle to conduct a project directed at protecting a specific water resource (lake, stream, aquifer, wetland, and/or combination of these). The applications are ranked and the projects selected develop a workplan and monitoring plan approved by the MPCA. The local government then may apply for funds to implement their project.
SCS Water Resources Staff Leader: (612)290-3682	PL-566 Watershed Program: assists local organizations to develop and carry out watershed plans. Projects may include watershed protection, flood prevention, erosion & sediment control, ag waste mgmt, water quality & fish, wildlife, & recreation development.	Public Law 83-566	Federal funds. Technical assistance funded 100%. Costshare varies from 50% to 100% depending on project purpose.	Local organizations request assistance from County SCS Offices through State SCS Office, Water Resources Section, 375 Jackson St., Suite 600, St. Paul, MN 55125.
U.S. Army Corps of Engineers, St. Paul District Planning Division: (612) 220-0402	Project Modification for Improvement of the Environment Program: authorizes the Corps of Engineers to make structural or operational modifications to restore fish and wildlife resources on completed Corps projects.	Section 1135 of the 1986 Water Resources Development Act (PL 99-662).	Congress provides program funding to the Corps of Engineers. A non-Federal sponsor must pay 25% of the study and implementation costs and 100% of the operation and maintenance cost.	Corps District Office staff coordinate the Proposed project modifications with the non-Federal sponsor and submit plans to higher headquarters for funding approval.

2. Enhancement / Restoration

Authority Funding **Program Delivery Agency Name** Program The Minnesota Steering Committee, comprised of federal, state and private North American Waterfowl Federal funds are available from USFWS North American Waterfowl Management Plan; U.S. Fish and Wildlife Service Management Plan (NAWMP): the North American Wetlands Wildlife Assistance Office: focuses on developing Conservation Act. partners, coordinates NAWMP partnerships called "joint authorities projects in Minnesota. (612)253-4682 ventures" between federal, state, Additional information can be local and private interests to obtained by contacting the U.S. restore, protect and enhance Fish and Wildlife Service, Wildlife Assistance Office, wetland habitats. Land Federal Bldg, Room 23, 720 St. Germain, St. Cloud, MN acquisition and/or easements are often used in combination with wetland enhancement projects 56301. to protect aquatic resources. U.S. Fish and Wildlife Service Congressional appropriation to USFWS Partners for Wildlife Landowners interested in USFWS. Partnerships have also **Program:** restores and Authorities wetland restoration or enhances fish and wildlife been formed between the enhancement activities can habitats, including wetlands, on Service and other federal, state contact the U.S. Fish and Wildlife Assistance Office: and local organizations to fund private lands at no cost to the (612)253-4682 Wildlife Service, Wildlife landowner. Landowners must private lands activities. Assistance Office, Federal sign an agreement which Building, Room 23, 720 St. protects the wetland project for Germain, St. Cloud, Minnesota. a ten-year period. This program 56301. can be used in conjunction with other federal, state or local habitat programs. Includes technical assistance for enhancement activities.

See Also SCS -

Conservation Reserve Program (CRP) Page 64

3. Acquisition / Easements

Agency Name	Program	Authority	Funding	Program Delivery
BWSR Wetlands Specialist: (612) 297-3432	Permanent Wetland Preserves Program: acquires perpetual conservation easements for existing Type 1, 2, and 3 wetlands.	Wetland Conservation Act of 1991, Chapter 354.	State bonding funds	Administered at the state level by BWSR; administered locally by Soil and Water Conservation Districts.
DNR Area Wildlife Managers	Consolidated Conservation Lands Program: acquires wetlands through tax forfeiture for development of wildlife habitat.	MN Statutes 97A.145	Lands transferred at no cost to DNR.	Local Area Wildlife Managers identify and acquire properties.
DNR Area Wildlife Managers	Land Acquisition for Wildlife Management Areas Program: acquires existing or drained wetlands and associated upland areas in fee title for Wildlife Management Areas.	MN Statutes 97A.145	RIM; surcharges on hunting licenses; private donations; federal grant funds; and LCMR funds.	Local Area Wildlife Managers develop a prioritized list of acquisition sites and implement this program.
USFWS Division of Realty: (612)725-3564	Acquisition/Easement Program: protects and conserves fish and wildlife habitats through fee title acquisition or easements from willing sellers. Includes habitats adjacent to lakes, streams, and wetlands, such as spawning areas, riparian corridors, and waterfowl production areas.	Fish and Wildlife Act of 1956; Endangered Species Act of 1973	Land and Water Conservation Act Funds	Fish and Wildlife Service field offices in Minnesota propose habitats for acquisition or easements. Service personnel identify significant fish and wildlife habitats and negotiate with landowners on a willing seller basis.
USFWS Minnesota Waterfowl and Wetland Management Complex: (218)739-2291	Small Wetlands Acquisition Program, National Wildlife Refuge System: acquires lands or perpetual easements on lands for use as migratory bird refuges and waterfowl production areas. Emphasis on the Prairie Pothole Area in Minnesota. The acquisition of lands or interests are done entirely on a willing seller basis.	Migratory Bird Hunting and Conservation Stamp Act of 1934; Wetlands Loan Act; National Wildlife Refuge System Administration Act; Refuge Revenue Sharing Act; Federal Aid to Wildlife Restoration Act.	Funding is provided by the sale of Migratory Bird Conservation Stamps (Federal Duck Stamps), or separate Congressional appropriation. Fee title acquisition payments are 100% of proposed land values. Easement payments are approximately 60% of local land values and restrict draining, burning and filling activities.	Wetland acquisition/easements are handled by a number of Fish and Wildlife Service field offices in Minnesota. Managers identify significant waterfowl habitat areas and negotiate with landowners. Information can be obtained by contacting the U.S. Fish and Wildlife Service, Minnesota Waterfowl and Wetland Management Complex, Route 1, Box 76, Fergus Falls, MN 56537.

3. Acquisition / Easements

Agency Name USFWS Program Coordinator located at Izaak Walton League: (612)221-0215

Minnesota Partners for Wetlands Program: provides permanent protection to wetlands and adjacent uplands restored under the Partners for Wildlife Program. Sponsored jointly by the Izaak Walton League, BWSR, LCMR, and USFWS. Cost-share funds are available to establish permanent vegetative cover.

Program

Authority

Existing authorities of each participating agency.

Funding

\$400,000 grant from the LCMR to fund this pilot program through June 30, 1993. Payment rates are the same as for the RIM program and based on 90% of estimated market value of ag land in township.

Program Delivery

The program is administered at the state by the BWSR and locally by Soil and Water Conservation Districts.
Interested landowners sign up for the program with the RIM program. General information can be obtained by contacting the Program Coordinator, Minnesota Partners for Wetlands, Izaak Walton League of America, Minnesota Division, 555 Park Street #140, St. Paul, MN, 55103.

See Also BWSR -	Reinvest in Minnesota Page 4	
See Also DNR -	RIM Critical Habitat Match Page 63	
See Also DNR -	Wild & Scenic Rivers Management Page 31	
See Also USFWS -	North American Waterfowl Management Plan (NAWMP) Page 7	

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4. Inventory / Classification

Agency Name	Program	Authority	Funding	Program Delivery
BWSR Grants Coordinator: (612) 297-7361	Local Water Resources Protection and Management Program: provides grants to counties to assist in administration and implementation of approved and adopted local water plans. Wetlands inventory, monitoring and data collection are eligible uses of these grant funds.	MN Statutes 103B.369; MN Rules 9400	State funds are provided as base grants to counties; combined with special local levy for water plan implementation to provide \$37,500 in revenue for each participating county.	Administered at the state level by BWSR; administered locally by counties and water planning task forces. Counties must have a state approved and locally adopted plan.
DNR Area Wildlife Managers	Game Lake Designation Program: includes survey, inventory and mapping of wetlands and lakes for potential wildlife habitat for waterfowl and furbearing animals.	MN Statutes 97A.145	Duck Stamp revenues and General Funds	Local Area Wildlife Managers implement this program.
DNR Area Hydrologists or Protected Waters Coordinator: (612)296-4800	Protected Waters and Wetlands Inventory: Inventory of waters and wetlands for which permits are requiredincludes 10,029 wetlands on 261,700 acres. Available as paper maps on county highway map base with legal descriptions for protected lakes, streams, and wetlands.	MN Statutes 103G.201	Inventory activities complete. Current digitization is funded by LCMR.	Area Hydrologist or Central Office provides maps.
DNR Area Wildlife Managers	Purple Loosestrife Survey Program: includes informal surveys to locate and control purple loosestrife in wetlands.	MN Statutes 84.966	General Funds	Local Area Wildlife Managers complete surveys at their discretion.
DNR Bemidji Wetland/Wildlife Research Station: (218)755-2973	Waterfowl and Wetland Conditions Survey Program: A count of breeding and migrating wildfowl and an index of wetlands conditions state-wide.	MN Statutes 97A.145	Duck Stamp revenues and General Funds	The Bemidji Wetland/Wildlife Research Station is completing the survey.

4. Inventory / Classification

Agency Name	Program	Authority	Funding	Program Delivery
DNR Bemidji Regional Waterfowl Specialist: (218)755-2973	Waterfowl Survey in Forested Areas of Minnesota: survey of waterfowl populations in forested areas to develop population indices; a partnership with the U.S. Fish and Wildlife Service.	MN Statutes 84.03	General Funds and federal grant funds.	Bemidji Regional Waterfowl Specialist and USFWS are completing the survey.
USFWS Twin Cities Field Office: (612)725-3548	Classification of Wetlands and Deepwater Habitats of the United States, (1979): A systematic classification of wetlands across the country, defined by plants, soils, and frequency of flooding. The system is currently used by the Service and other agencies and interest groups. A manual of the same title by Cowardin, et al, is available to assist in the use of the classification system.	U.S. Fish and Wildlife Service authorities	Congressional appropriation to the U.S. Fish and Wildlife Service.	U.S. Fish and Wildlife Service, Twin Cities Field Office, provides information on the classification system and manual: 4101 East 80th Street, Bloomington, MN, 55425- 1665.
USFWS Office of Wetlands Inventory: (612)725-3417	National Wetlands Inventory: A national inventory of wetlands, using high altitude color infrared aerial photography transferred to map format (U.S.G.S. topo map format, 1:24,000 scale). Some data has been digitized for computer usage; eventually all National Wetlands Inventory (NWI) maps will be digitized in Minnesota.	Emergency Wetlands Resources Act of 1986 mandates completion of NWI maps for the contiguous U.S. by 1998.	Congressional appropriation for the NWI	The U.S. Fish and Wildlife Service, Office of Wetlands Inventory, provides information and maps: 4101 East 80th Street, Bloomington, Minnesota, 55425-1665. Wetland maps and digital data are available from the U.S. Geological Survey at 1-800-USA MAPS.
USFWS Habitat and Population Evaluation Team (HAPET): (218)739-2291	Waterfowl Production Estimation Survey Program (Also called Four-Square Mile Survey): estimates waterfowl production and population trends of other water-dependent birds in the Prairie Pothole region of Minnesota.	U.S. Fish and Wildlife Service authorities	Congressional appropriation to the U.S. Fish and Wildlife Service	HAPET coodinates the survey. It is a cooperative effort between the USFWS and DNR. Information provided by HAPET, USFWS, Route 1, Box 76, Fergus Falls, MN 56537.

4. Inventory / Classification

Agency Name	Program	Authority	Funding	Program Delivery
USFWS Twin Cities Field Office: (612)725-3548	Wetlands of the United States (Circular 39),1956: Wetlands classification system and manual (Circular 39) that provide assistance in the use of the classification system. Though copies of the manual are no longer available and the USFWS no longer uses this classification system, references to its wetland types are commonly found in Minnesota agency rules and regulations, and continue to be used in describing wetlands throughout the State.	U.S. Fish and Wildlife Service authorities	N/A	Although the Service no longer uses this classification system, the Twin Cities Field Office can provide information about it: 4101 East 80th Street, Bloomington, MN, 55425-1665.

5. Monitoring / Assessment

Agency Name	Program	Authority	Funding	Program Delivery
MPCA Water Quality Division: (612) 296-7202	Wetlands Biological Assessment Project: Two-year research project to develop biological criteria for assessing water quality and potential impacts of permitting decisions on high quality wetlands.	Clean Water Act, Section 302	LCMR funds	MPCA is completing research. Semiannual and annual progress reports are made to LCMR. A final report is submitted to the Commission and made available to the public.
U.S. Army Corps of Engineers, St. Paul District Planning Division: (612) 220-0402	Wetlands Research Program: Nationwide 3-year program, evaluating techniques for wetland restoration, enhancement, and delineation, and attempting to improve methodologies for assessing and predicting changes in wetlands. Research will center on candidate demonstration sites to be selected throughout the country. (Initiated 1991)	The Water Resources Development Act of 1986 (PL 99-662) and other Public Laws and Executive Orders.	Federal funding is being provided through the Corps of Engineers, Waterways Experiment Station in Vicksburg, Mississippi.	Four projects in Minnesota are included in the program—Orwell Reservoir, Mud Lake, Weaver Bottoms, and Purple Loosestrife Control on the Upper Mississippi River. Research will be conducted by the Corps Waterways Experiment Station in Vicksburg, Mississippi.
USFWS Minnesota Waterfowl and Wetland Management Complex: (218)739-2291	Monitoring Wetland Losses and Quality Program: monitors the status of wetlands on federal, state, and private lands using aerial photography, to protect them from drainage or other degrading alterations, for the benefit of people and wildlife. Emphasis on the Prairie Pothole Area of Minnesota.	National Environmental Policy Act; Executive Order 11988, 11990; National Wildlife Refuge System, Federal Highway Administration, Clean Water, Food, Agriculture, Conservation and Trade, Fish and Wildlife Coordination, and Dept. of Transportation Acts; MN Statutes 160.20, MN Wetlands Conservation Act.	Congressional appropriation to U.S. Fish and Wildlife Service	USFWS personnel monitor wetlands using aerial flights, receive inquiries regarding construction projects affecting wetlands, inform individuals of possible violations, and educate agency officials and citizens of wetland laws and values. USFWS, Minnesota Waterfowl and Wetland Management Complex provides information: Route 1, Box 76, Fergus Falls, Minnesota, 56537.

See Also BWSR - Local Water Resources Protection and Management Program
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6. Technical Assistance

Agency Name	Program	Authority	Funding	Program Delivery
BWSR Grants Coordinator: (612) 297-7361	BWSR General Services: provides assistance to counties on the technical review panels required under the Wetland Conservation Act of 1991, assistance to local units of government on available programs, and interpretation of BWSR administered laws and rules.	MN Statutes 103C	General Fund \$849,000 annually	County SWCD offices provide technical assistance. (State provides grants to local offices to support these services.)
DNR Area Wildlife Managers	Wetland and Lake Wildlife Management Program: provides assistance to landowners to increase wildlife populations on wetlands and lakes including advice on enhancement techniques and funding available.	MN Statutes 97.145	General Funds	Local Area Wildlife Managers provide information and assistance on request.
DNR Area Wildlife Managers	Wetland Restoration Technical Assistance: provides assistance to private landowners and local governments on wetlands restoration potential, best restoration techniques, and information on funds available, including funding from private sources such as Ducks Unlimited.	MN Statutes 97.145	General Funds	Local Area Wildlife Managers provide information and assistance on request.
SCS County SCS Offices or State Resource Conservationist: (612)290-3670	Plant Materials Program: evaluation and development of vegetative solutions to conservation problems. Includes plants for prairie, forest, and wetland uses.	SCS General Authorities	Federal funds. Technical assistance funded 100%.	County SCS offices provide site-specific technical assistance as requested to individuals, groups, and government agencies. County SCS offices provide site-specific technical assistance.
SCS County SCS Offices or State Resource Conservationist: (612)290-3670	SCS Technical Assistance: provides guidance, engineering and specifications on enhancing, restoring, creating or managing wetlands to individuals, groups and local governments, as priorities allow.	FACTA 1990	Federal funds. Technical assistance funded 100%.	County ASCS/SCS offices provide information and technical assistance.

Program Delivery

Technical assistance requests should be made to the St. Paul District. Requests for assistance under the Planning Assistance to States program must be coordinated with the Minnesota Environmental Quality Board, which is responsible for establishing study priorities and coordinating with the Corps.

Local SWCD staff provide information and technical assistance as requested.

Funding

I. Surface Waters; A. Wetlands

Agency Name

6. Technical Assistance

Program

Local SWCD Offices		SWCD Technical Assistance Programs: provide assistance to landowners and occupiers for planning, survey, and design of wetlands enhancements and/or restorations.	MN Statutes 103C.401	Federal funds given as grants to SWCD's.
U.S. Army Corps of Eng St. Paul District Planning Division: (612) 220-0322		Wetland Technical Assistance Program: provides limited technical assistance to state and local governments at no cost, or more extensive assistance under Planning Assistance to States Program. Supports comprehensive planning for the development, use, and conservation of water and related land resources, including wetlands. Currently working with BWSR to develop wetland evaluation options for use by local governments.	Section 22 of the Water Resources Development Act of 1974 (PL 93-251). (Limited general technical assistance is authorized by other general authorities available to the Corps of Engineers.)	Annual Congressional appropriation to the Corps of Engineers. A 50% state or local cost share is required for the Planning Assistance to States program.
See Also BWSR -		t in Minnesota		
See Also BWSR -	Reinvest Page 4	t in Minnesota		
See Also BWSR - See Also DNR -	Page 4	t in Minnesota		
	Page 4 Wetland Page 5			
See Also DNR -	Wetland Page 5 Conserv Page 64	l Reserve Program		
See Also DNR - See Also SCS -	Page 4 Wetland Page 5 Conserv Page 64 PL-566 Page 6	Reserve Program vation Reserve Program (CRP)		
See Also SCS - See Also SCS -	Page 4 Wetland Page 5 Conserv Page 64 PL-566 Page 6 Swampt Page 1	Reserve Program vation Reserve Program (CRP) Watershed Program		

Authority

7. Training

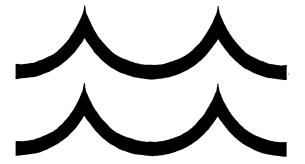
Agency Name	Program	Authority	Funding	Program Delivery
U.S. Army Corps of Engineers, St. Paul District Planning Division: (612) 220-0402	Wetland Plants and Plant Communities of Minnesota & Wisconsin: Handbook provides an easy-to-use, pictorial guide to wetlands plants arranged according to the plant communities in which they are commonly found. Designed to be useful to professionals as well as citizens who have an interest in wetlands.	Section 404 of the Federal Water Pollution Control Act Amendments of 1972.	Funding for preparation of the handbook was provided by Congress as part of the funding for the Section 404 regulatory program.	Copies of the handbook can be purchased through the St. Paul District Office.
USFWS - National Ecology Research Center: (303)226-9390	Office of Training and Education: provides wetlands training courses to interested persons. Includes courses on wetland plants, wetlands database, and wetland classification training.	U.S. Fish and Wildlife Service authorities	Tuition is charged for wetland training courses.	Tuition costs, course availability and other information can be obtained from the U.S. Fish and Wildlife Service, National Ecology Research Center, Riverine and Wetland Ecosystems Branch, 4512 McMurray Avenue, Fort Collins, Colorado, 80525-3400.

8. Information / Education

Agency Name	Program	Authority	Funding	Program Delivery
DNR Area Wildlife Managers	DNR Training and Education Programs: provide workshops, training and education programs on wildlife and habitat development for professionals, clubs and schools. A variety of pamphlets and educational materials are available on request.	MN Statutes 84.027	State General Funds	Contact Local Area Wildlife Manager to schedule education and training programs.
USFWS Public Affairs Office: (612)725-3519	USFWS Information & Education Programs: provide information on wetlands in printed and video format, and tours or presentations to landowners, school groups, agencies and officials to promote wetlands activities. Wetland restoration projects on Service and private lands are often used for educational purposes.	U.S. Fish and Wildlife Service authorities	Congressional appropriations to the U.S. Fish and Wildlife Service. Some wetland publications and videos available for distribution by the Service have also been developed or funded by other agencies, organizations, or corporations.	Requests for information or educational materials on wetlands can be directed to the U.S. Fish and Wildlife Service, Public Affairs Office, Federal Building, Fort Snelling, Twin Cities, Minnesota, 55111.

See Also SCS - Information / Education Program
Page 65

LAKES



I. Surface Water

Lakes

I. SURFACE WATERS

B. Lakes

1. Protection / Regulation

Agency Name	Program	Authority	Funding	Program Delivery
DNR Aquatic Biologist: (612) 296-0777	Aeration Program: issues permits to operate aeration systems in public waters to prevent winter fish kills. Agency also develops agreements with local governments to purchase & install aeration equipment on lakes with management plans.	MN Statutes: 103G.611	Game and Fish funds plus federal cost share.	Central office in St. Paul handles applications and grants permits.
DNR Exotics Program Coordinator: (612)297-1464	Aquatic Exotics Program: includes inventory, monitoring and control of infestations of purple loosestrife, milfoil, and zebra mussels. Provides public education, information, and conducts research on control and eradication of exotics.	MN Statutes: 18.191 and 84.966969	Water Recreation Account and boat license surcharge funds.	Ecological Services Division coordinates this program, with field assistance from regional offices in monitoring and control efforts.
DNR Aquatic Plant Management Program Supervisor: (612)296-0782	Aquatic Plant Management Program: issues permits to lake property owners to kill aquatic vegetation on their property, using herbicides or mechanical removal.	MN Statutes: 84.092 and Commissioner Order No. 2210	Game and Fish funds plus federal cost share.	Interested landowners apply to Area Fisheries Managers for permits. Information may be obtained at DNR local or St. Paul offices. Appeals handled at central office.
DNR Aquatic Plant Management Program Supervisor: (612)296-0782	Fish Kill Investigations Program: Investigates pollutants that cause fish and wildlife kills in lakes and streams. Pollutants are traced to the discharger, and damages are assessed based on damage to fish and wildlife.	MN Statutes: 97C.065, plus PCA authority Chapter 115.	Game and Fish funds and federal cost-sharing.	Program is coordinated from the Ecological Services Division in St. Paul. Field office staff also conduct investigations when necessary. Contact St. Paul or field offices for assistance.
DNR Area Hydrologist or Shoreland Management Program: (612)296-4800	Shoreland Management Program: establishes standards for development of shoreland areas (land within 300 feet of a stream or 1000 feet of a lake or wetland, or within the floodplain). Standards address subdivision of land, structure setbacks, vegetative mgint, land alterations, agricultural activities, and sewage treatment.	MN Statutes: 103F.201 to 103F.221 MN Rules: 6120.2500 to 6120.3900	General Fund	State sets standards that are incorporated into local government zoning ordinances. DNR reviews and comments on certain zoning actions. DNR provides technical support and grants to local governments to help implement program.

I. Surface Waters; B. Lakes

1. Protection / Regulation (Cont.)

Agency Name	Program	Authority	Funding	Program Delivery
MDH Public Water Supply Unit: (612)627-5180	Public Water Supply Program: regulates public water supplies that use groundwater and surface water sources through enforcement of water quality standards and facility construction standards. Provides technical assistance, training and public information.	MN Statutes 144.381 - 144.387 MN Rules Chapter 4720	Fees and Federal Safe Drinking Water grant (The Federal Safe Drinking Water program is enforced in Minnesota by MDH through an agreement with U.S. EPA.)	MDH performs most monitoring; field staff conduct routine inspections of public water supplies and collect water samples. MDH provides water operator training and certification. Construction standards are enforced through a plan review and approval process. Remediation activities and public notice are the responsibility of the water supplier.
MPCA Water Quality Division: (612)296-7202	Individual Sewage Treatment Systems (ISTS) Program: sets minimum standards and criteria for the design, location, installation, use and maintenance of individual sewage treatment systems; includes training workshops, and a certification program to assist those involved in constructing and servicing these systems.	MN Statutes 116.07; MN Rules 7080	General Fund	Local units of government administer and enforce the technical ISTS standards, which are most effective when applied in conjunction with local planning and zoning.
See Also DNR - Prote	ected Waters & Wetlands Perm	it Program		

See Also DNR -	Protected Waters & Wetlands Permit Program Page 1
See Also DNR -	Water Appropriation Permit Program Page 2
See Also MPCA -	Feedlots Page 2
See Also MPCA -	National Pollutant Discharge Elimination System (NPDES) Permit Program Page 2
See Also MPCA -	Water Quality Certification Program Page 3

I. Surface Water

Lakes

Agency Name	Program	Authority	Funding	Program Delivery
BWSR Water Planning Coordinator (612) 297-5617	Local Water Resources Protection and Management Program: provides non- competitive base grants and competitive challenge grants to counties for administration and implementation of approved and locally adopted local water plans. Lakes restoration and enhancement projects are an eligible action.	MN Statutes 103B.3369, MN Rules 8405	\$2.5 million annually. Funding is provided annually as base grants to counties, base grant amounts are variable but when combined with the special levy for water plan implementation results in \$37,500 per county. Challenge grants are available when funding permits.	Administered at the state level by BWSR; administered locally by counties and water planning task forces. Counties prepare workplans and budgets during October through December of each year. Counties must have a state approved and locally adopted plan to receive funding.
BWSR Grants Coordinator (612) 297-7361	Streambank, Lakeshore, and Roadside (SLR) Program: provides financial assistance to local units of government and private landowners to solve erosion and sediment control problems on streams, lakes and roadsides. Priority is given to projects eligible for federal matching funds.	MN Statutes 103C.501, MN Rules 8400	\$150,000 annually, cost-share rates cannot exceed 50%, or 50% of the local share if federally funded.	Administered by the BWSR at the State level; administered locally through Soil and Water Conservation Districts. Applications are taken once each year; application deadline is April 1.
DNR Shoreland Hydrologist (218) 828-2605	Lake Advocate Program: trains private citizens living on lakes as "lake advocates" regarding shoreland regulations, state permitting processes and surface and groundwater issues. Answer questions from other lake residents or refer to governmental units. Advocates will be available on 100 lakes in 1993.	Agency authorities	Federal grant to PCA and local governments	A partnership among the DNR, PCA, local units of government and coalition of Lake Associations. They provide training and materials to advocates and coordinate this network.
DNR Regional Fisheries Supervisors	Lake Habitat Improvement Program: includes a variety of methods to manage lake communities and improve or maintain angling opportunities, such as shoreline stabilization, vegetative restoration or improvement or development of fish spawning habitat.	MN Statutes 97A.345	Fishing license revenues, partially reimbursed by federal Sport Fish Restoration Funds.	Improvements initiated by regional fisheries managers, or occasionally requested by local interests. Contact regional managers for information and project approval.

I. Surface Waters; B. Lakes

2. Enhancement / Restoration (Cont.)

Agency Name	Program	Authority	Funding	Program Delivery
DNR Regional Fisheries Supervisors	Lake Reclamation Program: Intensive habitat improvement program that includes use of chemicals to effect fish kills and reclaim lakes for desired sport fish populations.	MN Statutes 97A.345	Funding from Fishing license revenues, partially reimbursed by federal Sport Fish Restoration Funds.	Projects are initiated by regional fisheries managers, or occasionally requested by local interests. Contact area managers for information and project approval.
MPCA Water Quality Division: (612) 296-7202	Clean Lakes Program: provides financial assistance through matching grants and technical assistance to local governments to lead lake restoration projects with an emphasis on watershed management. Includes data collection, problem identification, and development of an implementation plan to restore water quality.	Section 314 of the Clean Water Act. The program is administered by the Environmental Protection Agency, working through the Minnesota Pollution Control Agency for projects in Minnesota.	Federal funds. Local governments are required to provide a 50/50 match to the Federal funds.	Local governments apply to the program to conduct a watershed project directed at protecting a specific lake resource. The applications are ranked and selected by the Environmental Protection Agency. The selected projects develop a workplan and monitoring plan that is approved by the MPCA. The local government then may apply for funds to implement their project.
MPCA Water Quality Division: Nonpoint Source Section (612) 296-7248	Individual On-Site Wastewater Treatment Systems Grant Program: provides grants to municipalities to assist owners of individual on-site systems to upgrade or replace failing systems.	MN Statutes 116.18 Subd. 3c and MN Rules 7077.0700 - 7077.0765	Program will cover 50% of construction costs per dwelling to a maximum of \$2500 for trench systems and \$3750 for a mound system. Cluster systems are also eligible.	Municipalities contact MPCA for assistance. Only those notified that their project is fundable are eligible to submit applications. Projects must be within the official boundaries of a municipality or alternative approved planning area. Projects that meet requirements will be ranked in priority order based on median household income of municipality or planning area.
USFWS Great Lakes Coordinator: (612)725-3447	Great Lakes Initiative: highlights the value of this ecosystem to the public, conducts fishery surveys and assessments, and makes recommendations on management of Great Lakes fish populations. A cooperative partnership between U.S. and Canadian agencies and Tribes.	Great Lakes Fish and Wildlife Act of 1990	Great Lakes Fish and Wildlife Act of 1990	The Great Lakes Coordinator, U.S. Fish and Wildlife Service, provides information and coordiantes programs from the Federal Building, Fort Snelling, Twin Cities, Minnesota, 55111, (612)725-3447.

2. Enhancement / Restoration (Cont.)

	Agency	Name
USFW	S	-
	on of Feder 25-3596	ral Aid:

Sport Fish & Wildlife Restoration Program (Federal Aid Program): distributes funds to State agencies to acquire land and construct projects for fish and wildlife management, habitat improvement, public access, stream corridors, and a wide variety of other fish and wildlife

restoration programs.

Program

Authority Pittman-Robertson Federal Aid in Wildlife Restoration Act of 1937; Dingell-Johnson Act of 1950; Wallop-Breaux Amendments of 1984.

Excise tax on boat fuel and hunting & fishing equipment. In fiscal year 1992, a total of \$7,470,107 and \$4,338,364 were provided to the State of Minnesota for Sport Fish Restoration and Wildlife Restoration, respectively.

Funding

Program funds are distributed to the State of Minnesota by the U.S. Fish and Wildlife Service. Additional information can be obtained by contacting the U.S. Fish and Wildlife Service, Division of Federal Aid, Federal Building, Fort Snelling, Twin Cities, Minnesota, 55111, (612)725-3596.

Program Delivery

See Also BWSR -	Cost Share Program Page 4
See Also BWSR -	Special Projects Page 4
See Also DNR -	Aeration Program Page 18
See Also MPCA -	Clean Water Partnership Program Page 6
See Also US Army - Corps of Engineers	Project Modification for Improvement of the Environment Program Page 6
See Also USFWS -	North American Waterfowl Management Plan (NAWMP) Page 7

Program Delivery

Projects are initiated by Area Fisheries managers.

3. Acquisition / Easements

Agency Name	Program	Authority	Funding	
DNR Regional Fisheries Managers	Aquatic Management Areas Program: acquires easements along lakeshores to provide corridors for angler access, riparian protection, habitat improvement or rehabilitation, or fish structures/barriers.	MN Statutes 86A.05	Funding from bonding programs, license fees, and federal Sport Fish Restoration Funds.	
See Also BWSR - Lo	ocal Water Resources Protection	and Management Program		
	ge 10	and Management Program	•	
	einvest in Minnesota (RIM) Prog ge 4	gram 		
	Land Acquisition for Wildlife Management Areas Page 8			
	orthern Pike Spawning Areas (N 19e5	IPSA)		
	RIM Critical Habitat Match Page 63			
C. Al. HOPWC A	anisidian/Facament Dragger			
See Also USFWS - A	cquisition/Easement Program ge 8			
See Also USFWS - Si	port Fish & Wildlife Pastoration	Program (Federal Aid Prog	nom)	
	FWS - Sport Fish & Wildlife Restoration Program (Federal Aid Program) Page 21			

4. Inventory / Classification

Agency Name	Program	Authority	Funding	Program Delivery
DNR Survey and Systems Coordinator: (612)297-3287	Game Lake Inventory: Survey of shallow lakes and wetlands to inventory plants, water quality and wildlife habitat.	MN Statutes 97A.045	General Fund.	Survey conducted by Wildlife Division staff. Data entered into manual files in the Division.
DNR Survey and Systems Coordinator: (612)297-3287	Lake Management Data Base: A computerized data base that contains data from all of the state's fisheries surveys on lakes. Established in 1984.	MN Statutes 97A.045	State Fish and Game funds partly reimbursed with USFWS Federal Aid for Sportfishing Restoration Funds.	Data may be accessed at DNR-Fisheries, and is also added to the LMIC SWIM files, which include DNR Fisheries and Waters data plus PCA monitoring data. This data may be accessed at LMIC.
DNR Lake Mapping Program Supervisor: (612)296-0781	Lake Mapping Program: includes depth-sounding of small to mid-size lakes and construction of contour maps. Maps are used in fisheries and lake management and made available as public information.	MN Statutes: 97A.045.	Game and Fish Funds with cost- sharing from federal funds.	Coordinated through St. Paul Ecological Services division; lake maps are available for managers and to the public.
DNR Surface Water Unit: (612)296-4800	Lakes Data Base: A data base that contains information on basin characteristics, size, location, mean depth, major and minor watersheds, and recorded Lake Level data.	MN Statutes 103F	General Fund	The Lakes Data Base is a menu driven computerized data base that runs on personal computers. The data is available either as hard copy or on computer disks.

	See Also USFWS -	Classification of Wetlands and Deepwater Habitats of the United States Page 11
•	· · · · · · · · · · · · · · · · · · ·	

See Also USFWS - National Wetlands Inventory
Page 11

5. Monitoring / Assessment

Agency Name	Program	Authority	Funding	Program Delivery
DNR Research Scientist: (612)297-4886	Aeration Research Project: Study designed to determine ecological impacts of year- round lake aeration. Conducted on selected lakes in the Metro Area.	MN Statutes: 97A.045.	LCMR funds.	DNR Ecological Services is coordinating research and will publish a report with findings.
DNR Survey and Systems Coordinator: (612)297-3287	Creel Surveys (Study IV Surveys): 10 fish creel surveys completed annually on lakes and rivers. Lake of the Woods and Mille Lacs are surveyed annually, others less frequently. Monitor fishing pressure, harvest, catch and recreational use parameters. Combined with other surveys to estimate impacts of fishing on fish populations.	MN Statutes 97A.045	State Fish and Game fund, reimbursed by federal aid from USFWS Federal Aid for Sport Fish Restoration Funds.	Department produces an annual report for each survey. Lake data added to the Lake Management Data Base. Data also used in developing fisheries management plans.
DNR Chemistry Lab Supervisor: (612)464-1247	Fish Contaminant Monitoring Program: monitors levels of PCB's and mercury through collection of fish in lakes statewide. Data provided to the Minnesota Health Department, which issues fish consumption advisories.	MN Statutes 97A.045	RIM funds.	Survey is coordinated through DNR Chemistry Laboratory at Carlos Avery Wildlife Refuge. Data collected along with other routine lake monitoring data.
DNR Fisheries Research Manager: (612)296-0793	Fisheries Research Program: includes a large number of research projects to develop better tools to manage fisheries in Minnesota. Research issues include fish population and community dynamics, habitat characteristics and enhancement, relationship between fish communities and watershed characteristics, and surveys and database development.	MN Statutes: 97A.045	Dedicated Fund Appropriation to the Section of Fisheries (Division of Fish and Wildlife). Most work is 75% reimbursable by Sport Fisheries Restoration Fund, supported by a federal excise tax on fishing equipment.	Reports of field research are submitted to Division of Fish and Wildlife. Reports are published as Investigational Reportsover 400 reports are available on fisheries research by contacting DNR Division of Fish and Wildlife, Box 12, 500 Lafayette Rd., S. Paul, MN 55155-4012.
DNR Survey and Systems Coordinator: (612)297-3287	Lake Superior Fish Sampling Program: A special study under the annual Large Lake Sampling Program. Sampling guidelines and parameters are different for Lake Superior due to different fish populations and conditions.	MN Statutes 97A.045	State Fish and Game funds partly reimbursed with USFWS Federal Aid for Sportfishing Restoration Funds.	Department produces an annual report from this survey. Some information is included in the Lake Management Data Base, and results are used in developing lake management plans.

I. Surface Waters

Lakes

5. Monitoring / Assessment (Cont.)

Agency Name	Program	Authority	Funding	Program Delivery
DNR Survey and Systems Coordinator: (612)297-3287	Lake Survey Program: Annual survey of 600 lakes, including fish populations, water quality and habitat conditions. Each of the managed lakes in Minnesota is surveyed every 8-9 years. Tracks long- term trends in fish resources and habitat conditions.	MN Statutes 97A.045	State Fish and Game fund, reimbursed by federal aid from USFWS Federal Aid for Sport Fish Restoration Funds.	Department produces a report summarizing the survey results each year, and adds the data to ongoing Lake Management Data Base. Data are also used in developing fisheries management plans. Printouts of lake data are available to the public from Fisheries Division.
DNR Survey and Systems Coordinator: (612)297-3287	Large Lake Program: Intensive annual sampling of state's 11 largest lakes for detailed fish population, water quality and habitat data. (Lake of the Woods, Upper Red, Rainy, Kabetogama, Vermillion, Mille Lacs, Pepin, Superior, Cass, Leech, and Winnibigoshish Lakes).	MN Statutes 97A.045	State Fish and Game fund, reimbursed by federal aid from USFWS Federal Aid for Sport Fish Restoration Funds.	Department produces an annual detailed large lake data report from this survey and adds the data to the Lake Management Data Base. Data are also used in developing fisheries management plans.
DNR Survey and Systems Coordinator: (612)297-3287	Other Study IV Surveys: includes a variety of special investigations to assess particular fish populations and characteristics, such as effects of bass tournaments on populations. Targeted to particular research issues.	MN Statutes 97A.045	State Fish and Game funds partly reimbursed with USFWS Federal Aid for Sport Fish Restoration Funds.	Department produces a report for each special survey. Data are also used in developing management plans.
Metropolitan Council Natural Resources Division: (612)291-6359	Lake Sampling Program: assesses the quality of Metro Area lakes. This assessment is used to both establish policies and in reviews of local comprehensive plans. The Council is developing a citizen lake monitoring program which should be functional in 1993.	Metropolitan Land Planning Act and associated authorities	Metro Area tax levy that supports the Council.	Council staff complete lake monitoring activities and produce annual reports on the monitored lakes. Reports are available from the Council's Data Center.
MPCA Water Quality Division: (612) 296-7202	Citizen Lake Monitoring Program: Volunteers assist in the assessment of water quality by measuring the clarity of lakes using Secchi discs. Program is being reorganized-information will be available in late 1992.	MN Statutes 116	General Fund	MPCA staff train volunteers, sell Secchi discs (\$10.), review data collected by volunteers and enter it into the national water quality database (STORET).

5. Monitoring / Assessment (Cont.)

Agency Name	Program	Authority	Funding	Program Delivery
MPCA Water Quality Division: (612) 296-7202 USFWS	Lake Assessment Program (LAP): cooperative studies of lakes involving MPCA staff and local citizens (lake association members or county staff). LAP studies characterize a lake's condition and provide basic information regarding the interaction of the lake and its watershed. National Fisheries Research Center - Great	MPCA Policies U.S. Fish and Wildlife Service Authorities	Operates on limited budget, primarily from EPA Lake Assessment Grant. Federal funds	Groups interested in participating in this program submit a completed application to MPCA. MPCA and local participants jointly sample the lake. MPCA pays for the water quality analysis costs. MPCA completes data analysis and modeling and prepares a written report which is presented to local participants. Projects and information are coordinated from the Ashland
Ashland Biological Station: (715)682-6163	Lakes: gathers information on the Great Lakes Ecosystem for use in assessing long-term trends and developing effective management recommendations.	·		Biological Station, U.S. Fish and Wildlife Service, 2800 Lake Shore Drive East, Ashland, Wisconsin, 54806.
See Also BWSR - Ge	eneral Services			1
	ge 14			
				- 1
See Also BWSR - Local Water Resources Protection and Management Program Page 10				
	operative River Basin Studies ge 41			

See Also USFWS -

6. Technical Assistance

Partners for Wildlife Program Page 7

Agency Name	Program	Authority	Funding	Program Delivery
BWSR Lakeshore Engineer: (218) 723-2351	Lake Superior Shoreline Erosion & Sediment Control Program: provides technical assistance to local governmental units along Lake Superior to assist in the planning, design and implementation of shoreline protection projects.	MN Statutes 103B.101	Combination of State general revenue, and pass through Federal section 319 funds.	Assistance is available through a request by a local unit of government, including Soil and Water Conservation Districts. Priority areas are those lands adjacent to and/or contributing to Lake Superior.
MDH Division of Environmental Health: (612)627-5100	Bathing Beaches Plan Review: reviews plans for beach development upon request on an advisory basis and investigates complaints and disease outbreaks. Multi-state regional standards for physical and operational parameters are used.	MN Statute 144.05	General fund	MDH's Engineering Unit reviews plans and makes comments on public health and safety concerns. Environmental Field Services Section investigates complaints and disease outbreaks. Some local jurisdictions perform ongoing monitoring of bathing beach water quality.
SCS Water Quality Specialist: (612)290-3670	Hydrologic Unit Areas Program: assists farmers in designated areas to develop and install systems to achieve water quality goals.	Presidential Water Quality Initiative	Federal funds. Technical assistance funded 100% in approved units. Cost-sharing may be provided by ASCS.	Sponsors request designation as HUAs. Approvals are made at the national level.
SCS Water Quality Specialist: (612)290-3670	Water Quality Special Projects: assist individuals in planning and applying practices to improve water quality impaired from nonpoint sources.	Agricultural Conservation Program	Federal funds. Technical assistance funded 100% in approved projects. Cost-share assistance up to 75% provided by ASCS.	Local cooperating agencies request project area. Projects approved by ASCS at national level.
See Also SCS - PL-5 Page	566 Watershed Program			
See Also SWCD - Gene Page	eral technical assistance 15			

7. Training

Agency Name Program Authority Funding Program Delivery

See Also MPCA - Individual Sewage Treatment Systems
Page 19

8. Information / Education

Agency Name

DNR

Aquatic Education Coordinator: (612)297-4919

Program

MinnAqua Program: includes Urban Angling and Volunteer Instructor Training programs to teach people about lake and stream ecology by teaching them to fish. Programs provided to groups include fishing clinics and special fishing events. Classroom program available (Aquatic Wild) in cooperation with DNR-Wildlife. Additional classroom programs will be added during the 1990's.

Authority

MN Leg. Chapter 254, Article 1, Section 14, Sub. 8C

Funding

RIM general funds, federal Sportfishing Restoration funds, and LCMR funds (through June, 1993.) Aquatic Wild also supported by Non-Game Program Check- Off Fund. Fees are charged to schools participating in this program.

Program Delivery

Programs implemented in Twin Cities and Duluth by program coordinator, in cooperation with Hennepin County, Minneapolis Parks and Minnesota Extension Service 4-H Programs.

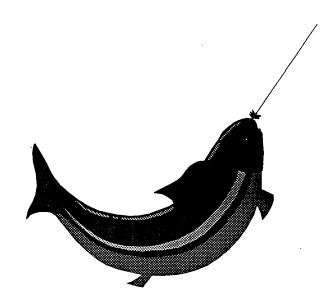
Programs will be available throughout Minnesota in the future.

See Also SCS - SCS Education Programs
Page 17

See Also USFWS - USFWS E

USFWS Education and Information Page 17

STREAMS/RIVERS



I. SURFACE WATERS

C. Streams / Rivers

1. Protection / Regulation

Agency Name	Program	Authority	Funding	Program Delivery
DNR Division of Waters Dam Safety Supervisor or Area Hydrologist: (612) 296-0525	Dam Safety Program: requires a permit for construction, alteration, operation, repairs, transfer of ownership and abandonment of a dam which is greater that 6' in height and has a maximum storage capacity greater than 15 acre-feet with some exemptions.	MN Statutes 103G MN Rules: 6115.0300 to 6115.0520	Permit application fees go to State General Fund and are then appropriated to DNR Division of Waters	DNR Regional offices process permit applications. Area hydrologists review and make recommendations. Technical review is conducted by the Dam Safety Unit, which also inspects and evaluates existing dams. Contact for grant program and hydropower information.
DNR Division of Waters Floodplain Management Program: (612)296-4800	Flood Plain Management: provides standards for identifying floodplains, floodways and flood fringe areas; describes flood protection measures for new construction in the flood fringe	MN Statutes 103F.101 to 103F.165 MN Rules: 6120.5000 to 6120.62000	FEMA-CAP funds and State General Fund	State has set standards that are incorporated into local government zoning ordinances. DNR reviews and comments on certain zoning actions, provides technical support to local governments, and reviews and conducts flood studies.
DNR Division of Waters: (612)297-2401 or Area Hydrologists	Lower St. Croix National Scenic Riverway Management: federally-designated river is jointly-managed by federal and state agencies under a Master Plan. State sets standards for Lower St. Croix district that specify allowable land uses, and standards for subdivisions, land alterations, vegetative cutting, and sewage treatment.	MN Statutes: 103F.351 MN Rules: 6105	Water Recreation Fund and General Fund	State has set minimum standards that are incorporated into local government ordinances. DNR reviews and comments on certain zoning actions and provides technical support. DNR certifies variances, ordinances amendments, and inconsistent plats.
DNR Surface Water Unit (612)296-0525	Stream Flow Protection & Regulation: recommends protected flow levels for rivers, lakes, hydropower and reservoir operations. Reviews applications to FERC for relicensing of hydropower facilities.	MN Statutes 103G	State General Fund	Division of Waters Permits Unit initiates request for protected flow determination. Field studies and/or statistical analysis of historic flow data used to set protected flow levels.

Agency Name

Program Delivery

Funding

1. Protection / Regulation (Cont.)

Program

DNR Division of Waters: (612)297-2401 or Area Hydrologists	Wild and Scenic Rivers Management: includes statewide and river-specific standards for designated W&S river districts. Standards specify allowable land uses and address subdivision, land alterations, sewage treatment, vegetation removal, wetlands alteration, public use and recreation mgmt. MN Statutes: 103F.301 to 103F.345 MN Rules: Chapter 6105 Water Recreation Fund and General Fund	State sets minimum standards that are incorporated into local government ordinances. DNR reviews and comments on certain zoning actions and provides technical support. DNR certifies variances, ordinances amendments, and inconsistent plats.
See Also DNR -	Fish Kill Investigations Program Page 18	·
See Also DNR -	Protected Waters and Wetlands Permit Program Page 1	
See Also DNR -	Shoreland Management Page 18	
See Also DNR -	Water Appropriation Permit Program Page 2	
See Also MDH -	Public Water Supply Program Page 19	
See Also MPCA -	Feedlots Page 2	
·See Also MPCA -	Individual Sewage Treatment Systems Page 19	e*
See Also MPCA -	Minnesota River Program Page 39	
See Also MPCA -	NPDES Permit Program Page 2	
See Also MPCA -	Water Quality Certification Program Page 3	

Authority

2. Enhancement / Restoration

Agency Name	Program	Authority	Funding	Program Delivery
DNR Program Coordinator (612) 297-5476	Adopt-A-River Program: encourages better stewardship of state rivers by sponsoring group clean-ups of non-point source pollution on designated rivers. Groups make a two-year commitment to clean a stretch at least one a year. Average stretch is 2 miles. Program has 144 active groups.	Commissioner's authority	Funds from Water Recreation Account, MN Conservation Corps used to leverage corporate and private funds that provide support program.	Interested groups contact the Program Coordiantor, who provides "how-to" kits that explain the program. Groups register with the coordinate and receive a video describing cleanups, and determine a clean-up time and location with the coordinator
DNR Local Area Hydrologist or Floodplain Management Program: (612) 296-4800	Flood Damage Reduction Program: provides matching grants to local governments to implement flood damage reduction projects.	MN Statute 103F.161	State General Fund and Bonding	Local Area Hydrologists provide assistance. If funds are available, DNR can make grants up to \$75,000. For larger projects, the legislature acts on bonding requests.
DNR Regional Fisheries Managers	Trout Stream Habitat Improvement Program: improves trout habitat on streams in public ownership or where easements have been acquired by DNR. Includes grading of banks, rock riprap, and addition of instream cover structures as needed to improve habitat.	MN Statutes: 97.135, .141 and .145.	Supported by federal funds through Trout Stamp purchases, and state RIM funds and fishing license revenues.	Program is delivered through Area Fisheries offices. DNR staff survey streams, prioritize for improvements and implement improvement projects.
DNR Regional Fisheries Managers	Warmwater Stream Habitat Improvement Program: includes a variety of techniques to maintain and improve fish habitat, such as shoreline stabilization, addition of instream cover and structures, and flow modifications such as dam or barrier removal.	MN Statutes: 97.135, .141 and .145.	Supported by Fishing license fees, federal Sport Fish Restoration funds and some state bonding funds.	Area Fisheries managers propose and implement projects.
Metropolitan Council Natural Resources Division: (612)291-6359	Minnesota River Programs: special funds which the Council can grant to local governments to implement nonpoint source programs or other measures to protect and enhance the quality of the Minnesota River.	Settlement agreement between Metro Council and MWCC.	\$132,000	Council and local governments develop projects that are implemented at the local level.

2. Enhancement / Restoration

Agency Name	Program	Authority	Funding	Program
U.S. Army Corps of Engi St. Paul District Planning Division: (612) 220-0402	Upper Mississippi River System Environmental Management Program (EMP): authorizes the Corps of Engineers to implement habitat rehabilitation and enhancement projects along commercially navigable portions of the Upper Mississippi River System with the states and other federal agencies. (Includes the Upper Mississippi River below Minneapolis, the Minnesota River below Shakopee, and the St. Croix below Stillwater).	Section 1103 of the 1986 Water Resources Development Act (PL 99-662).	Congress provides program funds annually to the Corps of Engineers. Projects not located on Federal land require non-Federal cost sharing.	State and federal identify proposed Corps plans, deconstructs, and projects in cooul. S. Fish and and other Federal agencies. Projects by the St. Paul higher headqual and construction
See Also BWSR -	Cost Share Program Page 4			
See Also BWSR -	Local Water Resources Protection Page 20	Program		
See Also BWSR -	Special Projects Page 4			
See Also BWSR -	Streambank, Lakeshore and Roads Page 20	side (SLR) Program		
See Also MPCA -	Clean Water Partnership Program			- 1

See Also U.S. Army - Project Modification for Improvement of the Environment Program
Corps of Engineers Page 6

Individual On-Site Wastewater Treatment Systems Grant Program

See Also USFWS - Sport Fish & Wildlife Restoration Program
Page 21

Page 6

Page 21

See Also MPCA -

Program Delivery

State and federal agencies identify proposed projects. The Corps plans, designs, constructs, and monitors the projects in cooperation with the U.S. Fish and Wildlife Service and other Federal and State agencies. Projects are submitted by the St. Paul District to higher headquarters for funding and construction approval.

I. Surface Waters; C. Streams / Rivers

See Also USFWS -

3. Acquisition / Easements

Agency Name	Program	Authority	Funding	Program Delivery
DNR Area Fisheries Supervisors	Fisheries Land Acquisition for Angler Access Program: acquires corridor easements on designated trout streams for access by anglers and management agency and for riparian protection.	MN Statutes 97A.135, 97A.141 and 97A.145	Fishing license fees; Federal Aid in Sportfish Restoration; Trout Stamps; and ReInvest in Minnesota (RIM) funds.	DNR Fisheries personnel solicit landowners to sell corridor easements. Anglers are then permitted access to fish.
DNR Regional Fisheries Managers	Trout Stream Easements Program: acquires easements along trout streams to improve angler access. Includes riparian protection and habitat improvement activities.	MN Statutes: 97A.135, .141 and .145	Supported by license fees, bonding, and partical reimbursement from federal Sport Fish Restoration Funds.	Area Fisheries Managers propose and implement projects.
DNR Trails and Waterways Divisio (612)297-1151	Easement Acquisition: Rules 6105 ails and Waterways Division: purchases scenic easements on		Bonding	DNR Trails and Waterways Unit coordinates acquisition and planning, and develops priority list and budget for acquisition.
See Also DNR - A	quatic Management Areas age 23			
See Also DNR - L				
See Also DNR - N				
See Also DNR - Reinvest in Minnesota (RIM) Program Critical Habitat Match Page 63				
See Also USFWS - Acquisition / Easement Program Page 8				

Sport Fish & Wildlife Restoration Program (Federal Aid Program)
Page 21

4. Inventory / Classification

Agency Name	Program	Authority	Funding	Program Delivery
DNR Senior Biologist: (218)739-7449	In-Stream Flow Programs: collect biological and hydraulic data, mainly on warm-water streams, and apply In-stream Flow Incremental Methodology (IFIM) models to examine water-level manipulations (i.e., dams and water appropriations) and their effects on the ecology of the stream. Goal is to develop a modelling method that may be incorporated into water appropriation rules.	MN Statutes: 103G.	RIM funds.	Studies are coordinated by Fergus Falls Regional office.
DNR Survey and Systems Coordinator: (612)297-3287	Stream Creel Surveys (also called Study IV surveys): One stream in Minnesota is surveyed annually, based on management priorities. Survey includes fishing pressures, harvest, catch and recreational use paramenters.	MN Stat. 97A.045	State Fish and Game funds, partially reimbursed by USFWS Federal Aid for Sport Fish Restoration Funds. Occasionally Trout Stamp funds are also used.	Department produces a report for each creel survey, and uses data gathered to develop stream management plans.
DNR Survey and Systems Coordinator: (612)297-3287	Stream Management Data Base: Department is currently developing this data base to include all data from DNR stream surveys and monitoring programs.	MN Stat. 97A.045	State Fish and Game funds, partially reimbursed by USFWS Federal Aid for Sport Fish Restoration Funds.	Database maintained at Fisheries Division offices in St. Paul.

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I. Surface Waters; C. Streams / Rivers

4. Inventory / Classification (Cont.)

Agency Name	Program	Authority	Funding	Program Delivery
DNR Survey and Systems Coordinator: (612)297-3287	Stream Survey Program: surveys completed on 125 streams annually for fish population, water quality, and habitat parameters for assessment and long-term monitoring. Streams are surveyed on a rotating basis, with high-use and larger streams and those where problems are suspected surveyed more frequently.	MN Stat. 97A.045	State Fish and Game funds, partially reimbursed by USFWS Federal Aid for Sport Fish Restoration Funds.	Ecological Services Division Coordinates stream research and surveys. Results are used in development of stream management plans.
DNR Survey and Systems Coordinator: (612)297-3287	Study IV Surveys on Streams: Special investigations to assess particular fish populations or steams as needed to address issues or develop management plans.	MN Stat. 97A.045	State Fish and Game funds, partially reimbursed by USFWS Federal Aid for Sport Fish Restoration Funds.	Department produces a report for each Study IV survey, and uses data gathered in developing stream management plans.

See Also BWSR -	Local Water Resources Protection and Management Program Page 10
See Also USFWS -	National Wetlands Inventory Page 11

5. Monitoring / Assessment

Agency Name	Program	Authority	Funding	Program Delivery
DNR Surface Water Hydrologist: (612)296-4800	Stream Flow Data: weekly summary (March-Sept.) contains current flow data, trends, low flow, and flood flow warnings. Developed to identify watersheds where flows are below critical levels and water appropriation permits should be suspended. Data available from 61 gage sites.	MN Stat. 97A.045	State Fish and Game funds, partially reimbursed by USFWS Federal Aid for Sport Fish Restoration Funds	Division of Waters produces a Stream Flow Summary, a hard copy list of flows and state map showing high, normal, low and critical flows for 84 major watersheds. Surface Water Hydrologist provides data.
MDA Agronomy Services Division - Monitoring and Survey Unit: (612) 297-3994	Statewide Surface Water Quality Monitoring for Pesticides Program: primary goal is to define the long term impacts of normal agricultural pesticide applications. Includes a rainfall water quality monitoring component.	MN Statues 18B.04	General Fund	Monitoring is conducted at the state level by MDA in cooperation with other state or federal agencies and local units of government. Results are reported on a biennial basis.
Metropolitan Council Natural Resources Division: (612)291-6359	Nonpoint Pollution Load Targets-Metro Area Streams: Council develops target pollution loads for each of the creeks in the metro area to meet water quality standards in the main rivers. Standards are to be completed in 1993 for the Lower Minnesota River; the Mississippi and St. Croix watersheds will be evaluated next.	MN Surface Water Management Act	Funding comes from state and federal grants to the Council as well as chargebacks to the MWCC and ad valorem taxes in the metropolitan area.	Council Natural Resources staff develop target loads to be adopted by local watershed districts and governments in their plans.
MPCA Water Quality Division: (612) 296-7202	Ambient (Routine) Water Quality Monitoring Program: collects background water quality data on a monthly basis from 75 stations, including 19 stations on the National Fixed Station Network. Some sites are rotated throughout the state. Water samples are analyzed for a variety of chemical, physical and biological characteristics, and the data is entered into the federal water quality data system (STORET).	MN. Statutes 116.07	Fed 106 Funds, State General Fund	MPCA collects data on a monthly basis, 10 months per year, enter data into STORET, and retrieved it for agency and public use.

I. Surface Waters; C. Streams / Rivers

5. Monitoring / Assessment (Cont.)

Agency Name	Program	Authority	Funding	Program Delivery
MPCA Water Quality Division: (612) 296-7202	Intensive Surveys Program: conducted on streams, rivers, and ditches receiving discharges from municipal wastewater treatment plants where stream flows are considered inadequate to protect water quality standards. Data collected are used to determine appropriate effluent limits. An average of three to five surveys are conducted each year. Data collected during the surveys are stored in the national STORET Water Quality System database.	Clean Water Act, Section 302 Minnesota Rules 7050 - Water Quality Standards	State General Fund, Federal 106 Funds	MPCA identifies intensive survey locations during facility planning for a new or expanded discharge or when applications are made for a new or renewed NPDES permit. A minimum of two surveys are conducted at times which approximate low flow conditions. MPCA collects and analyzes data, and determines appropriate effluent limits for a discharge.
MPCA Water Quality Division Nonpoint Source Section: (612) 296-7356	Minnesota River Project: first phase (1992-93) includes monitoring and assessment for physical/chemistry, biology, and land use modeling for NPS load reductions. Later phases will include demonstration projects to implement best management practices.	MN Stat. 116	Environmental Trust Fund	MPCA is coordinating this cooperative effort with state, federal and local governments, policy makers and citizens. Citizen Advisory Committee coordinates citizen imput.
USFWS Environmental Management Technical Center: (608)783-8058	Long Term Resource Monitoring Program (LTRMP): provides information to decision makers to maintain the Upper Mississippi River System as a viable large river ecosystem (includes navigable portions of the Mississippi, St. Croix and Minnesota Rivers). Includes efforts to determine resource trends and impacts, develop management alternatives, manage information, and develop useful products, such as a geographic information system (GIS).	The LTRMP is part of the Environmental Management Program authorized by the Water Resources Development Act of 1986 (Public Law 99-662) for a duration of 10 years, starting in 1987. The Water Resources Development Act of 1990 (Public Law 101-640) extended the program to the year 2002.	Separate Congressional funding	The LTRMP is being implemented by the Environmental Management Technical Center of the USFWS in cooperation with the five Upper Mississippi River Basin System states (Illinois, Iowa, Minnesota, Missouri, and Wisconsin), and the U.S. Army Corps of Engineers. Staff at six field stations collect data. Information is available at the EMTC, 575 Lester Avenue, Onalaska, WI, 54650.

See Also DNR -

See Also USGS -

5. Monitoring / Assessment (Cont.)

Fisheries Research Program Page 25

Federal-State Cooperative Program
Page 57

Agency Name	Program	Authority	Funding	Program Delivery
USFWS National Fisheries Research Center: 608)783-6451	National Fisheries Research Center; National Fisheries Contaminants Research Center; Northern Prairie Wildlife Research Center: conduct research concerning fish and wildlife resources of the Upper Mississippi River. Research has included contaminants, freshwater mussels, abundance and distribution of aquatic vegetation, fish and wildlife populations and changes to the riverine environment.	U.S. Fish and Wildlife Service Authorities	Congressional appropriation.	Research activities are coordinated by the U.S. Fish and Wildlife Service, National Fisheries Research Center, P.O. Box 818, LaCrosse, Wisconsin, 54601, 608/783-6451; National Fisheries Contaminants Research Center, Box 936, LaCrosse, Wisconsin, 54601, 608/7836451; Northern Prairie Wildlife Research Center, LaCrosse Field Station, Box 2226, LaCrosse, Wisconsin, 54601, 608/783-6451.
USGS Water Resource Division: (612) 783-3200	Federal-State Cooperative Program: collects and interprets information on stream and river flow and quality in Minnesota through an established long-term network of gauging and monitoring stations, and as a result of special studies.	Congress of the United States, 1879 Organic Act	Cooperative matching funds (Federal and State/Local Governments)	USGS publishes information annually relating to stream and river discharge and quality. Data are also available by access to the USGS WATSTORE computer data base. Information is routinely provided to private citizens and governmental agencies.
See Also BWSR - Local Page	·			
See Also DNR - Fish Page 2	Contaminants Monitoring Pro	ogram		

Program Delivery

Sponsors of river basin projects request assistance through State Office. Contact Water Resources Section, 375 Jackson St., Suite 600, St. Paul, MN 55125.

Sponsors request assistance through State Office. Contact Water Resources Section, 375 Jackson St., Suite 600, St. Paul, MN 55125.

I. Surface waters; C. Streams / Rivers

6. Technical Assistance

Agency Nam	Agency Name Program		Authority	Funding
SCS Water Resources Staff I (612)290-3682	Leader	Cooperative River Basin Studies: efforts with other federal, state and local agencies to appraise water and related resources and develop plans for conservation, use and development.	Public Law 83-566	Federal budget. Technical assistance funded 100% in approved studies.
SCS Water Resources Staff I (612)290-3682	ì	Flood Plain Management Studies: provide assistance to local and state entities for programs to reduce existing and future flood damages.	PL 83-566 Section 6	Federal funds. Technical assistance funded 100% in approved projects.
See Also BWSR -	Genera Page 14	l Services		
See Also BWSR -	Lake S Page 28	uperior Shoreline Erosion	& Sediment Control	
See Also SCS -	Hydrol Page 28	ogic Unit Areas		
See Also SCS -	PL-566 Page 6	Watershed Program		
See Also SCS -	Techni Page 14	cal Assistance		
See Also SCS -	Water Page 28	Quality Special Projects		
See Also SWCD -	SWCD Page 15	Technical Assistance Progr	rams	

7. Training

Agency Name

MPCA

Water Quality Division: (612) 296-7202

Program

Wastewater Treatment Facility Operator
Certification, Training
and Assistance Program:
provides mandatory training to
wastewater collection system
and treatment facility operators. Certification is obtained through a combination of facility experience and by passing a written examination. On-the-job operator assistance and facility troubleshooting is provided to supplement the classroom training.

Authority

Minn. Stat. 115.71 through 115.82 Minn. Rules ch. 9400.0200 - 9400.1400

Funding

State Wastewater Operator Training Fund State General Fund EPA 104(g)1 grant Program Delivery

Approximately 15 to 25 training courses are held each year at locations throughout the state. Certification examinations are generally offered at each course. MPCA provides on-the-job assistance to any facility with a design flow less than 1.0 million gallons per day.

See Also MPCA -

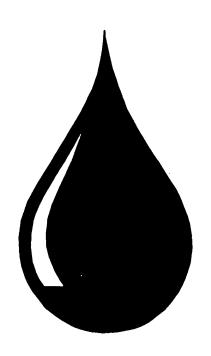
Individual Sewage Treatment Systems Page 19

I. Surface Waters; C. Streams / Rivers

8. Education

Agency Nam	Program Authority Funding	Program Delivery
See Also DNR -	MinnAqua Page 30	
See Also SCS -	SCS Education Programs Page 17	
See Also USFWS -	USFWS Information and Education Programs Page 17	

GROUNDWATER



II. GROUND WATER

A. Protection / Regulation

Agency Name	Program	Authority	Funding	Program Delivery
BWSR Grants Coordinator: (612) 297-3767	State Ground Water Cost- Share Program: provides grants to landowners for sinkhole treatment.	MN Statutes 103C.501	LCMR Funds.	Program is delivered through SWCD offices in SE Minnesota.
BWSR Hydrogeologist: (612) 296-3767	Well-Sealing Cost-Share Program: provides grants to counties to share the cost of sealing high-priority abandoned ground water wells with landowners.	MN Statutes 103I.331	State General Fund and LCMR.	Counties deliver cost-share assistance to landowners and administer the program locally. Local water planning coordinators or BWSR provide information.
DNR Supervisor, Ground Water Unit: (612) 296-0434	Underground Gas Storage Project: reviews, analyzes and monitors the use of natural underground geologic formations as reservoirs to store gas or other liquids, as the injection of these liquids displaces ground water stored in aquifers.	MN Statutes 103I.681-103I.691	General Funds and Permit Fees.	Ground Water Unit Supervisor in St. Paul implements this project.
DNR Permit Coordinator: (612) 296-4800	Water Appropriation Permit Program: requires and reviews permit applications to appropriate more than 10,000 gallons of water per day or 1 million gallons per year from public waters. Includes resolution of water use conflicts and well interferences. 6500 total permits issued with approximately 300 new permit actions per year.	MN Statutes: 103G.101 to 103G.315 MN Rules: 6115.0600 to 6115.0810	Program is funded out of the state General Fund. Permit application and annual report of water use processing fees go to the General Fund.	Permit applications are received at the DNR Regional Office. Area hydrologists review applications and make recommendations for final actions. Permits are approved or denied at the Regional or Central Office, depending on permit type.
MDA Agronomy Services Division: (612) 297-4872	Agricultural Chemical Response and Reimbursement Account (ACRRA): provides reimbursement to responsible parties who report and clean up incidents involving agricultural chemicals.	MN Statutes 18E	Pesticide Registration Fees, Dealer License Surcharges, Fertilizers Tonnage Fees, and Applicator License Surcharges.	The Agricultural Chemical Response Compensation Board administers the ACRRA Program. The Board accepts applications for reimbursement, determines eligibility of claims, the amount of reimbursement due the applicant, and orders the reimbursement.

Agency Name	Program	Authority '	Funding	Program Delivery
MDA Agronomy Services Division - Incident Response Unit: (612) 297-1975	Agricultural Chemicals Spills Response Program: requires that spills of agricultural chemicals (pesticides or fertilizers) be immediately reported to MDA. MDA personnel are on 24-hour call to respond to incidents.	MN Statutes 18D.103 and 18D.105	Federal Grants, Pesticide Registration Fees, Superfund, and penalties.	This program is administered statewide by the MDA. Any person who has a spill (any quantity) of an agricultural chemical is required to immediately report it to the MDA.
MDA Agronomy Services Division - Facilities Unit: (612) 297-2614	Bulk Fertilizer Storage Program: requires that owners or operators of fertilizer storage facilities obtain permits for storage of liquid or dry fertilizers. Applications must include site plans and details. (New rules are currently being developed.)	MN Statutes 18C.305; MN Rules 1510.0370- 1510.0380 and 1510.0400- 1510.0408.	Fertilizer License Fees, Fertilizer Tonnage Fees, and penalties.	MDA administers this program statewide and reviews permit applications regarding compliance with bulk storage rules. Agronomy Services Field staff inspect operating facilities.
MDA Agronomy Services Division - Facilities Unit: (612) 297-2614	Bulk Pesticide Storage Program: requires owners/operators of pesticide storage facilities to obtain permits for storage of pesticides in containers of 500 gallons or more (or 100 lbs. net dry weight). Application must include site plans and details.	MN Statutes 18B.14; MN Rules 1505.3010 - 1505.3150	Federal Grant, Permit Fees, Pesticide Registration Fees, and Penalties	MDA administers this program statewide and reviews permit applications regarding compliance with the bulk storage rules. Agronomy Services Field Staff inspect operating facilities.
MDA Agronomy Services Division - Facilities Unit: (612) 297-2614	Chemigation Permits Program: requires permits for any person applying pesticides or fertilizers though irrigation systems.	MN Statutes 18B.08 and 18C.205; MN Rules 1505.2000-1505.2080 (current pesticides only), 1505.2100-1505.2800 (effective 1/1/94, pesticides and fertilizers).	Federal Grant, Pesticide Registration Fees, Fertilizer Tonnage Fees, Permit Fees.	MDA administers this program statewide, reviews permit applications regarding compliance with the Chemigation Rules, and makes spot field inspections.
MDA Agronomy Services Division - Special Projects Unit: (612) 297-7178	Nitrogen Fertilizer Management Plan: Prevention and response plan to prevent unacceptable contamination of Minnesota's water resources from nitrogen fertilizers. Primary focus to date has been outreach and the promotion of Best Management Practices.	MN Law 1989, Chapter 326, Article 6, Section 33; MN Statutes 103H	Fertilizer License Fees and Tonnage Fees.	MDA administers this program statewide through cooperative efforts with other agencies, institutions and local units of government.

II. Ground __ter

Agency Name	Program	Authority	Funding	Program Delivery
MDA Agronomy Services Division - Pesticide Registration Unit: (612) 297-2530	Pesticide Management Plan: Prevention and response plan designed to prevent unacceptable pesticides contamination of Minnesota's water resources.	MN Statutes 18B.045; MN Statutes 103H	Federal grant and Pesticide Registration fees	MDA develops and implements the PMP. Other agencies and local units of government may be involved in implementation of some sections of the Plan.
MDA Agronomy Services Division - Waste Pesticide Unit: (612) 297-7082	Waste Pesticide Collection Program: collects and disposes unwanted agricultural pesticides.	MN Statutes 18B.065 MN. Rules 1509.0010 - 1509.0050	Pesticide Registration Fees and penalties.	MDA implements this program through cooperative efforts with local units of government (mainly counties) on a county or regional basis.
MDH Division of Environmental Health: (612) 627-5100	Health Risk Limits Program: develops health-based standards for ground water contaminants to be used by ground water regulatory programs in accordance with provisions of the 1989 Ground Water Protection Act, or incorporated into existing or new groundwater regulations.	MN Statutes 103H.201	State General Fund	MDH's Section of Health Risk Assessment develops health risk limit rules.
MDH Public Water Supply Unit: (612) 627-5180	Public Water Supply Program: regulates public water supplies that use ground water and surface water sources through enforcement of water quality standards and facility construction standards. Provides technical assistance, training, and public information/education.	MN Statutes 144.381 - 144.387 MN Rules Chapter 4720	Fees and Federal Safe Drinking Water grant	MDH enforces the federal Safe Drinking Water program in Minnesota through a primacy agreement with U.S. EPA. MDH performs most of the monitoring required of public water suppliers. MDH staff conduct routine inspections of public water supplies, collect water samples, enforce construction standards, and provide training and certification for water operators. Remediation activities and public notice are the responsibility of the water

Agency Name	Program	Authority	Funding	Program Delivery
MDH Well Management Unit: (612) 627-5410	Well Management Program: enforces the state well code to protect public health and ground water. Requires that persons constructing, repairing, or sealing wells or borings in Minnesota be licensed by MDH in one or more of eight license categories and that MDH be notified prior to construction of any water supply well. Requires construction permits for all monitoring wells, elevator shafts, heat pumps, and heat loops and some dewatering wells.	MN Statutes 103I MN Rules Chapter 4725	State General Fund and fee recovery	Staff in eight district offices conduct inspections of the work of approximately 500 licensed/registered contractors involved in the construction, sealing, and repair of wells and borings to ensure compliance with the state well code. MDH also conducts training sessions throughout the year to provide information to well contractors, local program officials, and the general public. Water quality and well construction information are available on a computer database for wells constructed since Jan. 1, 1991.
MDH Supervisor, Special Services Unit: (612) 627-5169	Wellhead Protection Program: protects public wellhead areas (WHPAs) from contaminants that may adversely affect human health. Public water suppliers will be required to delineate WHPAs, inventory potential contaminant sources, and develop a program for managing contaminants in wells. The program will include a Geographic Information System to handle data, technical assistance, training, and education components. (Program is currently being developed.)	1986 Amendments to the Federal Safe Drinking Water Act, Section 1428; MN Statutes 103I.101, Subd. 5	State General Fund, Well notification filing and permit fees; and U.S. EPA Clean Water Act, Sections 106 and 319 Ground Water and Nonpoint Source Grants.	This program is currently in the developmental phase. MDH will work closely with public water suppliers and local units of government in developing long-term WHPA management plans.
MPCA Hazardous Waste Division: (612) 297-8502	Hazardous Waste Management Program: provides a tracking system for hazardous wastes. Tracks materials from the point at which the wastes are generated to their final disposal, and ensures that at all times the wastes are stored, handled and disposed of safely.	U.S. Resource Conservation and Recovery Act; MN Rules Chapters 7001 and 7045 (Hazardous Waste Management, Treatment, Storage and Disposal).	Federal funds and fees	The MPCA licenses all generators of hazardous waste and provides assistance to companies in managing hazardous wastes. (There is no small-quantity exemption in Minnesota.) Waste generators must notify MPCA of waste shipments and verify receiving locations and proper disposal. Facility owners must clean up on-site contamination. Criminal penalties may be assessed for improper waste management.

Agency Name	Program	Authority	Funding	Program Delivery
MPCA Tanks and Spills Section: (612) 297-8564	Leaking Underground Storage Tank Program (LUST): guides owners and operators of leaking USTs through the remediation process and assists in recovering remediation costs. Leaks must be reported within 24 hours of discovery and corrective action initiated. Provides technical assistance to persons involved with buying and selling property where tanks are located and to contractors and consultants involved with identification and remediation of release sites.	U.S. Resource Conservation and Recovery Act, Subtitle I; MN Rules ch. 7150	State Petrofund and Federal LUST-Trust Grant. Eligible owners and operators may recover up to 90 percent of their remediation costs from the Petroleum Tank Release Compensation Fund.	MPCA staff provide assistance with staff teams consisting of a project leader, a pollution control specialist, and a hydrologist who oversee cleanup projects. Staff in MPCA regional offices may assist in facilitating cleanups, especially in inspection of application sites for the treatment of petroleum-contaminated soil.
MPCA Water Quality Division: (612) 296-7202	Nonpoint Source Pollution Management Program: includes a variety of activities to assess and reduce pollution of surface and ground water from nonpoint sources. Includes the Individual Sewage Treatment Systems, Feedlots, and the Clean Water Partnership Programs, plus special assessments of problems (such as nitrogen in ground water), and development of best management practices.	Clean Water Act, Section 319; MN Statutes, chapters 115, 116, and 103H; MN Rules, chapters 7076 (Clean Water Partnership), 7020 (animal feedlots), and 7080 (individual sewage treatment systems).	Clean Water Act, Sections 319, 205, Legislative Commission on Minnesota Resources (LCMR), and State General Fund.	Program is implemented by MPCA staff at the St. Paul office and five Regional offices, in cooperation with local governments, soil and water conservation districts, the Minnesota BWSR, and other state and federal agencies involved in nonpoint source pollution programs.
MPCA Water Quality Division: (612) 296-7202	Sewage Sludge Management Program: issues permits for the design, location, and operation of municipal sewage sludge landspreading sites and facilities.	MN Rules 7040 and 7001	Permit Fees	MPCA issues permits and regulates activities.

Agency Name	Program	Authority	Funding	Program Delivery
MPCA Ground Water and Solid Waste Division Program: (612) 296-7777	Solid Waste Disposal Program: requires permits for most categories of solid waste disposal, storage, and transfer facilities: municipal solid waste, demolition debris, industrial, and incinerator ash landfills; solid waste and yard waste composting, transfer, recycling, and infectious waste storage, treatment, disposal, and transport facilities; and facilities processing municipal solid waste into refuse derived fuel.	MN Statutes 115, 115A, 116; MN Rules Ch. 7001, 7035	State General Fund, fees, SCORE.	MPCA issues permits. Permit requirements vary, depending on type of facility. The formal permit process involves public comment and input, but some categories of small facilities may obtain a permit-by-rule which does not require public comment/input. Permit-by-rule facilities must still comply with design, siting, and operation requirements.
MPCA Water Quality Division: (612) 296-7202	State Disposal System Permit Program: grants permits to facilities operating waste disposal systems that discharge wastewater to the environment (lakes, streams, ground water, land surface, etc.). The permits limit pollutants from entering the waters of the state.	MN Statutes 115.03, subd.1 MN Rules 7001	Permit fees	MPCA issues permits for up to five years. Public notices and public comment periods allow citizen involvement in the permit process.
MPCA Division of Ground Water and Solid Waste: (612) 296-7777	Underground Disposal Control Program: regulates the use of on-site sewage treatment systems for disposal of industrial and commercial wastewaters. Requirements apply to all commercial and industrial wastewater discharges which are disposed underground or in seepage pits. It does not apply to facilities which discharge all their wastewater to a publicly-owned wastewater treatment plant or have a permit to discharge to surface waters.	MN Statutes 103H; MN Rules, Chapters 7001 and 7060.	State General Fund	The program is now in the development phase. Currently, facilities are referred to the Underground Disposal Coordinator by other state or local programs.

Agency Name

MPCA

Tanks and Spills Section: (612) 297-8564

Program

Underground Storage Tank (UST) Program: maintains a database of registered underground storage tanks in the state, which now number over 43,000 and includes 10-day advance notices for the installation and removal of USTs. Program staff inspect selected sites for compliance with state and federal requirements. The program includes outreach and technical assistance.

Authority

U.S. Resource Conservation and Recovery Act, Subtitle I;

MN Rules, ch. 7105 and 7150.

Funding

General Fund, Federal UST Program Grant

Program Delivery

The MPCA implements the program, often with the input and assistance of local units of government. State inspectors in the St. Paul office and five regional offices conduct compliance inspections, provide technical assistance, and enforce UST rules. Local officials, especially in the larger metropolitan areas, conduct inspections and enforce local ordinances. Persons who install repair or remove tanks must be certified by the MPCA.

B. Remediation

Agency Name	Program	Authority	Funding	Program Delivery
MPCA Ground Water and Solid Waste Division: (612) 296-7777	Property Transfer Technical Assistance Program: provides file evaluations and technical assistance for buyers, sellers, lending institutions, or property owners who want to assess a property for potential environmental problems.	MN Statutes 115B.17, subd.14; 1992 Minnesota Land Recycling Act (Chapter 512 of the 1992 Session laws)	Costs are paid by party requesting the services.	Upon request, the MPCA may provide assistance or review of voluntary investigations and clean-up plans, and oversee response action implementation. Assistance may include a review of MPCA records and files.
MPCA Hazardous Waste Division: (612) 297-8502	Spills Response Program: oversees and ensures cleanup of hazardous materials spills, leaks and other catastrophic occurrances. Both federal and state law require those who are responsible for pollution to clean it up. Spill response staff also serve as the "core responders" to emergencies involving other agencies, such as tire fires and abandoned hazardous waste.	MN Statutes 115; Minnesota Environmental Response and Liability Act; U.S. Oil Pollution Act; U.S. Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA).	General Fund, Minnesota State Petrofund, U.S. UST Fund. Approximately \$400,000 per year expended on State funded emergency actions because spiller is unable/unwilling to properly respond.	All spills and incidents are required to be reported to the MPCA when they occur. MPCA staff coordinate the cleanup process. The Spills Response Team in St. Paul is on-call 24-hours daily, with assistance from MPCA regional offices. Training has been given to clean-up contractors to explain the MPCA guidance.
MPCA Ground Water and Solid Waste Division: (612) 296-7777	Superfund and Site Assessment Program: allows the MPCA to respond to releases or threatened releases of hazardous substances, largely from inactive or abandoned disposal sites, for the protection of public health, welfare or environment.	U.S. Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA); MN Statutes 115B	Tax on Hazardous Waste generators and reimbursement of State expenses from responsible parties.	MPCA implements programs and may take removal or response actions if responsible parties do not. Program includes a fund for removal or remedial actions and injury compensation due to an exposure to a release, and establishes a process from site investigation through cleanup.

C Acquisition / Fasements

Agency Name	Program	Authority	Funding	Program Delivery
BWSR RIM Reserve Coordinator: 612) 296-3767	Reinvest In Minnesota (RIM) Reserve Program: funds the purchase of easements that can be used around sinkholes and in wellhead protection areas for ground water protection.	MN Statutes 103F.501 - 103F.535	State General Fund, LCMR funds	Local SWCD offices conduct landowners sign-ups.
D. Inventory / Assessme	ent Program	Authority	Funding	Program Delivery
BWSR		MN Statutes 103I	1	
Hydrogeologist: (612) 296-3767	Abandoned Well Inventory Grant Program: provides grants to selected counties to conduct inventories of abandoned or unused wells.	MIN Statutes 1031	State General Fund	Inventories are conducted by staff at the county level.
BWSR Local Water Planning Coordinator or Hydrogeologist: (612) 296-3767	Local Water Planning (Comprehensive Local Water Planning, Metro Ground Water Planning): gives grant support to counties for conducting inventories of potential ground water contamination sources.	MN Statutes 103B.255 and 103B.301	State General Fund	BWSR provides funding and technical assistance to counties through grant programs that assist in conducting inventories of potential contaminant sources.
DNR Supervisor, LCMR Mapping Program: (612) 297-3877	Geologic Sensitivity Mapping Program: Includes data collection and evaluation to construct county and regional geologic sensitivity maps for	MN Statutes 103H.101	LCMR Funds.	LCMR Mapping Program is completing data collection and constructing maps.

DNR

Ground Water Unit: (612) 296-0422

Observation Well Program: monitors network of wells to record water levels in areas of

present or expected ground water use to assess ground water supplies, impacts of pumping and climate, plan for water conservation, evaluate local complaints and manage the resource.

MN Statutes 103I.101

State General Fund

The Ground Water Unit in St. Paul collects, analyzes and maintains data from the observation well network.

D. Inventory / Assessment (Cont.)

Agency Name	Program	Authority	Funding	Program Delivery
DNR Supervisor. Ground Water Unit: (612)296-0434	Regional Aquifer Studies: Technical investigations of the entire area of an aquifer. Includes data gathering, modeling of flows, prediction of yield capability, water level change for future development levels, and ground water quality.	MN Statutes 103H.101	50% USGS funds and 50% DNR funding with State General Funds.	The Ground Water Unit in St. Paul coordinates these studies.
DNR Ground Water Unit: (612) 296-0427	Well Inventory Program: requires the DNR to identify locations and status of all wells and abandoned wells on state property, present a plan and request appropriations to seal unused wells annually.	MN Statutes 103I.311	State General Fund	The Ground Water Unit in St. Paul implements this program.
LMIC Project Coordinator: (612) 297-4986	Groundwater Clearinghouse Database: will consolidate ground water data from various management agencies into one automated database that will be tied to LMIC's Geographic Information System. Currently includes data from DNR, PCA and MGS, and will later include USGS, Dept. of Ag. and data from special studies.	MN Statutes 103H.175, Subd. 2.	State General Fund.	LMIC is developing this database in cooperation with other agencies. LMIC will assist users in accessing data.
Metropolitan Council Natural Resources Division: (612)291-6359	Twin Cities Groundwater Modelling Program: developing models of ground water supplies and availability on a county-by-county basis. Currently developing Hennepin County model, and may complete other counties and Metro Area-wide models in the future.	MN Statutes 473.156	Council's Metro Area Property Tax levy.	The Council's Natural Resources Division is developing these models.

D. Inventory / Assessment (Cont.)

Agency Name	Program	Authority	Funding	Program Delivery
MDH Well Management Unit: (612) 627-5410	Well Disclosure Program: maintains a database containing well disclosure information. Well disclosure certificates are filed with County Recorders and passed to MDH. Any wells that are not in use must be returned to service, permanently sealed by a licensed well contractor, or placed under annual maintenance permits.	MN Statutes 103I	Supported through a filing fee paid to county recorders.	Property sellers must disclose the status and location of known wells on real property at the time of property transfer. MDH works with county recorders, realtors, title companies, and mortgage bankers to maintain well data and implement this program. Information on wells for a particular property is available upon request. Current plans are to store well disclosure information using an optical scanner.
MGS Senior Scientist, Technical Manager of County Atlas Program: (612) 627-4780	County Geologic Atlas Program: produces maps of bedrock geology and overlying glacial deposits of Minnesota counties. Maps include geologically and hydrologically relevant control points, new maps of bedrock and surficial geology, and Quaternary stratigraphy at scale of 1:100,000 in both paper and ARC/INFO format suitable for GIS use.	MN Laws Ch. 326 (1990 Groundwater Protection Act) and MN Laws 91 Ch. 254 Art. 1 Sec. 14, Subd.4 (f) (LCMR)	\$90,000 cost share from each county; DNR base-level biennial contracts to MGS pursuant to M.L. Ch. 326; augmentation from LCMR-recommended funding 1991-1993 from Environmental Trust Fund, continuation proposal pending.	MGS produces paper maps, ARC/INFO geo-referenced digital data for use in GIS systems; upgrade of County Well Index for counties covered, workshops for county personnel, cooperative work on atlas with county personnel and local college students. Program jointly managed with DNR-Waters which produces accompanying hydrogeologic and sensitivity maps.
MGS Senior Scientist, Technical Manager of Regional Assessment Program: (612) 627-4780	Regional Assessment Program: produces geologic maps of Quaternary (glacial) deposits and near-surface bedrock at scale of 1:200,000 for multi-county areas, and a new regional data base of geologically and hydrologically relevant control points, new maps of surficial geology and Quaternary stratigraphy at scale of 1:200,000 in both paper and ARC/INFO format suitable for GIS use.	MN Laws Ch. 326 (1990 Groundwater Protection Act) and MN Laws 91 Ch. 254 Art. 1 Sec. 14, Subd. 4(f) (LCMR).	DNR base-level biennial contracts to MGS pursuant to M.L. Ch. 326; augmentation recommended by LCMR 1991-1993 from Environmental Trust Fund, continuation proposal pending.	MGS produces paper maps, ARC/INFO geo-referenced digital data for use in GIS system; workshops for county personnel, and upgrade of County Well Index for counties covered. Program jointly managed with DNR-Waters Division which produces accompanying hydrogeologic and sensitivity maps.

D. Inventory / Assessment (Cont.)

Agency Name	Program	Authority	Funding	Program Delivery
MPCA Ground Water Solid Waste Division, Ground Water Unit Supervisor: (612) 296-7786	Potential Sources of Ground Water Contamination Inventories: includes the Master Entity System, a computer database listing potential sources of ground water contamination: suspected hazardous waste contamination sites, state and federal superfund sites, hazardous waste permit and enforcement sites, solid waste permit sites, and known dumps.	MN Statutes 115	General Fund, US EPA Clean Water Act, and Section 106 Ground Water Grant.	MPCA staff maintain and update the database. Requests for information from the Master Entity System are handled on a fee-for-service basis. The MPCA is currently developing a strategy for exchanging potential contaminant source information with other government units. MPCA coordinates an interagency work group on the developmment of ground water contamination inventories.
USGS Water Resources Division: (612) 229-2600	Federal-State Cooperative Program: collects and interprets information on ground water quality and quantity for Minnesota through special studies.	Congress of the United States, 1879 Organic Act	Cooperative matching funds (Federal, State and Local Governments).	USGS publishes information relating to groundwater quantity and quality. Data are also available by access to the USGS WATSTORE computer data base. Data are routinely provided to private citizens and governmental agencies.

E. Monitoring

Agency Name	Program	Authority	Funding	Program Delivery
Metropolitan Council Natural Resources Division: (612) 291-6359	Polyaromatic Hydrocarbons (PAH) Monitoring Program: Monitors movement of PAH's from highway stormwater runoff to ground water in cooperation with the Minnesota Department of Transportation.	MN Statutes 473.156	Council's Metro Area Property Tax levy.	Council's Natural Resources Division staff coordinate this program.
MDA Agronomy Services Division, Monitoring and Survey Unit: (612) 291-3994	Statewide Ground Water Quality Monitoring for Pesticides Program: monitoring to define the long term impacts of normal agricultural chemicals use on water quality.	MN Statutes 18b.04	State General Fund	MDA conducts monitoring through statewide diagnostic and time trend networks. Results are reported on a biennial basis.
MDH Supervisor, Special Services Unit: (612) 627-5169	Water Supply Monitoring-Metropolitan Mixed Municipal Solid Waste Facilities: monitors selected at risk private and public wells in the seven-county metropolitan area that may potentially be affected by mixed municipal solid waste facilities. All well water samples are analyzed for certain leachate indicator parameters and volatile organic chemicals.	MN Statutes 473.845, Subd. 2	Metropolitan Landfill Contingency Action Fund	MDH annually selects and samples approximately 200 private/public wells at no cost to the owner. Analytical results are provided to the well owner, county health department, and the MPCA. Summary results are available in the annual report provided to the Legislative Commission on Waste Management.
MPCA Ground Water and Solid Waste Division Manager: (612) 296-8580	Ground Water Monitoring and Assessment Program (GWMAP): evaluates baseline ground water quality conditions in the principal aquifers used in Minnesota. Utilizes data collected by several programs in the state and collects ground water samples from domestic and public water supply wells and monitoring wells. Trend analyses are conducted on contaminants associated with industrial, commercial and domestic land use activities.	MN Statutes Ch. 115, 1989 Minnesota Ground Water Protection Act.	State General Fund.	GWMAP provides technical assistance to local units of government for the design and operation of regional ground water monitoring networks. Data are maintained in the national STORET database. The ground water information is routinely available in biennial reports and upon request from the MPCA.

E. Monitoring (Cont.)

Agency Name

USGS

Water Resources Division: (612) 782-3200

Program

Federal-State Cooperative Program: collects and interprets information on ground water quality and quantity for Minnesota through special studies. Authority

Congress of the United States, 1879 Organic Act

Funding

Cooperative matching funds (Federal, State and Local Governments) and Federal funding.

Program Delivery

USGS publishes information related to groundwater quantity and quality. Data are also available by access to the USGS WATSTORE computer data base. USGS routinely provides data to private citizens and agencies.

F. Technical Assistance

Agency Name	Program	Authority	Funding	Program Delivery
BWSR Hydrogeologist: (612) 296-3767	Metropolitan Ground Water Planning Program: provides funding and technical assistance to metropolitan counties to prepare and implement ground water plans.	MN Statutes 103B.255	State General Fund	BWSR Hydrogeologist assists local governments with plan preparation, coordination of plan review and approval process, and technical and financial assistance with plan implementation.
DNR Ground Water Unit: (612) 296-0439	Geophysics Program: applies a variety of techniques to map subsurface ground water units, evaluate mineral resources, quantify ground water supplies, locate buried wastes and trace contaminant plumes. Will also be applied to regional aquifer studies and county and regional geological atlas mapping programs.	MN Statutes 103H.101	State General Fund	The DNR Ground Water Unit in St. Paul implements this program.
DNR Supervisor, Ground Water Unit: (612) 296-0433	Technical Analysis and Appropriation Permits Support: provides technical support and investigations for allocation of ground water. Includes assessing the impacts of resource development actions, quantification of ground water supplies and technical assistance for resource management.	MN Statutes 103H.101	State General Fund	Ground Water Unit Supervisor coordinates assistance.
MGS County Services Office: (612) 627-4784	County Services Office Programs: assists counties and the public in acquiring geologic and ground water information, including access to County Well Index (MGS database of well logs for personal computer access). Assists public in use of MGS files of well logs, soil borings, geological test logs, published maps and reports.	MN Statutes 91, Ch. 254 Art. 1 Sec. 14, Subd.4 (f) (LCMR)	1991-1993 funding recommended by LCMR from Environmental Trust Fund; renewal proposal pending	MGS answers questions on water wells for public free of charge at (612) 627-4784. Photocopies of well records and diskettes of CWI data available for small fee. Training sessions on use of CWI arranged for county and regional groups. Limited geological and geochemical investigations, technical assistance on interpreting geochemical data and well logs are available at county request. MGS completes detailed technical reviews of local water plans (initial and revised versions).

See Also SCS -

See Also SCS -

F. Technical Assistance (Cont.)

PL-566 Watershed Program Page 6

SCS Technical Assistance Page 14

Agency Name	Program	Authority	Funding	Program Delivery
MPCA Hazardous Waste Division (612) 297-8502	Household Hazardous Waste Program: helps local governments establish programs to safely manage household hazardous wastes that can affect ground water, including paints and paint thinners, lawn and garden chemicals and solvent-containing home repair and cleaning products. Includes a public education component along with development of regional collection sites.	1989 Comprehensive Waste Reduction and Recycling Act (MN Statutes 115A).	State General Fund	Counties operate programs in partnership with the MPCA. MPCA provides technical assistance in program and collection facility design, staff training, waste management and developing educational materials. Funding assistance is available to counties for staff and operational costs, site development, education programs, and waste-disposal costs.
MPCA Ground Water and Solid Waste Division Program: (612) 296-7777	Property Transfer File Assistance Program: upon request, this program conducts a file evaluation that includes a review of Agency lists, maps, or data to identify pollution sites at or within one mile of the property being investigated.	MN Statutes 115B.17, subd. 14	Costs are paid by party requesting the services.	Upon receiving a request, the Agency performs the described file evaluation, usually within 2-4 weeks.
See Also BWSR - Local Page 1	Water Management and Protection	n Program]
See Also SCS - Coope Page 4	erative River Basin Studies			

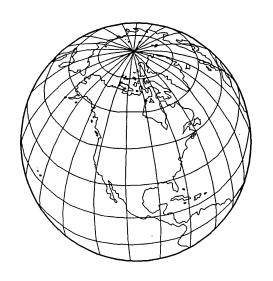
G. Training

Agency Name	Program	Authority	Funding	Program Delivery
MDA Agronomy Services Division, Agricultural Information and Certification Unit: (612) 297-7175	Applicator Licensing and Certification Program: provides training and evaluates (tests) pesticide applicators for certification or licensing.	MN Statutes 18B.29-18B.35	Federal Grant	Cooperative program with the Minnesota Extension Service. Delivered at the state level through workshops, correspondence courses and walk-in testing. Private applicator certification is delivered at the county level through county extension offices.
MGS Director: (612) 627-4784	Minnesota Geological Survey: provides public outreach and training in acquisition and use of geologic information. Professional geologists train state and county agency personnel in field procedures, and acquisition and use of geological information.	General Laws of Minnesota, 1872, Chapter 30.	Dean of Institute of Technology allocates annual funds from biennial Institute of Technology, a State Special Appropriation in the University of Minnesota budget.	MGS provides geologists to speak at well-abandonment workshops, trains DNR personnel in water-well field work, trains county personnel on computer use of MGS County Well Index.

H. Information / Education

Agency Name	Program	Authority	Funding	Program Delivery
MGS Institute of Technology, University of Minnesota, Program Director: (612) 627-4780	Minnesota Geological Survey: conducts basic and applied research on the geology and ground water of Minnesota, communicates results to inform and educate the public.	General Laws of Minnesota, 1872, Chapter 30	Dean of Institute of Technology allocates annual funds from biennial Institute of Technology-State Special Appropriation in the University of Minnesota budget	MGS does research to develop new information on Minnesota geology, provides technical advice and geological consultation services to state and local agencies, MGS publishes maps and publications; staff publish scientific articles in peer-reviewed journals, faculty teach in Dept. of Geology and Geophysics, public lectures, talks and field trips for schools, scouts, clubs; work with news media on geologic topics.
MPCA Ground Water and Solid Waste Division Program: (612) 296-7777	Integrated Ground Water Information System (IGWIS): serves as a central computer repository for ground water quality data collected by various MPCA programs. Facility Component stores general information about each facility/study area; the Station Component stores detailed information about wells associated with each facility/study area; the Sample Component stores detailed information about samples and their analytical results.	MN Statutes 115	General Fund and EPA Clean Water Act; Section 106, Ground Water Grant.	MPCA generates analyses and reports using IGWIS data. Other software packages can use data extracted from IGWIS in statistical analyses, trend analyses, ground water modeling, hydrogeologic mapping, geologic cross-section mapping, contaminant distribution mapping, and 3-dimensional plotting.

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III. Terrestr' A. Agriculture

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A. Agriculture

1. Protection / Regulation

Agency Name	Program	Authority	Funding	Program Delivery
MDA Agronomy Service Division - Pesticide Registration Unit: (612) 297-2530	Pesticide Registration: Registers pesticides for legal sale and use in Minnesota	MN Statutes 18B.26, 18B.27 and 18B. 28	Pesticide Registration Fees, Penalties	Manufacturers of pesticides file an application with relevant data to register products. Marketplace inspections are performed to verify product registration and to capture unregistered products.
MDA Agronomy Services Division - Enforcement Unit: (612) 297-2528	Enforcement Program: Brings enforcement actions regarding non-compliance to laws administered through the Agronomy Services Division	MN Statutes 18D.301-18D.	Pesticide Registration Fees, Fertilizer Tonnage Fees, Fertilizer License Fees, Penalties	Investigations are performed on complaints and inspections which show evidence of noncompliance, human endangerment, or knowing violation. Administrative, civil or criminal penalties may be pursued.
MDA Agronomy Service Division - Endangered Species: (612) 297-7279	Endangered Species Protection Program: Develops and implements strategies for the protection of federally listed endangered species from potential impacts of pesticide use.	Federal Endangered Species Act, EPA Delegation Agreement	Federal Grant, Pesticide Registration Fees	The primary focus of the program has been the development of voluntary cooperative protection agreements with landowners who have known populations of federally listed endangered plant species on their property. Federally listed animal protection strategies include an enhanced educational program for certified pesticide applicators as well as the general public.
2. Enhancement / R	Restoration			
Agency Name	Program	Authority	Funding	Program Delivery

III. Terrestrial; A. Agriculture

3. Acquisition / Easements

Agency Name	Program	Authority	Funding	Program Delivery
DNR Regional Wildlife Managers or Wildlife Section (612) 297-2823 SWCD Local SWCD Offices	RIM Critical Habitat Match Program: gives a dollar-for-dollar match for cash donations from private sources for acquisition and improvement of wildlife habitat lands, or will match value of donated lands. Reinvest in Minnesota (RIM) Resources Program: Retires marginal ag lands from crop production through conservation easements. Includes marginal ag lands, drained wetlands to be restored, sensitive groundwater areas, cropland adjacent to protected waters or pastured hillsides. Landowners are paid to enter into perpetual or 20-year easements for converting land to natural vegetative cover. Perpetual easements are given	MN Statutes 84.944 MN Statutes 103F.501535	Annual legislative appropriation - \$5.6 million for 1992-93 biennium. Landowner payment for restoration is 100% of cost up to \$300 per acre. Landowner payment for perpetual easement is 90% of estimated market value of ag land in the township.	Area managers or central office staff may initiate match projects through contacts with groups or individuals interested in donating cash or land. Applications are taken at local SWCD offices once per year -deadline is in April. Administered by BWSR at the state level.
4. Inventory / Cla	essification Program	Authority	Funding	Program Delivery
Agency Ivanie	1 logium	Ruthority	Funding	110gram Denvery
SCS State Soil Scientist (612) 290-3679	Soil Survey Program: Identifies, maps and interprets soils to assist users in understanding and using soil wisely.	Public Law 74-46	Federal budget. Technical assistance funded 100%.	District Conservationist at County SCS offices provide assistance to individuals, groups, government agencies, as requested. For site specific

State Soil Scientist (612) 290-3679	soils to assist users in understanding and using soil wisely.		assistance funded 100%.	assistance to individuals, groups, government agencies, as requested. For site specific information contact county office.
SCS Inventory Specialist (612) 290-3677	Natural Resource Inventories: Collects data on land use, management, and conservation treatment needed to help public and private organizations, groups, and individuals make land use decisions.	Public Law 92-419	Federal Budget	State Specialist provides inventory data to all users. District Conservationist at County offices provides county level data.

See Also MGS - Pesticide Registration Page 54

See Also MGS - Regional Assessment Program Page 54

5. Monitoring / Assessment

Agr	Name	Program	Auth v	Funding	Program Del y	
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6. rechnical Assistance

Agency Name	Program	Authority	Funding	Program Delivery
SCS District Conservationists at County SCS Offices	Technical Assistance: Assistance in planning and implementing practices on any land use for a wide variety of purposes including soil erosion, water conservation, water quality, gully control, soil productivity and animal waste management.	Food Security Act 1985. Food Agriculture Conservation Trade Act 1990.	Federal budget; technical assistance funded 100%.	District Conservationists provide assistance to individuals, groups and governments as requested and as priorities allow. Contact county office to request technical assistance.
SCS / ASCS State Resource Conservationist (612) 290-3670	Conservation Reserve Program (CRP): provides long-term rental payments and cost-sharing to farmers for establishing permanent vegetative cover (grass or trees) on cropland that is highly erodible or contributes to water quality problems. Proposed projects are ranked nationally based on benefits per dollar expended.	Food Security Act 1985. Food Agriculture Conservation Trade Act 1990.	Federal budget. Technical assistance funded 100%. Contract and cost-share payments made by ASCS.	Sign-up at county ASCS offices. Landowners must submit a conservation plan with application. Technical assistance and cost-share available to implement plan. Contact county office.
SCS / ASCS State Resource Conservationist (612) 290-3670	Sodbuster Program: Determines if fields are highly erodible and have been broken out of native vegetation. Provides assistance to develop and implement conservation plans on highly erodible fields. Program benefits denied by other federal agencies if violations are determined.	Food Security Act 1985. Food Agriculture Conservation Trade Act 1990.	Federal budget. Technical assistance funded 100%.	Landowners request assistance when applying for agricultural program benefits in response to compliants. Determinations made at county level. Agencies or landowners may contact county offices for records of field determinations.
SCS / ASCS State Resource Conservationist (612) 290-3670	Conservation Compliance: Determines if cropland fields meet the highly erodible definition. Provide assistance to develop and implement conservation plans on highly erodible fields. Program benefits denied by other agencies if violations are determined.	Food Security Act 1985. Food Agriculture Conservation Trade Act 1990.	Federal budget. Technical assistance funded 100%.	Landowners request assistance when applying for program benefits in response to compliants. Determinations made at county level. Agencies or landowners may contact county offices for records of field determinations.
SCS / ASCS State Resource Conservationist (612) 290-3670	Agricultural Conservation Program (ACP): provides cost-sharing to ag producers for conservation practices that prevent soil erosion and water pollution, conserve water, preserve and develop wildlife habitat and encourage energy conservation.	Food Security Act 1985. Food Agriculture Conservation Trade Act 1990.	Federal budget. Technical assistance funded 100% in approved units. Cost-share assistance up to 75% provided by ASCS.	Landowners contact county SCS offices to determine eligibility Each ASCS County Committee determines eligible practices.

III. Terrestrial; A. Agriculture

6. Technical Assistance (Cont.)

Agency Name		Program	Authority	Funding	Program Delivery
See Also SCS -	Plant I Page 14	Materials Program]
See Also USDA -	Hydrol Page 28	ogic Unit Areas			
See Also USDA-	Water Page 28	Quality Special Projects]
7. Training					
Agency Name		Program	Authority	Funding	Program Delivery
8. Education			:		
Agency Name		Program .	Authority	Funding	Program Delivery
SCS Public Affairs Specialist (612) 290-3677		Information/education program: provides classroom and field talks on soil, water, air, plant, and animal resource issues. Topics include soil erosion, water quality, land management, wildlife habitat, and others. Brochures, slides, videos available on most subjects.	Food Security Act 1985. Food Agriculture Conservation Trade Act 1990.	Federal budget	Upon request from individuals, groups. Contact county office.

III. Terrestrial, B. Forestry

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B. Forestry

1. Protection / Regulation

Agency Name	Program	Authority	Funding	Program Delivery
DNR Fire Management Specialist (612) 296-4490	Wildfire Protection and Management Program. Includes prevention, presuppression and suppression of wildfires on public and private lands. Department provides public education, regulates open burning, trains local firefighters, provides law enforcement, and coordinates interagency actions. Includes prescribed burning activities for site preparation, forest regeneration, pest management, and maintenance of natural communities.	MN Statutes 88.04-90.041	State General Fund	Programs provided through Regional and Area Forestry offices.

2. Enhancement / Restoration

Agency Name	Program	Authority	Funding	Program Delivery
DNR Private Forest Management (612) 296-5970	Agricultural Conservation Program (ACP). Provides technical assistance for reforestation, timber stand improvement and cost sharing on projects too small for FIP Program or for prospective participants in the Conservation Reserve Program.	MN Statutes 89.002	Annual Federal appropriation for ACP Program	Area Foresters provide technical assistance and training.
DNR Private Forest Management (612) 296-5970	America the Beautiful Program. Nationwide, multi- year program of tree planting and forest improvement. Includes Rural Tree Planting and Improvementcost share activities with private landowners; and Community Treespublic/private efforts to assist volunteers in communities to plant trees.	MN Statutes 89.01	Special Federal appropriation for the ATB initiative.	Programs provided through the Forestry Division's Urban Forestry Program and Area Forestry offices.

2. Enhancement / Restoration (Cont.)

Agency Name	Program	Authority	Funding	Program Delivery
DNR Private Forest Management (612) 296-5970	Conservation Reserve Program (CRP). Includes private landowner sign-up, conservation plan development and technical assistance on projects planting more than two acres of trees or shrubs.	MN Statutes 89.002	Annual Federal appropriation for CRP Program.	Area Foresters provide technical assistance and training on foresty projects, in cooperation with county SCS/ASCS offices.
DNR Forest Pest Control (612) 296-5965	County Forestry and Forest Access Roads Assistance. Provides pass through grants to counties to improve access to timber stands, plant trees and seedlings, manage county forest lands, and construct and maintain county access roads on county-administered forest lands.	MN Statutes 89.036	Federal pass-through funds and unrefunded tax paid on fuels used to operate vehicles on forest roads.	Funds are passed-through to counties for adminstration of programs.
DNR Private Forest Management (612) 296-5970	Forestry Incentives Program (FIP). Provides timber stand improvement activities on non-industrial private forest lands. Emphasis is on Norway pine plantings. Activities include thinning, planting, seeding and regeneration on aspen stands.	MN Statutes 89.002	Annual Federal appropriation for FIP Program	Area Foresters provide technical assistance and training.
DNR Regional Wildlife Managers	Habitat Management on Public Lands: includes maintenance and development of grasslands and woody cover, development of food plots, forest stand development, forest openings development and prescribed burns to improve wildlife habitat on public lands.	MN Statutes: 97.045 and 84.95	RIM funds and Deer Hunting License Fees.	Program delivered through county land offices by a cooperative agreement between counties and DNR Wildlife and Forestry Divisions.
DNR Farmland Wildlife Program Leader: (612)296-3344	Habitat Management on Private Lands: provides cost-sharing assistance to private landowners to develop food plots, woody cover, grasslands, forest openings and regeneration and prescribed burning to improve wildlife habitat on private land.	MN Statutes: 97A.125	RIM and Pheasant Stamp funds.	Landowners should contact Farmland Wildlife Program Leader for information and assistance.

III. Terrestrial, B. Forestry
2. ____ancement / Restoration (Cont.)

Agency Name	Program	Authority	Funding	Program Delivery
DNR Private Forest Management (612) 296-5970	Private Forest Management (PFM) Program. Promotes forest management on private lands through contacts with landowners and development of management plans, technical assistance in forest practices, marketing assistance, and educational opportunities. Efforts will be expanded through the new Federal Stewardship Initiative Program.	MN Statutes 88.79	State General Fund	Area Foresters visit private forest properties on request, develop management plans, and provide technical assistance to landowners. Programs implemented in cooperation with local Soil and Water Conservation District offices.
DNR Private Forest Management (612) 296-5970	Stewardship Incentive Program. Provides technical assistance to private landowners in managing forests for multiple uses. Includes publications, media programs, tours, courses, demonstration areas, and one- to-one technical assistance.	MN Statutes 88. and 89.	Annual appropriation of Federal Stewardship Program Funds are allocated for use by the Forestry Division, as well as to landowner associations, Minnesota Forestry Association, and the University of Minnesota.	Programs operated in cooperation with landowner associations, Minnesota Forestry Association, and the University of Minnesota. Technical assistance to landowners provided by Area Foresters.
DNR Timber Sales (612) 296-4498	Tree Sales Programs. Large scale sale of tree seedlings from state nurseries.	MN Statutes 90.	Nursery and tree sales programs are self-supporting.	Program is administered through Forestry Division in St. Paul. Trees available through some Soil and Water Conservation Districts.

3. Acquisition / Easements

management.

Program Delivery Agency Name Program Authority **Funding** Land Acquisition for State Forests Program. MN Statutes 89.022, 89.032 Program is delivered through DNR State Bonding Funds Area Forestry Offices. and 89.088. Forest Recreation Forestry division purchases key parcels of land from willing sellers to protect resources, consolidate ownership patterns, and provide access to other public lands. Efforts concentrated in Richard J. (612) 297-3508 Doerer Memorial Hardwood Forest (SE Minn.), but may consider key parcels in other 4. Inventory / Classification Program Delivery Agency Name Program Authority Funding Resource managers and others interested in Forestry's aerial DNR Aerial Photography and MN Statutes 89 State General Fund Mapping Resources: Regional forestry offices photography resources should contact the DNR's Regional Regional Forestry Offices periodically photograph all or parts of the region to inventory forest resources, monitor oak Forestry Offices. wilt, etc. Offices are also developing geographic information systems using aerial photos as references. 5. Monitoring / Assessment Agency Name Program Authority Funding Program Delivery 6. Technical Assistance Agency Name Program Authority **Funding** Program Delivery Technical Assistance: Food Security Act of 1985. SCS Federal budget; technical Provided to individuals, groups Assistance in planning and and governments as requested FACTA 1990. assistance funded 100%. implementing practices on any land use for a wide variety of purposes including soil erosion, water conservation, water District Conservationist and as priorities allow. Contact county office quality, gully control, soil productivity and animal waste

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Agency Name

Urban & Community Forestry (612) 772-7563

DNR

Program

Accelerated Community Forestry Assistance **Program**. Provides training to foresters, cities, community leaders, contractors and developers in management and protection of community forests. Also provides technical assistance to local communities and individuals in management, ordinance development, and tree planting and maintenance. Also promotes Arbor Day celebrations and interagency coordination activities. Includes Minnesota RELEAF program, Energy Conservation Tree Planting, and Tree City USA Program. The Forestry Division also distributes a Community Forestry Resource Directory.

Authority

MN Statutes 89.01

Funding

State General Fund and Federal Allocations under the Minnesota RELEAF, American the Beautiful, Tree City USA, and Energy Conservation Tree Planting Programs.

Program Delivery

Programs coordinated thorough the Forestry Division's Urban Forestry Program. Programs and technical assistance to communities and individuals are delivered by local Area Foresters.

8. Education

Agency Name	Program Authority Funding	Program Delivery
See Also SCS -	Information / Education Program Page 65	

III. TERRESTRIAL

- C. Natural Areas and Endangered Species
 - 1. Protection / Regulation

Agency Name	Program	Authority	Funding	Program Delivery
DNR Prairie Biologist (218) 739 - 7576	Private Land Registry: recognizes the owners of outstanding natural areas such as prairies, for their commitment to preservation. Landowners receive a plaque from the Nature Conservancy and sign a voluntary, non-binding agreement to preserve natural communities.	A voluntary program	No state funding	Prairie Biologist provides information about the registry. The Nature Conservancy maintains registry records and recognizes owners.
USFWS Wildlife Assistance Office: (612) 253-4682 or Ecological Services Field Office: (612) 725-35 48	Migratory Birds and Endangered Species Programs: Provides consultation and coordination on impacts to habitats affecting migratory birds, or relating to contaminants and threatened / endangered species.	US Fish and Wildlife Service authorities	Congressional appropriation	Field offices provide assistance and coordination upon request. For migratory bird issues, contact the Wildlife Assistance Office, Federal Bldg., Room 23, 720 St. Germain St., St. Cloud, MN 56301. For endangered species issues, contact Ecological Services Field Office, 4101 E 80th St., Bloomington, MN 55425-1665.
See Also DNR -	Aquatic Exotics Program Page 18			

2. Enhancement / Restoration

Agency Name	Program	Authority	Funding	Program Delivery
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III. Terrestrial, C. Natural Areas and Endangered Species

hisition / Easements

Agency Name	Program	Authority	Funding	Program Delivery
DNR DNR Prairie Biologist (218) 739 - 7576	Prairie Bank Program: purchases easements on native prairie lands. Owners may not plow or plant trees, but may usually graze, hay or recreate on these lands. No minimum size required. May enroll simultaneously for Prairie Tax Exemption program.	MN Statutes 84.96	RIM Funds	Landowners apply to DNR Prairie Biologist to participate in the program. Biologist prioritizes applications and purchases easements based on the quality of the prairie, habitat value and locations within priority areas in the state.
DNR DNR Prairie Biologist (218) 739 - 7576	Prairie Tax Exemption Program: exempts approved native prairie lands from property tax. Annual self- renewal. 5-acre minimum prairie site required to participate.	MN Statutes 84.96	No state funding. Minor loss in local property tax revenues.	Landowners apply to local tax assessor for exemption. Area Wildlife Managers must certify land as prairie.
DNR SNA Planning Supervisor (612) 297-2357	Scientific and Natural Areas Acquisition Program: acquires lands to preserve remaining natural areas and native ecosystems in the state for protection and scientific study	MN Statutes 84.033	LCMR and RIM funds	Scientific and Natural Areas Program identifies areas for acquisition with field and central office staff.
4. Inventory / Class	sification			
Agency Name	Program	Authority	Funding	Program Delivery
DNR Regional Nongame Wildlife Specialists or Natural Heritage Program: (612) 296-4284	Annual Colonial Waterbird and Bald Eagle Survey Program: includes an annual survey of breeding sites and population characteristics. Data is entered in Natural Heritage Database.	MN Statutes 84.03	Chickadee Checkoff on state income tax forms.	Surveys completed by Regional Non-Game Specialists. Regional Specialists or Natural Heritage Program in St. Paul can supply data.
DNR Natural Heritage Program (612) 296-3344	Natural Heritage Program Inventory and Database: Minnesota County Biological Survey identifies remaining natural communities and locations of endangered, threatened and rare animals and plants in the state. Information is stored in extensive GIS database that also includes historical records, other rare features databases, colonial waterfowl and bald eagle nesting sites.	MN Statutes 84.0895	LCMR, RIM Chickadee Checkoff, and General Funds	Natural Heritage Program in St. Paul or Regional Nongame Wildlife Specialists provide information about rare features locations and access to Natural Heritage Program information. Maps are being developed in counties where County Biological Survey has been completed.

Agency Name	Program	Authority	Funding	Program Delivery
6. Technical Assist	ance			
Agency Name	Program	Authority	Funding	Program Delivery
ONR Nongame Wildlife Specialists: 612) 297-4966	Endangered Species Assessments and Technical Assistance: Provides assistance to public agencies and private landowners in assessing the possible presence of endangered species and in managing species and their habitats.	MN Statutes 84	LCMR, RIM, Chickadee Checkoff and General Funds	Nongame Wildlife Specialists a DNR Regional and Central Offices provide information and technical assistance upon request.
See Also DNR -	Aquatic Exotics Program Page 18			
7. Training		P		
Agency Name	Program	Authority	Funding	Program Delivery
8. Education				
Agency Name	Program	Authority	Funding	Program Delivery
DNR Project WILD-Minnesota: (612) 297-2423	Project WILD: An interdisciplinary environmental and conservation education program for K-12th grade students. Project materials are designed for integration into regular classroom activities.	MN Statutes 97A	Chickadee Checkoff and General Fund	DNR Nongame Wildlife Program sponsors workshops throughout the state to introduc the project to teachers and environmental educators. Only participants who attend workshops can receive Project WILD materials suitable to the grade level they teach.
See Also DNR -	Private Land Registry Page 71			
See Also SCS -	Information / Education Pr	ogram		

III. TESTRIAL

D. Minerals

1. Protection / Regulation

Agency Name	Program	Authority	Funding	Program Delivery
DNR Minerals Division (612) 296-4807	Iron Ore / Taconite Leasing Program: The Minerals Division administers over 100 state taconite and iron ore mining leases covering more than 9,000 acres. There are currently seven active taconite mining operations located in the state.	MN Statutes section 93.14 through 93.28	General Fund	Minerals Leasing Section Supervisor in St. Paul administers taconite mining leases.
DNR Minerals Division (612) 296-4807	Metallic Minerals Leasing Program: Ten different companies currently hold 150 state Metallic Minerals leases. A variety of exploration activities are conducted under the current leases, which cover over 65,000 acres in nine counties. Additional state lands are offered for lease at lease sales which are held on an annual basis. The Minerals Division will hold two public sales during 1993.	MN Statutes sections 93.08 through 92.12 and 93.25 MN Rules 6125.0100 through 6125.0700	General Fund	Minerals Leasing Section Supervisor in St. Paul provides assistance with leases and information on public sales.
DNR Minerals Division (612) 296-4807	Peat Leasing Program: Five different companies currently hold six state peat leases. The removal of peat for commercial purposes occurs on these leased premises which cover 2,540.11 acres in Carlton, St. Louis and Marshall counties.	MN Statutes section 92.50	General Fund	Contact Mineral Leasing Section Supervisor in St. Paul for information and assistance.
DNR Minerals Division (612) 296-4807	Exploratory Borer Registration Program: An explorer must register with the DNR by 30 days before making an exploratory boring. The explorer must submit a map of boring locations, provide access to drill sites, submit a report of drill hole sealing, and submit certain other data obtained from the exploratory boring.	MN Statutes sections 103I.602 and 103I.605	General Fund	Minerals Leasing Section Supervisor in St. Paul provides assistance with registration.

2. Enhancement / Restoration

Agency Name	Program	Authority	Funding	Program Delivery
DNR Minerals Division, Hibbing (218) 262-6767	Mineland Reclamation Program: The DNR regulates various activities related to mining incuding siting, dust suppression, and ground vibrations from blasting and reclamation to control possible adverse environmental effects of mining, conserve natural resources and encourage the planning of future land utilization.	MN Statutes 93.44 - 93.51 MN Rules Chapter 6130 (Ferrous Mining) MN Rules Chapter 6131 (Nonferrous Metallic Minerals Mining) MN Rules Chapter 6132 (Peatland Reclamation)	General Fund	Mineland Reclamation Manager in Hibbing provides information and technical assistance in mineland reclamation.
3. Acquisition / Ease	ements			
Agency Name	Program	Authority	Funding	Program Delivery
4. Inventory / Class:	ification			
Agency Name	Program	Authority	Funding	Program Delivery
5. Monitoring / Asse	essment	-		•
Agency Name	Program	Authority	Funding	Program Delivery
6. Technical Assista	nce			
Agency Name	Program	Authority	Funding	Program Delivery
7. Training				•
Agency Name	Program	Authority	Funding	Program Delivery
8. Education	·			
Agency Name	Program	Authority	Funding	Program Delivery

III. Terrest ' E. Parks and Trails

III. TE. ESTRIAL

- E. Parks and Trails
 - 1. Protection / Regulation

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Agency Name	Program	Authority	Funding	Program Delivery
2. Enhancement / Restoration				
Agency Name	Program	Authority	Funding	Program Delivery
3. Acquisition / Eas	sements			
Agency Name	Program	Authority	Funding	Program Delivery
DNR Water Recreation Supervisor: (612)296-6413	Boat Access Acquisition Program: acquires and develops sites for public boat launching facilities. Sites must be less than 7 acres in size.	MN Statutes 86A.05, Subd. 9	Water Recreation Account, including funds from boat license fees, gasoline tax funds, etc.	Area supervisors and St. Paul staff identify appropriate sites and complete activities to acquire and develop the sites. Lakes in the state have been prioritized for public access development, based on size, water quality, and a variety of other factors
DNR Trail Recreation Supervisor: (612)296-4782	State Trail Acquisition Program: acquires and develops property for state recreational trails.	MN Statutes 85.015 and 86A.05, Subd. 4	State bonding.	State Trails Plan prioritizes trail acquisition and development needs. Trail Recreation Supervisor coordinates implementation of the plan.
DNR Water Recreation Supervisor: (612)296-6413	Canoe and Boating Routes Program: designates and names canoe and boating routes, develops and maintains camping sites, and coordinates hazard removal on the routes.	MN Statutes 85.32.	Water Recreation Account	Routes are authorized through river plans, and designated legislatively. Field staff complete site development.
Metropolitan Council Parks Planner (612) 291-6359	Natural Resources - Parks: Council oversees metropolitan area regional park system. The Council provides funding to the regional park agencies for both operation and maintenance and development and acquisition. These funds come to the Council from legislative appropriations.	Metropolitan Land Planning Act	Funding is biennial appropriations from the legislature	Council works the 10 implementing agencies; i.e., the 7 counties, Minneapolis, St. Paul and Bloomington.

4. Inventory / Classification

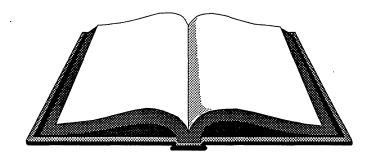
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Agency Name	Program	Authority	Funding	Program Delivery
5. Monitoring / Ass	essment			
Agency Name	Program	Authority	Funding	Program Delivery
DNR MIS Supervisor (612) 297-7877	Trails and Waterways User Surveys: A variety of user surveys are completed on state trails and waterways to determine levels of use, characteristics of users, etc.	MN Statutes 86A.	State General Fund.	A limited number of surveys are completed as needed and as funding allows. Area and central office staff determine priorities and implement surveys.
6. Technical Assista	ance			
Agency Name	Program	Authority	Funding	Program Delivery
DNR Boating Safety Specialist: (612)296-0905	Boating Safety Programs: enhance-boating safety through the removal of hazards, placement of buoys, signage, and information materials.	MN Statutes 86B.101	Water Recreation Account and Enforcement Funding by County Governments	Field office staff request assistance and materials as needed.
DNR Water Recreation Supervisor: (612)296-6413	Cooperative Access Development Program: shares costs of land and recreational site development between state and local government. A variety of approaches are possible.	MN Statutes 86A.	Water Recreation Account, including funds from boat license fees, gasoline taxes, etc.	Local governments contact Area staff to develop ideas for cooperation. Area staff initiate projects and coordinate development with local governments.
DNR Federal Aid Specialist: (612)297-4954	Fishing Pier Program: cooperative development of fishing piers on public lands, usually owned by local governments. DNR builds and installs piers and local governments provide land and maintenance.	MN Statutes 85.	Federal Cooperative Opportunities for Recreational Enhancement funds.	Local governments contact regional offices for assistance. Regions rank priorities for development.
DNR Federal Aid Specialist: (612)297-4954	State Park Road Account: provides aid to local governments to improve roads that lead to state facilities, such as water access sites. State and local governments share development costs and local governments maintain roads.	MN Statutes 85.	State Highway Funds allocated to the DNR for park roads.	Local governments contact the Federal Aid Specialist to apply for funds. The list of requests statewide is prioritized for funding.
DNR Recreation Services Supervisor: (612)296-6048	Trail Connections Program: provides assistance to develop local trail connections to state recreation trails.	MN Statutes 85.015	LCMR Funding (time limited)	Local governments contact regional offices for assistance. The Regions rank priorities for development.

III. Terrestr E. Parks and Trails

6. chnical Assistance (Cont)

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Agency Name	Program	Authority	Funding	Program Delivery
DNR Trail Recreation Supervisor: (612)296-4782	Trails Grant-In-Aid Programs: provide assistance to local governments and groups to develop, maintain and operate cross-country ski, snowmobile, and all-terrain vehicle trails.	MN Statutes 86A.	Funding from snowmobile, ATV, and cross-country ski licences and State's General Fund.	Local governments and groups contact Area offices, who provide assistance in developing trails.
DNR Water Recreation Supervisor: (612)296-6413	Water Access Development Technical Assistance: staff provide assistance to local governments or groups interested in developing recreational access. Provide specifications and assist with access development, funding and installation.	MN Statutes 86A.	Water Recreation Account, including boat license fees, gas tax funds, etc.	Local governments and groups request and receive assistance from Area office staff.
7. Training				
Agency Name	Program	Authority	Funding	Program Delivery
8. Education				
Agency Name	Program	Authority	Funding	Program Delivery
DNR Public Information Center: (612)296-6157	Recreation and Trails Information: provides information to governments, agencies and the public on river levels, snow depth, special celebrations, and other information on recreation facilities and trails in the state.	MN Statutes	General Fund.	Information provided at central office and area offices.

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ACRONYMS LIST

ACP	-	Agricultural Conservation Program	MPCA	-	Minnesota Pollution Control Agency
ACRRA	_	Agricultural Chemical Response and	NAWMP	_	North American Waterfowl Management Plan
		Reimbursement Account	NEPA	-	National Environmental Policy Act
ARC/INFO	-	a Geographic Information System (GIS)	NPDES	_	National Pollution Discharge Elimination
		software package			System
ASCS	_	Agricultural Stabilization and Conservation	NPSA	_	Northern Pike Spawning Area
		Service	NWI		National Wetlands Inventory
ATB	_	America the Beautiful (Forestry Program)	PCA	_	Pollution Control Agency (same as MPCA)
BWSR	_	Board of Water and Soil Resources	PCBs	_	Polychlorinated Biphenols
CERCLA	_	Comprehensive Environmental Response,	PL PL	_	Public Law
CERCEN		Compensation and Liability	PMP	_	Pesticide Management Plan
CRP	_	Conservation Reserve Program	RIM	_	Reinvest in Minnesota
CWI	_	County Well Index	SCS	_	Soil Conservation Service (US Department of
DNR	-	Department of Natural Resources	000		Agriculture)
DOW	_	Division of Waters (DNR)	SIP	_	Stewardship Incentives Program
EMP	_	Environmental Management Program (Upper	SLR	_	Streambank, Lakeshore and Roadside Program
Livii		Mississippi River)	SNA	_	Scientific and Natural Area
EPA .	_	Environmental Protection Agency	STORET	_	US EPA's National Water Information System
FSA	_	Food Security Act	SWCD	_	Soil and Water Conservation District
FIP	_	Forestry Incentives Program	USDA	_	United States Department of Agriculture
GIS	_	Geographic Information System	USFS	_	United States Forest Service
GWMAP	_	Ground Water Monitoring and Assessment	USGS	_	United States Geological Survey
OWMAI	_	Program	USFWS	_	United States Fish and Wildlife Service
HUA	_	Hydrologic Unit Areas	UST	_	Underground Storage Tank
IFIM	_	Instream Flow Incremental Methodology	WHPA	_	Wellhead Protection Area
IGWIS	_	Integrated Ground Water Information System	WMA	_	Wildlife Management Area
ISTS	_	Individual Sewage Treatment Systems	WWW		Whalle Management Alea
LAP	_	Lake Assessment Program			
LCMR	_	Legislative Commission on Minnesota			
LCMIX	-	Resources			
LMIC		Land Management Information Center			
LTRMP	-	Long Term Resource Monitoring Program			
LUST		Leaking Underground Storage Tank (Program)			
MDA					
MDA MDH	-	Minnesota Department of Agriculture Minnesota Department of Health			
MEPA	-	Minnesota Department of Health Minnesota Environmental Policy Act			•
MGS	-				
MIOS	-	Minnesota Geological Society			