

Chart of State Water Programs-August 14, 2001

Program	Agency (Division)	Brief Description	Program Category	Agency Role in Program	Program Customer	FTEs	Outcomes	Funding Source
Wetland Conservation Act	BWSR	Protects wetlands that are not protected by other state or federal programs. Requires replacement of most impacted acres. Public roads projects are mitigated through a wetlands bank consisting of agency and privately restored/created wetland acreage.	Regulation and enforcement Planning Training and assistance Financial assistance Acquisition and development Monitoring and assessment	Technical assistance	Local government	13.2	Local governments perform the regulatory functions related to exemptions, noticing, alternative analysis, and mitigation. Goal is no <u>net</u> loss of wetland. Reported results show 2,900 acres avoided, and 380 acres replaced each year. Training of 800 people per year occurs. Public road projects require 180 acres per year to be mitigated by the state.	General fund, Bonding for wetland road replacement and bank
Watershed District and Soil and Water Conservation District Oversight	BWSR	Coordinate resource planning activities of counties, watershed districts, soil and water conservation districts, watershed management organizations, and other local units. MS103B.101, subd. 9	Training and assistance Planning Financial assistance Regulatory	Oversight of activities of regulatory partners Technical assistance Financial assistance	Local government	8.8	Efficient delivery of conservation and resource management activities at the local level with an emphasis on private lands. There are 178 organizations working w/ annual budget of \$53 million to undertake local projects and plans.	General fund
Comprehensive Water Planning	BWSR	Engage local units to facilitate completion of county water plans, watershed management plans, and groundwater protection plans.	Planning Training and assistance Financial assistance	Financial assistance Technical assistance	Local government	8	Guidance and review of plans for conformance with requirements and approval of plans. There are 147 organizations who conduct periodic planning (rotating basis) every 5 - 10 years.	General fund

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Soil Conservation	BWSR	Programs to conserve soil resources including soil surveys, grazing lands, tillage management, and forestry (windbreaks). Includes office of state soil scientist.	Training and assistance Financial assistance Monitoring and assessment	Technical assistance Financial assistance	Local government Citizens Other state agencies Federal agencies	4.9	Antiquated and incomplete soils information replaced with GIS compatible data available for community planners and scientists. Four counties are underway and will result in 1.65 million acres of soils data being catalogued and compatible.	General fund, LCMR for soil surveys
Erosion Control and Water Quality Cost-share	BWSR	Assistance to landowners through local units of government for installation of erosion, sediment, and water quality control projects. Also includes cost-share on feedlots for water quality improvements.	Standards and indicators Training and assistance Financial assistance Monitoring and assessment	Technical assistance Financial assistance Standards establishment	Local government Citizens	9.2	Landowner, local government, and federal government monies leverage state money and provide over half of total project costs. 6,000 projects were completed in 98-99. Projects reduce 777,000 tons/yr of soil loss, 166,000 tons/yr of sedimentation, and 436,000 lbs/yr of total phosphorus.	General fund, PCA pass through (feedlot)
Education	BWSR	Joint positions with U of M Extension lead staff efforts to increase citizen involvement, improve outreach, enhance technology transfer, and co-sponsor the state Envirothon and Children's Water Festival.	Training and assistance Financial assistance	Technical assistance	Local government	4.5	Reinforces the local and collaborative approach by highlighting benefits of wise management. Envirothon involved 1,200 students on 261 teams around the state.	General fund, University Extension

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Conservation Easements	BWSR	Primarily perpetual easements established over areas with a cropping history. Drained or altered wetlands are restored and native vegetation is established in upland areas. Programs include CREP, RIM, WRP, and PWP.	Acquisition and development Training and assistance Financial assistance Regulation and enforcement Monitoring and assessment	Financial assistance Technical assistance	Local government Citizens Nonprofit organizations	44.8	Program has enrolled 140,000 acres of marginal farmland primarily by concentrating restoration efforts in riparian areas to maximize water quality benefits. Each acre reduces soil loss by 9.6 tons/yr, sedimentation by 4.7 tons/yr, and total phosphorus by 5.8 lbs/yr.	Bonding, Federal match
Nonpoint Engineering Assistance	BWSR	Provides engineering assistance for implementation of a variety of nonpoint water quality practices on private lands.	Training and assistance Financial assistance	Technical assistance	Local government	2.7	Builds capacity on sub-regional level to design and implement projects by sharing of resources. Projects include construction of 430 erosion control, 300 feedlot abatement, and 210 wetland restorations per biennium.	General fund
Coastal Engineering Erosion Control	BWSR	Engineering design, technical assistance, and financial assistance to north shore communities.	Training and assistance Financial assistance Planning	Technical assistance Financial assistance	Local government Citizens	2.1	Encourages proper development and constructs shoreline stabilization measures. Since 1994 the program has attracted over \$700,000 of federal and state funding, conducted 140 site inspection/designs, and constructed 24 Lake Superior stabilization projects addressing over 7,000 feet of shoreline.	General fund, Federal grants
Area II Minnesota River Basin Projects, Inc.	BWSR	Technical and financial assistance to local government in study area II for engineering, land acquisition, and construction of floodwater retarding/retention structures.	Acquisition and development Planning Financial assistance	Financial assistance	Local government	0.5	Flood retention structures constructed by downsizing road culverts and creating small, short duration reservoirs behind road embankments and small dams. An average of 18 flood control projects per year are either designed or constructed.	General Fund

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Harmful Exotic Species Management Program	DNR (Ecological Services) (Fisheries) (Enforcement)	The program includes the inventory, monitoring, and control of infestations of purple loosestrife, milfoil, zebra mussels, and other harmful exotic species. It provides general information to help educate the public and commercial fishing and aquatic farm operators in how to reduce the spread of exotics. We also make rules, do boat access inspections, and enforce laws that regulate the possession or transportation of certain species, provide grants for control efforts, and fund research. MS Chapter 84D & 86B.415, MR Chapter 6216	Monitoring and assessment Regulation and enforcement Training and assistance Financial assistance	Technical assistance Ambient monitoring Training Financial assistance Regulation and enforcement Compliance monitoring	Citizens Local government Other state agencies Federal agencies Nonprofit organizations (Lake Associations, Sports groups, etc.) Schools and educators Legislators Regulated parties	8	The introduction of new harmful exotic species into Minnesota is prevented. The spread of harmful exotic species within Minnesota is reduced. The effects of harmful exotic species on Minnesota's ecology, society, and economy are minimized.	Water Recreation Account (License Surcharge Fees), Federal Cost share, Game and Fish
Fish Contaminant Monitoring Program	DNR (Ecological Services) (Fisheries)	Fish are collected from lakes and streams throughout the state and then sent to a lab to be analyzed for levels of PCBs and mercury. The data is used by the Minnesota Department of Health to issue fish consumption advisories and the Minnesota Pollution Control Agency to track trends in contaminant levels. MS 97A.045	Monitoring and Assessment	Ambient monitoring	Other state agencies Federal agencies Schools and educators Citizens	1	Data is collected that allows public health to be protected and the success of efforts to reduce the contamination of environment with mercury, PCBs, and other persistent chemicals to be tracked.	RIM Funds

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Mississippi River Management	DNR (Ecological Services)	Collect and interpret long-term information on the water quality, fisheries, plant communities, etc. of the Upper Mississippi River including Lake Pepin and various backwater lakes. Coordinate with Corps of Engineers on navigation activities, including HREP projects. MS 97A.045	Monitoring and assessment Training and assistance	Ambient monitoring Chemical and biological indicator establishment Technical assistance Acquisition and development Infrastructure maintenance	Local government Other state agencies Federal agencies Nonprofit organizations Schools and educators Citizens Legislators	7	Management decisions which impact the Upper Mississippi River will be made based on a better understanding of the river's biological status.	Federal/USGS, Game & Fish
Wetlands Review and Conservation Program	DNR (Ecological Services)	In accordance with the state Wetlands Conservation Act the following activities are done: coordinates review of wetland replacement plans; provides technical guidance to DNR, local governments and landowners on wetland mitigation; promotes wetland conservation by providing science-based recommendations in the development of state wetland regulations, programs, and policies; and coordinates development of the Minnesota Wetlands Conservation Plan.	Monitoring and assessment Regulation and enforcement	Technical assistance Training Regulation and enforcement	Regulated parties Local government Other state agencies Federal agencies Nonprofit organizations Legislators	1	No net loss of wetland resources.	General Fund

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Ground Water level Monitoring and Trend Reporting	DNR (Waters)	Measure and record water levels in observation wells in major aquifers across the state; periodically interpret the trends in water level change.	Monitoring and assessment Planning	Ambient monitoring Compliance monitoring Technical assistance	Regulated parties Local government Citizens Other state agencies Federal agencies Nonprofit organizations Schools and educators Legislators	3	Data are compiled and interpreted in biennial reports; longer range trends analysis under way. Data available on DNR web page.	General Fund
Ground Water Technical Analysis	DNR (Waters)	Gather and compile data related to specific well interference or water supply conflicts; evaluate proposed new water supply wells; investigate impacts of resource development on surface and ground waters and make recommendations to water appropriations staff and field staff relative to regulatory decision.	Training and assistance Planning Regulation and enforcement	Technical assistance Regulation and enforcement	Regulated parties Local government Other state agencies	6	Regulatory decisions are based on sound scientific information; conflicts are avoided or addressed expeditiously. The body of knowledge about aquifers is increased.	General Fund
Geophysics	DNR (Waters)	Apply seismic reflection and refraction, electrical resistivity, electromagnetic induction techniques to determine subsurface characteristics significant to water resources issues.	Training and assistance Monitoring and assessment	Technical assistance Planning	Local government Other state agencies	2	Information provided to decision makers on depth to water, location of subsurface boundaries or voids, location of buried wastes or plumes.	General Fund

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County and regional Geologic and Hydrologic Mapping	DNR (Waters) Minnesota Geological Survey with Counties	Gather existing and generate new data, locate and log water wells, make extensive field observations, obtain water samples for general chemistry and age analysis, and finally compile and interpret data to produce map reports.	Technical assistance Planning Monitoring and assessment	Technical assistance Planning Training	Local government Other state agencies Citizens	6	Develop map reports on a county or regional basis describing geology and water resources and sensitivity of aquifers to pollution.	General Fund, Small Contributions From Each County
Locate, Inventory and Seal Wells on State Land	DNR (Waters)	Physically locate wells using magnetometer, GPS, historical records etc.; examine the condition of each well found; seal all unused or unusable wells to comply with state regulations.	Infrastructure maintenance	Infrastructure maintenance	Other state agencies Citizens Local government	1.5	Wells sealed and no longer a concern for water quality into future.	Bonding
Ground Water Exploration	DNR (Waters in cooperation with various communities)	Identify locations for exploratory drilling, oversee drilling by contractor, interpret and present results to describe the nature of the subsurface in areas where little information is available.	Planning Monitoring and assessment	Technical assistance Planning	Local government Citizens Legislators Other state agencies Federal agencies	.5	Aquifers located and described (or ruled out).	General Fund

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Precipitation Monitoring, Data Compilation and Interpretation and Climate Studies	DNR (Waters in cooperation with NWS, SWCDs and others)	Collect and compile precipitation reports from observers across the state; archive the data; produce statistical summaries and interpretive maps on trends. Evaluation of the significance and likelihood of occurrence of a particular set of circumstances.	Monitoring and assessment Planning	Technical assistance Ambient monitoring Training	Citizens Regulated parties Local government Federal agencies Nonprofit organizations Schools and educators Legislators	3	Information about magnitude and direction of precipitation/water resources made available in a timely fashion. Climate trends and water resources implications described for users and public.	General Fund
Dam Safety Program	DNR (Waters)	Requires permits for dam construction and performs periodic dam inspections. Provides matching grants to local governments for dam projects. MS 103G.505-531	Regulation and enforcement Financial assistance Training and assistance	Regulation and enforcement Financial assistance Infrastructure Technical assistance	Regulated parties Local government	3	Safe dams. Removal of unsafe or obsolete dams.	General Fund, Capital Bonding, FEMA Grants
Surface Water Technical Analysis Program	DNR (Waters)	Provides hydrologic and hydraulic engineering services to support public waters permit program decisions and assist local governments and landowners. MS 103G.111	Training and assistance Regulation and enforcement	Technical assistance Training	Regulated parties Local government Citizens	3	Technically sound information to support permit decisions. Improved understanding of the causes and impact of flooding, lake level fluctuations, drought etc. GIS layers for major and minor watersheds and lakesheds.	General Fund

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Lake Hydrology Program	DNR (Waters)	Collect and provide information on lake levels and other lake attributes in a consolidated, web accessible database. Relies on 500+ volunteer network. MS 103G.121, Subd. 1	Monitoring and assessment Training and assistance	Ambient monitoring Technical assistance	Citizens Local government Other state agencies	2	Web accessible information on lake levels and other lake attributes. Information needed to perform technical analyses.	General Fund
Hydrographic Services Programs	DNR (Waters)	Conducts topographic surveys on land alteration activities impacting public waters. Determines OHW levels of public waters. Performs maintenance work at 300+ state owned lake outlet dams. MS 103G.121, Subd. 1	Training and assistance Regulation and enforcement Infrastructure maintenance	Technical assistance Infrastructure maintenance	Regulated parties Local government Citizens	6	Ordinary high water level determinations for public waters basins. Detailed topographic maps and survey drawings, graphics. Functional lake outlet dams and stabilized lake levels.	General Fund
Public Water Emergency Conservation Planning	DNR (Waters)	Once every 10 years, public water suppliers serving greater than 1,000 people must prepare and implement plans to conserve water, implement emergency drought procedures and reduce future demand. MS 103G.291	Regulation and enforcement Planning	Technical assistance Planning Oversight of activities of regulatory partners	Regulated parties Local government	1	311 local plans implemented. Per capita water use rate increase is reduced.	General Fund
Lake Improvement District	DNR (Waters)	The purpose is to allow for establishment of a lake improvement district with taxing/regulatory powers to protect lakes and to increase and enhance the use and enjoyment of lakes. MS 103F.801	Planning	Technical assistance Planning Oversight of activities of regulatory partners	Local government Citizens	.1	14 LIDS exist in MN.	Local Government, General Fund
Project Wet	DNR (Waters)	The program provides water education training (WET) for MN K-12 teachers including workshop and curriculum for classroom use.	Training and assistance	Training	Schools and educators Nonprofit organizations	1	100 teachers trained as facilitators annually. Schools using curriculum.	General Fund

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Stream Maintenance Grants	DNR (Waters)	The program provides cost-share grants for removal of debris, trees, brush etc. MS 103G.701	Financial assistance	Financial assistance	Local government	0 at present	Program funding has been erratic. Clearing of debris from MN streams.	General Fund
Public Waters Work Permits	DNR (Waters) (Ecological Services) (Fisheries) (Wildlife) (Enforcement)	Regulates alterations of the course, current and cross-sections of public waters by direct permit from DNR Waters to avoid or minimize damage to public waters and allow reasonable riparian uses.	Regulation and enforcement	Regulation and enforcement Compliance monitoring Technical assistance Standards establishment	Regulated parties Local government Other state agencies Federal Citizens	34	Avoided damages to lakes, streams and public waters.	General Fund, Game and Fish Account
Protected Waters and Wetland Inventory	DNR (Waters)	DNR has created an inventory of waters and wetlands for which permits are required. DNR is in the process of digitizing the protected water inventory on the computerized National Wetlands Inventory map base. MS 103G.201	Training and assistance Planning Regulation and enforcement	Planning Technical assistance Regulation and enforcement	Regulated parties Local government Other state agencies Federal Citizens	1	22,000 Public waters mapped. Better tools provided for program implementation.	LCMR, General Fund

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Aquatic Plant Management Program	DNR (Ecological Services) (Fisheries) (Enforcement)	The program issues permits to lake property owners to control vegetation adjacent to their property using herbicides or mechanical removal, evaluates the impacts of those control efforts, and ensures that pesticides are used appropriately. Assists in pesticide applicator training for staff, cooperators, and some operators. Assistance is also given to property owners or associations in producing long term vegetation plans. MS 103G.615, MS 84.091 and MR Chapter 6280	Regulation and enforcement Monitoring and assessment Training and assistance	Standards establishment Compliance monitoring Technical assistance Training Regulation and enforcement	Citizens Regulated parties Local government Other state agencies Federal agencies Nonprofit organizations (Lake associations, sport groups) Legislators	11	Riparian owners obtain access and use of lake while important habitat for fish and wildlife, or rare species are protected.	Game and Fish Funds, Water Recreation Account, General Funds, Federal Cost Share \$826,273
Stream Hydrology Program	DNR (Waters)	Collects and analyzes information on river and stream flow. Provides financial support for about one-third of the cooperative federal stream gauging network in Minnesota. Provides technical assistance to others. MS 103G.285, Subd.2	Monitoring and assessment Training and assistance	Ambient monitoring Technical assistance Training	Local government Other state agencies Citizens	3	Statistical information on flows and flood and drought frequency needed to perform technical analyses. Time of travel and stream temperature studies. Community flood warning system. Hydro-power compliance monitoring. Information on surface water availability.	General Fund, Income Contracts

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Water Appropriation Permit Program	DNR (Waters)	Permits are required for appropriations of surface or ground water exceeding 10,000 gallons per day or 1 million gallons per year. MS 103G.271	Regulation and enforcement Training and assistance	Regulation and enforcement Compliance monitoring Technical assistance Standards establishment	Regulated parties Local government Other state agencies Citizens	8	6,800 permits statewide. \$2.8 million in revenues. Non-interference of government water supplies. Prioritization of users in event of drought.	General Fund, Permit Fees
Flood Plain Management Program	DNR (Waters)	Standards provide for identifying floodplains, floodways, and flood fringe areas. Standards describe flood protection measures for new construction in the flood fringe. Standards require that only open space uses are to be allowed in floodway areas. MS 103F.101	Regulation and enforcement Standards and indicators Planning	Oversight Technical assistance Regulation and enforcement Standards establishment Training	Local government Other state agencies Federal Citizens	7	Averted future flood damages. Number of communities participating in NFIP. Number of flood insurance policies.	General Fund, FEMA Funds

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Shoreland Management and Wild and Scenic Rivers Program	DNR (Waters)	Standards have been established for development of shoreland areas; land within 300 ft. of a stream or 1000 ft. of a lake or wetland or the extent of a floodplain. Standards address subdivision of land, structure setbacks, vegetative management, land alterations, agricultural activities and sewage treatment. MS 103F.201 (SL) MS 103F.301 (WSR) MS 103F.351 (Lower St. Croix) MS 103F.361 (Miss HW Board)	Standards and indicators Planning	Oversight Technical assistance Regulation and enforcement Standards establishment Training	Local government Other state agencies Citizens Nonprofit organizations (MLA)	10	Number of communities with local ordinances New development and redevelopment conforms to standards.	General Fund, Water Recreation Fund-WSR
Flood Damage Reduction Program	DNR (Waters)	The program provides matching grants to Local Units of Government to implement flood damage reduction projects. Some projects have created or enhanced wetlands for flood water storage areas. MS 103F.161	Training and assistance	Financial assistance Technical assistance Infrastructure maintenance Planning	Local government Other state agencies Federal Legislators	2	Reduced flood damages. Communities protected. Flood fighting costs reduced.	General Funds, State Bonding
DNR River Management Program	DNR (Waters)	The program assists other federal/state/local river management efforts such as MWBAC, UMRBA, Mississippi Headwaters Board.	Training and assistance Planning	Technical assistance Financial assistance Oversight Planning	Other state agencies Federal	.5	Comprehensive plans established and monitored on rivers.	Water Recreation Fund, General Fund

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Hydropower Licensing	DNR (OMB)	To conduct reviews for hydropower proposals.	Regulation and enforcement Training and assistance	Technical assistance Regulation and enforcement	Regulated parties Other state agencies Federal agencies	.5	Hydropower relicensing is accomplished.	Water Recreation Fund
Coastal Resource Management	DNR (Waters)	Provide for the consistent administration of the federal coastal program in Minnesota.	Training and assistance Planning	Financial assistance Planning Technical assistance Regulation and enforcement	Citizens Regulated parties Local government Federal agencies Nonprofit organizations Schools and educators Legislators	2	Implementation of the coastal plan, distribution of federal funds to local project sponsors, and improved resource management.	Federal
Water Planning	DNR (Waters)	Review and input into the local water planning process.	Planning	Technical assistance	Local government	4.5	Local water plans are consistent with the state rule and policy. Local governments have better resource information for their plans.	General Fund

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Overall state water policy coordination – includes State Water Plan, Groundwater Policy and biennial Water Priority Reports	Mnplan (EQB)	The EQB works through its Water Resources Committee to coordinate state-level water programs and develop the decennial State Water Plan. The 2000 plan, Minnesota Watermarks, includes statewide goals and objectives for water management, as well as goals and objectives for each of the individual basins. Water priorities, including those for groundwater, for each biennium are developed in conjunction with the EQB's Water Resources Committee. MS 103B.151 MS 103A.204 MS 103A.43	Planning	Planning	Legislators Other state agencies Citizens	1	State policies and priorities for water management are documented	General Fund
Water Unification Initiative	Mnplan (EQB)	This Governor's initiative builds upon the 2000 State Water plan. Basin teams were set up to provide basin-specific information and to measure progress toward the basins' stated goals. MS 103A.43 Executive Order 99-15	Planning	Planning	Legislators Other state agencies Citizens	0.5	Local priorities are built into the State Water Plan and common goals established.	General Fund
Statewide water research needs	Mnplan (EQB)	The EQB is to develop a water research needs and priorities report for the Legislature. MS 103A.43	Planning	Planning	Legislators Other state agencies	0	Water research is coordinated. NOTE: this work is conducted through the Water Unification Initiative.	No specific funding

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Water quality and quantity trends assessment	Mnplan (EQB)	EQB is to work with PCA, MDA and DNR to coordinate a biennial assessment and analysis of water quality and quantity, groundwater degradation trends, and efforts to reduce, prevent, minimize and eliminate degradation of water. This assessment must include an analysis of relevant monitoring data. MS 103A.43	Planning	Planning	Legislators Other state agencies	0	Water trends and activities are documented. NOTE: this work is conducted through the Water Unification Initiative.	No specific funding
Regulation of Fertilizers, Soil and Plant Amendments	MDA (Agronomy and Plant Protection)	This program regulates the registration, use, handling and storage of fertilizers. This is accomplished by traditional product assurance, regulations on handling and storage, promotion of voluntary BMPs, regulation of product use, emergency spill response and long term remediation and reimbursement of cleanup costs. MS 18.C MS 18.D MS 18 E MS 103.4 MS 115.B	Regulation and enforcement Monitoring and assessment Training and assistance Financial assistance	Regulation and enforcement Ambient monitoring Compliance monitoring Technical assistance Training Financial assistance	Regulated parties Citizens	16	Registers products to ensure label compliance; permits bulk storage and containment; promotes Bumps for water quality protection; responds to emergencies; licenses commercial applicators; remediates contamination; oversees remediation and reimbursement; monitors and assesses water and practices, licenses commercial animal waste applicators, certifies soil and manure testing laboratories.	General fund, MERLA, Federal and State grants.

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MN Pesticide Control Act	MDA (Agronomy and Plant Protection)	This program regulates the registration, use, handling and storage of pesticides. This is accomplished by traditional product assurance, regulations on handling and storage, licensing of applicators. MS 18.B MS 18.D MS 18 E MS 103.4 MS 115.B	Regulation and enforcement Monitoring and assessment Training and assistance Financial assistance	Regulation and enforcement Ambient monitoring Compliance monitoring Technical assistance Training Financial assistance	Regulated parties Citizens Federal agencies	71	Registers products; permits storage; promotes BMPs for water quality protection; monitors and assesses water and practices; licenses and certifies applicators; responds to emergencies; remediates contamination; oversees remediation and reimbursement; and collects and disposes of waste pesticides.	Pesticide fees, general fund, federal FIFRA grant, MERLA, and State and Federal grants
Agriculture Best Management Practices Loan Program	MDA (Agricultural Finance Division) (Agricultural Development Division)	This environmental quality program provides zero interest loans to local units of government who in turn provide low interest loans to individuals for agricultural Best Management Practices that help implement agricultural non-point source pollution priorities in local water plans. The Agricultural Finance Division administers the funding. The Agricultural Development Division works with counties, county Soil and Water Conservation Districts (SWCDs) and local water planners to develop applications, and convenes an advisory committee (comprised of water quality agencies and local units of government) to review and rank the applications and advise the commissioner on allocation decisions. (Minnesota Statutes, 2000, Section 17.117, as amended by Laws of Minnesota 2001, First Special Session, Chapter 2, Section 25.)	Financial assistance	Financial assistance Technical assistance	Citizens Local government Regulated parties	2.5	Provides low interest loans to agricultural producers, agricultural supply businesses and rural landowners to adopt agricultural best management practices (BMPs) that reduce environmental pollution. Agricultural producers receive low interest loans to help offset costs of environmental improvements. Improvements in environmental quality in agricultural areas. Implementation of agricultural environmental goals in local water plans. Increased compliance with agricultural environmental standards and regulations.	Annual Allocations from PFA or General Fund and Revolving Funds

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MN Well Construction Code and Program	MDH (Environmental Health)	The program protects the health of those who drink well water, approx. 70 percent of state's population. It also protects groundwater resources through compliance with proper construction techniques for new wells and borings, and through the timely and proper sealing of old wells and borings. MS Chapter 103I	Regulation and enforcement	Regulation and enforcement Oversight of activities of regulatory partners	Local government Citizens Other state agencies	35	Licensure and training for well related professions. Inspection of new wells and borings. Follow-up on property transfers to ensure unused wells are sealed. Maintain data on the location of wells and borings. Establish "special well construction areas" for those parts of Minnesota known to have groundwater contamination or other special conditions. Provide information and technical assistance to public and professions, including water clinics with MDA.	Regulatory Fees
Public Water Supply Program	MDH (Environmental Health)	The MDH ensures that public water supplies provide a safe and adequate supply of drinking water to protect the health of residents and visitors. MDH sets maximum contaminant levels and monitoring frequencies for over 10,000 public water systems in the state. MS 144.381 to 144.385 - General MS 115.741 – Operator cert. MS 144.145 - Fluoride MS 446A.081- DWRF	Regulation and enforcement Infrastructure maintenance	Regulation and enforcement Infrastructure maintenance Compliance monitoring	Local government Citizens Other state agencies	90	Compliance assistance to ensure water suppliers meet standards. Monitor drinking water quality and perform on-site inspections of water system facilities and operations. Establish construction standards and review and approve plans for construction of drinking water facilities. Train and certify operators in conjunction with PCA wastewater operator program. Award loans to public water suppliers for infrastructure improvements in conjunction with DTED. Provide information, education, and assistance. Fluoridation of public water supplies.	Regulatory Fees, Service Connection Fees, Federal Funds and Revolving Fund

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Wellhead/Source Water Protection Program	MDH (Environmental Health)	The program is designed to protect public wellhead and source water areas from contaminants that may adversely affect human health. Public water suppliers are required to delineate protection areas, investigate potential contaminant sources and develop a program for managing these sources. MS 144.381 to 144.385	Training and assistance Regulation and enforcement	Regulation and enforcement Technical assistance Training Planning	Local government Citizens Other state agencies	25	Work with public water suppliers to develop and implement source water/wellhead protection plans that safeguard their water sources from contamination.	General Fund, Service Connection Fees, Federal Funds (Clean Water Act 106 and 319) and Revolving Fund
Health Based Standard Setting	MDH (Environmental Health)	The program established and maintains health risk limits and health based values for groundwater and water contaminants. MS 103H.201 MS 144.0751	Standards and indicators	Standards establishment Technical assistance	Other state agencies Nonprofit organizations (Environmental and health advocacy groups) Citizens Legislators	5	Conducts research, analyzes results, and communicates to local, regional and state programs (PCA, DNR, MDA), results of water exposure conditions. Review and revise as necessary health risk levels (HRLs) for groundwater contaminants and health based values (HBVs) for water. Safe drinking water standards must be based on scientifically acceptable, peer-reviewed information and include a reasonable margin of safety to adequately protect the health of infants, children, and adults.	General Fund
Monitoring Data Coordination and Reporting	PCA	Preparation of reports, compiling of data, and presentation of monitoring results.	Monitoring and assessment	Technical assistance Ambient monitoring	Local government	8	Reports, data runs, and other information compiled in useful formats.	Federal and state funding

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Biological Monitoring	PCA	Development of stream indices of biological integrity (IBI).	Standards and indicators Monitoring and assessment	Ambient monitoring Chemical and biological indicator establishment	Federal Agencies Citizens Legislators Nonprofit organizations	3	Criteria by which stream health can be assessed via health of biological communities.	General Fund
Mercury in Fish Tissue	PCA	Determine the concentrations of mercury in fish tissue for a set of Minnesota lakes.	Monitoring and assessment	Ambient monitoring	Citizens	1	Information on the concentration and trends of mercury in fish tissues.	Federal and state funding
Toxics Monitoring	PCA	Determine the concentration of metals in streams and sources of sediment contamination.	Monitoring and assessment	Ambient monitoring	Federal Agencies	2	Information on water body contamination by toxic substances.	Federal and state funding
Project-specific monitoring	PCA	Intensive monitoring of specific lakes and streams.	Monitoring and assessment	Ambient monitoring	Local government Citizens	6	More detailed information on the water quality of specific water bodies.	State funding
Stormwater	PCA	Minimum requirements for controlling storm water runoff from industrial and construction sites.	Regulation and enforcement	Technical assistance Training Regulation and enforcement	Local government Federal agencies	14	Reduced water pollution from storm water leaving commercial sites.	Section 319 funds, legislative appropriation

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Total maximum Daily Loads (TMDLs)	PCA	Identification of impaired waters and development of implementation plans for returning water bodies to a healthy state.	Regulation and enforcement	Technical assistance Financial assistance Oversight of activities of regulatory partners Regulation and enforcement	Federal agencies Local government Nonprofit organizations Citizens	5	Implementation plans for returning water bodies to a healthy state, and eventually water bodies that meet water quality standards.	Legislative appropriation, Section 319
Ambient Stream Water Quality Monitoring	PCA	Routine monitoring provides background water quality data necessary for several Agency water programs and for responses to requests from individuals and groups interested in water quality. Water samples are analyzed for a variety of chemical parameters.	Monitoring and assessment	Ambient monitoring	Federal agencies Citizens Nonprofit organizations Legislators	1	Information on stream water quality, including trends of pollutant levels.	General Fund, Federal 100
Citizens Lake and Streams Monitoring Programs	PCA	Volunteers assist in the assessment of water quality by measuring clarity of lakes using Secchi discs and streams using transparency tubes.	Monitoring and assessment	Technical assistance	Citizens Federal agencies Nonprofit organizations Legislators	2	Improved quantity of data on our water resources through use of citizen volunteers.	General Fund, SRF Loan Program
Lake Assessments Program	PCA	The program is a cooperative study of a lake involving PCA staff and local citizens. The studies characterize a lakes condition and provide some basic information regarding the interaction of the lake and it watershed.	Monitoring and assessment	Ambient monitoring Technical assistance	Citizens Local government Nonprofit organizations	1	Information on the water quality of specific lakes.	EPA Lake Assessment Grants

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Program	Agency	Brief Description	Program Category	Agency Role	Program Customer	FTEs	Outcomes	Funding Source
Lake Studies Program	PCA	The program inventories the physical, chemical and biological characteristics of Minnesota's lakes for informed decision making of state fisheries and lake management programs.	Monitoring and assessment	Ambient monitoring	Other state agencies Citizens	1	Information on the water quality of specific lakes.	General Fund
Wetlands Biological Assessment	PCA	Development of practical criteria for making decisions about impacts to high quality wetlands.	Standards and indicators	Chemical and biological indicators establishment Ambient monitoring	Federal agencies Local government Citizens	2	Criteria for assessing wetland health and condition.	Federal Funding
Basin Planning and Coastal Zone Management	PCA	Plans are created to address water quality issues on a basin-wide scale.	Planning	Planning	Local government Other state agencies Federal agencies Citizens Nonprofit organizations	7	Basin Information Documents, Basin Plans, local input to state water planning efforts such as Watermarks.	Federal Funding, Legislative Appropriation
Water Program Development and Planning	PCA	Aggregate staff time dedicated to planning and other water program development and coordination not specified by listed programs.	Planning Training and assistance Regulation and enforcement	Planning	Federal agencies Local government	4	Plans, initiatives, tracking of progress, support of programs, etc.	Various – section 319, General fund

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Program	Agency	Brief Description	Program Category	Agency Role	Program Customer	FTEs	Outcomes	Funding Source
Feedlot Program	PCA	Any facility that meets the definition of feedlot with greater than 1000 animal units (au) needs an NPDES permit. Any new facility greater than 300 AU needs an NPDES permit. In addition, any facility that is creating a pollution hazard may be required to get a permit.	Regulation and enforcement	Regulation and enforcement Oversight of activities of regulatory partners Technical assistance	Regulated parties Local government	31.5	Inventory of feedlots and control of pollution from them.	Federal 106, Federal 319, General Fund
Individual Sewage Treatment Systems	PCA	PCA has minimum standards and criteria for the design, location, installation and the use and maintenance of Individual Sewage Treatment Systems. ISTS professionals are registered and <u>licensed</u> by PCA in accordance with state standards.	Regulation and enforcement	Technical assistance Oversight of activities of regulatory partners	Local government Regulated parties	4.5	Information provided to ISTS owners and professionals to encourage better management of ISTS. Moving program to more local implementation.	General Fund
NPDES and SDS Permit Programs	PCA	The NPDES program regulates discharges of industrial and municipal wastes into waters of the state. Permits are granted that include standards for the discharge and monitoring requirements. Some municipal sewage, sewage sludge and industrial wastes are disposed of by land application such as spray irrigation. SDS permits generally require permit holders to monitor ground water at sites where the waste is applied and to submit quarterly or annual reports.	Regulation and enforcement	Regulation and enforcement	Regulated parties Federal agencies Nonprofit organizations Citizens	77	Controlled discharges of waste to surface water and land.	General Fund, Permit Fees, Federal 106
Water Quality Standards Establishment	PCA	This program establishes in-stream and discharge standards for waters of the state.	Standards and indicators Regulation and enforcement	Standards and indicators	Regulated parties Federal agencies	5	In-stream water quality standards and facility specific effluent limits to protect water quality.	General Fund, Federal Funding

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Program	Agency	Brief Description	Program Category	Agency Role	Program Customer	FTEs	Outcomes	Funding Source
Clean Water Partnership and CWA Section 319 Financial Assistance Programs	PCA	These programs provide financial assistance through matching grants and loans and technical assistance to local governments to lead water resource restoration and protection projects with an emphasis on watersheds.	Training and assistance	Financial assistance Technical assistance	Local government Other state agencies Nonprofit organizations	14	Diagnosis of water quality problems and causes of specific water bodies and implementation of corrective measures to improve and protect water quality.	Federal 319 Grants, General Fund
Individual Sewage Treatment System Grant Program	PCA	Provides a 50% match grant to low income communities for the installation of ISTS and small cluster systems.	Financial assistance	Financial assistance	Local government	1	Specific small communities' wastewater treatment needs are addressed.	General Fund
Water Pollution Control Revolving Fund/Wastewater Infrastructure Funding Program	Minnesota Public Facilities Authority/DTED in conjunction with PCA	Provides loans and grants to municipalities for wastewater infrastructure improvements and provides funding to state agencies for nonpoint source loan programs.	Financial assistance	Financial assistance Infrastructure maintenance	Local government	4.5	40 wastewater projects estimated \$120 million, reduce local taxes and fees by \$35million annually.	Loans: 6% state match, 30% Federal, 14% investment earnings, and 50% revenue bonds
Drinking water Revolving Fund	Minnesota Public Facilities Authority/DTED in conjunction with MDH	Provides loans to eligible water suppliers to make drinking water infrastructure improvements and provides funding to address several mandated state functions undertaken by MDH.	Financial assistance	Financial assistance Infrastructure maintenance	Local government	2.5	Fund 20-25 projects per year for \$15 –\$30 million annually reduce local taxes and fees by \$5 million annually.	State matching funds 10%, Federal 50%, revenue bonds 35% and investment earnings 5%
County Geologic Atlas and Regional Hydrogeologic Assessments	Minnesota Geological Survey DNR (Waters)	Geologic mapping and hydrologic characterization to identify sensitive ground water resources and to support local government planning.	Training and assistance Planning	Technical assistance Training	Local government Other state agencies Citizens Schools and educators	10	Geologic maps (and GIS files), derivative maps, databases for land use decision-making, training of local government users.	DNR

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Program	Agency	Brief Description	Program Category	Agency Role	Program Customer	FTEs	Outcomes	Funding Source
County Well Index Database	Minnesota Geological Survey	On-going program to maintain, populate, and distribute a state-wide database of well records.	Training and assistance Planning Monitoring Regulation and enforcement	Technical assistance	Local government Other state agencies Citizens	3	Database of 325,000+ well records to support geologic mapping, water use investigations, spill response, regional and site-specific hydrologic investigations, code enforcement, well abandonment programs.	Minnesota Geological Survey state special appropriation, supplemental support from some DNR and MDH funded projects
Borehole Geophysical Logging Program	Minnesota Geological Survey	On-going program to collect, interpret, and store geophysical logs of wells and boreholes to determine geologic units present, hydrologic properties, well construction.	Training and assistance Planning Monitoring Regulation and enforcement	Technical assistance	Other state agencies Local government Citizens	1	Supports many other programs by establishing aquifer(s) being used, monitored, contaminated, sampled, etc. by a particular well; used to support code enforcement by MDH; measures hydrologic properties for new hydro framework units.	Minnesota Geological Survey state special appropriation, some support from LCMR, Minnesota Department of Health
Hydro-stratigraphic Framework Studies	Minnesota Geological Survey	On-going, long-term program to develop a framework of rock units based on water-bearing characteristics.	Training and assistance Planning Regulation and enforcement	Technical assistance	Other state agencies Federal agencies	1+	Framework of rock units specifically for water management and code enforcement; understanding of flow paths; use in ground water flow models.	MGS State Special Appropriation, LCMR, others
Geologic Mapping and Database Development to Support Wellhead Protection	Minnesota Geological Survey MDH Southeast Minnesota Water Resources Board	Mapping at various scales to support ground water modeling and wellhead protection.	Training and assistance Planning	Technical assistance	Other state agencies Federal agencies Local government	2	Geologic information to delineate wellhead protection areas and to design wellhead protection plans.	MDH, SEMNWRB, others

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Program	Agency	Brief Description	Program Category	Agency Role	Program Customer	FTEs	Outcomes	Funding Source
Karst Database Development	Minnesota Geological Survey MDH	Design, construction, and population of a statewide database of karst features.	Training and assistance Planning	Technical assistance	Other state agencies Local government Citizens	1	Database of features to consider in ground water management including facility siting and non-point source management.	PCA 319
Geologic Mapping to Support Lake Management	Minnesota Geological Survey U of MN	Geologic and hydrologic mapping to identify lake-water/ground water interaction and its effects on water quality.	Training and assistance Planning	Technical assistance Training	Local government Citizens Nonprofit organizations	1	Maps suitable for land use planning, of geologic units and hydrologic conditions; derivative maps of areas contributing runoff and ground water to lakes.	Carnelian-Marine Watershed District, others
Quantitative Mapping of Recharge, Twin Cities Metro Area, and others	Minnesota Geological Survey	Identification of recharge areas, recharge rates, and sustainable yields.	Training and assistance Planning Standards and indicators	Technical assistance	Local government Other state agencies Federal agencies	1	Maps of recharge areas and estimates of sustainable yield for water supply management.	MGS State Special Appropriation and U.S. Geological Survey (presently unfunded)
Manure Management and Utilization Education	U of MN WRC U of MN Extension	Education on manure application for producers and private applicators.	Training and assistance	Training	Citizens Nonprofit organizations	2	Have producers use manure effectively as a part of a comprehensive manure management plan.	MDA, Section 319
Environmental Quality Incentives Program Education	U of MN WRC U of MN Extension	Education on Conservation Incentives.	Training and assistance	Training	Citizens Nonprofit organizations	2	Educate producers about farm bill conservation incentives to obtain adoption of conservation practices.	USDA/NRCS

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Program	Agency	Brief Description	Program Category	Agency Role	Program Customer	FTEs	Outcomes	Funding Source
On-site Sewage Treatment Education Program	U of MN WRC U of MN Extension	Education, research and monitoring of standard and alternative individual sewage treatment systems.	Training and assistance Monitoring and assessment	Training	Citizens Nonprofit organizations Schools and educators	3	Work with a variety of audiences to change behavior in the operation and maintenance of individual sewage treatment systems.	U of MN Extension, Section 319, PCA
Shoreland and Water Quality Education	U of MN WRC U of MN Extension	Educating shoreland property owners and LGU staff about shoreland issues.	Training and assistance Monitoring and assessment	Training	Citizens	2	Work with shoreland owners to revegetate shoreland.	U of MN Extension, Counties, Section 319, PCA
Water Resources Education	U of MN Extension BWSR	Variety of educational programs.	Training and assistance	Training	Citizens Local government	4	Provide leadership for water quality programs and stewardship including water festivals, watershed activities, facilitation of mediation.	U of MN Extension, BWSR
MinnAqua Program	U of MN Extension DNR	Teach youth and citizens about lake and stream ecology.	Training and assistance	Training	Citizens	1	Conduct fishing clinics and seminars to teach people about water resources concerns and concepts	DNR, U of MN Extension
Volunteer Stream Monitoring Program	U of MN WRC U of MN Extension Metropolitan Council	In metro area conduct stream monitoring clinics for teachers and students.	Monitoring and assessment Training and assistance	Training Ambient monitoring	Schools and educators	2	Set up monitoring program through use of student volunteers.	Met Council, U of MN WRC
Lower MN River Assessment	U of MN Extension Friends of the MN River Boonestroo and Associates Metropolitan Council	Facilitate planning and implementation around cleaning up the MN River.	Planning Monitoring and assessment Training and assistance	Planning Training Ambient monitoring	Citizens Nonprofit organizations Local government	1	Facilitate planning and implementation programs.	Met Council, U of MN Extension

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Program	Agency	Brief Description	Program Category	Agency Role	Program Customer	FTEs	Outcomes	Funding Source
Lake Quality Assessment	U of MN WRC DNR	Monitor trophic status of lakes using GIS.	Monitoring and assessment	Ambient monitoring	Other state agencies	1	Monitor water quality and clarity remotely.	Met Council
Drainage Practices in the Minnesota River Basin	U of MN WRC MDA	Programs on drainage and water management issues.	Training and assistance Monitoring and assessment	Training Ambient monitoring	Citizens	3	Evaluate and demonstrate drainage practices.	MDA, U of MN Extension, U of MN WRC
Natural Resources Parks Program	Metropolitan Council (Community Development)	This program provides funding to the regional park agencies for the operation, maintenance, development and acquisition for the parks in the metropolitan area.	Acquisition and development	Acquisition and development	Citizens Schools and educators	2	Most regional parks are water-based or provide recreational opportunities related to water.	Appropriations from the State Legislature
Lake Sampling Program	Metropolitan Council (Environmental Services)	The Metropolitan Council has undertaken a lake sampling program since 1980 in the Metro area. This program is used to assess the quality of over 150 metro area lakes. This assessment is used to establish trends in regional lake water quality. Includes a Citizens' Assisted Monitoring Program (CAMP) element.	Monitoring and assessment	Ambient monitoring technical assistance	Citizens Local government	1	Assist water managers within the region to formalize water quality objectives.	Wastewater fees, small charge for CAMP cooperators
Stream Water Quality Sampling	Metropolitan Council (Environmental Services)	The Metropolitan Council samples ambient river and stream water quality, conducts special studies (Hg, PCB, endocrine disrupters, phosphorus), and does routine sampling of water and sediment occurs for nutrients, solids, toxics and biological contaminants for wastewater treatment compliance. Water quality modeling and data management are included in this category.	Monitoring and assessment	Ambient monitoring Compliance monitoring Technical assistance	Citizens Local government Other state agencies Federal agencies	14	Monitor water quality trends within the metro area; explore pollutants of special interest or emerging importance.	Wastewater fees, special Legislative appropriation (1997, 1999)

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Program	Agency	Brief Description	Program Category	Agency Role	Program Customer	FTEs	Outcomes	Funding Source
Pollution Prevention	Metropolitan Council (Environmental Services)	Metropolitan Council's Industrial Waste section works with industrial wastewater permittees to reduce pollution discharged to the wastewater system.	Regulation and enforcement Training and assistance	Regulation and enforcement Technical assistance	Regulated parties Other state agencies Federal agencies	1.5	Reduced discharge of industrial waste to the metropolitan wastewater collection system.	Wastewater fees
Laboratory Analysis	Metropolitan Council (Environmental Services)	Complete laboratory set up to assess wastewater influent/effluent quality, compliance, and ambient and nonpoint source water quality.	Monitoring and assessment Regulation and enforcement	Compliance monitoring Technical assistance	Regulated parties	41	Tracking compliance with regulatory requirements; monitoring water quality trends.	Wastewater fees
Water supply Planning	Metropolitan Council (Environmental Services)	The Council prepares a regional water supply plan, reviews municipal water supply plans, collects basic water use data, reviews DNR water appropriation permits, facilitates discussion groups as needed (ex. Southwest Metro Groundwater Work Group), participates in source water protection activities (ex. Miss. River Defense Network).	Planning Training and assistance	Planning Technical assistance	Citizens Local government Other state agencies Legislators	1	Assurance that water supply remains a viable resource to support current and future metro area users.	Ad Valorem Tax Levy, wastewater fees
Grant Programs	Metropolitan Council (Environmental Services)	The Metro Environment Partnership grant program distributes funds for nonpoint source pollution abatement. Over \$15 million will be awarded from 1994 through 2002.	Financial assistance	Financial assistance	Citizens Nonprofit organizations Local government	1.5	Grant funds to spur improvements in regional water quality.	Wastewater fees
Technical Assistance	Metropolitan Council (Environmental Services) (Community Development)	Watershed Coordinators, Sector representatives, and staff provide technical assistance to communities, watershed organizations, non-profits organizations and other public agencies. Assistance is offered in such areas as water quality management, special studies, septic systems, groundwater management, environmental education, water planning and industrial waste assistance in pollution prevention, recycling and regulation.	Training and assistance	Technical assistance	Citizens Other state agencies Local government	1.5	Sharing study results, experience, and technical and planning knowledge with others.	Ad Valorem Tax Levy, wastewater fees

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Program	Agency	Brief Description	Program Category	Agency Role	Program Customer	FTEs	Outcomes	Funding Source
Research and Development	Metropolitan Council (Environmental Services)	The Council conducts research on various wastewater treatment functions and water quality management measures.	Regulation and enforcement Training and assistance	Regulation and enforcement Technical assistance	Local government Citizens	7	Improved water quality through better treatment of wastewater and understanding of pollution occurrence and management.	Wastewater fees
River Corridor Planning	Metropolitan Council (Environmental Services) (Community Development)	The Council participates in several planning programs on major river corridors (ex, American Heritage Rivers Initiative). The Council also reviews plans for communities adjacent to the Mississippi River (MNRRA, Critical Area).	Planning	Planning	Citizens Local government Federal agencies	1	Improved coordination among corridor stakeholders and incorporation of regional perspective in land use planning along rivers.	Ad Valorem Tax Levy, wastewater fees
Regional Environmental Planning Program	Metropolitan Council (Environmental Services) (Community Development)	The Metropolitan Council has been charged by the Legislature to prepare regional plans and policy documents that include an environmental component. This provides the basis for Council environmental project and permit review through numerous agencies. The Council reviews and comments on local government Comprehensive Plans. If the Council determines that the local Comprehensive Plan will impact on the metropolitan systems, the Council can require the local plan be modified to be consistent with Council planning.	Planning	Planning	Citizens Other state agencies Regulated parties Local government	13	Review of natural resources component of local comprehensive plans; compile a GIS-based natural resources inventory program to help establish standards and guidelines for preservation and protection of natural features; prepare regional policy plans to assure the orderly and economic growth of the region.	Ad Valorem Tax Levy, Charge-backs to Regional Agencies, wastewater fees
Industrial Waste and Pollution Prevention (Pre-treatment)	Metropolitan Council (Environmental Services)	MCES administers this EPA/PCA delegated program for the metro area, including permitting, monitoring and enforcement; program required under Federal NPDES system.	Regulation and enforcement	Regulation and enforcement	Citizens Regulated parties Local government	20	Compliance with Federal regulations, and safe and efficient operation of industrial wastewater collection and treatment; beneficial reuse of residual industrial wastes.	Wastewater and permit fees