



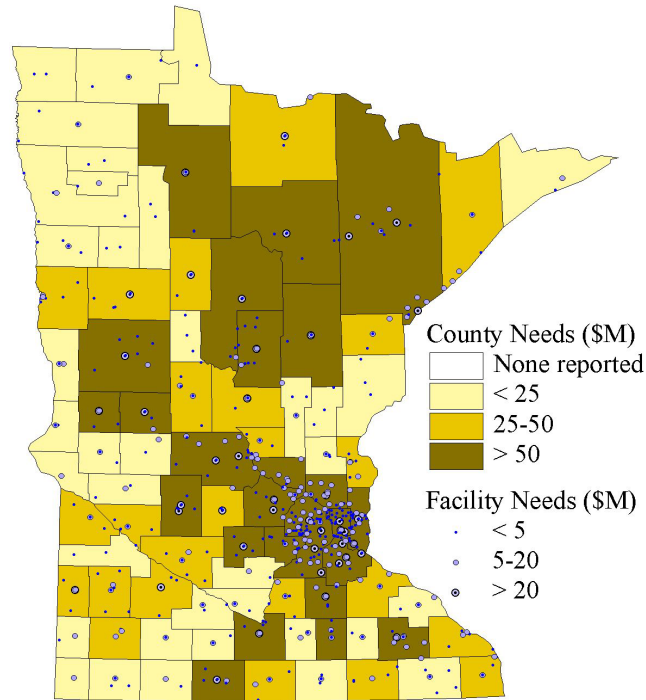
Minnesota

Clean Watersheds Needs Survey 2004

The Clean Watersheds Needs

Survey (CWNS) is a comprehensive assessment of needs¹ to meet the water quality and water-related public health goals of the Clean Water Act (CWA). States and the U.S. Environmental Protection Agency (EPA) conduct the CWNS every four years under CWA Sections 205(a) and 516 (b)(1).

Minnesota reported needs totaling \$6.5 billion in 2004. This is a one hundred and fifty-two percent increase from the \$2.6 billion in needs reported in 2000.



Reported Needs in Minnesota

Type of Need	Needs (2004 Dollars, Millions)		
	2000	2004	Percent Change
Wastewater treatment plant improvements	\$848	\$1,143	35%
Wastewater collection and conveyance improvements	\$526	\$1,575	199%
Combined sewer overflow correction	\$6	\$9	50%
Stormwater management controls	\$134	\$911	580%
Home sewage treatment system improvements	n/a	\$1,017	n/a
Recycled wastewater distribution ^a	n/a	nr ^b	n/a
Total Wastewater Treatment Needs	\$1,514	\$4,655	207%
Agriculture best management practices (BMPs)	\$198	\$414	109%
Forestry BMPs	nr	nr	n/a
Residential/ business development BMPs	\$11	nr	n/a
Ground water protection BMPs	< \$0.5	nr	n/a
Marinas and boating BMPs	nr	nr	n/a
Mining and quarrying BMPs	nr	nr	n/a
Contaminated industrial site (Brownfield) remediation	\$324	\$995	207%
Leaking storage tank remediation	\$533	\$13	-98%
Sanitary landfill BMPs	nr	\$105	n/a
Water resource restoration and protection	\$2	\$314	15,600%
Total Nonpoint Source Pollution Control Needs^c	\$1,068	\$1,841	72%
Total Needs	\$2,582	\$6,496	152%

^a The CWNS did not collect data on recycled water distribution in 2000

^b Not reported

^c The actual NPS pollution control needs are expected to be higher since documenting and reporting their costs is difficult.

¹ Costs in the CWNS are generally eligible for funding under the Clean Water Act State Revolving Fund (CWSRF). All needs are capital needs except stormwater management needs, which include program development costs. The survey is a "snapshot" of data and needs; needs are as of January 1, 2004, and all costs are in January 2004 dollars.



Minnesota

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The enactment of the Clean Water Act (CWA) in 1972 resulted in dramatic improvements in the:

- Number of wastewater treatment plants.
- Percentage of the population served by wastewater treatment plants.
- Level of effluent treatment from wastewater treatment plants.

In 2004, 66% of Minnesota residents received centralized wastewater treatment services at the secondary, greater than secondary, or no discharge treatment level, compared to 24% in 1972.

Number of Centralized Treatment Facilities and Population Served								
Treatment Level	Number of Facilities			Population Served				
	1972	2004	Projected ^a	1972	% Total Population 1972	2004	% Total Population 2004 ^b	Projected ^a
Less than Secondary	27	1	1	205,000	5.2%	25	< 0.1%	25
Secondary	103	425	405	503,000	12.8%	1,166,010	22.9%	1,213,299
Greater than Secondary	36	80	101	458,000	11.7%	2,219,811	43.5%	2,666,868
No Discharge	0	4	8	0	0%	3,513	< 0.1%	5,417
Total	166	510	515	1,166,000	29.7%	3,389,359	66.4%	3,885,609

^aNumber of facilities and population served if all needs documented in the CWNS 2004 are met.

^bThe remaining population is largely served by home and cluster sewage treatment systems. (Number of facilities from Tables C-7 and C-8 of the CWNS 2004 Report to Congress)

What are treatment levels?

- *Less than secondary treatment* removes solids by filtration, sedimentation, and chemical coagulation.
- *Secondary treatment* removes most of the organic matter in wastewater using biological processes.
- *Greater than secondary treatment* removes additional organic matter, nitrogen, phosphorus, or toxics.
- *No discharge facilities* include facilities that reuse wastewater, discharge to an underground aquifer, or dispose of wastewater via methods such as irrigation or evaporation.

The CWA goals of fishable, swimmable and drinkable waters require secondary or greater treatment.

Small communities often need additional assistance to meet CWA requirements, because they often lack adequate financing, training, and economies of scale to efficiently manage and maintain wastewater treatment systems.

In Minnesota, small community wastewater facilities serve 27% of the population and comprise 39% of total wastewater treatment and collection needs. EPA small community support information is available at: www.epa.gov/owm/mab/smcomm

Population	Facilities		Needs (2004 Dollars, Millions)	
	2000	2004	2000	2004
< 1,000	185	74	\$146	\$171
1,000-3,499	39	81	\$126	\$264
3,500-10,000	15	87	\$59	\$1,011
Total	239	242	\$331	\$1,446

Visit www.epa.gov/cwns for more information including:

- Detailed Reports to Congress
- Other state fact sheets
- Maps, charts, and data downloads for watersheds, counties, congressional districts, states, and regions