

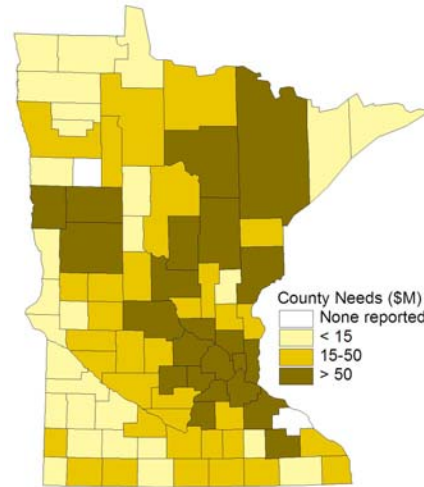


# Minnesota

## Clean Watersheds Needs Survey 2008

### The Clean Watersheds Needs

**Survey** (CWNS) is a comprehensive assessment of needs<sup>1</sup> 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 Section 516 (b). Minnesota documented needs totaling \$6.2 billion in 2008. This is a 20 percent decrease from the \$7.7 billion in needs documented in 2004.



### Documented Needs in Minnesota

Type of Need	Needs (2008 Dollars, Millions)		
	2004	2008	Percent Change
Wastewater treatment	\$1,355	\$925	-32%
Pipe repair and new pipes	\$1,867	\$2,198	18%
Recycled water distribution	nr <sup>a</sup>	nr	0%
Combined sewer overflow correction	\$11	\$0	-100%
<b>Total Wastewater Treatment Needs</b>	<b>\$3,233</b>	<b>\$3,123</b>	<b>-3%</b>
Conveyance infrastructure	n/a	\$565	n/a
Treatment systems	n/a	\$390	n/a
Green infrastructure	n/a	\$16	n/a
General stormwater management	\$1,080	\$16	-99%
<b>Total Stormwater Management Needs<sup>b</sup></b>	<b>\$1,080</b>	<b>\$987</b>	<b>-9%</b>
Agriculture (cropland) best management practices (BMPs)	\$325	\$30	-91%
Agriculture (animals) BMPs	\$166	\$16	-90%
Silviculture (forestry) BMPs	nr	nr	0%
Ground water protection: unknown source BMPs	nr	nr	0%
Marinas BMPs	nr	nr	0%
Resource extraction BMPs	nr	nr	0%
Brownfields remediation	\$1,179	\$593	-50%
Storage tank remediation	\$15	\$4	-73%
Sanitary landfills BMPs	\$124	nr	-100%
Hydromodification (Water resource restoration and protection)	\$372	\$123	-67%
Other estuary management activities <sup>c</sup>	n/a	nr	n/a
<b>Total Nonpoint Source Control Needs<sup>b,d</sup></b>	<b>\$2,181</b>	<b>\$766</b>	<b>-65%</b>
<b>Total Decentralized Wastewater Treatment Needs<sup>b,d</sup></b>	<b>\$1,205</b>	<b>\$1,294</b>	<b>7%</b>
<b>Total Needs</b>	<b>\$7,699</b>	<b>\$6,170</b>	<b>-20%</b>

<sup>a</sup>Not reported; <sup>b</sup>Actual needs may be higher, since documenting these needs is difficult; <sup>c</sup>In 2004, Other Estuary Management Needs were reported under Separate State Estimates (SSEs); <sup>d</sup>Not included in Official Needs in the Report to Congress.

<sup>1</sup> Documented needs in the CWNS include the unfunded capital costs of projects as of January 1, 2008 that address a water quality or a water quality-related public health problem existing as of January 1, 2008, or expected to occur within the next 20 years; and meet the seven CWNS documentation criteria. All needs are in January 2008 dollars.



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## Wastewater Treatment Facilities

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.
- Quality of effluent treatment from wastewater treatment facilities.

In 2008, 60% of Minnesota residents received centralized wastewater treatment services at the secondary, advanced, or no discharge treatment level, compared to 25% in 1972.

Number of Centralized Treatment Facilities and Population Served									
Treatment Level	Number of Facilities			Population Served					
	1972	2008	Projected <sup>a</sup>	1972	%Total Population 1972	2008	%Total Population 2008	Projected <sup>a</sup>	
Less than Secondary	27	0	0	205,000	5	0	0	0	
Secondary	103	80	64	503,000	13	630,849	12	565,067	
Advanced	36	32	49	458,000	12	2,472,032	48	2,928,204	
No Discharge	0	26	29	0	0	37,768	1	82,305	
<b>Total</b>	<b>166</b>	<b>138</b>	<b>142</b>	<b>1,166,000</b>	<b>30</b>	<b>3,140,649</b>	<b>60</b>	<b>3,575,576</b>	

<sup>a</sup>Number of facilities and population served if all needs documented in the CWNS 2008 are met.

## Small Communities

In Minnesota, small community wastewater facilities serve 31% of the population and comprise 53% of total wastewater treatment and collection needs. EPA small community support information is available at:

[www.epa.gov/owm/mab/smcomm](http://www.epa.gov/owm/mab/smcomm)

Reported Needs for Facilities in Small Communities				
Population	Facilities		Needs (2008 Dollars, Millions)	
	2004	2008	2004	2008
0-999	74	37	\$203	\$82
1,000-3,499	81	47	\$313	\$208
3,500-10,000	87	89	\$1,198	\$1,351
<b>Total</b>	<b>242</b>	<b>173</b>	<b>\$1,710</b>	<b>\$1,641</b>

Visit [www.epa.gov/cwns](http://www.epa.gov/cwns) for more information including:

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