



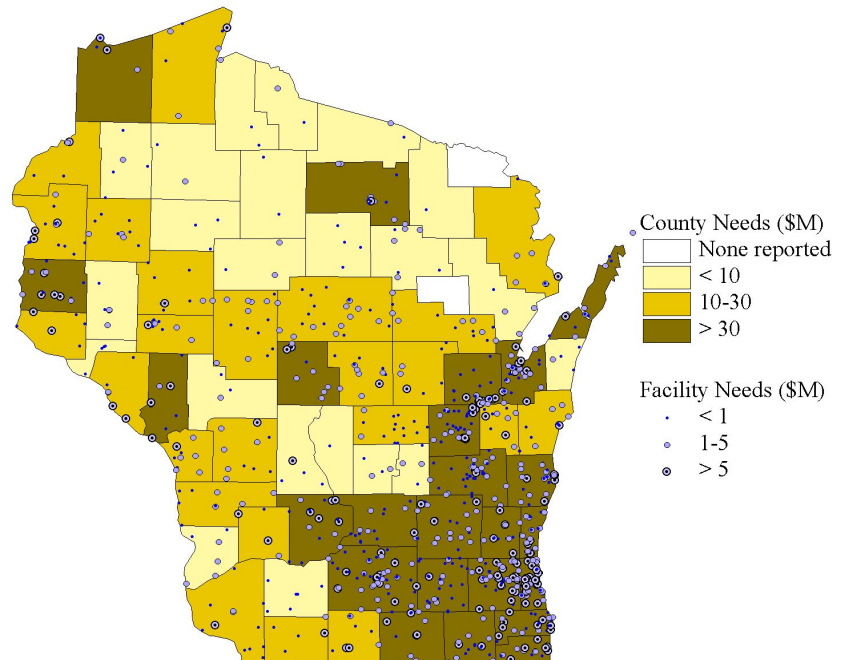
# Wisconsin

## Clean Watersheds Needs Survey 2004

### 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 Sections 205(a) and 516 (b)(1).

Wisconsin reported needs totaling \$5.4 billion in 2004. This is a forty-five percent increase from the \$3.7 billion in needs reported in 2000.



### Reported Needs in Wisconsin

Type of Need	Needs (2004 Dollars, Millions)		Percent Change
	2000	2004	
Wastewater treatment plant improvements	\$811	\$1,040	28%
Wastewater collection and conveyance improvements	\$1,270	\$2,218	75%
Combined sewer overflow correction	\$380	\$406	7%
Stormwater management controls	\$17	\$229	1247%
Home sewage treatment system improvements	n/a	\$18	n/a
Recycled wastewater distribution <sup>a</sup>	n/a	nr <sup>b</sup>	n/a
<b>Total Wastewater Treatment Needs</b>	<b>\$2,478</b>	<b>\$3,911</b>	<b>58%</b>
Agriculture best management practices (BMPs)	\$208	\$211	1%
Forestry BMPs	nr	nr	n/a
Residential/ business development BMPs	\$790	\$1,066	35%
Ground water protection BMPs	\$12	\$12	0%
Marinas and boating BMPs	nr	nr	n/a
Mining and quarrying BMPs	nr	nr	n/a
Contaminated industrial site (Brownfield) remediation	\$20	\$27	35%
Leaking storage tank remediation	nr	nr	n/a
Sanitary landfill BMPs	\$13	\$5	-62%
Water resource restoration and protection	\$194	\$169	-13%
<b>Total Nonpoint Source Pollution Control Needs<sup>c</sup></b>	<b>\$1,237</b>	<b>\$1,490</b>	<b>20%</b>
<b>Total Needs</b>	<b>\$3,715</b>	<b>\$5,401</b>	<b>45%</b>

<sup>a</sup> The CWNS did not collect data on recycled water distribution in 2000

<sup>b</sup> Not reported

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

<sup>1</sup> 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.



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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, 76% of Wisconsin residents received centralized wastewater treatment services at the secondary, greater than secondary, or no discharge treatment level, compared to 44% in 1972.

Number of Centralized Treatment Facilities and Population Served								
Treatment Level	Number of Facilities			Population Served				
	1972	2004	Projected <sup>a</sup>	1972	% Total Population 1972	2004	% Total Population 2004 <sup>b</sup>	Projected <sup>a</sup>
Less than Secondary	94	0	0	506,000	11.0%	0	0%	0
Secondary	129	292	287	1,370,000	29.7%	692,285	12.6%	720,245
Greater than Secondary	155	265	276	676,000	14.7%	3,452,096	62.7%	4,047,263
No Discharge	0	37	55	0	0%	42,691	0.8%	60,001
<b>Total</b>	<b>378</b>	<b>594</b>	<b>618</b>	<b>2,552,000</b>	<b>55.4%</b>	<b>4,187,072</b>	<b>76.0%</b>	<b>4,827,509</b>

<sup>a</sup>Number of facilities and population served if all needs documented in the CWNS 2004 are met.

<sup>b</sup>The 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 Wisconsin, small community wastewater facilities serve 26% of the population and comprise 20% 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)

Population	Facilities		Needs (2004 Dollars, Millions)	
	2000	2004	2000	2004
< 1,000	252	238	\$265	\$230
1,000-3,499	132	180	\$337	\$303
3,500-10,000	39	71	\$132	\$198
<b>Total</b>	<b>423</b>	<b>489</b>	<b>\$734</b>	<b>\$731</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 watersheds, counties, congressional districts, states, and regions