

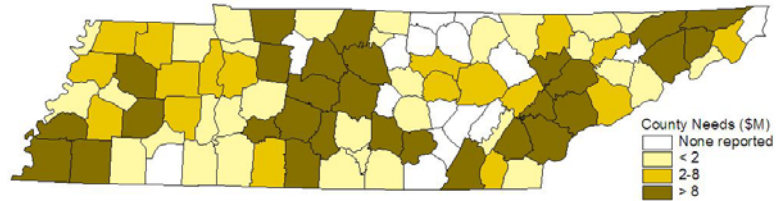


# Tennessee

## 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). Tennessee documented needs totaling \$1.4 billion in 2008. This is an 11 percent increase from the \$1.2 billion in needs documented in 2004.



### Documented Needs in Tennessee

Type of Need	Needs (2008 Dollars, Millions)		
	2004	2008	Percent Change
Wastewater treatment	\$270	\$468	73%
Pipe repair and new pipes	\$622	\$600	-4%
Recycled water distribution	nr <sup>a</sup>	\$9	n/a
Combined sewer overflow correction	\$338	\$96	-72%
<b>Total Wastewater Treatment Needs</b>	<b>\$1,230</b>	<b>\$1,173</b>	<b>-5%</b>
Conveyance infrastructure	n/a	\$146	n/a
Treatment systems	n/a	\$10	n/a
Green infrastructure	n/a	\$20	n/a
General stormwater management	nr	\$15	n/a
<b>Total Stormwater Management Needs<sup>b</sup></b>	<b>nr</b>	<b>\$191</b>	<b>n/a</b>
Agriculture (cropland) best management practices (BMPs)	nr	nr	0%
Agriculture (animals) BMPs	nr	nr	0%
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	nr	nr	0%
Storage tank remediation	nr	nr	0%
Sanitary landfills BMPs	nr	nr	0%
Hydromodification (Water resource restoration and protection)	nr	nr	0%
Other estuary management activities <sup>c</sup>	n/a	nr	n/a
<b>Total Nonpoint Source Control Needs<sup>b,d</sup></b>	<b>nr</b>	<b>nr</b>	<b>0%</b>
<b>Total Decentralized Wastewater Treatment Needs<sup>b,d</sup></b>	<b>&lt;\$0.5</b>	<b>\$5</b>	<b>925%</b>
<b>Total Needs</b>	<b>\$1,230</b>	<b>\$1,369</b>	<b>11%</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, 63% of Tennessee residents received centralized wastewater treatment services at the secondary, advanced, or no discharge treatment level, compared to 20% 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	29	0	0	393,000	9	0	0	0	
Secondary	80	203	203	354,000	9	2,546,455	41	3,260,733	
Advanced	102	31	32	469,000	11	1,310,711	21	1,602,574	
No Discharge	0	10	13	0	0	19,935	<1	43,785	
<b>Total</b>	<b>211</b>	<b>244</b>	<b>248</b>	<b>1,216,000</b>	<b>29</b>	<b>3,877,101</b>	<b>63</b>	<b>4,907,092</b>	

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

### Small Communities

In Tennessee, small community wastewater facilities serve 11% of the population and comprise 12% 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	12	17	\$15	\$15
1,000-3,499	29	42	\$47	\$60
3,500-10,000	11	28	\$25	\$59
<b>Total</b>	<b>52</b>	<b>87</b>	<b>\$85</b>	<b>\$135</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