



Arizona

Clean Watersheds Needs Survey 2008

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 Section 516 (b). Arizona documented needs totaling \$5.3 billion in 2008. This is a 30 percent decrease from the \$7.5 billion in needs documented in 2004.



Documented Needs in Arizona

Type of Need	Needs (2008 Dollars, Millions)		
	2004	2008	Percent Change
Wastewater treatment	\$2,831	\$2,294	-19%
Pipe repair and new pipes	\$2,584	\$2,124	-18%
Recycled water distribution	\$433	\$351	-19%
Combined sewer overflow correction	\$0	\$0	0%
Total Wastewater Treatment Needs	\$5,848	\$4,769	-18%
Conveyance infrastructure	n/a	\$384	n/a
Treatment systems	n/a	\$3	n/a
Green infrastructure	n/a	nr ^a	n/a
General stormwater management	\$1,470	\$73	-95%
Total Stormwater Management Needs^b	\$1,470	\$460	-69%
Agriculture (cropland) best management practices (BMPs)	\$8	<\$0.5	-100%
Agriculture (animals) BMPs	nr	\$1	n/a
Silviculture (forestry) BMPs	nr	nr	0%
Ground water protection: unknown source BMPs	\$6	<\$0.5	-97%
Marinas BMPs	nr	nr	0%
Resource extraction BMPs	\$8	\$3	-63%
Brownfields remediation	\$47	\$6	-87%
Storage tank remediation	\$38	\$8	-79%
Sanitary landfills BMPs	\$33	\$9	-73%
Hydromodification (Water resource restoration and protection)	\$4	nr	-100%
Other estuary management activities ^c	n/a	nr	n/a
Total Nonpoint Source Control Needs^{b,d}	\$144	\$27	-81%
Total Decentralized Wastewater Treatment Needs^{b,d}	\$4	nr	-100%
Total Needs	\$7,466	\$5,256	-30%

^aNot reported; ^bActual needs may be higher, since documenting these needs is difficult; ^cIn 2004, Other Estuary Management Needs were reported under Separate State Estimates (SSEs); ^dNot included in Official Needs in the Report to Congress.

¹ 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, 84% of Arizona 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 ^a	1972	%Total Population 1972	2008	%Total Population 2008	Projected ^a	
Less than Secondary	23	0	0	127,000	6	0	0	0	
Secondary	43	17	6	119,000	5	2,124,469	33	116,148	
Advanced	7	17	27	428,000	19	831,411	13	4,523,080	
No Discharge	0	86	146	0	0	2,457,705	38	5,049,934	
Total	73	120	179	674,000	30	5,413,585	84	9,689,162	

^aNumber of facilities and population served if all needs documented in the CWNS 2008 are met.

Small Communities

In Arizona, small community wastewater facilities serve 2% of the population and comprise 3% of total wastewater treatment and collection needs. EPA small community support information is available at:

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	75	5	\$124	\$14
1,000-3,499	60	14	\$202	\$60
3,500-10,000	23	8	\$194	\$71
Total	158	27	\$522	\$146

Visit 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