

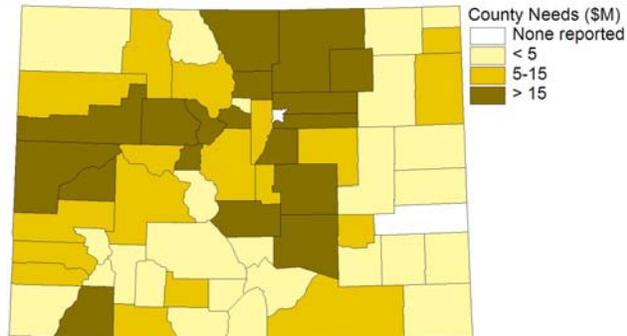


Colorado

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). Colorado documented needs totaling \$1.5 billion in 2008. This is a 49 percent decrease from the \$2.9 billion in needs documented in 2004.



Documented Needs in Colorado

| Type of Need | Needs (2008 Dollars, Millions) | | |
|---|--------------------------------|------------------|----------------|
| | 2004 | 2008 | Percent Change |
| Wastewater treatment | \$2,100 | \$1,064 | -49% |
| Pipe repair and new pipes | \$420 | \$282 | -33% |
| Recycled water distribution | \$17 | \$9 | -47% |
| Combined sewer overflow correction | \$0 | \$0 | 0% |
| Total Wastewater Treatment Needs | \$2,537 | \$1,355 | -47% |
| Conveyance infrastructure | n/a | \$77 | n/a |
| Treatment systems | n/a | nr ^a | n/a |
| Green infrastructure | n/a | nr | n/a |
| General stormwater management | \$267 | \$40 | -85% |
| Total Stormwater Management Needs^b | \$267 | \$117 | -56% |
| 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 | \$58 | <\$0.5 | -100% |
| Brownfields remediation | nr | nr | 0% |
| Storage tank remediation | nr | nr | 0% |
| Sanitary landfills BMPs | nr | nr | 0% |
| Hydromodification (Water resource restoration and protection) | \$1 | <\$0.5 | -65% |
| Other estuary management activities ^c | n/a | nr | n/a |
| Total Nonpoint Source Control Needs^{b,d} | \$59 | <\$0.5 | -99% |
| Total Decentralized Wastewater Treatment Needs^{b,d} | \$2 | nr | -100% |
| Total Needs | \$2,865 | \$1,472 | -49% |

^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, 36% of Colorado residents received centralized wastewater treatment services at the secondary, advanced, or no discharge treatment level, compared to 74% in 1972.

| Number of Centralized Treatment Facilities and Population Served | | | | | | | | | |
|--|----------------------|------------|------------------------|-------------------|-----------|------------------|-------------------|------|------------------------|
| Treatment Level | Number of Facilities | | | Population Served | | | | | |
| | 1972 | 2008 | Projected ^a | %Total Population | | | %Total Population | | |
| | | | | 1972 | 1972 | 2008 | 2008 | 2008 | Projected ^a |
| Less than Secondary | 26 | 0 | 0 | 120,000 | 5 | 0 | 0 | | 0 |
| Secondary | 70 | 121 | 119 | 1,360,000 | 54 | 631,283 | 13 | | 722,059 |
| Advanced | 36 | 38 | 54 | 502,000 | 20 | 668,971 | 14 | | 813,629 |
| No Discharge | 0 | 72 | 77 | 0 | 0 | 477,984 | 10 | | 494,377 |
| Total | 132 | 231 | 250 | 1,982,000 | 78 | 1,778,238 | 36 | | 2,030,065 |

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

Small Communities

In Colorado, small community wastewater facilities serve 16% of the population and comprise 38% 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 | 104 | 114 | \$123 | \$125 |
| 1,000-3,499 | 74 | 68 | \$218 | \$241 |
| 3,500-10,000 | 26 | 27 | \$143 | \$150 |
| Total | 204 | 209 | \$484 | \$517 |

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