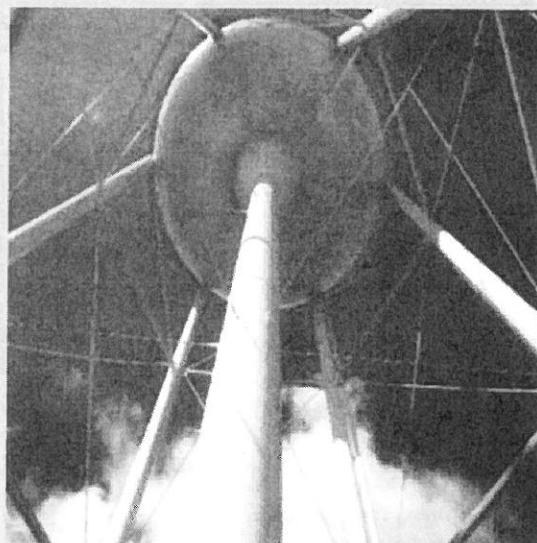
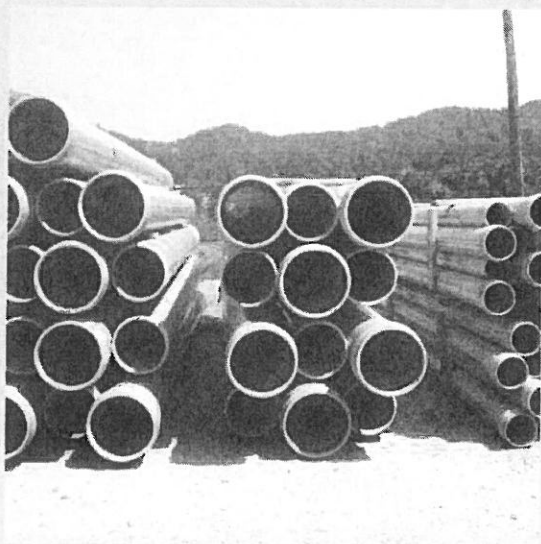


Drinking Water Infrastructure Needs Survey and Assessment

Sixth Report to Congress



Office of Water (4606M)
EPA 816-K-17-002
March 2018

Exhibit 2.1: State 20-year Need Reported by Project Category (in millions of January 2015 dollars)

State	Transmission and Distribution	Treatment	Storage	Source	Other	Total
Alabama	\$8,942.6	\$1,097.5	\$815.8	\$193.6	\$212.2	\$11,261.9
Arizona	\$5,837.1	\$1,655.2	\$1,042.2	\$393.6	\$202.4	\$9,130.5
Arkansas	\$5,461.2	\$900.0	\$643.4	\$216.5	\$155.7	\$7,376.8
California	\$31,685.9	\$9,199.4	\$6,967.2	\$2,565.4	\$615.2	\$51,033.2
Colorado	\$6,166.4	\$2,722.4	\$924.3	\$228.4	\$147.1	\$10,188.7
Connecticut	\$2,542.1	\$770.4	\$400.9	\$187.6	\$116.7	\$4,017.7
District of Columbia	\$1,573.8	\$62.9	\$104.5	\$0.0	\$0.7	\$1,741.9
Florida	\$13,734.0	\$4,702.5	\$1,551.6	\$1,446.2	\$452.2	\$21,886.4
Georgia	\$9,362.6	\$1,676.8	\$973.7	\$365.4	\$81.7	\$12,460.1
Illinois	\$13,494.8	\$3,537.2	\$1,751.0	\$1,709.1	\$418.2	\$20,910.4
Indiana	\$5,056.2	\$1,198.1	\$704.6	\$430.2	\$131.1	\$7,520.2
Iowa	\$5,858.5	\$945.5	\$607.1	\$376.2	\$65.1	\$7,852.4
Kansas	\$3,727.9	\$870.5	\$442.0	\$235.2	\$47.1	\$5,322.6
Kentucky	\$6,320.7	\$929.7	\$648.8	\$206.7	\$126.2	\$8,232.0
Louisiana	\$5,117.5	\$1,064.7	\$644.9	\$333.0	\$170.5	\$7,330.6
Maine	\$883.3	\$198.2	\$181.6	\$72.6	\$12.7	\$1,348.3
Maryland	\$6,959.4	\$1,243.2	\$810.1	\$271.2	\$46.1	\$9,330.1
Massachusetts	\$8,601.4	\$1,850.6	\$1,184.3	\$330.7	\$277.4	\$12,244.4
Michigan	\$9,084.7	\$2,130.7	\$1,042.0	\$553.8	\$235.0	\$13,046.2
Minnesota	\$4,416.6	\$1,398.7	\$912.3	\$581.9	\$198.4	\$7,507.9
Mississippi	\$3,090.2	\$775.5	\$561.2	\$331.9	\$64.4	\$4,823.2
Missouri	\$6,302.2	\$1,305.1	\$907.0	\$374.3	\$30.2	\$8,918.9
Nevada	\$2,844.4	\$1,083.6	\$454.3	\$894.3	\$40.2	\$5,316.8
New Jersey	\$5,381.1	\$1,774.3	\$888.5	\$413.1	\$126.1	\$8,583.1
New York	\$14,643.4	\$3,974.7	\$2,835.0	\$1,035.2	\$277.6	\$22,765.9
North Carolina	\$11,803.7	\$2,453.2	\$1,327.7	\$786.7	\$350.9	\$16,722.2
Ohio	\$8,970.4	\$2,330.8	\$1,258.5	\$571.8	\$273.9	\$13,405.4
Oklahoma	\$4,805.1	\$1,043.4	\$625.4	\$258.7	\$126.3	\$6,858.9
Oregon	\$3,742.4	\$1,084.7	\$1,022.2	\$298.1	\$103.0	\$6,250.4
Pennsylvania	\$11,134.2	\$2,787.9	\$1,881.9	\$617.2	\$350.3	\$16,771.6
Puerto Rico	\$2,201.9	\$921.1	\$397.6	\$124.1	\$59.5	\$3,704.2
South Carolina	\$4,555.9	\$855.9	\$418.4	\$181.6	\$115.6	\$6,127.4
Tennessee	\$6,774.7	\$1,179.5	\$672.4	\$130.8	\$6.4	\$8,763.7
Texas	\$30,485.1	\$8,309.3	\$4,090.2	\$1,545.4	\$721.3	\$45,151.3
Utah	\$2,354.1	\$948.4	\$701.5	\$267.0	\$83.4	\$4,354.4
Virginia	\$5,588.6	\$1,341.3	\$847.5	\$216.4	\$141.2	\$8,135.2
Washington	\$7,262.5	\$1,763.0	\$1,636.8	\$728.6	\$338.4	\$11,729.4
Wisconsin	\$5,324.9	\$1,601.5	\$1,037.9	\$528.8	\$76.1	\$8,569.2
Partial Participation States*	\$17,532.5	\$4,360.1	\$3,025.7	\$1,534.8	\$407.2	\$26,860.3
Subtotal	\$309,624.2	\$78,047.8	\$46,941.6	\$21,536.5	\$7,403.6	\$463,553.8
American Samoa	\$210.4	\$49.7	\$23.0	\$18.1	\$1.2	\$302.5
Guam	\$97.4	\$44.3	\$70.5	\$27.5	\$30.3	\$270.0
Northern Mariana Is.	\$112.1	\$41.7	\$26.7	\$14.2	\$3.6	\$198.4
Virgin Islands	\$154.5	\$12.1	\$57.0	\$8.4	\$3.1	\$235.1
Subtotal	\$574.4	\$147.8	\$177.2	\$68.1	\$38.2	\$1,005.9
Total	\$310,198.6	\$78,195.6	\$47,118.9	\$21,604.7	\$7,441.9	\$464,559.6

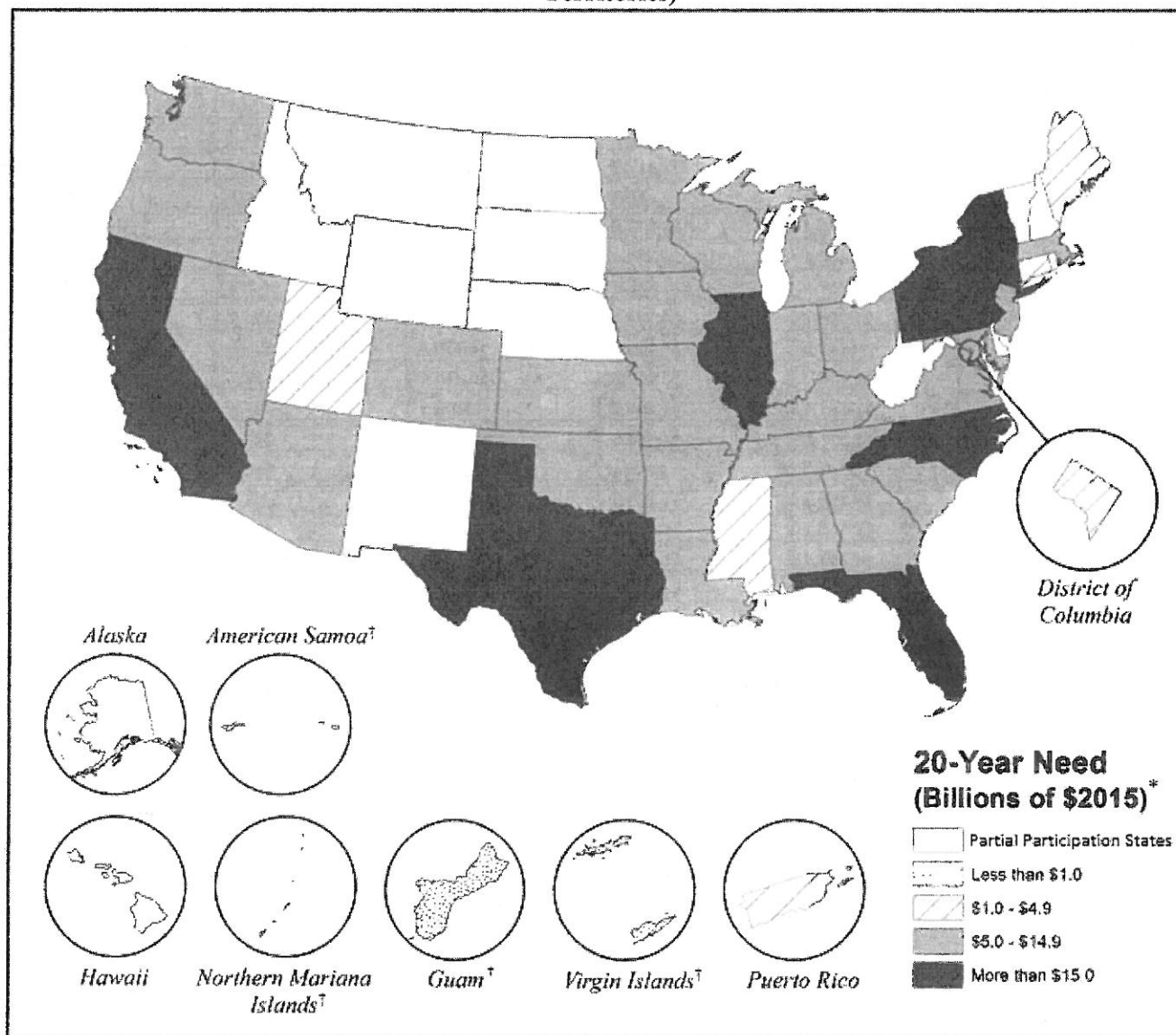
* The needs for partial participation states (discussed in Appendix A) are presented cumulatively and not by state. The list of 14 partial participation states is shown in Exhibit 2.4.

Exhibit 2.2: State 20-year Need Reported by System Size (in millions of January 2015 dollars)

State	Large	Medium	Small	NPNCWSs	Total
Alabama	\$2,813.8	\$8,062.1	\$381.2	\$4.8	\$11,261.9
Arizona	\$5,039.5	\$3,035.1	\$1,032.5	\$23.4	\$9,130.5
Arkansas	\$977.3	\$5,219.9	\$1,170.4	\$9.2	\$7,376.8
California	\$32,942.7	\$13,520.4	\$4,441.8	\$128.3	\$51,033.2
Colorado	\$3,874.7	\$4,850.0	\$1,462.3	\$1.6	\$10,188.7
Connecticut	\$1,807.2	\$1,412.2	\$763.5	\$34.8	\$4,017.7
District of Columbia	\$1,741.9	\$0.0	\$0.0	\$0.0	\$1,741.9
Florida	\$11,399.3	\$8,239.0	\$2,086.5	\$161.6	\$21,886.4
Georgia	\$4,400.6	\$5,969.9	\$2,072.2	\$17.4	\$12,460.1
Illinois	\$5,767.1	\$11,688.8	\$3,315.1	\$139.4	\$20,910.4
Indiana	\$1,794.1	\$4,227.5	\$1,275.4	\$223.2	\$7,520.2
Iowa	\$448.8	\$5,559.5	\$1,820.8	\$23.3	\$7,852.4
Kansas	\$1,285.7	\$2,387.6	\$1,645.0	\$4.4	\$5,322.6
Kentucky	\$1,717.1	\$6,040.2	\$473.3	\$1.4	\$8,232.0
Louisiana	\$1,251.8	\$4,508.9	\$1,551.0	\$18.9	\$7,330.6
Maine	\$158.9	\$566.6	\$579.2	\$43.6	\$1,348.3
Maryland	\$7,388.0	\$1,116.9	\$700.9	\$124.3	\$9,330.1
Massachusetts	\$2,900.2	\$8,758.8	\$543.8	\$41.6	\$12,244.4
Michigan	\$4,882.4	\$5,509.9	\$2,056.3	\$597.6	\$13,046.2
Minnesota	\$1,110.0	\$4,322.9	\$1,735.5	\$339.5	\$7,507.9
Mississippi	\$245.8	\$2,500.5	\$2,064.8	\$12.1	\$4,823.2
Missouri	\$2,334.4	\$4,141.9	\$2,393.0	\$49.5	\$8,918.9
Nevada	\$3,964.0	\$1,010.2	\$324.5	\$18.0	\$5,316.8
New Jersey	\$3,612.9	\$3,968.8	\$743.9	\$257.6	\$8,583.1
New York	\$11,720.7	\$6,506.6	\$4,378.9	\$159.7	\$22,765.9
North Carolina	\$4,772.4	\$9,302.6	\$2,179.4	\$467.9	\$16,722.2
Ohio	\$5,031.9	\$6,102.9	\$1,913.4	\$357.1	\$13,405.4
Oklahoma	\$1,296.3	\$3,669.5	\$1,864.9	\$28.2	\$6,858.9
Oregon	\$1,761.0	\$3,026.6	\$1,392.4	\$70.3	\$6,250.4
Pennsylvania	\$6,809.5	\$6,378.1	\$3,227.4	\$356.6	\$16,771.6
Puerto Rico	\$1,173.7	\$1,816.9	\$712.0	\$1.6	\$3,704.2
South Carolina	\$1,643.7	\$3,779.1	\$684.1	\$20.5	\$6,127.4
Tennessee	\$2,048.3	\$6,131.3	\$547.7	\$36.4	\$8,763.7
Texas	\$19,374.0	\$18,850.6	\$6,866.5	\$60.3	\$45,151.3
Utah	\$1,269.2	\$2,403.6	\$665.2	\$16.4	\$4,354.4
Virginia	\$3,114.0	\$3,360.0	\$1,545.1	\$116.0	\$8,135.2
Washington	\$2,969.3	\$5,593.8	\$3,019.4	\$146.9	\$11,729.4
Wisconsin	\$2,393.7	\$3,881.4	\$1,682.3	\$611.8	\$8,569.2
Partial Participation States*	\$4,856.3	\$12,682.9	\$8,898.3	\$422.9	\$26,860.3
Subtotal	\$174,092.1	\$210,103.5	\$74,210.0	\$5,148.2	\$463,553.8
American Samoa	\$0.0	\$250.3	\$52.2	\$0.0	\$302.5
Guam	\$270.0	\$0.0	\$0.0	\$0.0	\$270.0
Northern Mariana Is.	\$0.0	\$113.3	\$85.1	\$0.0	\$198.4
Virgin Islands	\$0.0	\$162.9	\$72.2	\$0.0	\$235.1
Subtotal	\$270.0	\$526.5	\$209.4	\$0.0	\$1,005.9
Total	\$174,362.0	\$210,630.0	\$74,419.4	\$5,148.2	\$464,559.6

* The needs for partial participation states (discussed in Appendix A) are presented cumulatively and not by state. The list of 14 partial participation states is shown in Exhibit 2.4.

Exhibit 2.3: Overview of 20-year Need by State (including District of Columbia, Puerto Rico and U.S. Territories)



Note: Map does not include needs for American Indian and Alaska Native Village water systems.

* The list of the 14 partial participation states can be found in Exhibit 2.4.

[†] The needs for American Samoa, Guam, the Commonwealth of the Northern Mariana Islands, and the U.S. Virgin Islands are less than \$1 billion each.

Exhibit 2.6: Historic State Need Reported for Each Assessment (20-year need in millions of January 2015 dollars)

State	1995	1999	2003	2007	2011	2015
Alabama	\$3,040	\$1,796	\$2,559	\$5,188	\$8,869	\$11,262
Alaska	\$1,413	\$973	\$1,033	\$1,028	*	*
Arizona	\$2,480	\$2,696	\$13,819	\$9,378	\$8,301	\$9,131
Arkansas	\$3,709	\$2,550	\$5,362	\$6,680	\$6,804	\$7,377
California	\$34,469	\$29,067	\$42,233	\$49,412	\$49,663	\$51,033
Colorado	\$3,571	\$4,206	\$8,067	\$8,099	\$7,948	\$10,189
Connecticut	\$2,486	\$1,673	\$990	\$1,764	\$3,992	\$4,018
Delaware	\$681	\$505	\$365	*	*	*
District of Columbia	\$241	\$688	\$226	\$1,106	\$1,793	\$1,742
Florida	\$7,943	\$6,190	\$22,791	\$16,227	\$18,376	\$21,886
Georgia	\$6,036	\$3,999	\$13,664	\$11,311	\$10,340	\$12,460
Hawaii	\$789	\$244	\$1,231	*	*	*
Idaho	\$1,081	\$857	\$1,102	*	*	*
Illinois	\$9,801	\$10,221	\$20,451	\$19,004	\$21,181	\$20,910
Indiana	\$3,068	\$2,815	\$6,109	\$7,523	\$7,304	\$7,520
Iowa	\$4,133	\$4,731	\$5,309	\$7,736	\$6,616	\$7,852
Kansas	\$3,621	\$2,735	\$2,926	\$5,100	\$4,680	\$5,323
Kentucky	\$4,075	\$2,941	\$4,256	\$6,300	\$6,949	\$8,232
Louisiana	\$3,579	\$2,115	\$6,223	\$8,732	\$5,938	\$7,331
Maine	\$1,586	\$829	\$1,260	*	\$1,316	\$1,348
Maryland	\$2,354	\$2,777	\$6,005	\$6,889	\$7,713	\$9,330
Massachusetts	\$10,892	\$9,767	\$12,963	\$8,593	\$8,592	\$12,244
Michigan	\$8,129	\$11,282	\$17,139	\$14,987	\$15,412	\$13,046
Minnesota	\$4,466	\$5,151	\$8,274	\$7,578	\$8,214	\$7,508
Mississippi	\$2,888	\$2,262	\$2,492	\$4,104	\$4,113	\$4,823
Missouri	\$3,442	\$3,623	\$9,028	\$8,967	\$9,462	\$8,919
Montana	\$1,214	\$1,449	\$1,196	*	*	*
Nebraska	\$1,746	\$1,383	\$2,052	\$2,248	*	*
Nevada	\$962	\$1,001	\$1,382	\$3,406	\$6,238	\$5,317
New Hampshire	\$1,314	\$830	\$902	*	*	*
New Jersey	\$6,620	\$6,081	\$10,479	\$10,075	\$8,830	\$8,583
New Mexico	\$1,910	\$1,732	\$1,397	*	*	*
New York	\$18,472	\$21,864	\$22,445	\$34,342	\$24,591	\$22,766
North Carolina	\$4,972	\$4,499	\$16,638	\$12,725	\$11,208	\$16,722
North Dakota	\$1,075	\$814	\$920	*	*	*
Ohio	\$8,989	\$8,242	\$14,674	\$15,944	\$13,602	\$13,405
Oklahoma	\$3,722	\$3,890	\$7,280	\$5,204	\$7,245	\$6,859
Oregon	\$3,936	\$4,503	\$6,467	\$3,525	\$6,207	\$6,250
Pennsylvania	\$8,713	\$8,739	\$16,653	\$14,400	\$15,873	\$16,772

State	1995	1999	2003	2007	2011	2015
Puerto Rico	\$4,130	\$3,277	\$3,453	\$3,211	\$3,583	\$3,704
Rhode Island	\$1,203	\$959	\$610	*	*	*
South Carolina	\$2,676	\$1,364	\$1,887	\$2,061	\$0	\$6,127
South Dakota	\$1,042	\$731	\$1,500	*	*	*
Tennessee	\$3,428	\$2,344	\$4,198	\$4,489	\$3,003	\$8,764
Texas	\$22,653	\$21,718	\$42,685	\$33,068	\$37,813	\$45,151
Utah	\$1,915	\$854	\$1,071	*	\$4,157	\$4,354
Vermont	\$841	\$510	\$598	*	*	*
Virginia	\$5,393	\$3,416	\$4,341	\$7,671	\$7,493	\$8,135
Washington	\$7,385	\$6,561	\$10,109	\$12,346	\$10,621	\$11,729
West Virginia	\$1,997	\$1,695	\$1,306	*	*	*
Wisconsin	\$3,421	\$5,149	\$8,998	\$7,828	\$7,967	\$8,569
Wyoming	\$716	\$735	\$452	*	*	*
Partial Participation States*				\$21,757	\$26,735	\$26,860
Subtotal	\$250,416	\$231,032	\$399,571	\$410,005	\$418,745	\$463,554
American Samoa	\$41	\$60	\$49	\$117	\$91	\$302
Guam	\$195	\$191	\$423	\$334	\$263	\$270
North Mariana Is.	\$64	\$124	\$300	\$366	\$198	\$198
Virgin Islands	\$409	\$269	\$273	\$321	\$195	\$235
Subtotal	\$710	\$644	\$1,045	\$1,138	\$747	\$1,006
Total	\$251,126	\$231,676	\$400,616	\$411,144	\$419,492	\$464,560

Note: This table represents needs of state systems only; needs of American Indian and Alaska Native Village water systems are reported in Chapter 3. In addition, this table does not include needs associated with proposed or recently promulgated regulations.

* For the 2007, 2011, and 2015 Assessments, the need for partial participation states (discussed in Appendix A) that opted out of the medium system portion of the survey is presented cumulatively and not by state.

Exhibit A.3: Estimated Number of Medium and Large Systems in the Inventory and the Final Sample by State

State or Territory	Estimated Inventory of Systems			Final Sample		
	Serving 3,301-100,000 People	Serving More than 100,000 People	Total # of Medium and Large Systems	Serving 3,301-100,000 People	Serving More than 100,000 People	Total # of Medium and Large Systems
Alabama	366	23	389	120	23	143
Alaska	0	1	1	0	1	1
Arizona	124	10	134	22	10	32
Arkansas	196	5	201	85	5	90
California	552	135	687	37	135	172
Colorado	151	15	166	35	15	50
Connecticut	50	10	60	23	10	33
Delaware	0	3	3	0	3	3
District of Columbia	0	1	1	0	1	1
Florida	304	56	360	33	56	89
Georgia	228	22	250	41	22	63
Hawaii	0	2	2	0	2	2
Idaho	0	1	1	0	1	1
Illinois	469	21	490	33	21	54
Indiana	214	9	223	65	9	74
Iowa	147	2	149	54	2	56
Kansas	109	6	115	75	6	81
Kentucky	235	6	241	83	6	89
Louisiana	252	7	259	74	7	81
Maine	35	1	36	22	1	23
Maryland	55	5	60	25	5	30
Massachusetts	249	9	258	53	9	62
Michigan	289	15	304	37	15	52
Minnesota	171	4	175	100	4	104
Mississippi	204	1	205	87	1	88
Missouri	224	7	231	87	7	94
Montana	0	1	1	0	1	1
Nebraska	0	2	2	0	2	2
Nevada	35	5	40	14	5	19
New Hampshire	0	1	1	0	1	1
New Jersey	232	16	248	39	16	55
New Mexico	0	1	1	0	1	1
New York	318	24	342	24	24	48
North Carolina	320	22	342	72	22	94
North Dakota	0	1	1	0	1	1
Ohio	314	17	331	50	17	67

State or Territory	Estimated Inventory of Systems			Final Sample		
	Serving 3,301-100,000 People	Serving More than 100,000 People	Total # of Medium and Large Systems	Serving 3,301-100,000 People	Serving More than 100,000 People	Total # of Medium and Large Systems
Oklahoma	172	5	177	63	5	68
Oregon	109	7	116	36	7	43
Pennsylvania	302	20	322	36	20	56
Puerto Rico	102	5	107	49	5	54
Rhode Island	0	2	2	0	2	2
South Carolina	159	9	168	21	9	30
South Dakota	0	2	2	0	2	2
Tennessee	253	12	265	116	12	128
Texas	1,021	65	1,086	74	65	139
Utah	106	11	117	21	11	32
Virginia	147	19	166	32	19	51
Washington	211	11	222	44	11	55
West Virginia	0	1	1	0	1	1
Wisconsin	176	7	183	32	7	39
Subtotal	8,601	643	9,244	1,914	643	2557
American Samoa	1	0	1	1	0	1
Guam	0	1	1	0	1	1
Northern Mariana Is.	1	0	1	1	0	1
Virgin Islands	2	0	2	2	0	2
Subtotal	4	1	5	4	1	5
Total	8,605	644	9,249	1,918	644	2,562

Conducting the Survey of Medium Systems

Medium systems, as defined for the 2007, 2011, and 2015 Assessments, serve 3,301 to 100,000 people. Exhibit A.3 shows the number of medium systems in the final sample by state and an estimate of the total number of medium systems in each state. (States with zeros in the medium system sample column opted not to collect data for these systems.)

For the 2015 Assessment, states that received the minimum 1 percent DWSRF allotment in the 2011 Assessment were given the option of not participating in data collection for medium systems. This option was provided to reduce the burden of the Assessment on states whose allocation is unlikely to be affected by the findings of the survey. Of the minimum allocation states, 14 chose not to participate in this portion of the survey. The medium system need for states that chose this option was estimated using data from participating states and the inventory of medium systems in the partial participation states. Use of this method allowed EPA to meet its precision target for each full participation state as well as at the national level. It does not meet precision targets for the partial participation states and therefore their needs are not reported individually by state.

Appendix E - Summary of Findings for State Systems Serving 10,000 and Fewer People

Community Water Systems Serving 10,000 and Fewer People

The Safe Drinking Water Act requires that states use at least 15 percent of their Drinking Water State Revolving Fund funding for financial assistance to community water systems (CWSs) serving populations of 10,000 and fewer. Of the \$459.4 billion in need for all CWS in states, those serving 10,000 and fewer people represent 29 percent or approximately \$132.3 billion of needs (this number includes CWSs in U.S. territories). Exhibit E.1 presents the 20-year needs for these smaller community systems by state and project category. It also compares the reported need of these systems to the state's total CWS need. All data in Exhibit E.1 exclude needs related to not-for-profit noncommunity, American Indian, and Alaska Native Village water systems.

Exhibit E.1: State Need by Project Category for CWSs Serving a Population of 10,000 and Fewer Compared to All CWSs (in millions of 2015 dollars)

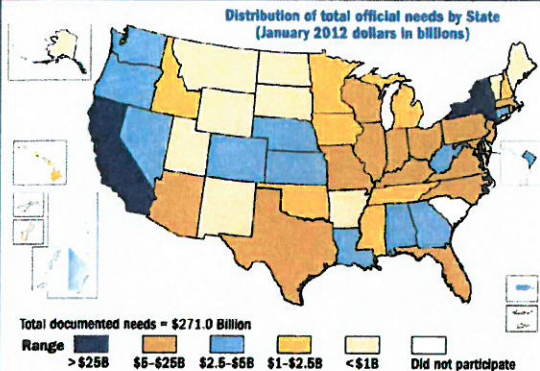
State	CWSs Serving 10,000 or Fewer People						Total 20-Year Need of All CWS*	% of CWS Need Related to Systems Serving 10,000 or Fewer People*
	Transmission and Distribution	Source	Treatment	Storage	Other	Total 20-Year Need of CWS Serving 10,000 or Fewer People*		
Alabama	\$1,891.6	\$145.3	\$196.6	\$45.1	\$39.0	\$2,317.6	\$11,257.0	20.6%
Arizona	\$2,062.2	\$317.4	\$333.9	\$121.5	\$52.9	\$2,887.8	\$7,367.6	39.2%
Arkansas	\$1,047.9	\$214.4	\$256.8	\$114.7	\$16.1	\$1,649.9	\$9,107.1	18.1%
California	\$3,613.0	\$1,393.5	\$1,170.8	\$539.8	\$69.3	\$6,786.3	\$50,904.9	13.3%
Colorado	\$2,060.8	\$674.8	\$363.0	\$144.8	\$38.7	\$3,282.1	\$10,187.0	32.2%
Connecticut	\$571.0	\$151.7	\$139.0	\$87.0	\$22.1	\$970.8	\$3,982.9	24.4%
District of Columbia	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$1,741.9	0.0%
Florida	\$1,773.6	\$435.0	\$367.3	\$290.6	\$62.8	\$2,929.3	\$21,724.8	13.5%
Georgia	\$2,103.2	\$414.7	\$462.8	\$244.9	\$42.6	\$3,268.1	\$12,442.7	26.3%
Illinois	\$2,514.1	\$425.9	\$377.2	\$232.0	\$32.1	\$3,581.2	\$7,829.1	45.7%
Indiana	\$4,641.4	\$853.7	\$811.5	\$339.0	\$86.2	\$6,731.8	\$20,771.0	32.4%
Iowa	\$1,676.3	\$278.0	\$305.4	\$155.3	\$30.1	\$2,445.1	\$7,297.0	33.5%
Kansas	\$2,063.1	\$363.3	\$323.0	\$164.4	\$28.4	\$2,942.2	\$5,318.2	55.3%
Kentucky	\$1,342.1	\$141.3	\$178.9	\$46.8	\$16.4	\$1,725.5	\$8,230.7	21.0%
Louisiana	\$2,374.6	\$466.3	\$408.7	\$212.8	\$70.8	\$3,533.2	\$7,311.7	48.3%
Maine	\$1,061.0	\$333.7	\$288.8	\$109.7	\$58.0	\$1,851.3	\$12,202.8	15.2%

State	CWSs Serving 10,000 or Fewer People						Total 20-Year Need of All CWS*	% of CWS Need Related to Systems Serving 10,000 or Fewer People*
	Transmission and Distribution	Source	Treatment	Storage	Other	Total 20-Year Need of CWS Serving 10,000 or Fewer People*		
Maryland	\$575.7	\$150.6	\$141.6	\$85.3	\$15.1	\$968.3	\$9,205.8	10.5%
Massachusetts	\$456.7	\$124.7	\$118.5	\$59.1	\$12.1	\$771.1	\$1,304.7	59.1%
Michigan	\$2,518.6	\$494.1	\$447.5	\$324.9	\$54.0	\$3,839.1	\$12,448.6	30.8%
Minnesota	\$1,687.4	\$412.3	\$372.0	\$225.4	\$56.9	\$2,753.9	\$7,168.4	38.4%
Mississippi	\$2,769.3	\$573.9	\$545.5	\$279.6	\$27.8	\$4,196.2	\$8,869.3	47.3%
Missouri	\$2,216.4	\$489.6	\$438.4	\$249.9	\$38.0	\$3,432.2	\$4,811.1	71.3%
Nevada	\$2,491.4	\$641.0	\$496.6	\$392.5	\$85.2	\$4,106.7	\$16,254.3	25.3%
New Jersey	\$848.9	\$142.8	\$210.7	\$84.4	\$20.6	\$1,307.4	\$8,325.5	15.7%
New York	\$372.7	\$134.4	\$114.4	\$49.3	\$7.6	\$678.3	\$5,298.7	12.8%
North Carolina	\$3,496.6	\$994.6	\$793.5	\$433.3	\$69.2	\$5,787.1	\$22,606.3	25.6%
Ohio	\$2,019.4	\$605.5	\$454.7	\$250.8	\$53.7	\$3,384.1	\$13,048.3	25.9%
Oklahoma	\$2,577.1	\$459.3	\$421.7	\$187.8	\$46.5	\$3,692.5	\$6,830.7	54.1%
Oregon	\$1,173.0	\$394.7	\$343.4	\$164.4	\$39.6	\$2,115.2	\$6,180.0	34.2%
Pennsylvania	\$3,232.4	\$1,011.0	\$805.2	\$380.2	\$139.0	\$5,567.8	\$16,415.0	33.9%
Puerto Rico	\$558.3	\$221.7	\$147.0	\$73.2	\$13.8	\$1,014.0	\$3,702.6	27.4%
South Carolina	\$1,192.3	\$225.6	\$171.9	\$93.0	\$30.7	\$1,713.6	\$6,106.9	28.1%
Tennessee	\$1,552.4	\$192.8	\$185.3	\$60.0	\$5.0	\$1,995.5	\$8,727.3	22.9%
Texas	\$8,450.2	\$1,852.4	\$1,905.0	\$793.0	\$268.5	\$13,269.0	\$45,091.0	29.4%
Utah	\$686.3	\$189.2	\$213.1	\$109.8	\$19.5	\$1,217.9	\$4,338.0	28.1%
Virginia	\$1,603.1	\$499.3	\$421.5	\$171.9	\$64.9	\$2,760.6	\$8,019.1	34.4%
Washington	\$2,549.6	\$677.9	\$653.6	\$418.4	\$73.5	\$4,373.0	\$11,582.4	37.8%
Wisconsin	\$1,447.0	\$509.7	\$444.5	\$213.2	\$18.5	\$2,632.9	\$7,957.4	33.1%
Partial Participation States†	\$8,431.1	\$2,097.0	\$1,834.2	\$1,013.8	\$208.0	\$13,584.1	\$26,437.4	51.4%
Subtotal	\$83,701.4	\$19,703.2	\$17,663.5	\$8,961.4	\$2,033.1	\$132,062.5	\$458,405.6	28.8%
American Samoa	\$29.6	\$10.8	\$7.5	\$3.8	\$0.5	\$52.2	\$302.5	17.3%
Guam	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$0.0	\$270.0	0.0%
North Mariana Is.	\$49.6	\$14.4	\$12.5	\$7.5	\$1.1	\$85.1	\$198.4	42.9%
Virgin Islands	\$41.2	\$11.8	\$9.6	\$8.4	\$1.2	\$72.2	\$235.1	30.7%
Subtotal	\$120.4	\$37.0	\$29.6	\$19.6	\$2.8	\$209.4	\$1,005.9	20.8%
Total	\$83,821.8	\$19,740.2	\$17,693.1	\$8,981.0	\$2,035.9	\$132,271.9	\$459,411.4	28.8%

* Excludes NPNCWS

† The needs for states that opted out of the medium portion of the survey are presented cumulatively and not by state. The list of partial participation states is shown in Exhibit 2.4.

Clean Watersheds Needs Survey 2012

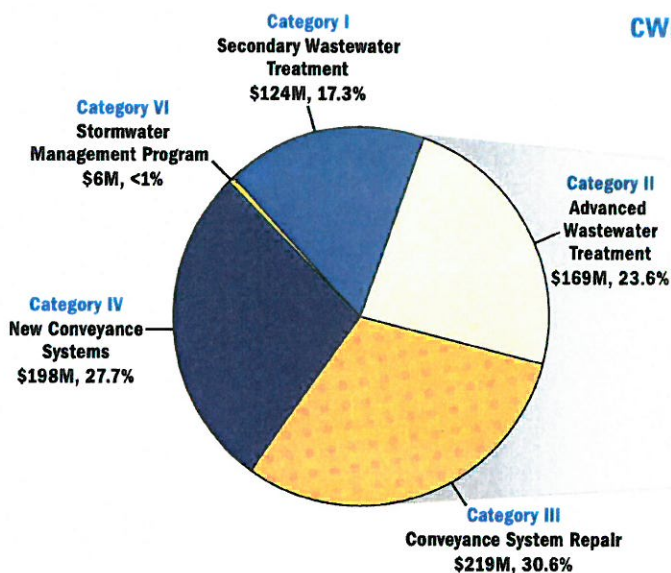


Arkansas

The Clean Watersheds Needs Survey (CWNS) is a comprehensive assessment of needs 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).

Visit www.epa.gov/CWNS for more information.

CWNS 2012 Arkansas documented needs by category (January 2012 dollars in millions).



Category	\$M	Percent
I Secondary Wastewater Treatment	124	17.3
II Advanced Wastewater Treatment	169	23.6
III Conveyance System Repair	219	30.6
IV New Conveyance Systems	198	27.7
V Combined Sewer Overflow Correction	nr	nr
VI Stormwater Management Program	6	< 1
X Recycled Water Distribution	nr	nr
Total	715	100.0

Improvements in treatment level of Arkansas's publicly-owned wastewater treatment plants.

Level of treatment	Population served in millions (number of facilities)				Population change from 2008-2012	Projected population change from 2012-2032
	2004	2008	2012	2032		
Less than Secondary ^a	- (0)	- (0)	- (0)	- (0)	-	-
Secondary	0.7 (118)	0.7 (104)	0.5 (96)	0.6 (96)	-22.4%	16.5%
Greater than Secondary	0.9 (221)	1.0 (247)	1.3 (251)	1.7 (272)	26.9%	39.5%
No Discharge	< 0.1 (9)	< 0.1 (11)	< 0.1 (12)	< 0.1 (13)	-6.4%	33.1%
Partial Treatment	- (1)	- (0)	- (0)	- (0)	-	-
Total	1.6 (349)	1.7 (362)	1.8 (359)	2.4 (381)	6.9%	32.8%

^a Includes facilities granted section 301(h) waivers from secondary treatment for discharges to marine waters. As of January 1, 2012 waivers for 36 facilities in the CWNS 2012 database had been granted or were pending.

Total Arkansas needs for the 2004-2012 CWNS by category (January 2012 dollars in millions).

