

Appendix B

*Summary of  
1996 Clean Water Needs Survey  
Cost Estimates*

Table B-1 summarizes the results of the 1996 Clean Water Needs Survey of documented needs by State. All values from the 1996 Clean Water Needs Survey have been adjusted to millions of January 2000 dollars. These design year needs were derived from those documented during the 1996 Clean Water Needs Survey. This table is provided for use in comparing the results of the 1996 Clean Water Needs Survey and the CWNS 2000.

Table B-1 is comparable to Table A-1 for 2000 estimates for Categories I through VI. Category VII needs are not directly comparable because the Category VII subcategories changed between the surveys.

**Table B-1.** 1996 Clean Water Needs Survey Total Documented Needs (January 2000 dollars in millions)

State	Category of Need										Total (I-V)
	Total	I	II	III-A	III-B	IV-A	IV-B	V	VI	VII	
Alabama	875	184	108	5	269	161	148	0	0	0	875
Alaska	540	439	0	0 <sup>a</sup>	37	40	0	18	0	6	534
Arizona	2,478	809	611	10	76	674	207	0	55	36	2,387
Arkansas	290	133	22	11	41	50	33	0	0	0	290
California	13,062	5,521	2,025	41	1,091	255	696	1,215	2,205	13	10,844
Colorado	507	146	246	2	59	27	10	13	0 <sup>a</sup>	4	503
Connecticut	1,956	280	769	46	13	192	171	485	0	0	1,956
Delaware	238	24	11	2	1	41	35	124	0	0	238
District of Columbia	672	77	22	0	0	0	0	493	0	80	592
Florida	5,952	1,391	1,779	12	178	975	821	0	465	331	5,156
Georgia	1,706	134	850	32	16	31	235	408	0	0	1,706
Hawaii	924	261	0	0	508	77	78	0	0	0	924
Idaho	347	170	17	1	13	60	86	0	0	0	347
Illinois	12,217	539	263	61	404	193	294	10,415	0	48	12,169
Indiana	5,480	144	86	45	28	126	98	4,953	0	0	5,480
Iowa	944	152	27	28	35	85	59	527	31	0	913
Kansas	1,527	257	158	140	36	59	288	589	0	0	1,527
Kentucky	2,559	546	29	120	99	448	378	930	9	0	2,550
Louisiana	792	182	172	33	182	141	82	0	0	0	792
Maine	843	122	5	26	13	84	50	542	0	1	842
Maryland	1,521	352	243	9	156	228	246	127	42	118	1,361
Massachusetts	4,123	905	57	50	40	444	379	2,246	1	1	4,121
Michigan	5,480	701	14	15	87	168	362	4,133	0	0	5,480
Minnesota	897	503	31	38	78	105	84	29	0	29	868
Mississippi	875	259	90	92	75	210	148	0	0	1	874
Missouri	3,111	559	33	283	263	150	285	985	21	532	2,558
Montana	132	53	5	6	15	29	11	1	4	8	120
Nebraska	622	124	45	7	7	16	106	272	39	6	577
Nevada	39	10	0	2	4	6	17	0	0	0	39

continued

Table B-1. (continued)

State	Category of Need										Total (I-V)
	Total	I	II	III-A	III-B	IV-A	IV-B	V	VI	VII	
New Hampshire	825	81	31	9	18	46	179	461	0	0	825
New Jersey	7,697	2,202	285	275	275	827	389	3,348	0	96	7,601
New Mexico	178	52	32	4	30	40	12	0	0	8	170
New York	17,607	3,748	6,610	82	1,295	363	389	4,429	33	658	16,916
North Carolina	4,362	308	1,258	151	90	1,338	1,019	1	178	19	4,165
North Dakota	103	71	0	0	22	0	1	0	0 <sup>a</sup>	9	94
Ohio	8,048	921	275	830	211	398	592	4,660	143	18	7,887
Oklahoma	352	79	84	105	19	14	51	0	0	0	352
Oregon	2,129	671	323	70	121	71	63	757	50	3	2,076
Pennsylvania	6,720	1,028	179	16	47	778	205	4,415	17	35	6,668
Rhode Island	1,339	139	65	2	26	364	163	573	0 <sup>a</sup>	7	1,332
South Carolina	1,708	646	287	16	31	294	418	0	9	7	1,692
South Dakota	142	39	1	0 <sup>a</sup>	29	14	19	16	24	0	118
Tennessee	962	159	72	63	153	151	238	110	0	16	946
Texas	5,248	1,516	813	576	969	393	981	0	0	0	5,248
Utah	342	151	0	0	30	90	66	0	5	0	337
Vermont	352	54	59	4	1	39	16	179	0	0	352
Virginia	4,363	821	1,184	172	177	571	640	617	181	0	4,182
Washington	1,294	315	6	90	21	61	151	600	35	15	1,244
West Virginia	1,830	268	25	31	30	332	287	857	0	0	1,830
Wisconsin	2,246	464	113	36	285	288	195	59	39	767	1,440
Wyoming	42	18	10	1	3	5	5	0	0	0	42
American Samoa	45	5	0	0	0	36	4	0	0	0	45
Guam	53	40	0	0 <sup>a</sup>	0	8	5	0	0	0	53
N. Mariana Islands	54	28	0	0	0 <sup>a</sup>	6	20	0	0	0	54
Puerto Rico	1,448	572	4	44	20	371	437	0	0	0	1,448
Virgin Islands	101	78	0	1	22	0	0	0	0	0	101
<b>Total</b>	<b>140,299</b>	<b>29,451</b>	<b>19,434</b>	<b>3,695</b>	<b>7,749</b>	<b>11,973</b>	<b>11,952</b>	<b>49,587</b>	<b>3,586</b>	<b>2,872</b>	<b>133,841</b>

**Categories**

I Secondary wastewater treatment	III-B Sewer replacement/rehabilitation	V Combined sewer overflow correction
II Advanced wastewater treatment	IV-A New collector sewers and appurtenances	VI Storm water management programs
III-A Infiltration/inflow correction	IV-B New interceptor sewers and appurtenances	VII NPS pollution control

<sup>a</sup> Estimate is less than \$0.5 million.

Table B-2 summarizes the States' 1996 assessments of needs that either were justified with documents outside the established documentation criteria of the 1996 Clean Water Needs Survey or had no written documentation. The SSEs were optional and were in addition to the documented needs (see Table B-1). These estimates are provided for use in comparing the results of the 1996 Clean Water Needs Survey and the CWNS 2000. All values from the 1996 Clean Water Needs Survey have been adjusted to January 2000 dollars in millions.

Table B-2 is comparable to Table A-11 for 2000 estimates for Categories I through VI. Needs for Category VII are not directly comparable because the Category VII subcategories changed between the surveys.

**Table B-2.** 1996 Clean Water Needs Survey Separate State Estimates (January 2000 dollars in millions)

State	Category of Need										Total (I-V)
	Total	I	II	III-A	III-B	IV-A	IV-B	V	VI	VII	
Alabama	18	5	10	1	0	0	2	0	0	0	18
Alaska	27	6	0	0	0	10	5	0	0	6	21
Arizona	169	25	16	0	0 <sup>a</sup>	22	78	0	11	17	141
Arkansas	793	211	77	125	109	142	127	2	0	0	793
California	2,917	1,732	4	29	434	138	457	0	123	0	2,794
Colorado	57	1	55	0	0	0	1	0	0	0	57
Connecticut	840	108	533	4	0	7	5	183	0	0	840
Delaware	144	50	0	4	0	59	29	0	2	0	142
District of Columbia	0	0	0	0	0	0	0	0	0	0	0
Florida	2	0	0	0	0 <sup>a</sup>	0	2	0	0	0	2
Georgia	610	100	165	37	22	99	138	49	0	0	610
Hawaii	1,491	404	0	191	519	197	180	0	0	0	1,491
Idaho	181	140	3	4	8	13	13	0	0	0	181
Illinois	1,068	95	38	9	20	11	54	1	0	840	228
Indiana	976	99	52	18	8	36	34	729	0	0	976
Iowa	29	14	0	0	0	0	15	0	0	0	29
Kansas	70	1	37	0	0	0	32	0	0	0	70
Kentucky	377	76	28	34	59	132	45	3	0	0	377
Louisiana	597	139	45	19	25	163	175	0	31	0	566
Maine	842	7	0	4	0	25	11	795	0	0	842
Maryland	5	1	0	0	0	0	0	0	4	0	1
Massachusetts	2,609	190	67	108	9	452	256	15	1,443	69	1,097
Michigan	29	23	0	0 <sup>a</sup>	1	4	1	0	0	0	29
Minnesota	179	86	14	10	11	25	33	0	0	0	179
Mississippi	255	57	52	42	38	51	13	0	2	0 <sup>a</sup>	253
Missouri	1,250	103	0	0	0 <sup>a</sup>	80	61	576	0	430	820
Montana	38	17	0	0	4	4	4	0	8	1	29
Nebraska	209	5	1	1	0 <sup>a</sup>	9	0 <sup>a</sup>	178	15	0	194
Nevada	557	393	79	0 <sup>a</sup>	1	18	66	0	0 <sup>a</sup>	0	557

continued

Table B-2. (continued)

State	Category of Need										Total (I-V)
	Total	I	II	III-A	III-B	IV-A	IV-B	V	VI	VII	
New Hampshire	474	27	18	17	10	189	102	111	0	0	474
New Jersey	1,186	362	0	7	294	43	125	317	5	33	1,148
New Mexico	0	0	0	0	0	0	0	0	0	0	0
New York	3,041	1,217	566	80	147	360	329	304	38	0	3,003
North Carolina	4,206	126	480	59	33	340	213	0	2,954	1	1,251
North Dakota	0	0	0	0	0	0	0	0	0	0	0
Ohio	1,117	193	113	75	39	305	146	200	46	0 <sup>a</sup>	1,071
Oklahoma	179	27	109	22	4	3	14	0	0	0	179
Oregon	25	0	0	11	13	1	0	0	0	0	25
Pennsylvania	3,693	468	160	7	14	560	296	2,136	0	52	3,641
Rhode Island	0	0	0	0	0	0	0	0	0	0	0
South Carolina	77	40	6	3	0	9	19	0	0 <sup>a</sup>	0	77
South Dakota	10	5	0	0	2	1	0 <sup>a</sup>	0	2	0	8
Tennessee	1,078	259	38	144	138	242	240	0	17	0	1,061
Texas	2,013	663	277	50	131	193	699	0	0	0	2,013
Utah	835	151	0	0	22	555	102	0	5	0	830
Vermont	81	37	8	0	0	17	9	9	1	0	80
Virginia	455	151	33	26	13	103	72	1	56	0	399
Washington	822	109	29	84	61	58	343	137	1	0	821
West Virginia	1,138	282	2	24	41	321	432	36	0	0	1,138
Wisconsin	794	82	26	0	0	43	8	0	635	0	159
Wyoming	78	42	13	8	11	2	2	0	0 <sup>a</sup>	0	78
American Samoa	0	0	0	0	0	0	0	0	0	0	0
Guam	0	0	0	0	0	0	0	0	0	0	0
N. Mariana Islands	0	0	0	0	0	0	0	0	0	0	0
Puerto Rico	253	88	1	6	1	75	82	0	0	0	253
Virgin Islands	0	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>37,894</b>	<b>8,417</b>	<b>3,155</b>	<b>1,263</b>	<b>2,242</b>	<b>5,117</b>	<b>5,070</b>	<b>5,782</b>	<b>5,399</b>	<b>1,449</b>	<b>31,046</b>

**Categories**

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<sup>a</sup> Estimate is less than \$0.5 million.

