SEWAGE AND WATER WORKS CONSTRUCTION 1965

U.S. DEPARTMENT OF THE INTERIOR

Federal Water Pollution Control Administration

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U.S. DEPARTMENT OF THE INTERIOR
Federal Water Pollution Control Administration
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Related Publications

Sewage Treatment Works Contract Awards, 1952–1957
Public Health Service Publication No. 633

Sewage and Water Works Construction, 1957
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Sewage and Water Works Construction, 1958
Public Health Service Publication No. 673

Sewage and Water Works Construction, 1959 edition
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PREFACE

This annual report of "Sewage and Water Works Construction 1965" is published as one part of the basic data program required and authorized in Public Law 660 (as amended by Public Law 87–88), the Federal Water Pollution Control Act.

The data published herein provide a continuing and ready source of information and reference as to how successfully the national needs in municipal water supply and pollution control are being met through construction of the necessary physical facilities.

This publication also establishes important year-to-year cost trends in the national economic picture in the three types of public works construction involved. Such data are valuable not only to Federal, State and local government authorities and officials responsible for providing water supplies and for controlling pollution, but are also valuable to the building and contracting trades and to the engineering profession.

This report was prepared by Kenneth H. Jenkins, Chief Statistician and Florence G. Simmons, Statistical Assistant, under the direction of Richard S. Green, Sanitary Engineer Director and Chief of the Division of Pollution Surveillance, Federal Water Pollution Control Administration.

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SECTION I—GENERAL PRESENTATION OF SEWAGE AND WATERWORKS CONTRACT AWARDS

A. CONTRACT AWARDS—1965

Contracts awarded in the sewage and waterworks field in calendar year 1965 amounted to almost $1.6 billion, broken down as shown below in millions.

Sewage treatment	$522.4
Collecting sewers	356.4
Waterworks	720.5
Total	1,599.3

Contracts for waterworks were 11 percent above 1964 and the highest on record. Sewage treatment contracts were 10 percent over the previous year and those contracts for collecting sewers were down 10 percent.

The total value of all three categories is about 10 percent above 1964 and is the highest figure of record. On a constant dollar basis (1957–59), the decline from 1964 was 0.7 percent reflecting the increases in construction costs.

Each of the above totals is based upon an identified and an apportioned figure. The identified contracts are those for which the descriptive information available clearly states a single type of construction. Those contracts that cover more than a single type are called "combination" contracts. These combination contracts are then apportioned to the sewage treatment works, collecting sewers, and waterworks categories on the basis of known national experience in each of these.

B. METHOD OF DATA COLLECTION

The contract award data presented in this publication for the year 1964 result from the careful examination of over 100,000 contract notifications in the sewage and waterworks construction and related fields. All notifications of similar contracts awarded in the same geographical area are checked to reduce the chance of duplication. Certain contracts, primarily those covering sewage treatment plants, are checked and verified by the various State water pollution control agencies.

The data on which this report is based were obtained from:

1. F. W. Dodge Corporation, daily reports on construction in the sewage and waterworks fields in the 38 Eastern States.
2. Various construction news periodicals, such as, *Construction News Bulletin, Pacific Architect and Builder, Rocky Mountain Construction, Southwest Builder and Contractor, and Portland and Seattle Daily Journals of Commerce.*

Practically all of the information for the 38 Eastern States is obtained from daily reports of the F. W. Dodge Corp.

The data presented are composed of contracts awarded by municipalities, special districts, other governmental bodies, and various institutions, resorts, recreation centers, etc. A few contracts are included for industries where the cost of such facilities can be readily identified, and where it is possible to ascertain that the facilities are primarily for the disposal of sanitary wastes or for domestic waterworks facilities.

TABLE 1.—*Annual contract awards—sewage treatment works, collecting sewers, and waterworks—1952–65*

[Millions of dollars]

Year	Sewage treatment		Collecting sewers		Waterworks		Total	
	Actual	1957–59	Actual	1957–59	Actual	1957–59	Actual	1957–59
1952	137	178	225	296	227	303	589	777
1953	187	231	286	353	283	358	756	942
1954	229	276	244	294	293	353	766	923
1955	201	232	301	345	394	453	896	1,030
1956	354	385	305	331	441	485	1,100	1,201
1957	351	362	247	254	457	481	1,055	1,097
1958	389	385	310	310	419	419	1,118	1,114
1959	349	336	336	320	504	480	1,189	1,136
1960	359	339	359	339	645	597	1,363	1,275
1961	449	419	380	352	573	516	1,402	1,287
1962	545	505	320	291	507	441	1,373	1,237
1963	679	612	405	358	590	500	1,674	1,470
1964	514	459	396	344	654	532	1,564	1,335
1965	522	458	356	304	721	563	1,599	1,325

NOTES:

1. Constant dollars on a 1957–59 base were computed as follows: Sewers from PHS Sewer Construction Cost Index (PHS Publication 1132); sewage treatment a composite 45 percent sewers (Publication 1132) and 55 percent PHS Sewage Treatment Plant Construction Cost Index (PHS Publication 1069); water from *Engineering News-Record* construction cost index changed to a 1957–59 base.

2. The Public Health Service sewage treatmentdata prior to 1957 are composed of identified contracts only. Beginning with 1957, the figures include an amount apportioned to sewage treatment works from the "combination" contracts.

3. Data on collecting sewers prior to 1957 are obtained by subtracting Public Health Service sewage treatment data from the U.S. Department of Commerce sewer data which includes sanitary and storm sewerage systems as well as sewage treatment works. Beginning with 1957, the data for collecting sewers were assembled by the Public Health Service and do not include storm sewers.

4. The waterworks data prior to 1957 are based on records maintained by the U.S. Department of Commerce. Beginning with 1957, data were obtained by the Public Health Service.

TABLE 2.—*Monthly contract awards—sewage treatment works, collecting sewers, and waterworks—1965*

[Millions of dollars]

Month	Sewage treatment		Collecting sewers		Waterworks		Total	
	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative	Actual	Cumulative
January	54.6	54.6	22.4	22.4	35.0	35.0	112.0	112.0
February	35.5	90.1	26.2	48.6	38.4	73.4	100.1	212.1
March	51.6	141.7	31.1	79.7	58.1	131.5	140.8	352.9
April	40.7	182.4	30.2	109.9	67.4	198.9	138.3	491.2
May	38.8	221.2	34.9	144.8	58.5	257.4	132.2	623.4
June	58.0	279.2	49.4	194.2	60.0	317.4	167.4	790.8
July	47.4	326.6	35.0	229.2	62.9	380.3	145.3	936.1
August	31.7	358.3	30.8	260.0	106.4	486.7	168.9	1,105.0
September	46.3	404.6	25.0	285.0	75.2	561.9	146.5	1,251.5
October	43.2	447.8	25.9	310.9	76.0	637.9	145.1	1,396.6
November	22.9	470.7	23.9	334.8	36.8	674.7	83.6	1,480.2
December	51.5	522.2	21.8	356.6	45.8	720.5	119.1	1,599.3

NOTE: Differences in totals may be due to rounding.

TABLE 3.—*1965 contract awards by States*

State	Total		Sewage treatment		Sewers		Water		Combinations	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	101	14,327,270	17	4,354,863	31	2,144,636	50	6,797,764	3	1,030,007
Alaska	21	2,150,170	4	586,766	5	395,685	8	958,054	4	209,665
Arizona	98	17,319,749	14	4,605,035	24	2,611,890	58	9,854,122	2	248,702
Arkansas	112	13,431,080	17	4,763,479	16	1,123,817	63	5,271,156	16	2,272,628
California	987	197,977,957	110	28,236,554	388	33,608,069	455	132,000,980	34	4,132,354
Colorado	133	25,130,567	20	4,064,035	18	1,794,778	76	14,837,432	19	4,434,322
Connecticut	149	28,872,261	23	10,288,517	97	14,174,255	22	3,417,274	7	992,215
Delaware	25	2,016,080	6	1,056,614	9	386,147	8	544,743	2	28,576
District of Columbia	58	3,830,677	6	1,517,329	19	1,107,198	27	1,032,846	6	173,304
Florida	373	63,261,881	73	14,582,963	93	16,897,340	174	28,226,724	33	3,554,854
Georgia	201	23,395,099	30	7,157,549	31	3,435,718	116	10,437,724	24	2,364,108
Hawaii	9	2,853,997	7	2,830,654	2	23,343				
Idaho	34	3,757,082	12	2,051,338	5	176,749	11	1,124,701	6	404,294
Illinois	506	73,947,730	97	35,615,485	114	9,447,892	252	23,145,983	43	5,738,370
Indiana	283	46,374,258	50	17,562,397	91	7,757,860	132	20,550,015	10	503,986
Iowa	224	19,553,692	46	8,760,538	83	5,011,500	86	5,098,695	9	682,959
Kansas	246	16,056,189	28	3,436,287	110	5,747,992	103	6,436,509	5	435,401
Kentucky	210	29,674,539	29	4,026,246	79	6,392,699	96	18,645,520	6	610,074
Louisiana	201	14,498,227	18	1,531,526	38	4,198,289	126	7,763,472	19	1,004,940
Maine	45	3,707,163	15	2,255,747	16	437,286	13	1,000,620	1	13,510
Maryland	714	45,309,996	45	10,714,793	111	7,318,633	154	14,544,328	404	12,732,242
Massachusetts	338	28,785,965	41	11,207,626	92	6,587,251	184	9,411,792	21	1,579,296
Michigan	492	76,086,660	41	12,112,524	186	22,185,256	215	37,334,976	50	4,453,904
Minnesota	359	35,191,890	55	13,191,170	67	7,934,969	150	6,969,234	87	7,096,517
Mississippi	228	20,493,192	27	6,538,342	15	458,815	173	10,241,075	13	3,254,960
Missouri	325	40,844,927	42	20,671,415	106	5,376,077	163	11,848,336	14	2,949,099
Montana	42	2,300,321	7	830,422	7	317,125	23	745,647	5	407,127
Nebraska	230	19,896,370	32	4,767,356	86	2,011,705	85	11,849,068	27	1,268,241
Nevada	25	5,465,601	13	2,584,018	4	86,265	7	2,571,712	1	223,606
New Hampshire	41	4,349,817	12	2,545,215	5	176,372	20	770,640	4	857,590
New Jersey	352	58,963,196	54	20,640,676	112	18,362,801	171	14,676,573	15	5,283,146
New Mexico	81	14,459,309	13	4,414,450	3	540,005	50	6,595,576	15	2,909,278
New York	878	96,258,105	61	19,573,355	229	21,457,118	557	50,768,745	31	4,458,887
North Carolina	252	46,107,564	69	19,722,073	52	4,173,302	101	18,163,957	30	4,048,232
North Dakota	68	3,422,776	16	365,036	8	225,119	31	2,235,609	13	597,012
Ohio	650	86,629,857	82	36,352,079	209	20,097,516	318	25,735,254	41	4,445,008
Oklahoma	269	23,177,643	27	2,971,275	37	1,542,505	193	17,810,154	12	853,709
Oregon	145	15,304,155	29	5,344,061	59	4,687,035	54	3,764,633	3	1,508,426
Pennsylvania	633	86,338,815	99	28,025,830	214	31,185,356	288	20,037,150	32	7,090,479
Puerto Rico	5	1,797,483	5	1,797,483						
Rhode Island	44	4,906,693	3	73,896	13	1,489,616	27	3,339,956	1	3,225
South Carolina	100	14,804,534	39	5,620,631	17	2,797,542	35	5,009,792	9	1,376,569
South Dakota	75	6,506,597	12	4,176,128	15	204,087	40	2,054,282	8	72,100
Tennessee	210	40,818,218	31	12,582,400	65	8,635,254	109	19,284,384	5	316,180
Texas	837	93,080,056	71	19,204,274	124	12,383,025	520	51,382,772	122	10,109,985
Utah	26	3,011,023	11	1,981,683	4	321,010	10	588,268	1	120,062
Vermont	26	3,220,860	13	2,567,241	2	19,986	11	633,633		
Virginia	229	28,975,237	46	12,373,278	91	5,301,978	66	10,413,268	26	886,713
Washington	249	41,333,804	49	18,967,170	87	8,314,191	106	11,832,281	7	2,220,162
West Virginia	37	6,168,432	10	2,511,957	10	533,663	16	3,107,812	1	15,000
Wisconsin	578	39,723,557	51	10,991,828	182	10,954,410	225	12,129,964	120	5,647,355
Wyoming	23	3,344,675	1	729,200	1	37,255	21	2,578,220		
Total	12,577	1,599,212,996	1,729	475,432,807	3,482	322,588,385	5,999	685,573,425	1,367	115,618,379

TABLE 4.—*1965 contract awards (distributed) by States*

State	Total	Sewage treatment	Sewers	Water
Alabama	$14,327,270	$4,772,845	$2,445,754	$7,108,671
Alaska	2,150,170	671,849	456,980	1,021,341
Arizona	17,319,749	4,705,960	2,684,597	9,929,192
Arkansas	13,431,080	5,685,724	1,788,209	5,957,147
California	197,977,957	29,913,486	34,816,144	133,248,327
Colorado	25,130,567	5,863,507	3,091,132	16,175,928
Connecticut	28,872,261	10,691,163	14,464,325	3,716,773
Delaware	2,016,080	1,068,210	394,501	553,369
District of Columbia	3,830,677	1,587,657	1,157,863	1,085,157
Florida	63,261,881	16,025,542	17,936,585	29,299,754
Georgia	23,395,099	8,116,917	4,126,854	11,151,328
Hawaii	2,853,997	2,830,654	23,343	----------
Idaho	3,757,082	2,215,403	294,942	1,246,737
Illinois	73,947,730	37,944,146	11,125,478	24,878,106
Indiana	46,374,258	17,766,917	7,905,198	20,702,143
Iowa	19,553,692	9,037,686	5,211,160	5,304,846
Kansas	16,056,189	3,612,975	5,875,279	6,567,935
Kentucky	29,674,539	4,273,817	6,571,051	18,829,671
Louisiana	14,498,227	1,939,336	4,492,079	8,066,812
Maine	3,707,163	2,261,229	441,236	1,004,698
Maryland	45,309,996	15,881,605	11,040,846	18,387,545
Massachusetts	28,785,965	11,848,513	7,048,951	9,888,501
Michigan	76,086,660	13,919,942	23,487,334	38,679,384
Minnesota	35,191,890	16,070,975	10,009,603	9,111,312
Mississippi	20,493,192	7,859,222	1,410,388	11,223,582
Missouri	40,844,927	21,868,175	6,238,233	12,738,519
Montana	2,300,321	995,636	436,147	868,538
Nebraska	19,896,370	5,282,015	2,382,469	12,231,886
Nevada	5,465,601	2,674,759	151,635	2,639,207
New Hampshire	4,349,817	2,893,230	427,085	1,029,502
New Jersey	58,963,196	22,784,605	19,907,305	16,271,286
New Mexico	14,459,309	5,595,051	1,390,519	7,473,739
New York	96,258,105	21,382,795	22,760,653	52,114,657
North Carolina	46,107,564	21,364,867	5,356,784	19,385,913
North Dakota	3,422,776	607,307	399,653	2,415,816
Ohio	86,629,857	38,155,887	21,396,994	27,076,976
Oklahoma	23,177,643	3,317,715	1,792,083	18,067,845
Oregon	15,304,155	5,956,188	5,128,016	4,219,951
Pennsylvania	86,338,815	30,903,185	33,258,225	22,177,405
Puerto Rico	1,797,483	1,797,483	----------	----------
Rhode Island	4,906,693	75,205	1,490,559	3,340,929
South Carolina	14,804,534	6,179,250	3,199,976	5,425,308
South Dakota	6,506,597	4,205,387	225,165	2,076,045
Tennessee	40,818,218	12,710,708	8,727,688	19,379,822
Texas	93,080,056	23,306,960	15,338,633	54,434,463
Utah	3,011,023	2,030,405	356,110	624,508
Vermont	3,220,860	2,567,241	19,986	633,633
Virginia	28,975,237	12,733,111	5,561,204	10,680,922
Washington	41,333,804	19,868,124	8,963,245	12,502,435
West Virginia	6,168,432	2,518,044	538,048	3,112,340
Wisconsin	39,723,557	13,283,555	12,605,388	13,834,614
Wyoming	3,344,675	729,200	37,255	2,578,220
Total	1,599,212,996	522,351,368	356,388,890	720,472,738

SECTION II—CONTRACT AWARDS—BASIC DATA—1965

This section presents the basic data as compiled; combination projects have not be apportioned. Tables of contract awards by population size groups, contract size groups, drainage basins and States are included.

The population size group tables do not refer to the population served. They represent the size of the community in which each contract was awarded. The population size groups of some contracts were unknown; these contracts consist primarily of schools, hospitals, military bases, and parks. The cumulative percentages shown in these tables are based on the known population groups.

A. SEWAGE TREATMENT WORKS CONSTRUCTION

The sewage treatment works are presented in two categories, namely, NEW PLANT and OTHER. The "NEW PLANT" classification includes stabilization ponds and appurtenances. The "OTHER" category includes replacements and additions to existing treatment plants, interceptors, and outfalls. This category also includes contracts whose costs cannot be separated between "New Plant" and "Other." Therefore, the "Other" classification may include a few new plants.

In 1965 the level of contracts awarded for construction of sewage treatment works in the United States reached a level of $522.4 million. Of this amount $475.4 million covered contracts identified as to specific location and type of construction. The following tables, 5 through 8, inclusive, relate only to contracts individually identified for sewage treatment facilities.

Lists of the locations of contract awards for sewage treatment works are available upon request. Write to Chief, Division of Pollution Surveillance, Federal Water Pollution Control Administration, U.S. Department of the Interior, 633 Indiana Avenue NW., Washington, D.C. 20242.

TABLE 5.—*Contract awards—sewage treatment works construction—1965—by population size groups*

Population size group	Total				New plant				Other [1]			
	Number	Dollars	Cumulative (Percent) [2]		Number	Dollars	Cumulative (Percent) [2]		Number	Dollars	Cumulative (Percent) [2]	
			Number	Dollars			Number	Dollars			Number	Dollars
Unknown population size	147	11,956,878	------	------	64	4,011,540	------	------	83	7,945,338	------	------
Under 500	103	8,031,016	6.5	1.7	54	4,247,482	14.1	3.5	49	3,783,534	4.1	1.1
500-1,000	110	8,914,884	13.5	3.6	49	4,116,066	26.9	6.9	61	4,798,818	9.2	2.5
1,000-2,500	218	28,364,565	27.3	9.7	91	14,955,569	50.7	19.3	127	13,408,996	19.8	6.4
2,500-5,000	155	31,133,902	37.1	16.4	41	11,006,320	61.4	28.4	114	20,127,582	29.3	12.3
5,000-10,000	188	55,351,498	49.0	28.3	53	25,497,066	75.2	49.5	135	29,854,432	40.6	21.0
10,000-25,000	223	55,074,838	63.1	40.2	35	13,390,336	84.3	60.6	188	41,684,502	56.3	33.2
25,000-50,000	133	53,196,849	71.5	51.7	17	11,197,209	88.7	69.9	116	41,999,640	66.0	45.4
50,000-100,000	123	37,171,044	79.3	59.7	11	7,830,952	91.6	76.4	112	29,340,092	75.3	54.0
100,000-250,000	95	50,804,593	85.3	70.7	15	10,407,473	95.5	85.0	80	40,397,120	82.0	65.8
250,000 and over	232	135,316,255	100.0	100.0	17	17,969,966	100.0	100.0	215	117,346,289	100.0	100.0
Total	1,729	475,432,807	------	------	447	124,629,979	------	------	1,282	350,802,828	------	------

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

[2] Cumulative percentages are based on the known population groups.

TABLE 6.—*Contract awards—sewage treatment works construction—1965—by contract size groups*

Contract size group (dollars)	Total				New plant				Other [1]			
	Number	Dollars	Cumulative (percent)		Number	Dollars	Cumulative (percent)		Number	Dollars	Cumulative (percent)	
			Number	Dollars			Number	Dollars			Number	Dollars
Under 10,000	89	508,700	5.1	0.1	22	116,594	4.9	0.1	67	392,106	5.2	0.1
10,000-25,000	237	4,023,068	18.8	0.9	57	1,021,998	17.7	0.9	180	3,001,070	19.2	1.0
25,000-50,000	241	8,656,783	32.7	2.7	58	2,056,474	30.7	2.6	183	6,600,309	33.5	2.9
50,000-100,000	306	21,936,372	50.4	7.3	89	6,238,492	50.6	7.6	217	15,697,880	50.4	7.4
100,000-250,000	389	62,172,791	72.9	20.4	104	16,232,314	73.9	20.6	285	45,940,477	72.6	20.5
250,000-500,000	213	76,319,341	85.2	36.5	52	18,786,497	85.5	35.7	161	57,532,844	85.2	36.9
500,000-1,000,000	157	109,821,429	94.3	59.6	40	27,605,981	94.4	57.9	117	82,215,448	94.3	60.3
1,000,000-5,000,000	95	179,626,388	99.8	97.4	24	46,371,141	99.8	95.1	71	133,255,247	99.8	98.3
Over 5,000,000	2	12,367,935	100.0	100.0	1	6,200,488	100.0	100.0	1	6,167,447	100.0	100.0
Total	1,729	475,432,807			447	124,629,979			1,282	350,802,828		

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

TABLE 7.—*Contract awards—sewage treatment works construction—1965—by drainage basins*

Drainage basin	Total		New plants		Other [1]	
	Number	Dollars	Number	Dollars	Number	Dollars
Northeast	208	65,649,399	47	13,707,938	161	51,941,461
North Atlantic	182	48,209,284	52	19,599,002	130	28,610,282
Southeast	245	56,259,569	67	18,601,333	178	37,658,236
Tennessee River	24	10,954,710	11	5,285,516	13	5,669,194
Ohio River	162	55,570,236	40	18,074,723	122	37,495,513
Lake Erie	42	14,474,584	11	908,666	31	13,565,918
Upper Mississippi	223	67,130,729	74	20,895,336	149	46,235,393
Western Great Lakes	86	24,330,732	20	4,644,653	66	19,686,079
Missouri River	120	26,182,013	35	5,628,062	85	20,553,951
Southwest-Lower Mississippi	103	14,795,044	31	4,169,644	72	10,625,400
Colorado River	24	5,918,916	3	197,491	21	5,721,425
Western Gulf	76	22,337,333	15	2,142,038	61	20,195,295
Pacific Northwest	88	26,579,958	17	3,415,645	71	23,164,313
California	104	27,914,388	18	6,124,938	86	21,789,450
Great Basin	26	3,911,009	5	747,186	21	3,163,823
Alaska	4	586,766			4	586,766
Hawaii	7	2,830,654			7	2,830,654
Puerto Rico	5	1,797,483	1	487,808	4	1,309,675
Total	1,729	475,432,807	447	124,629,979	1,282	350,802,828

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

TABLE 8.—*Contract awards—sewage treatment works construction—1965—by States*

State	Total		New plants		Other [1]	
	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	17	4,354,863	3	516,040	14	3,838,823
Alaska	4	586,766			4	586,766
Arizona	14	4,605,035	2	145,669	12	4,459,366
Arkansas	17	4,763,479	4	1,731,877	13	3,031,602
California	110	28,236,554	19	6,153,379	91	22,083,175
Colorado	20	4,064,035	4	1,206,054	16	2,857,981
Connecticut	23	10,288,517	4	2,492,501	19	7,796,016
Delaware	6	1,056,614	2	682,510	4	374,104
District of Columbia	6	1,517,329			6	1,517,329
Florida	73	14,582,963	16	3,489,947	57	11,093,016
Georgia	30	7,157,549	7	2,689,107	23	4,468,442
Hawaii	7	2,830,654			7	2,830,654
Idaho	12	2,051,338	4	381,910	8	1,669,428
Illinois	97	35,615,485	28	9,680,344	69	25,935,141
Indiana	50	17,562,397	14	3,267,156	36	14,295,241
Iowa	46	8,760,538	19	3,222,211	27	5,538,327
Kansas	28	3,436,287	10	585,367	18	2,850,920
Kentucky	29	4,026,246	8	611,139	21	3,415,107
Louisiana	18	1,531,526	4	130,224	14	1,401,302
Maine	15	2,255,747	6	584,109	9	1,671,638
Maryland	45	10,714,793	7	3,953,800	38	6,760,993
Massachusetts	41	11,207,626	3	62,768	38	11,144,858
Michigan	41	12,112,524	11	2,737,504	30	9,375,020
Minnesota	55	13,191,170	15	1,224,415	40	11,966,755
Mississippi	27	6,538,342	7	1,451,319	20	5,087,023
Missouri	42	20,671,415	11	6,203,272	31	14,468,143
Montana	7	830,422	4	253,737	3	576,685
Nebraska	32	4,767,356	9	591,249	23	4,176,107
Nevada	13	2,584,018	4	515,454	9	2,068,564
New Hampshire	12	2,545,215	3	867,056	9	1,678,159
New Jersey	54	20,640,676	16	7,155,964	38	13,484,712
New Mexico	13	4,414,450	1	55,476	12	4,358,974
New York	61	19,573,355	14	4,426,964	47	15,146,391
North Carolina	69	19,722,073	20	8,626,148	4	11,095,925
North Dakota	16	365,036	9	171,202	7	193,834
Ohio	82	36,352,079	18	11,056,633	64	25,295,446
Oklahoma	27	2,971,275	6	127,733	21	2,843,542
Oregon	29	5,344,061	9	823,601	20	4,520,460
Pennsylvania	99	28,025,830	36	11,807,592	63	16,218,238
Puerto Rico	5	1,797,483	1	487,808	4	1,309,675
Rhode Island	3	73,896	2	14,521	1	59,375
South Carolina	39	5,620,631	15	2,107,974	24	3,512,657
South Dakota	12	4,176,128	5	3,202,813	7	973,315
Tennessee	31	12,582,400	14	5,803,535	17	6,778,865
Texas	71	19,204,274	17	2,775,444	54	16,428,830
Utah	11	1,981,683	1	255,113	10	1,726,570
Vermont	13	2,567,241	4	1,177,080	9	1,390,161
Virginia	46	12,373,278	11	2,776,377	35	9,596,901
Washington	49	18,967,170	4	2,210,134	45	16,757,036
West Virginia	10	2,511,957	4	2,091,020	6	420,937
Wisconsin	51	10,991,828	12	2,046,729	39	8,945,099
Wyoming	1	729,200			1	729,200
Total	1,729	475,432,807	447	124,629,979	1,282	350,802,828

[1] Interceptors, outfalls, additions, enlargements, and alterations to plants, etc.

B. COLLECTING SEWER CONSTRUCTION

Collecting sewer construction for 1965 totaled $356.4 million. Tables 9, 10, and 11 analyze the contract award data which was specified as purely collecting sewers (i.e. $322.6 million), and do not reflect any portion of the combination projects. The tabulation of the collecting sewer contract awards by States appears in table 3 of section I.

The collecting sewer classification does *not* include storm sewers.

C. WATERWORKS CONSTRUCTION

The waterworks data are broken down into four categories, namely, SOURCE, TREATMENT, DISTRIBUTION, and MISCELLANEOUS. The "SOURCE" group includes contracts awarded for wells, surface source development, and transmission lines. The "TREATMENT" area includes contracts for plants and auxiliary facilities. The "DISTRIBUTION" category includes contracts for ground storage, elevated tanks, and distribution systems. The "MISCELLANEOUS" classification includes contracts for pumping facilities and for water systems in general. When it is not possible to code a contract that is known to pertain to water into source, treatment, or distribution then it is included in the totals for miscellaneous.

Contract awards for waterworks construction in 1965, including an apportioned amount from the combination contracts, totaled $720.5 million. The tables following refer only to contracts that pertain exclusively to waterworks (i.e., $685.6 million).

TABLE 9.—*Contract awards—collecting sewer construction—1965—by population size groups*

Population size group	Collecting sewers			
	Number	Dollars	Cumulative percent [1]	
			Number	Dollars
Unknown population size	153	7,457,898		
Under 500	80	5,019,518	2.4	1.6
500-1,000	70	7,569,227	4.5	4.0
1,000-2,500	203	21,926,466	10.6	11.0
2,500-5,000	206	19,852,894	16.8	17.2
5,000-10,000	329	44,596,232	26.7	31.4
10,000-25,000	588	49,140,870	44.3	47.0
25,000-50,000	395	36,045,829	56.2	58.4
50,000-100,000	320	28,178,634	65.8	67.4
100,000-250,000	330	30,845,282	75.7	77.2
250,000 and over	808	71,955,535	100.0	100.0
Total	3,482	322,588,388		

[1] Cumulative percentages are based on the known population groups.

TABLE 10.—*Contract awards—collecting sewer construction—1965—by contract size groups*

Contract size group (dollars)	Collecting sewers			
	Number	Dollars	Cumulative percent	
			Number	Dollars
Under 10,000	804	4,250,859	23.1	1.3
10,000-25,000	850	13,943,050	47.5	5.6
25,000-50,000	594	21,325,869	64.6	12.3
50,000-100,000	475	33,616,712	78.2	22.7
100,000-250,000	446	69,901,465	91.0	44.3
250,000-500,000	202	69,879,073	96.8	66.0
500,000-1,000,000	76	52,041,957	99.0	82.1
1,000,000-5,000,000	35	57,629,400	100.0	100.0
Over 5,000,000			100.0	100.0
Total	3,482	322,588,385		

TABLE 11.—*Contract awards—collecting sewer construction—1965—by drainage basin*

Drainage basin	Collecting sewers		Drainage basin	Collecting sewers	
	Number	Dollars		Number	Dollars
Northeast	537	57,419,355	Colorado River	35	2,964,358
North Atlantic	359	41,262,481	Western Gulf	119	11,912,592
Southeast	239	30,237,768	Pacific Northwest	149	13,110,342
Tennessee River	26	4,075,316	California	367	32,577,983
Ohio River	367	33,523,538	Great Basin	20	1,259,864
Lake Erie	129	10,644,201	Alaska	5	395,685
Upper Mississippi	332	25,883,519	Hawaii	2	23,343
Western Great Lakes	352	33,278,126	Puerto Rico		
Missouri River	255	10,461,872			
Southwest-Lower Mississippi	189	13,558,042	Total	3,482	322,588,385

TABLE 12.—*Contract awards—waterworks construction—1965—by population size groups*

Population size group	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Unknown population size	377	18,599,261	112	2,651,975	13	1,778,232	162	8,820,422	90	5,348,632
Under 500	596	36,640,943	152	6,751,852	27	2,404,674	323	20,398,090	94	7,086,327
500-1,000	331	23,474,469	70	3,350,532	28	5,035,551	183	9,711,172	50	5,377,214
1,000-2,500	535	30,561,302	110	7,048,606	44	3,707,966	306	14,358,444	75	5,446,286
2,500-5,000	582	48,188,275	135	12,721,464	37	5,261,734	325	22,362,946	85	7,842,131
5,000-10,000	635	56,523,669	137	14,919,520	27	5,116,897	377	26,443,148	94	10,044,104
10,000-25,000	872	96,707,046	191	22,000,153	55	21,567,238	514	37,351,606	112	15,788,049
25,000-50,000	581	85,834,908	117	25,332,165	30	20,038,822	347	27,301,619	87	13,162,302
50,000-100,000	358	72,284,889	74	23,851,872	29	17,758,742	201	19,496,647	54	11,177,628
100,000-250,000	330	46,616,646	90	13,503,058	10	14,995,478	181	12,526,713	49	5,591,397
250,000 and over	802	170,142,017	147	111,065,361	22	10,839,515	555	33,265,844	78	14,971,297
Total	5,999	685,573,425	1,335	243,196,558	322	108,504,849	3,474	232,036,651	868	101,835,367

[1] This includes separate contracts for pumping facilities and other water works contracts that cover more than one of the above divisions.

TABLE 12A.—*Contract awards—waterworks construction—1965—by population size groups—cumulative percentages* [1]

Population size group	Total cumulative (percent)		Source cumulative (percent)		Treatment cumulative (percent)		Distribution cumulative (percent)		Miscellaneous [2] cumulative (percent)	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Unknown population size	----	----	----	----	----	----	----	----	----	----
Under 500	10.6	5.5	12.4	2.8	8.7	2.2	9.8	9.1	12.1	7.3
500-1,000	16.5	9.0	18.2	4.2	17.8	7.0	15.3	13.5	18.5	12.9
1,000-2,500	26.0	13.6	27.2	7.1	32.0	10.4	24.5	19.9	28.2	18.6
2,500-5,000	36.4	20.8	38.2	12.4	44.0	15.4	34.3	29.9	39.1	26.7
5,000-10,000	47.6	29.3	49.4	18.6	52.8	20.2	45.7	41.8	51.2	37.1
10,000-25,000	63.2	43.8	65.0	27.8	70.6	40.4	61.2	58.5	65.6	53.5
25,000-50,000	73.5	56.7	74.6	38.3	80.2	59.2	71.7	70.8	76.7	67.1
50,000-100,000	79.9	67.5	80.6	48.2	89.6	75.8	77.8	79.5	83.7	78.7
100,000-250,000	85.7	74.5	88.0	53.8	92.9	89.8	83.2	85.1	90.0	84.5
250,000 and over	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] Cumulative percentages are based on the known population groups.
[2] This includes separate contracts for pumping facilities and other waterworks contracts that cover more than one of the above divisions.

TABLE 13.—*Contract awards—waterworks construction—1965—by contract size groups*

Contract size group (dollars)	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 10,000	1,281	6,752,292	344	1,835,717	18	89,980	805	4,171,989	114	654,606
10,000-25,000	1,416	23,474,506	371	5,893,096	38	669,365	827	13,927,541	180	2,984,504
25,000-50,000	1,165	42,100,231	211	7,585,216	56	2,004,560	707	25,773,581	191	6,736,874
50,000-100,000	897	63,580,877	138	9,532,341	62	4,415,271	546	38,798,142	151	10,835,123
100,000-250,000	744	115,144,771	125	19,857,085	55	9,115,940	423	64,128,960	141	22,042,786
250,000-500,000	266	94,176,542	60	21,587,784	36	13,349,975	114	39,458,551	56	19,780,232
500,000-1,000,000	138	95,374,987	48	33,009,676	28	18,768,960	40	28,219,983	22	15,376,368
1,000,000-5,000,000	86	163,857,589	33	69,744,075	28	53,130,736	12	17,557,904	13	23,424,874
Over 5,000,000	6	81,111,630	5	74,151,568	1	6,960,062	----	----	----	----
Total	5,999	685,573,425	1,335	243,196,558	322	108,504,849	3,474	232,036,651	868	101,835,367

[1] This includes separate contracts for pumping facilities and other waterworks contracts that cover more than one of the above divisions.

TABLE 13A.—*Contract awards—waterworks construction—1965—by contract size groups—cumulative percentages*

Contract size group (dollars)	Total cumulative (percent)		Source cumulative (percent)		Treatment cumulative (percent)		Distribution cumulative (percent)		Miscellaneous [1] cumulative (percent)	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Under 10,000	21.4	1.0	25.8	0.8	5.6	0.1	23.2	1.8	13.1	0.6
10,000-25,000	45.0	4.4	53.6	3.2	17.4	0.7	47.0	7.8	33.8	3.5
25,000-50,000	64.4	10.5	69.4	6.3	34.8	2.5	67.4	18.9	55.8	10.1
50,000-100,000	79.4	19.8	79.7	10.2	54.1	6.6	83.1	35.6	73.2	20.7
100,000-250,000	91.8	36.6	89.1	18.4	71.2	15.0	95.3	63.2	89.4	42.3
250,000-500,000	96.2	50.3	93.6	27.3	82.4	27.3	98.6	80.2	95.9	61.7
500,000-1,000,000	98.5	64.2	97.2	40.9	91.1	44.6	99.8	92.4	98.4	76.8
1,000,000-5,000,000	99.9	88.1	99.7	69.6	99.8	93.6	100.0	100.0	100.0	100.0
Over 5,000,000	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

[1] This includes separate contracts for pumping facilities and other waterworks contracts that cover more than one of the above divisions.

TABLE 14.—*Contract awards—waterworks contruction—1965—by drainage basins*

Drainage basin	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Northeast	929	78,423,194	199	24,729,832	35	10,517,872	561	29,879,219	134	13,296,271
North Atlantic	475	44,515,274	93	15,382,364	25	6,333,492	304	17,314,575	53	5,484,843
Southeast	561	72,752,031	144	18,751,408	40	19,280,107	284	17,960,552	93	16,759,964
Tennessee River	77	16,065,419	9	1,380,865	10	2,669,402	46	8,278,455	12	3,736,697
Ohio River	605	64,111,179	92	11,195,151	58	13,871,001	389	31,377,102	66	7,667,925
Lake Erie	124	10,141,611	15	1,452,494	10	2,169,906	92	6,202,611	7	316,600
Upper Mississippi	556	37,668,750	128	3,467,679	33	8,869,432	318	18,826,732	77	6,504,907
Western Great Lakes	398	56,933,655	81	19,677,878	17	8,569,617	268	22,738,806	32	5,947,354
Missouri River	405	37,114,006	96	7,729,112	29	12,700,271	200	11,940,681	80	4,743,942
Southwest-Lower Mississippi	602	59,931,926	158	24,041,663	37	8,626,354	335	20,528,455	72	6,735,454
Colorado River	89	14,260,476	31	4,840,173	2	4,182,836	37	3,034,734	19	2,202,733
Western Gulf	542	44,626,323	139	12,176,503	14	9,578,185	324	14,999,254	65	7,872,381
Pacific Northwest	173	16,776,659	36	6,950,556	4	705,688	91	7,880,861	42	1,239,554
California	403	126,373,251	98	90,610,737	7	393,723	206	18,362,815	92	17,005,976
Great Basin	52	4,921,617	15	780,360	1	36,963	18	2,383,799	18	1,720,495
Alaska	8	958,054	1	29,783			1	328,000	6	600,271
Hawaii										
Puerto Rico										
Total	5,999	685,573,425	1,335	243,196,558	322	108,504,849	3,474	232,036,651	868	101,835,367

[1] This includes separate contracts for pumping facilities and other waterworks.

TABLE 15.—*Contract awards—waterworks construction—1965—by states*

State	Total		Source		Treatment		Distribution		Miscellaneous [1]	
	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars	Number	Dollars
Alabama	50	6,797,764	11	643,380	4	1,465,609	23	1,351,466	12	3,337,309
Alaska	8	958,054	1	29,783			1	328,000	6	600,271
Arizona	58	9,854,122	20	3,019,125	2	4,182,836	27	1,581,540	9	1,070,621
Arkansas	63	5,271,156	15	1,015,255	6	701,782	31	2,348,063	11	1,206,056
California	455	132,000,980	111	91,478,333	7	393,723	224	20,471,747	113	19,657,177
Colorado	76	14,837,432	25	10,692,538	5	1,754,152	28	1,653,220	18	737,522
Connecticut	22	3,417,274	7	1,727,257	4	340,006	9	1,251,686	2	98,325
Delaware	8	544,743	1	22,450	1	129,440	6	392,853		
District of Columbia	27	1,032,846	2	54,178	1	496,244	21	337,484	3	144,940
Florida	174	28,226,724	41	8,155,719	17	6,966,151	79	5,906,515	37	7,198,339
Georgia	116	10,437,724	31	1,819,043	8	3,316,089	61	3,245,987	16	2,056,605
Hawaii										
Idaho	11	1,124,701	4	46,192			4	915,084	3	163,425
Illinois	252	23,145,983	34	1,718,058	19	7,538,860	160	9,613,451	39	4,275,614
Indiana	132	20,550,015	24	3,434,973	16	5,703,260	72	7,266,356	20	4,145,426
Iowa	86	5,098,695	28	334,619	5	2,166,153	31	1,595,860	22	1,002,063
Kansas	103	6,436,509	17	892,882	9	1,046,329	57	2,968,919	20	1,528,379
Kentucky	96	18,645,520	8	3,951,053	17	4,997,132	62	8,890,523	9	806,812
Louisiana	126	7,763,472	45	2,359,901	7	1,084,457	68	4,135,692	6	183,422
Maine	13	1,000,620			3	271,113	5	356,718	5	372,789
Maryland	154	14,544,328	27	7,250,370	5	573,812	106	4,147,521	16	,572,625
Massachusetts	184	9,411,792	55	3,845,326	3	94,323	92	4,115,623	34	1,356,520
Michigan	215	37,334,976	48	17,592,833	9	3,407,536	143	11,898,816	15	4,435,791
Minnesota	150	6,969,234	41	697,395	8	1,865,536	84	3,935,459	17	470,844
Mississippi	173	10,241,075	62	1,361,468	9	3,285,003	93	4,478,038	9	1,116,566
Missouri	163	11,848,336	43	1,072,644	10	343,934	82	7,452,243	28	2,979,515
Montana	23	745,647	7	111,993	1	159,000	10	267,606	5	207,048
Nebraska	85	11,849,068	22	959,889	3	7,432,946	49	2,675,153	11	781,080
Nevada	7	2,571,712	5	1,333,965			1	1,175,395	1	62,352
New Hampshire	20	770,640	6	91,267			11	579,901	3	99,472
New Jersey	171	14,676,573	43	5,756,954	7	1,459,652	91	5,535,320	30	1,924,647
New Mexico	50	6,595,576	20	1,654,245	1	71,117	19	1,833,222	10	3,036,992
New York	557	50,768,745	94	13,592,579	20	8,513,239	378	19,565,111	65	9,097,816
North Carolina	101	18,163,957	20	3,864,276	7	5,512,590	55	3,778,048	19	5,009,043
North Dakota	31	2,235,609	6	85,367	2	412,548	16	1,064,575	7	673,119
Ohio	318	25,735,254	60	4,715,799	29	6,429,894	205	12,790,132	24	1,799,429
Oklahoma	193	17,810,154	41	4,669,297	9	3,116,684	119	7,237,499	24	2,786,674
Oregon	54	3,764,633	13	786,191	1	143,143	29	2,472,628	11	362,671
Pennsylvania	288	20,037,150	54	6,157,965	15	2,315,684	196	10,085,381	23	1,478,120
Puerto Rico										
Rhode Island	27	3,339,956	4	102,630	1	673,014	17	1,701,990	5	862,322
South Carolina	35	5,009,792	8	3,146,207			22	1,581,791	5	281,794
South Dakota	40	2,054,282	5	73,211	3	441,067	24	1,172,244	8	367,760
Tennessee	109	19,284,384	6	824,299	11	2,262,342	74	13,044,136	18	3,153,607
Texas	520	51,382,772	127	19,613,198	15	11,937,023	317	14,431,030	61	5,401,521
Utah	10	588,268	2	31,984	1	36,963	5	466,002	2	53,319
Vermont	11	633,633	4	100,718	1	216,150	4	176,639	2	140,126
Virginia	66	10,413,268	9	3,021,232	7	2,920,712	41	3,213,279	9	1,258,045
Washington	106	11,832,281	18	6,112,314	3	562,545	57	4,461,731	28	695,691
West Virginia	16	3,107,812	4	775,965			11	2,237,333	1	94,514
Wisconsin	225	12,129,964	51	1,709,030	6	403,801	148	9,459,259	20	557,874
Wyoming	21	2,578,220	5	691,208	4	1,361,255	6	392,382	6	133,375
Total	5,999	685,573,425	1,335	243,196,558	322	108,504,849	3,474	232,036,651	868	101,835,367

[1] This includes separate contracts for pumping facilities and other waterworks.

D. COMBINATION CONSTRUCTION

Combination contracts are made up of projects that cover more than one of the three major categories: (1) Sewage treatment; (2) collecting sewers; and (3) waterworks. The combination contract awards by States appear in table 3 of section 1.

TABLE 16.—*Contract awards—combination construction—1965—by population size groups*

Population size group	Combinations [1]			
	Number	Dollars	Cumulative percent [2]	
			Number	Dollars
Unknown population size	126	10,726,754		
Under 500	39	2,568,754	3.1	2.4
500-1,000	42	3,212,606	6.5	5.5
1,000-2,500	113	10,557,387	15.6	15.6
2,500-5,000	82	7,441,456	22.2	22.7
5,000-10,000	111	14,236,897	31.1	36.3
10,000-25,000	127	13,328,317	41.3	49.0
25,000-50,000	97	8,669,037	49.1	57.3
50,000-100,000	73	10,600,219	55.0	67.4
100,000-250,000	56	6,489,226	59.5	73.6
250,000 and over	501	27,787,726	100.0	100.0
Total	1,367	115,618,379		

[1] This includes contracts whose descriptive information covers more than a single category of construction (e.g., sewage treatment, sewers, or waterworks).

[2] Cumulative percentages are based on the known population groups.

TABLE 17.—*Contract awards—combination construction—1965—by contract size groups*

Contract size group (dollars)	Combinations [1]			
	Number	Dollars	Cumulative percent	
			Number	Dollars
Under 10,000	263	1,668,399	19.2	1.4
10,000-25,000	345	5,738,102	44.4	6.4
25,000-50,000	251	8,827,828	62.8	14.0
50,000-100,000	231	16,454,180	79.7	28.2
100,000-250,000	175	27,201,137	92.5	51.7
250,000-500,000	65	22,167,911	97.3	70.9
500,000-1,000,000	24	16,647,926	99.1	85.3
1,000,000-5,000,000	13	16,912,896	100.0	100.0
Over 5,000,000			100.0	100.0
Total	1,367	115,618,379		

[1] This includes contracts whose descriptive information covers more than a single category of construction (e.g., sewage treatment, sewers, or waterworks).

TABLE 18.—*Contract awards—combination construction—1965—by drainage basin*

Drainage basin	Combinations [1]		Drainage basin	Combinations [1]	
	Number	Dollars		Number	Dollars
Northeast	72	12,408,109	Colorado River	10	758,066
North Atlantic	468	21,091,946	Western Gulf	129	12,513,763
Southeast	108	15,170,662	Pacific Northwest	16	4,132,351
Tennessee River	3	119,381	California	32	3,802,372
Ohio River	43	3,839,739	Great Basin	3	444,683
Lake Erie	26	2,498,264	Alaska	4	209,665
Upper Mississippi	172	14,962,834	Hawaii		
Western Great Lakes	137	8,585,055	Puerto Rico		
Missouri River	77	7,919,500			
Southwest-Lower Mississippi	67	7,161,989	Total	1,367	115,618,379

[1] This includes contracts whose descriptive information covers more than one single category of construction (e.g., sewage treatment, sewers, or waterworks).

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