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Clean Watersheds Needs Survey (CWNS) – 2012 Report and Data

The CWNS estimates the capital investment necessary for publicly owned treatment works (POTW) to address the water quality objectives of the Clean Water Act (CWA). The 2012 CWNS is the sixteenth survey since the enactment of the CWA in 1972 which requires this Report under section 516(b)(1)(B) ([33 U.S. Code §1375](#)).

Report to Congress and Summary of Results

The total capital wastewater and stormwater treatment and collection needs for the nation are \$271 billion as of January 1, 2012. This includes capital needs for publicly owned wastewater pipes and treatment facilities (\$197.8 billion), combined sewer overflow (CSO) correction (\$48.0 billion), stormwater management (\$19.2 billion), and recycled water treatment and distribution (\$6.1 billion).

View the following [2012 Clean Watersheds Needs Survey documents](#):

- CWNS 2012 Report to Congress
- Report to Congress Fact Sheet
- CWNS 2012: Detailed Scope and Methods

View [State Fact Sheets](#) for summaries of needs, number of facilities, and population served, by state.

Access to Detailed Data

EPA provides a concise printed version of the CWNS 2012 Report to Congress and additional online data visualization tools. These online tools allow users to view, analyze, download specific data, and print individual state and facility level data:

- [Data Dashboards](#) - Display select multi-level CWNS data for chosen geographic areas in bar graphs and pie charts.
- [CWNS Mapping Tool](#) - GIS-based interactive mapping tool to drill down to get state, congressional district, county and facility level CWNS data.
- [Facility/Project Fact Sheet](#) – Shows CWNS data available for an individual wastewater treatment plant, collection system, stormwater management facility, decentralized wastewater management project, or nonpoint source pollution prevention project.
- [Summary Reports](#) - Display selected CWNS data for geographic areas in bar graphs and pie charts.
- [Detailed Reports](#) - Display selected CWNS data for chosen geographic areas. The output is displayed in tables which can be exported as csv files.
- [Technical Data Reports](#) - Display data that was previously included in the appendices of the Report to Congress. These data tables are comparable to those found in Appendix I of the CWNS 2008 Report to Congress.
- [Data Download](#) - Downloadable Microsoft Access database of all CWNS data elements for the nation or a selected state.

Related Resources

- [Data User's Dictionary](#) - Provides definitions of data elements available in the CWNS summary reports, detailed reports, and Access database.
- [Reports Help](#) - Provides information about how to create and use CWNS online reports.

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Data download from EPA Clean Watersheds Needs Survey, CWNS 2012 Data

Tennessee - Anderson, Knox, Loudon, and Roane counties

<https://www.epa.gov/cwns/clean-watersheds-needs-survey-cwns-2012-report-and-data>

County Name	Facility/Project Name	Existing Total Flow (Mgal/d)	Present Design Total Flow (Mgal/d)	Projected Design Total Flow (Mgal/d)	Present Residential Receiving Collection Population	Present Residential Upstream Collection Population
Anderson	CLINTON STP #1	1.04	3	3	9,900	8,074
Roane	HARRIMAN WWTP	1.2	1.5	1.5	5,071	-
Knox	Karns Beaver Creek STP	3.8	4	4	51,000	-
Knox	KUWAHEE WWTP	30.272	40	40	143,454	-
Knox	KUB - Fourth Creek WWTP	7.21	10.8	10.8	52,500	-
Knox	LOVES CREEK STP	2.12	3.3	3.3	17,183	-
Knox	Eastbridge STP	0.46	0.87	0.87	12,000	-
Anderson	LAKE CITY STP	0.4	0.98	0.98	1,888	-
Loudon	LENOIR CITY WWTP	2.32	2	1.7	15,657	-
Loudon	LOUDON STP	6.9	7.6	7.6	10,000	251
Anderson	NORRIS WWTP	0.111	0.2	0.2	1,439	-
Anderson	Oak Ridge STP	4.58	10	10	29,750	-
Roane	OAK RIDGE Rarity Ridge WWTP	0.202	0.6	0.6	3,200	-
Roane	Oliver Springs WWTP	0.476	0.74	0.74	3,300	-
Roane	ROCKWOOD WWTP	1.17	1.65	1.65	5,502	-
Knox	Turkey Creek STP	8.886	15	15	96,000	-
Knox	Hallsdale-Powell Beaver Creek STP	11.4	12	12	74,555	-
Knox	Hallsdale-Powell Raccoon Valley STP	0.056	0.15	0.15	1,750	-
Roane	Roane Co. STP	0.262	1	1	1,800	-
Roane	KINGSTON STP	0.57	1	1	5,300	-

Data download from EPA Clean Watersheds Needs Survey, CWI
Tennessee - Anderson, Knox, Loudon, and Roane counties
<https://www.epa.gov/cwns/clean-watersheds-needs-survey-cwi>

County Name	Facility/Project Name	Residential Onsite Wastewater Treatment Systems	Present Residential Clustered Systems Population	Present Residential Total Receiving Treatment Population	Present Residential Downstream Collection Population	Present Residential Actual Receiving Population
Anderson	CLINTON STP #1	-	-	17,974	0	17974
Roane	HARRIMAN WWTP	1,821	-	5,071	0	5071
Knox	Karns Beaver Creek STP	-	-	51,000	0	51000
Knox	KUWAHEE WWTP	-	-	143,454	0	143454
Knox	KUB - Fourth Creek WWTP	-	-	52,500	0	52500
Knox	LOVES CREEK STP	5,615	-	17,183	0	17183
Knox	Eastbridge STP	-	-	12,000	0	12000
Anderson	LAKE CITY STP	-	-	1,888	0	1888
Loudon	LENOIR CITY WWTP	-	-	15,657	0	15657
Loudon	LOUDON STP	545	-	10,251	0	10251
Anderson	NORRIS WWTP	-	-	1,439	0	1439
Anderson	Oak Ridge STP	1,387	-	29,750	0	29750
Roane	OAK RIDGE Rarity Ridge WWTP	-	-	3,200	0	3200
Roane	Oliver Springs WWTP	500	-	3,300	0	3300
Roane	ROCKWOOD WWTP	1,631	-	5,502	0	5502
Knox	Turkey Creek STP	-	-	96,000	0	96000
Knox	Hallsdale-Powell Beaver Creek STP	3,500	-	74,555	0	74555
Knox	Hallsdale-Powell Raccoon Valley STP	232	-	1,750	0	1750
Roane	Roane Co. STP	-	-	1,800	0	1800
Roane	KINGSTON STP	1,200	-	5,300	0	5300

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Tennessee - Anderson, Knox, Loudon, and Roane counties

<https://www.epa.gov/cwns/clean-watersheds-needs-survey-cv>

County Name	Facility/Project Name	Projected Residential Receiving Collection Population	Projected Residential Upstream Collection Population	Residential Onsite Wastewater Treatment Systems	Projected Residential Clustered Systems Population	Projected Residential Total Receiving Treatment Population
Anderson	CLINTON STP #1	15,134	9,604	-	-	24,738
Roane	HARRIMAN WWTP	6,986	-	1,000	-	6,986
Knox	Karns Beaver Creek STP	60,000	-	-	-	60,000
Knox	KUWAHEE WWTP	244,058	-	-	-	244,058
Knox	KUB - Fourth Creek WWTP	74,605	-	-	-	74,605
Knox	LOVES CREEK STP	24,400	-	7,155	-	24,400
Knox	Eastbridge STP	16,000	-	-	-	16,000
Anderson	LAKE CITY STP	1,990	-	-	-	1,990
Loudon	LENOIR CITY WWTP	32,000	-	-	-	32,000
Loudon	LOUDON STP	15,000	251	424	-	15,251
Anderson	NORRIS WWTP	1,424	-	-	-	1,424
Anderson	Oak Ridge STP	35,000	-	1,411	-	35,000
Roane	OAK RIDGE Rarity Ridge WWTP	5,000	-	-	-	5,000
Roane	Oliver Springs WWTP	3,520	-	200	-	3,520
Roane	ROCKWOOD WWTP	5,638	-	1,780	-	5,638
Knox	Turkey Creek STP	150,000	-	-	-	150,000
Knox	Hallsdale-Powell Beaver Creek STP	80,555	-	1,000	-	80,555
Knox	Hallsdale-Powell Raccoon Valley STP	2,000	-	100	-	2,000
Roane	Roane Co. STP	2,400	-	-	-	2,400
Roane	KINGSTON STP	6,500	-	1,320	-	6,500

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Tennessee - Anderson, Knox, Loudon, and Roane counties
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County Name	Facility/Project Name	Projected Residential Downstream Collection Population	Projected Residential Actual Receiving Population	Permit Number	Permit Type
Anderson	CLINTON STP #1	0	24738	TN0026506	Individual Permit
Roane	HARRIMAN WWTP	0	6986	TN0025437	Individual Permit
Knox	Karns Beaver Creek STP	0	60000	TN0060020	Individual Permit
Knox	KUWAHEE WWTP	0	244058	TN0023582	Individual Permit
Knox	KUB - Fourth Creek WWTP	0	74605	TN0023574	Individual Permit
Knox	LOVES CREEK STP	0	24400	TN0021822	Individual Permit
Knox	Eastbridge STP	0	16000	TN0061743	Individual Permit
Anderson	LAKE CITY STP	0	1990	TN0025127	Individual Permit
Loudon	LENOIR CITY WWTP	0	32000	TN0020494	Individual Permit
Loudon	LOUDON STP	0	15251	TN0058181	Individual Permit
Anderson	NORRIS WWTP	0	1424	TN0020630	Individual Permit
Anderson	Oak Ridge STP	0	35000	TN0024155	Individual Permit
Roane	OAK RIDGE Rarity Ridge WWTP	0	5000	TN0078051	Individual Permit
Roane	Oliver Springs WWTP	0	3520	TN0020885	Individual Permit
Roane	ROCKWOOD WWTP	0	5638	TN0026158	Individual Permit
Knox	Turkey Creek STP	0	150000	TN0023353	Individual Permit
Knox	Hallsdale-Powell Beaver Creek STP	0	80555	TN0078905	Individual Permit
Knox	Hallsdale-Powell Raccoon Valley STP	0	2000	TN0059323	Individual Permit
Roane	Roane Co. STP	0	2400	TN0024473	Individual Permit
Roane	KINGSTON STP	0	6500	TN0061701	Individual Permit

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County Name	Facility/Project Name	Authority Name	Watershed Name	Watershed HUC
Anderson	CLINTON STP #1	CLINTON UTILITIES BOARD	Powell	6010207
Roane	HARRIMAN WWTP	Harriman Utility Board	Watts Bar Lake	6010201
Knox	Karns Beaver Creek STP	West Knox Utility District	Watts Bar Lake	6010201
Knox	KUWAHEE WWTP	Knoxville Utilities Board	Watts Bar Lake	6010201
Knox	KUB - Fourth Creek WWTP	Knoxville Utilities Board	Watts Bar Lake	6010201
Knox	LOVES CREEK STP	Knoxville Utilities Board	Holston	6010104
Knox	Eastbridge STP	Knoxville Utilities Board	Holston	6010104
Anderson	LAKE CITY STP	LAKE CITY, TOWN OF	Powell	6010207
Loudon	LENOIR CITY WWTP	Lenoir City Utilities Board	Watts Bar Lake	6010201
Loudon	LOUDON STP	LOUDON UTILITIES	Watts Bar Lake	6010201
Anderson	NORRIS WWTP	NORRIS WATER COMMISSION	Powell	6010207
Anderson	Oak Ridge STP	OAK RIDGE, CITY OF	Powell	6010207
Roane	OAK RIDGE Rarity Ridge WWTP	OAK RIDGE, CITY OF	Powell	6010207
Roane	Oliver Springs WWTP	Oliver Springs, Town of	Powell	6010207
Roane	ROCKWOOD WWTP	ROCKWOOD, CITY OF, W&S	Watts Bar Lake	6010201
Knox	Turkey Creek STP	First Utility District of Knox County	Watts Bar Lake	6010201
Knox	Hallsdale-Powell Beaver Creek STP	Hallsdale-Powell Utility District	Powell	6010207
Knox	Hallsdale-Powell Raccoon Valley STP	Hallsdale-Powell Utility District	Upper Clinch	6010205
Roane	Roane Co. STP	Roane County	Watts Bar Lake	6010201
Roane	KINGSTON STP	KINGSTON, CITY OF	Powell	6010207

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Tennessee - Anderson, Knox, Loudon, and Roane counties
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County Name	Facility/Project Name	CWNS Number	Congressional District	State	Region	Map
Anderson	CLINTON STP #1	47000265001	3rd Congressional District	TN	4	MAP
Roane	HARRIMAN WWTP	47000625001	3rd Congressional District	TN	4	MAP
Knox	Karns Beaver Creek STP	47000744001	2nd Congressional District	TN	4	MAP
Knox	KUWAHEE WWTP	47000760001	2nd Congressional District	TN	4	MAP
Knox	KUB - Fourth Creek WWTP	47000760002	2nd Congressional District	TN	4	MAP
Knox	LOVES CREEK STP	47000760003	2nd Congressional District	TN	4	MAP
Knox	Eastbridge STP	47000760004	2nd Congressional District	TN	4	MAP
Anderson	LAKE CITY STP	47000780001	3rd Congressional District	TN	4	MAP
Loudon	LENOIR CITY WWTP	47000795001	2nd Congressional District	TN	4	MAP
Loudon	LOUDON STP	47000845001	2nd Congressional District	TN	4	MAP
Anderson	NORRIS WWTP	47001055001	3rd Congressional District	TN	4	MAP
Anderson	Oak Ridge STP	47001080001	3rd Congressional District	TN	4	MAP
Roane	OAK RIDGE Rarity Ridge WWTP	47001080003	3rd Congressional District	TN	4	MAP
Roane	Oliver Springs WWTP	47001090001	3rd Congressional District	TN	4	MAP
Roane	ROCKWOOD WWTP	47001210001	3rd Congressional District	TN	4	MAP
Knox	Turkey Creek STP	47002016001	2nd Congressional District	TN	4	MAP
Knox	Hallsdale-Powell Beaver Creek STP	47002023001	2nd Congressional District	TN	4	MAP
Knox	Hallsdale-Powell Raccoon Valley STP	47002023003	2nd Congressional District	TN	4	MAP
Roane	Roane Co. STP	47003013001	3rd Congressional District	TN	4	MAP
Roane	KINGSTON STP	47007555002	3rd Congressional District	TN	4	MAP

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Authority Name	Facility/Project Name	County Name	Population Served	Design Flow (Mgal/d)	Existing Flow (Mgal/d)
CLINTON UTILITIES BOARD	CLINTON STP #1	Anderson	17,974	3	1.04
LAKE CITY, TOWN OF	LAKE CITY STP	Anderson	1,888	0.98	0.4
NORRIS WATER COMMISSION	NORRIS WWTP	Anderson	1,439	0.2	0.111
OAK RIDGE, CITY OF	Oak Ridge STP	Anderson	29,750	10	4.58
Subtotal				14.2	6.1
West Knox Utility District	Karns Beaver Creek STP	Knox	51,000	4	3.8
Knoxville Utilities Board	KUWAHEE WWTP	Knox	143,454	40	30.272
Knoxville Utilities Board	KUB - Fourth Creek WWTP	Knox	52,500	10.8	7.21
Knoxville Utilities Board	LOVES CREEK STP	Knox	17,183	3.3	2.12
Knoxville Utilities Board	Eastbridge STP	Knox	12,000	0.87	0.46
First Utility District of Knox County	Turkey Creek STP	Knox	96,000	15	8.886
Hallsdale-Powell Utility District	Hallsdale-Powell Beaver Creek STP	Knox	74,555	12	11.4
Hallsdale-Powell Utility District	Hallsdale-Powell Raccoon Valley STP	Knox	1,750	0.15	0.056
Subtotal				86.1	64.2
Lenoir City Utilities Board	LENOIR CITY WWTP	Loudon	15,657	2	2.32
LOUDON UTILITIES	LOUDON STP	Loudon	10,251	7.6	6.9
Subtotal				9.6	9.2
Harriman Utility Board	HARRIMAN WWTP	Roane	5,071	1.5	1.2
OAK RIDGE, CITY OF	OAK RIDGE Rarity Ridge WWTP	Roane	3,200	0.6	0.202
Oliver Springs, Town of	Oliver Springs WWTP	Roane	3,300	0.74	0.476
ROCKWOOD, CITY OF, W&S	ROCKWOOD WWTP	Roane	5,502	1.65	1.17
Roane County	Roane Co. STP	Roane	1,800	1	0.262
KINGSTON, CITY OF	KINGSTON STP	Roane	5,300	1	0.57
Subtotal				6.5	3.9