



# FACTOIDS: Drinking Water and Ground Water Statistics for 2008

Office of Water (4601M)  
EPA 816-K-08-004  
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[www.epa.gov/safewater/data](http://www.epa.gov/safewater/data)

There are approximately 155,000 public drinking water systems in the United States. Each of these systems regularly supplies drinking water to at least 25 people or 15 service connections. Beyond their common purpose, the 155,000 systems vary widely. The following tables group water systems into categories that show their similarities and differences. For example, the first table shows that most people in the US (292 million) get their water from a community water system. There are approximately 52,000 community water systems, but just eight percent of those systems (4,132) serve 82 percent of the people. The second table shows that more water systems have ground water than surface water as a source--but more people drink from a surface water system. Other tables break down these national numbers by state, territory, and EPA region.

This package also contains figures on the types and locations of underground injection control wells. EPA and states regulate the placement and operation of these wells to ensure that they do not threaten underground sources of drinking water. The underground injection control program statistics are based on separate reporting from the states to EPA.

The drinking water system statistics on the following pages are taken from the Safe Drinking Water Information System/Federal version (SDWIS/Fed). SDWIS/Fed is the U.S. Environmental Protection Agency's official record of public drinking water systems, their violations of state and EPA regulations, and enforcement actions taken by EPA or states as a result of those violations. EPA maintains the database using information collected and submitted by the states.

Notice: Compliance statistics are based on violations reported by states to the EPA Safe Drinking Water Information System. EPA is aware of inaccuracies and underreporting of some data in this system. We are working with the states to improve the quality of the data. An analysis of SDWIS/Fed data quality is available at [www.epa.gov/safewater/data/reports.html](http://www.epa.gov/safewater/data/reports.html)

For more information and additional drinking water data tables, please visit <http://www.epa.gov/safewater/data/getdata.html>.

### **Acronyms & Abbreviations:**

CWS: Community Water System

FY: (federal) Fiscal Year [October 1-September 30]

GPRA: Government Performance and Results Act--program measures

M/R: Monitoring/Reporting violation [water system's failure to monitor for, or report to the state, the level of a contaminant on the required schedule]

MCL: Maximum Contaminant Level [the legal limit on a contaminant in drinking water]

MRDL: Maximum Residual Disinfectant Level [for disinfectants added to drinking water]

NTNCWS: Non-Transient Non-Community Water System

Other: Other violations of EPA rules (including failure to provide public notice of another violation, or failure to prepare and/or distribute a Consumer Confidence Report)

Pop. Served: Population served (by a water system)

PWS: Public Water System

PWSS: Public Water System Supervision program

SDWIS/FED: Safe Drinking Water System/Federal version

TNCWS: Transient Non-Community Water System

TT: Treatment Technique [a drinking water treatment required by EPA or state rules]

# FY2008 Drinking Water Factoids

## Public Water System Inventory data

Active, current systems, from Safe Drinking Water Information System/Federal version (SDWIS/FED) 08Q3 frozen inventory table

### System size

by population served

		Very Small 500 or less	Small 501-3,300	Medium 3,301-10,000	Large 10,001-100,000	Very Large >100,000	Total
<b>CWS</b>	# systems	29,160	13,858	4,838	3,728	404	51,988
	Pop. served	4,857,104	19,868,795	28,134,557	106,310,834	133,128,786	292,300,076
	% of systems	56%	27%	9%	7%	1%	100%
	% of pop	2%	7%	10%	36%	46%	100%
<b>NTNCWS</b>	# systems	15,954	2,641	130	16	1	18,742
	Pop. served	2,234,688	2,701,807	702,369	412,160	203,000	6,254,024
	% of systems	85%	14%	1%	0%	0%	100%
	% of pop	36%	43%	11%	7%	3%	100%
<b>TNCWS</b>	# systems	81,324	2,705	101	17	2	84,149
	Pop. served	7,197,477	2,625,850	542,458	482,151	2,725,000	13,572,936
	% of systems	97%	3%	0%	0%	0%	100%
	% of pop	53%	19%	4%	4%	20%	100%
Total # system		126,438	19,204	5,069	3,761	407	154,879

**CWS** = Community Water System: A public water system that supplies water to the same population year-round.

**NTNCWS** = Non-Transient Non-Community Water System: A public water system that regularly supplies water to at least 25 of the same people at least six months per year, but not year-round. Some examples are schools, factories, office buildings, and hospitals which have their own water systems.

**TNCWS** = Transient Non-Community Water System: A public water system that provides water in a place such as a gas station or campground where people do not remain for long periods of time and is open at least 60 days/year.

### Water source

Type		Ground Water	Surface Water	Totals
<b>CWS</b>	# systems	40,301	11,671	51,972
	Pop. served	88,039,047	204,094,646	292,133,693
	% of systems	78%	22%	100%
	% of pop	30%	70%	100%
<b>NTNCWS</b>	# systems	18,041	688	18,729
	Pop. served	5,462,056	788,360	6,250,416
	% of systems	96%	4%	100%
	% of pop	87%	13%	100%
<b>TNCWS</b>	# systems	82,126	2,010	84,136
	Pop. served	11,036,800	2,534,900	13,571,700
	% of systems	98%	2%	100%
	% of pop	81%	19%	100%
Total # system		140,468	14,369	

Ground water systems = ground water (GW), purchased ground water (GWP)

Surface water systems = surface water (SW), purchased surface water (SWP),

ground water under the direct influence of surface water (GU),

purchased ground water under the direct influence of surface water (GUP).

SDWIS/FED 08Q3 tables were "frozen" in early October 2008

# FY2008 water system data--by State

Key:

# systems
Pop served

Active, current systems, from SDWIS/FED 08Q3 frozen inventory table

Health-based (Treatment Technique & Maximum Contaminant Level) violations, from 08Q3 frozen violations table

							CWSs w/ reported health-based violations	
	CWS	NTCWS	TNCWS	Total	Ground	Surface		
AK	440	240	899	1,579	1,313	266	81	18%
	562,818	62,317	105,307	730,442	327,276	403,166	40,574	7%
AL	535	27	63	625	386	239	28	5%
	5,392,846	16,434	6,988	5,416,268	1,495,690	3,920,578	133,326	2%
AR	712	37	364	1,113	699	414	134	19%
	2,617,534	10,014	21,172	2,648,720	909,889	1,738,831	385,605	15%
AZ	811	216	578	1,605	1,544	61	133	16%
	6,014,439	134,184	113,494	6,262,117	2,884,330	3,377,787	249,333	4%
CA	3,001	1,376	2,832	7,209	5,982	1,227	260	9%
	39,338,253	385,279	1,444,175	41,167,707	7,744,080	33,423,627	732,369	2%
CO	858	171	969	1,998	1,483	515	100	12%
	5,183,440	67,775	260,159	5,511,374	703,829	4,807,545	156,498	3%
CT	569	602	1,529	2,700	2,619	81	59	10%
	2,681,269	111,098	58,289	2,850,656	427,268	2,423,388	25,993	1%
DC	5	1		6		6		0%
	606,730	370		607,100		607,100		0%
DE	214	94	191	499	492	7	17	8%
	894,049	26,922	54,809	975,780	491,805	483,975	6,545	1%
FL	1,802	950	3,100	5,852	5,778	74	163	9%
	18,779,537	252,950	270,570	19,303,057	15,518,664	3,784,393	1,136,883	6%
GA	1,764	216	502	2,482	2,254	228	81	5%
	8,196,451	64,806	78,168	8,339,425	1,783,726	6,555,699	534,113	7%
HI	112	15	3	130	111	19	4	4%
	1,318,212	11,299	3,805	1,333,316	500,086	833,230	45,337	3%
IA	1,131	139	697	1,967	1,815	152	73	6%
	2,648,654	48,258	85,430	2,782,342	1,510,220	1,272,122	108,200	4%
ID	749	229	1,005	1,983	1,907	76	121	16%
	1,059,654	51,844	108,721	1,220,219	961,716	258,503	152,408	14%
IL	1,765	395	3,604	5,764	5,029	735	141	8%
	12,003,424	128,366	364,183	12,495,973	3,583,938	8,912,035	776,385	6%
IN	824	650	2,823	4,297	4,176	121	72	9%
	4,692,225	197,630	381,850	5,271,705	2,917,140	2,354,565	113,471	2%
KS	896	50	91	1,037	659	378	115	13%
	2,570,753	20,793	4,245	2,595,791	710,043	1,885,748	204,464	8%
KY	405	30	52	487	160	327	45	11%
	4,903,536	12,907	6,799	4,923,242	454,936	4,468,306	434,607	9%
LA	1,070	147	250	1,467	1,377	90	124	12%
	4,884,913	56,468	62,019	5,003,400	2,996,483	2,006,917	502,175	10%
MA	532	265	938	1,735	1,519	216	62	12%
	9,314,096	73,707	188,185	9,575,988	2,018,731	7,557,257	771,111	8%
MD	484	561	2,483	3,528	3,405	123	33	7%
	5,127,033	159,226	307,994	5,594,253	1,089,057	4,505,196	61,392	1%
ME	382	375	1,193	1,950	1,867	83	66	17%
	660,416	69,492	189,058	918,966	470,867	448,099	115,222	17%
MI	1,412	1,497	8,686	11,595	11,288	307	145	10%
	7,613,164	327,736	1,042,226	8,983,126	3,085,590	5,897,536	263,731	3%
MN	962	543	5,808	7,313	7,201	112	68	7%
	4,170,773	83,604	535,514	4,789,891	3,453,598	1,336,293	245,075	6%
MO	1,489	243	1,059	2,791	2,538	253	192	13%
	5,073,517	76,721	114,238	5,264,476	1,827,605	3,436,871	1,542,646	30%
MS	1,122	84	81	1,287	1,275	12	80	7%
	2,997,520	74,928	11,207	3,083,655	2,920,170	163,485	261,411	9%

# FY2008 water system data--by State

Active, current systems, from SDWIS/FED 08Q3 frozen inventory table

Key:

# systems
Pop served

Health-based (Treatment Technique & Maximum Contaminant Level) violations, from 08Q3 frozen violations table

CWSs w/ reported health-based violations

	CWS	NTNCWS	TNCWS	Total	Ground	Surface	# systems	Pop served
MT	688	252	1,169	2,109	1,890	219	85	12%
	716,545	79,519	174,141	970,205	542,040	428,165	62,948	9%
NC	2,136	479	3,862	6,477	6,042	435	320	15%
	7,140,116	133,558	321,685	7,595,359	2,067,728	5,527,631	442,555	6%
ND	331	25	159	515	403	112	9	3%
	561,809	3,883	14,146	579,838	258,133	321,705	10,729	2%
NE	596	164	568	1,328	1,267	61	133	22%
	1,415,174	52,329	57,505	1,525,008	736,833	788,175	122,939	9%
NH	711	450	1,251	2,412	2,353	59	116	16%
	849,684	96,036	319,585	1,265,305	736,098	529,207	111,715	13%
NJ	606	817	2,445	3,868	3,757	111	47	8%
	8,717,756	354,744	420,973	9,493,473	3,659,582	5,833,891	592,782	7%
NM	633	169	460	1,262	1,192	70	94	15%
	1,697,004	50,772	73,337	1,821,113	1,525,468	295,645	202,932	12%
NV	221	104	244	569	529	40	29	13%
	2,546,438	41,807	23,014	2,611,259	297,000	2,314,259	40,234	2%
NY	2,777	745	5,968	9,490	8,104	1,386	267	10%
	17,871,595	323,088	2,845,472	21,040,155	5,420,464	15,619,691	1,766,623	10%
OH	1,266	855	3,018	5,139	4,824	315	108	9%
	10,345,753	217,810	444,001	11,007,564	3,477,256	7,530,308	365,702	4%
OK	1,111	109	354	1,574	849	725	259	23%
	3,459,985	28,747	28,979	3,517,711	662,566	2,855,145	829,146	24%
OR	866	340	1,421	2,627	2,324	303	118	14%
	3,079,948	72,520	216,038	3,368,506	766,902	2,601,604	94,352	3%
PA	2,075	1,232	6,155	9,462	8,868	594	178	9%
	10,705,071	522,930	783,445	12,011,446	2,607,685	9,403,761	2,106,509	20%
RI	85	78	316	479	455	24	11	13%
	991,863	27,763	54,859	1,074,485	230,339	844,146	314,514	32%
SC	623	141	744	1,508	1,168	340	36	6%
	3,730,888	40,934	39,933	3,811,755	618,396	3,193,359	110,174	3%
SD	456	27	174	657	518	139	46	10%
	682,429	8,118	24,603	715,150	315,426	399,724	38,404	6%
TN	485	44	367	896	529	367	49	10%
	5,812,407	25,810	57,531	5,895,748	1,478,754	4,416,994	297,600	5%
TX	4,669	855	1,237	6,761	5,510	1,251	470	10%
	24,536,443	512,374	247,799	25,296,616	7,239,700	18,056,916	2,035,244	8%
UT	458	68	438	964	868	96	36	8%
	2,607,806	29,486	72,544	2,709,836	1,593,458	1,116,378	142,129	5%
VA	1,216	562	1,152	2,930	2,555	375	148	12%
	6,489,474	300,169	178,609	6,968,252	791,337	6,176,915	317,076	5%
VT	446	247	673	1,366	1,245	121	87	20%
	450,476	43,343	100,633	594,452	320,058	274,394	74,056	16%
WA	2,267	330	1,573	4,170	3,903	267	209	9%
	5,943,687	139,054	408,262	6,491,003	2,943,074	3,547,929	137,028	2%
WI	1,081	898	9,533	11,512	11,455	57	100	9%
	3,940,472	206,431	713,402	4,860,305	3,040,091	1,820,214	411,696	10%
WV	503	131	468	1,102	758	344	44	9%
	1,492,831	40,873	32,911	1,566,615	303,942	1,262,673	148,356	10%
WY	296	87	384	767	639	128	22	7%
	438,256	21,819	73,257	533,332	191,256	342,076	7,897	2%
	50,648	18,362	83,933	152,943	138,882	14,061	5,418	
	285,529,166	5,899,045	13,545,269		102,610,323	202,363,157	19,782,214	

## FY2008 water system data--Tribal

Active, current systems, from SDWIS/FED 08Q3 frozen inventory table

Key:

# systems
Pop served

Health-based (Treatment Technique & Maximum Contaminant Level) violations, from 08Q3 frozen violations table

CWSs w/ reported health-based violations

Region	CWS	NTNCWS	TNCWS	Total	Ground	Surface	# systems	Pop served
01	2	2	1	5	4	1	1	50%
	41,095	60	40	41,195	195	41,000	95	0%
02	7	1	1	9	8	1	1	14%
	10,553	175	200	10,928	5,978	4,950	4,950	47%
04	14	2	15	31	30	1	2	14%
	21,058	1,107	1,576	23,741	14,241	9,500	2,143	10%
05	78	25	8	111	109	2	5	6%
	97,827	26,971	660	125,458	124,969	489	3,035	3%
06	50	20	15	85	76	9	9	18%
	72,352	75,968	1,788	150,108	134,681	15,427	11,900	16%
07	9	2	3	14	13	1	1	11%
	5,394	1,250	730	7,374	6,674	700	700	13%
08	113	15	6	134	109	25	13	12%
	92,320	5,449	304	98,073	72,062	26,011	10,889	12%
09	234	53	35	322	301	21	62	26%
	268,387	96,736	6,571	371,694	340,130	31,564	85,280	32%
10	83	18	10	111	98	13	3	4%
	45,057	36,125	915	82,097	51,419	30,678	660	1%
Navajo Nation	140	13	6	159	154	5	14	10%
	139,264	4,546	1,109	144,919	127,034	17,885	23,069	17%
	730	151	100	981	902	79	111	
	793,307	248,387	13,893		877,383	178,204	142,721	

## FY2008 water system data--Commonwealths and Territories

Active, current systems, from SDWIS/FED 08Q3 frozen inventory table

Key:

# systems
Pop served

Health-based (Treatment Technique & Maximum Contaminant Level) violations, from 08Q3 frozen violations table

CWSs w/ reported health-based violations

	CWS	NTNCWS	TNCWS	Total	Ground	Surface	# systems	Pop served
Amer. Samoa	19			19	13	6	6	32%
	51,435			51,435	5,277	46,158	1,364	3%
Guam	5	4		9	6	3		0%
	194,286	2,090		196,376	155,840	40,536		0%
N. Marianas	45	27	12	84	82	2	11	24%
	82,630	8,414	861	91,905	25,926	65,979	69,325	84%
Puerto Rico	446	50	6	502	287	215	234	52%
	5,399,857	47,049	2,356	5,449,262	796,890	4,652,372	3,349,136	62%
Virgin Islands	79	135	85	299	296	3	6	8%
	83,012	45,431	9,321	137,764	66,264	71,500	1,738	2%
	594	216	103	913	684	229	257	
	5,811,220	102,984	12,538		1,050,197	4,876,545	3,421,563	

**Government Performance and Results Act (GPRA)--  
Strategic Sub-objective For Drinking Water 2.1.1**

GPRA requires agencies to develop plans for what they intend to accomplish, measure how well they are doing, make appropriate decisions based on the information they have gathered, and communicate information about their performance to Congress and to the public.

EPA Strategic Objective 2.1: Protect Public Health, Sub-objective 2.1.1: Water Safe To Drink: By 2011, 91 percent of the population served by community water systems will receive drinking water that meets all applicable health-based drinking water standards through approaches including effective treatment and source water protection. (2005 Baseline: 89 percent of population; note that year-to-year performance is expected to change over time as new standards take effect.)

Notice: These measures are based on violations reported by states to the EPA Safe Drinking Water Information System. EPA is aware of inaccuracies and underreporting of some data in this system. We are working with the states to improve the quality of the data.

		By EPA region									
Nationally		1	2	3	4	5	6	7	8	9	10
2008	92.0%	91%	82%	90%	94%	95%	89%	83%	96%	98%	96%
2007	91.5%	92%	76%	95%	93%	93%	92%	93%	97%	95%	92%
2006	89.4%	92%	61%	93%	93%	92%	88%	91%	96%	98%	95%
2005	88.5%	92%	55%	93%	93%	94%	88%	91%	95%	95%	95%
2004	90.0%	93%	80%	85%	93%	96%	92%	92%	92%	86%	93%
2003	89.6%	89%	54%	95%	93%	95%	93%	93%	92%	98%	93%
2002	93.6%	88%	81%	98%	96%	94%	93%	95%	97%	99%	91%
2001	90.8%	65%	77%	98%	95%	92%	96%	90%	94%	97%	83%
2000	90.7%	62%	76%	97%	95%	95%	96%	95%	94%	94%	83%
1999	90.5%	75%	61%	98%	95%	95%	95%	95%	94%	97%	94%
1998	89.0%	64%	60%	97%	95%	95%	95%	94%	93%	95%	89%
1997	86.5%	62%	55%	97%	93%	92%	93%	95%	91%	95%	74%
1996	85.6%	60%	53%	92%	93%	92%	94%	95%	92%	91%	74%
1995	83.8%	57%	52%	91%	92%	92%	88%	95%	90%	88%	75%
1994	83.0%	57%	55%	87%	90%	88%	87%	94%	91%	90%	87%
1993	78.8%	60%	56%	85%	90%	77%	92%	93%	92%	69%	85%
		CT	NJ	DE	AL	IL	AR	IA	CO	AZ	AK
		ME	NY	DC	FL	IN	LA	KS	MT	CA	ID
		MA	PR	MD	GA	MI	NM	MO	ND	HI	OR
		NH	VI	PA	KY	MN	OK	NE	SD	NV	WA
		RI		VA	MS	OH	TX		UT	AS	
		VT		WV	NC	WI			WY	GU	
					SC					MP	
					TN					PW	

Health-based violations include Maximum Contaminant Level (MCL), Maximum Residual Disinfectant Level (MRDL) and Treatment Technique (TT) violations.

Population data are based on active, current water systems

For FY2008, population and violation data are from SDWIS/FED 08Q3 frozen tables.

For FY2007, population and violation data are from SDWIS/FED 07Q3 frozen tables.

For FY2006, population and violation data are from SDWIS/FED 06Q3 frozen tables.

For FY2005, population and violation data are from SDWIS/FED 05Q4 frozen tables.

For FY2004, population and violation data are from SDWIS/FED 04Q4 frozen tables.

For FY2003, population and violation data are from SDWIS/FED 03Q4 frozen tables.

For FY2002, population and violation data are from SDWIS/FED 02Q4 frozen tables.

For FY2001, population and violation data are from SDWIS/FED 01Q4 frozen tables. CA population data from 00Q4 frozen tables

For FY2000, population and violation data are from SDWIS/FED 00Q4 frozen tables.

For FY1999, population and violation data are from SDWIS/FED 99Q4 frozen tables.

For FY1998, population and violation data are from SDWIS/FED 98Q4 frozen tables.

For FY1997 and earlier, population and violation data are from SDWIS/FED 98Q1 frozen tables.



## Government Performance and Results Act (GPRA)-- Strategic Target For Drinking Water SP-1

GPRA requires agencies to develop plans for what they intend to accomplish, measure how well they are doing, make appropriate decisions based on the information they have gathered, and communicate information about their performance to Congress and to the public.

EPA Strategic Target SP-1: By 2011, 90 percent of community water systems will provide drinking water that meets all applicable health-based drinking water standards through approaches including effective treatment and source water protection. (2005 baseline: 89 percent.)

Notice: These measures are based on violations reported by states to the EPA Safe Drinking Water Information System. EPA is aware of inaccuracies and underreporting of some data in this system. We are working with the states to improve the quality of the data.

Nationally		By EPA region									
		1	2	3	4	5	6	7	8	9	10
<b>2008</b>	88.9%	85%	86%	91%	91%	91%	87%	88%	90%	89%	88%
<b>2007</b>	88.9%	83%	87%	91%	91%	90%	88%	87%	91%	89%	88%
<b>2006</b>	89.3%	84%	88%	91%	91%	91%	88%	88%	90%	91%	87%
<b>2005</b>	89.2%	86%	86%	92%	91%	92%	86%	87%	90%	92%	87%
		CT	NJ	DE	AL	IL	AR	IA	CO	AZ	AK
		ME	NY	DC	FL	IN	LA	KS	MT	CA	ID
		MA	PR	MD	GA	MI	NM	MO	ND	HI	OR
		NH	VI	PA	KY	MN	OK	NE	SD	NV	WA
		RI		VA	MS	OH	TX		UT	AS	
		VT		WV	NC	WI			WY	GU	
					SC					MP	
					TN					PW	

Health-based violations include Maximum Contaminant Level (MCL), Maximum Residual Disinfectant

Population data are based on active, current water systems

For FY2008, population and violation data are from SDWIS/FED 08Q3 frozen tables.

For FY2007, population and violation data are from SDWIS/FED 07Q3 frozen tables.

For FY2006, population and violation data are from SDWIS/FED 06Q3 frozen tables.

For FY2005, population and violation data are from SDWIS/FED 05Q4 frozen tables.

**Government Performance and Results Act (GPRA)--  
Strategic Target For Drinking Water SP-2**

GPRA requires agencies to develop plans for what they intend to accomplish, measure how well they are doing, make appropriate decisions based on the information they have gathered, and communicate information about their performance to Congress and to the public.

EPA Strategic Target SP-2: By 2011, community water systems will provide drinking water that meets all applicable health-based drinking water standards during 96 percent of person months (i.e., all persons served by community water systems times 12 months). (2005 baseline: 95.2 percent.)

The measure tracks the duration of a population's exposure to violations. For example, some systems may receive a violation for an incident that lasts only one day (e.g., turbidity increase due to storm event). The measure is intended to give a more accurate picture of exposure of the population to contamination. Achievement of the measure will help ensure that the long-term outcome measure of population served by community water systems in compliance at all times is achieved.

Notice: These measures are based on violations reported by states to the EPA Safe Drinking Water Information System. EPA is aware of inaccuracies and underreporting of some data in this system. We are working with the states to improve the quality of the data.

	Nationally	By EPA region									
		1	2	3	4	5	6	7	8	9	10
2008	96.9%	96%	91%	98%	98%	97%	96%	96%	99%	99%	98%
2007	96.6%	96%	91%	98%	98%	97%	97%	98%	99%	97%	98%
2006	96.8%	97%	91%	97%	98%	96%	96%	97%	99%	99%	99%
2005	95.2%	97%	80%	96%	98%	96%	96%	97%	99%	99%	99%
		CT	NJ	DE	AL	IL	AR	IA	CO	AZ	AK
		ME	NY	DC	FL	IN	LA	KS	MT	CA	ID
		MA	PR	MD	GA	MI	NM	MO	ND	HI	OR
		NH	VI	PA	KY	MN	OK	NE	SD	NV	WA
		RI		VA	MS	OH	TX		UT	AS	
		VT		WV	NC	WI			WY	GU	
					SC					MP	
					TN					PW	

Health-based violations include Maximum Contaminant Level (MCL), Maximum Residual Disinfectant  
Population data are based on active, current water systems

For FY2008, population and violation data are from SDWIS/FED 08Q3 frozen tables.

For FY2007, population and violation data are from SDWIS/FED 07Q3 frozen tables.

For FY2006, population and violation data are from SDWIS/FED 06Q3 frozen tables.

For FY2005, population and violation data are from SDWIS/FED 05Q4 frozen tables.

## CWS violations reported by FY

FY2008 data from SDWIS/FED 08Q3 frozen tables

FY2007 data from SDWIS/FED 07Q3 frozen tables

FY2006 data from SDWIS/FED 06Q3 frozen tables

FY2005 data from SDWIS/FED 05Q4 frozen tables, except for Chem M/Rs which are from 06Q1

FY2004 data from SDWIS/FED 04Q4 frozen tables, except for Chem M/Rs which are from 05Q1

FY2003 data from SDWIS/FED 03Q4 frozen tables, except for Chem M/Rs which are from 04Q1

### Number of violations

FY	MCL	MRDL	TT	M/R	Other*	Total
2008	9,883	5	2,647	103,064	20,774	136,373
2007	9,410	5	3,056	61,316	23,299	97,086
2006	9,076	7	2,790	57,117	19,245	88,235
2005	9,360	4	3,036	109,167	18,414	139,981
2004	5,340	6	2,168	87,393	14,459	109,366
2003	4,688	1	2,299	58,675	12,671	78,334

### Number of systems in violation

FY	MCL	MRDL	TT	M/R	Other*	Total *
2008	4,553	5	1,506	13,084	8,631	20,797
2007	4,412	4	1,648	12,619	10,429	21,544
2006	4,371	3	1,538	13,071	9,600	21,618
2005	4,383	4	1,625	14,291	10,258	22,772
2004	3,419	4	1,409	13,551	8,947	21,055
2003	3,042	1	1,458	12,819	8,109	20,280

### Population affected

FY	MCL	MRDL	TT	M/R	Other*	Total *
2008	15,841,822	1,021	10,086,935	57,538,783	21,872,736	83,385,983
2007	16,105,351	263,875	10,895,825	51,148,667	30,434,294	87,843,223
2006	16,221,483	46,344	16,612,762	52,289,555	23,372,794	83,062,903
2005	18,951,548	424,859	16,879,450	61,767,844	23,442,800	90,890,243
2004	15,018,194	3,617	16,588,301	48,675,006	17,833,120	76,870,272
2003	15,438,443	2,250	16,969,087	49,497,572	12,726,332	80,765,799

## FY2008 CWS results, by system size

### Number of violations

	MCL	MRDL	TT	M/R	Other	Total
Very small	5,277	5	1,531	76,063	15,760	98,636
Small	3,004		718	18,619	3,527	25,868
Medium	1,001		231	8,602	915	10,749
Large	667		154	9,750	545	11,116
Very large	27		13	1,145	27	1,212

### Number of systems in violation

	MCL	MRDL	TT	M/R	Other	Total *
Very small	2,546	5	896	8,567	5,842	12,956
Small	1,232		383	2,841	1,940	4,996
Medium	448		133	930	494	1,587
Large	315		85	684	334	1,173
Very large	12		9	62	21	85

### Population affected

	MCL	MRDL	TT	M/R	Other	Total *
Very small	435,974	1,021	148,542	1,328,092	899,846	2,061,976
Small	1,772,360		578,182	3,941,593	2,658,558	7,043,096
Medium	2,582,166		761,899	5,391,970	2,736,140	9,146,949
Large	7,590,568		2,351,256	18,067,524	8,341,321	30,595,667
Very large	3,460,754		6,247,056	28,809,604	7,236,871	34,538,295

\* Totals for the number of systems in violation, and for population affected, should be lower than the sum in each row. This is because some systems will have incurred more than one type of violation.

Compliance information since FY2003 includes new DBP and IESWTR rules

## NTNCWS violations reported by FY

FY2008 data from SDWIS/FED 08Q3 frozen tables

FY2007 data from SDWIS/FED 07Q3 frozen tables

FY2006 data from SDWIS/FED 06Q3 frozen tables

FY2005 data from SDWIS/FED 05Q4 frozen tables, except for Chem M/Rs which are from 06Q1

FY2004 data from SDWIS/FED 04Q4 frozen tables, except for Chem M/Rs which are from 05Q1

FY2003 data from SDWIS/FED 03Q4 frozen tables, except for Chem M/Rs which are from 04Q1

### Number of violations

FY	MCL	MRDL	TT	M/R	Other	Total
2008	2,206		766	39,379	3,449	45,800
2007	2,141		794	28,581	2,490	34,006
2006	1,833		827	27,728	2,063	32,451
2005	1,851	1	853	48,276	717	51,698
2004	1,348		681	34,097	538	36,664
2003	1,383		680	25,588	503	28,154

### Number of systems in violation

FY	MCL	MRDL	TT	M/R	Other	Total *
2008	1,326		536	5,178	1,227	6,870
2007	1,313		539	4,903	1,238	6,618
2006	1,198		539	5,143	1,059	6,590
2005	1,160	1	550	5,578	491	6,778
2004	1,020		474	4,957	356	5,987
2003	1,024		495	4,752	317	5,794

### Population affected

FY	MCL	MRDL	TT	M/R	Other	Total *
2008	423,663		181,073	1,630,978	343,836	2,141,033
2007	398,021		188,740	1,526,926	355,150	2,083,785
2006	405,274		170,672	1,670,822	277,538	2,136,600
2005	342,398	110	164,644	1,665,415	122,177	2,035,743
2004	286,638		130,242	1,401,311	88,003	1,711,868
2003	265,927		140,053	1,432,966	85,026	1,746,697

## TNCWS violations reported by FY

### Number of violations

FY	MCL	MRDL	TT	M/R	Other	Total
2008	5,259	-	384	26,589	24,437	56,669
2007	5,575	-	435	28,599	22,078	56,687
2006	5,264	-	474	29,848	19,010	54,596
2005	4,994	-	502	34,880	4,800	45,176
2004	5,003	-	415	34,295	3,028	42,741
2003	5,063	-	573	33,666	8,640	47,942

### Number of systems in violation

FY	MCL	MRDL	TT	M/R	Other	Total *
2008	4,068	-	227	14,938	8,159	22,714
2007	4,319	-	237	15,626	7,664	22,996
2006	4,066	-	211	15,571	6,417	21,800
2005	3,961	-	215	17,542	2,284	21,236
2004	3,960	-	195	17,314	1,697	20,653
2003	4,055	-	245	17,429	3,685	21,338

### Population affected

FY	MCL	MRDL	TT	M/R	Other	Total *
2008	548,776	-	58,580	1,959,479	859,435	2,900,038
2007	538,931	-	63,160	1,999,117	731,880	2,799,528
2006	1,296,508	-	50,372	2,166,532	642,080	3,596,226
2005	541,171	-	86,648	2,260,178	344,411	2,812,854
2004	549,164	-	51,915	2,205,971	234,291	2,705,723
2003	540,765	-	40,518	2,159,794	340,950	2,647,611

\* Totals for the number of systems in violation, and for population affected, should be lower than the sum in each row. This is because some systems will have incurred more than one type of violation.

Compliance information since FY2003 includes new DBP and IESWTR rules

# FY2008 MCL, MRDL and TT violations reported

From SDWIS/FED 08Q3 frozen violations table

Key: # violations  
# systems  
Pop. affected

	Very small 25-500	Small 501-3,300	Medium 3,301-10,000	Large 10,001-100,000	Very Large >100,000	Total
<b>Microbials:</b> Applies to all water systems						
<b>TCR</b>	7,527	989	272	251	10	9,049
	5,755	772	235	204	7	6,973
	643,067	991,612	1,365,157	4,878,935	2,829,851	10,708,622
Applies to CWS & NTNCWS that disinfect (plus TNCWSs that use ClO2)						
<b>Stage 1 DBP</b>	1,317	1,629	580	159	4	3,689
	535	542	218	75	2	1,372
	98,147	849,756	1,224,557	1,569,709	209,225	3,951,394
Applies to surface water systems						
<b>SWTR</b>	887	254	37	17	3	1,198
	475	150	33	17	3	678
	74,127	201,550	213,814	357,784	2,741,000	3,588,275
Applies to surface water systems						
<b>IE&amp;LT1SWTR</b>	199	185	62	87	9	542
	65	71	40	38	5	219
	13,020	121,138	234,161	1,250,980	3,210,356	4,829,655
<b>Organics:</b> Applies to CWS and NTNCWS						
<b>VOC</b>	46	9	3	4		62
	28	4	1	4		37
	5,617	7,685	4,394	117,020		134,716
<b>SOC</b>	26		1	2		29
	20		1	2		23
	3,339		4,877	89,500		97,716
<b>Inorganics:</b> Applies to CWS and NTNCWS						
<b>Nitrate/Nitrite</b>	997	147	9	10		1,163
	563	62	2	4		631
	67,426	70,898	8,655	55,301		202,280
<b>Arsenic</b>	1,554	412	166	59		2,191
	731	173	41	22		967
	113,891	227,941	247,763	722,821		1,312,416
<b>Other IOC</b>	275	63	8	14	3	363
	111	23	3	10	1	148
	17,938	29,304	23,336	385,653	100,387	556,618
Applies to CWS						
<b>Radionuclides</b>	714	337	80	170	7	1,308
	235	103	30	31	3	402
	41,349	138,131	179,515	725,178	423,174	1,507,347
Applies to CWS and NTNCWS						
<b>Lead &amp; Copper</b>	1,211	259	55	25	1	1,551
	861	213	41	20	1	1,136
	125,344	272,507	222,036	519,529	295,700	1,435,116

## Acronyms:

TCR = Total Coliform Rule

SWTR = Surface Water Treatment Rule

IE&LT1SWTR = Interim Enhanced and Long Term 1 Surface Water Treatment Rule

DBP = Disinfection By-Products Rule

VOC = Regulated volatile organic contaminants (e.g., Benzene) other than TTHM (which are listed in DBP Rule)

SOC = Synthetic organic chemicals (e.g., Atrazine)

Other IOC = Regulated inorganic contaminants (e.g., arsenic) other than Copper, Lead, Nitrate, and Nitrite

# FY2008 Monitoring violations reported

From SDWIS/FED 08Q3 frozen violations table

Key: # violations  
# systems  
Pop. affected

	Very small 25-500	Small 501-3,300	Medium 3,301-10,000	Large 10,001-100,000	Very Large >100,000	Total
<b>Microbials:</b>	Applies to all water systems					
<b>TCR</b>	28,424	2,672	438	205	23	31,762
	17,402	1,714	315	174	19	19,624
	1,846,394	2,105,338	1,785,096	4,388,486	7,905,493	18,030,807

	Very small 25-500	Small 501-3,300	Medium 3,301-10,000	Large 10,001-100,000	Very Large >100,000	Total
<b>Stage 1 DBP</b>	Applies to CWS & NTNCWS that disinfect (plus TNCWSs that use ClO2)					
	4,049	1,701	444	351	31	6,576
	1,969	847	245	160	18	3,239
	350,654	1,183,648	1,411,704	4,316,844	5,385,089	12,647,939

	Very small 25-500	Small 501-3,300	Medium 3,301-10,000	Large 10,001-100,000	Very Large >100,000	Total
<b>SWTR</b>	Applies to surface water systems					
	804	225	95	26	6	1,156
	247	104	54	21	5	431
	44,117	144,412	298,933	433,936	3,072,147	3,993,545

	Very small 25-500	Small 501-3,300	Medium 3,301-10,000	Large 10,001-100,000	Very Large >100,000	Total
<b>IE&amp;LT1SWTR</b>	Applies to surface water systems					
	228	166	75	38	8	515
	92	69	36	21	6	224
	15,561	95,829	204,914	524,721	2,474,278	3,315,303

	Very small 25-500	Small 501-3,300	Medium 3,301-10,000	Large 10,001-100,000	Very Large >100,000	Total
<b>Organics:</b>	Applies to CWS and NTNCWS					
<b>VOC</b>	35,422	7,109	2,051	2,524	585	47,691
	1,392	268	90	80	10	1,840
	182,956	376,259	539,140	2,380,214	3,705,597	7,184,166
<b>SOC</b>	29,692	5,392	3,805	4,173	184	43,246
	1,270	240	136	116	4	1,766
	169,196	325,843	792,950	3,235,960	1,014,716	5,538,665

	Very small 25-500	Small 501-3,300	Medium 3,301-10,000	Large 10,001-100,000	Very Large >100,000	Total
<b>Inorganics:</b>	Applies to CWS and NTNCWS					
<b>Nitrate/Nitrite</b>	7,120	645	136	188	46	8,135
	6,109	486	101	98	12	6,806
	638,493	588,143	607,584	2,896,654	4,160,754	8,891,628
<b>Arsenic</b>	1,377	307	94	82	13	1,873
	1,216	248	68	62	8	1,602
	171,442	329,051	390,625	1,752,395	1,499,446	4,142,959
<b>Other IOC</b>	10,079	1,692	494	718	148	13,131
	1,048	183	44	64	11	1,350
	140,058	233,732	258,591	1,970,474	4,933,185	7,536,040

	Very small 25-500	Small 501-3,300	Medium 3,301-10,000	Large 10,001-100,000	Very Large >100,000	Total
<b>Radionuclides</b>	Applies to CWS					
	1,985	543	202	337	20	3,087
	549	151	51	46	5	802
	77,310	207,818	307,339	1,254,181	2,456,646	4,303,294

	Very small 25-500	Small 501-3,300	Medium 3,301-10,000	Large 10,001-100,000	Very Large >100,000	Total
<b>Lead &amp; Copper</b>	Applies to CWS and NTNCWS					
	8,977	1,945	405	245	26	11,598
	6,130	1,422	324	200	14	8,090
	880,419	1,776,968	1,805,868	4,740,571	11,628,980	20,832,806

## Acronyms:

TCR= Total Coliform Rule

SWTR = Surface Water Treatment Rule

IE&LT1SWTR = Interim Enhanced and Long Term 1 Surface Water Treatment Rule

DBP = Disinfection By-Products Rule

VOC = Regulated volatile organic contaminants (e.g., Benzene) other than TTHM (which are listed in DBP Rule)

SOC = Synthetic organic chemicals (e.g., Atrazine)

Other IOC = Regulated inorganic contaminants (e.g., arsenic) other than Copper, Lead, Nitrate, and Nitrite

# Underground Injection Control program--inventory of wells

Types of wells:

- Class I Deep industrial waste disposal
- Class II For oil and natural gas production
- Class III Related to mineral recovery
- Class IV Banned, inject hazardous or radioactive waste above USDWs
- Class V Generally shallow disposal wells. There are an **estimated 650,000 Class V wells nationally**

Class I through IV data from annual reporting by states and EPA Regions

The Class V estimate is based on state estimates and modeling of storm water and large capacity septic

Note: The Class III and Class IV facilities may contain multiple wells

State	Class I Hazardous Waste Wells	Class I Non- Hazardous Waste Wells	Class II Wells	Class III Facilities	Class III Wells	Class IV Facilities	Class V Wells
AK		23	1,281				1,673
AL			243	1	5		431
AR	3	13	1,069				197
AS							
AZ				2	6		47,862
CA		23	28,672	1	87		17,094
CO		6	799	3	27		1,802
CT							542
DC							96
DE							1,026
FL	1	187	62				55,078
GA							8,353
GU							140
HI							5,259
IA			2				1,432
ID							12,389
IL	3	1	7,752				10,142
IN	5	11	1,326				7,724
KS	6	42	16,416	4	139		5,880
KY		1	3,405				13,091
LA	17	25	3,354	20	89		155
MA							1,629
MD							13,693
ME							1,871
MI	8	20	1,592	5	49		8,934
MN							2,744
MO			204				7,573
MP							37
MS	4	1	952				1,425
MT			929				818
NC						3	18,876
ND		4	932				548
NE		1	651	1	3,473		669
NH							5,147
NJ							1,847
NM		7	4,531	17	19		1,258
NV			15				756

## Underground Injection Control program--inventory of wells (cont.)

Types of wells:

- Class I Deep industrial waste disposal
- Class II For oil and natural gas production
- Class III Related to mineral recovery
- Class IV Banned, inject hazardous or radioactive waste above USDWs
- Class V Generally shallow disposal wells. There are an **estimated 650,000 Class V wells nationally**

Class I through IV data from annual reporting by states and EPA Regions

The Class V estimate is based on state estimates and modeling of storm water and large capacity septic

Note: The Class III and Class IV facilities may contain multiple wells

State	Class I	Class I Non-	Class II	Class III	Class III	Class IV	Class V
	Hazardous	Hazardous					
	Waste Wells	Waste Wells	Wells	Facilities	Wells	Facilities	Wells
NY			543	6	125		30,036
OH	10		2,702	4	47		17,775
OK		9	10,459	1	2	1	847
OR			5			5	37,645
PA			1,866				13,679
PR							2,274
RI							1,042
SC							14,361
SD			77				264
TN			15				1,721
TX	56	49	50,988	79	5,595	4	23,357
UT		1	290	1	7	8	5,346
VA			79	1	3		12,368
VI							71
VT							1,245
WA			1				30,417
WI							1,718
WV			771	3	39		3,536
WY		41	4,814	3	10,490		1,097
	113	465	146,797	152	20,202	21	456,990

### Tribal Systems, by EPA Region

	Class I	Class II	Class III	Class IV/V
	Wells	Wells	Wells	Wells
EPA R1				26
EPA R2				
EPA R4				76
EPA R5		14		680
EPA R6	1	2,437		1
EPA R7				16
EPA R8		948		71
EPA R9		375		316
EPA R10				818
	1	3,774	-	2,004