



# FACTOIDS: Drinking Water and Ground Water Statistics for 2004

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[www.epa.gov/safewater](http://www.epa.gov/safewater)

There are approximately 160,000 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 160,000 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 (268 million) get their water from a community water system. There are approximately 54,000 community water systems, but just seven percent of those systems (3,797) serve 81 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]

# FY2004 Drinking Water Factoids

## Public Water System Inventory data

Active, current systems, from Safe Drinking Water Information System/Federal version (SDWIS/FED) 04Q4 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	30,006	14,212	4,707	3,541	372	52,838
	Pop. served	4,957,131	20,137,604	27,346,264	99,808,668	120,246,010	272,495,677
	% of systems	57%	27%	9%	7%	1%	100%
	% of pop	2%	7%	10%	37%	44%	100%
<b>NTNCWS</b>	# systems	16,545	2,720	96	14		19,375
	Pop. served	2,301,594	2,712,522	517,296	401,908		5,933,320
	% of systems	85%	14%	0%	0%	0%	100%
	% of pop	39%	46%	9%	7%	0%	100%
<b>TNCWS</b>	# systems	84,740	2,700	110	29	4	87,583
	Pop. served	7,318,174	2,667,965	611,822	617,698	7,269,001	18,484,660
	% of systems	97%	3%	0%	0%	0%	100%
	% of pop	40%	14%	3%	3%	39%	100%
Total # syster		131,291	19,632	4,913	3,584	376	159,796

**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.

### Water source

Type		Ground Water	Surface Water	Totals
<b>CWS</b>	# systems	41,264	11,574	52,838
	Pop. served	90,499,550	181,996,127	272,495,677
	% of systems	78%	22%	100%
	% of pop	33%	67%	100%
<b>NTNCWS</b>	# systems	18,647	728	19,375
	Pop. served	5,356,710	576,610	5,933,320
	% of systems	96%	4%	100%
	% of pop	90%	10%	100%
<b>TNCWS</b>	# systems	85,587	1,996	87,583
	Pop. served	15,691,358	2,793,302	18,484,660
	% of systems	98%	2%	100%
	% of pop	85%	15%	100%
Total # syster		145,498	14,298	159,796
		111,547,618	185,366,039	

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 04Q4 tables were "frozen" in early January 2005

# FY2004 water system data--by State

Key: # systems  
pop served

Active, current systems, from SDWIS/FED 04Q4 frozen inventory table

Health-based (Treatment Technique & Maximum Contaminant Level) violations, from 04Q4 frozen violations table

	CWS	NTNCWS	TNCWS	Total	Ground	Surface	CWSs w/ reported health-based violations	
AK	436	220	969	1,625	1,372	253	74	17%
	465,008	47,418	96,784	609,210	303,523	305,687	48,636	10%
AL	619	31	70	720	411	309	11	2%
	5,177,165	18,518	7,374	5,203,057	1,486,387	3,716,670	41,031	1%
AR	728	40	341	1,109	701	408	96	13%
	2,504,010	10,268	17,021	2,531,299	926,007	1,605,292	225,605	9%
AZ	789	197	605	1,591	1,534	57	106	13%
	4,912,776	128,937	120,380	5,162,093	2,443,274	2,718,819	1,533,665	31%
CA	3,123	1,418	3,055	7,596	6,517	1,079	178	6%
	32,877,694	422,576	6,095,389	39,395,659	15,989,075	23,406,584	4,276,549	13%
CO	830	163	944	1,937	1,485	452	56	7%
	4,986,055	72,630	270,601	5,329,286	723,944	4,605,342	597,835	12%
CT	586	658	1,737	2,981	2,906	75	68	12%
	2,707,276	128,777	60,611	2,896,664	463,927	2,432,737	45,332	2%
DC	3	3		6		6	1	33%
	606,000	4,670		610,670		610,670	595,000	98%
DE	226	105	177	508	505	3	24	11%
	791,675	24,531	57,325	873,531	597,401	276,130	159,034	20%
FL	1,881	1,009	3,341	6,231	6,160	71	116	6%
	17,205,824	264,565	296,166	17,766,555	14,973,905	2,792,650	1,719,617	10%
GA	1,689	242	550	2,481	2,259	222	46	3%
	7,363,830	70,645	88,178	7,522,653	1,600,034	5,922,619	124,556	2%
HI	115	13	3	131	115	16	3	3%
	1,280,327	11,043	400	1,291,770	1,169,001	122,769	18,001	1%
IA	1,142	144	713	1,999	1,836	163	58	5%
	2,559,611	47,609	87,600	2,694,820	1,483,974	1,210,846	162,431	6%
ID	752	244	1,029	2,025	1,951	74	89	12%
	953,210	51,614	113,744	1,118,568	1,050,021	68,547	124,206	13%
IL	1,792	405	3,700	5,897	5,175	722	202	11%
	11,568,029	144,382	390,982	12,103,393	3,351,009	8,752,384	899,345	8%
IN	840	686	2,897	4,423	4,296	127	95	11%
	4,667,741	196,992	408,140	5,272,873	2,897,156	2,375,717	223,762	5%
KS	911	52	101	1,064	685	379	97	11%
	2,562,950	19,107	3,788	2,585,845	714,563	1,871,282	181,965	7%
KY	417	50	65	532	176	356	40	10%
	4,594,369	18,482	8,566	4,621,417	376,670	4,244,747	500,522	11%
LA	1,111	179	312	1,602	1,518	84	99	9%
	4,886,463	69,719	72,822	5,029,004	3,010,717	2,018,287	441,520	9%
MA	523	250	939	1,712	1,524	188	41	8%
	8,975,932	68,704	174,008	9,218,644	2,080,713	7,137,931	690,253	8%
MD	502	573	2,621	3,696	3,600	96	25	5%
	4,845,205	169,401	171,787	5,186,393	944,837	4,241,556	18,850	0%
ME	399	369	1,221	1,989	1,911	78	76	19%
	616,267	71,923	196,857	885,047	456,241	428,806	125,060	20%
MI	1,438	1,631	8,841	11,910	11,606	304	69	5%
	7,278,655	354,802	1,038,931	8,672,388	3,072,606	5,599,782	116,492	2%
MN	965	563	6,273	7,801	7,690	111	21	2%
	3,963,562	89,455	510,591	4,563,608	3,230,991	1,332,617	36,774	1%
MO	1,463	241	1,016	2,720	2,479	241	186	13%
	4,909,561	73,620	128,360	5,111,541	1,761,837	3,349,704	240,894	5%
MS	1,170	95	118	1,383	1,380	3	19	2%
	3,040,537	74,394	23,596	3,138,527	2,849,493	289,034	67,171	2%

# FY2004 water system data--by State

Active, current systems, from SDWIS/FED 04Q4 frozen inventory table

Key: # systems  
Pop served

Health-based (Treatment Technique & Maximum Contaminant Level) violations, from 04Q4 frozen violations table

CWSs w/ reported health-based violations

	CWS	NTCWS	TNCWS	Total	Ground	Surface	CWSs w/ reported health-based violations	
MT	676	227	1,157	2,060	1,836	224	78	12%
	681,326	60,483	173,913	915,722	502,738	412,984	38,618	6%
NC	2,174	566	4,322	7,062	6,633	429	264	12%
	6,435,706	156,004	355,293	6,947,003	1,991,577	4,955,426	598,465	9%
ND	320	29	174	523	435	88	22	7%
	551,910	4,167	15,423	571,500	260,124	311,376	27,360	5%
NE	606	188	583	1,377	1,302	75	134	22%
	1,416,485	43,547	87,732	1,547,764	771,897	775,867	387,901	27%
NH	698	444	1,137	2,279	2,220	59	101	14%
	803,172	90,925	232,690	1,126,787	598,081	528,706	62,471	8%
NJ	607	870	2,644	4,121	4,019	102	16	3%
	7,891,239	217,056	381,246	8,489,541	3,128,541	5,361,000	173,806	2%
NM	645	147	483	1,275	1,204	71	82	13%
	1,590,051	38,900	131,448	1,760,399	1,527,808	232,591	135,400	9%
NV	253	106	251	610	576	34	23	9%
	1,894,696	38,253	28,109	1,961,058	314,277	1,646,781	49,989	3%
NY	2,816	757	6,432	10,005	8,752	1,253	115	4%
	17,900,676	326,776	2,916,321	21,143,773	5,532,883	15,610,890	1,673,911	9%
OH	1,318	970	3,191	5,479	5,086	393	79	6%
	10,037,355	236,836	482,841	10,757,032	3,443,159	7,313,873	229,759	2%
OK	1,135	120	355	1,610	889	721	161	14%
	3,442,683	19,699	26,734	3,489,116	691,324	2,797,792	1,012,659	29%
OR	874	337	1,437	2,648	2,349	299	133	15%
	2,924,951	75,556	223,858	3,224,365	844,139	2,380,226	110,513	4%
PA	2,135	1,213	6,544	9,892	9,315	577	124	6%
	10,453,283	513,299	841,775	11,808,357	2,788,807	9,019,550	2,234,932	21%
RI	83	78	321	482	458	24	5	6%
	977,398	27,160	55,041	1,059,599	227,010	832,589	22,208	2%
SC	659	171	576	1,406	1,180	226	66	10%
	3,425,186	54,632	35,613	3,515,431	595,626	2,919,805	203,420	6%
SD	467	28	194	689	555	134	44	9%
	659,281	12,109	26,868	698,258	294,388	403,870	10,652	2%
TN	681	46	424	1,151	597	554	25	4%
	5,346,416	28,795	59,529	5,434,740	1,445,228	3,989,512	197,510	4%
TX	4,489	785	1,225	6,499	5,360	1,139	280	6%
	22,674,849	321,559	245,421	23,241,829	6,936,466	16,305,363	872,721	4%
UT	451	63	433	947	817	130	39	9%
	2,490,321	27,582	68,476	2,586,379	778,203	1,808,176	120,478	5%
VA	1,263	602	1,293	3,158	2,782	376	162	13%
	6,083,683	305,751	216,406	6,605,840	854,156	5,751,684	658,592	11%
VT	435	234	678	1,347	1,212	135	64	15%
	514,473	43,024	164,736	722,233	348,140	374,093	34,977	7%
WA	2,274	315	1,541	4,130	3,983	147	264	12%
	5,597,194	138,684	415,122	6,151,000	4,425,417	1,725,583	377,592	7%
WI	1,086	907	9,376	11,369	11,320	49	54	5%
	3,858,783	190,514	689,414	4,738,711	3,000,181	1,738,530	291,652	8%
WV	536	154	534	1,224	861	363	34	6%
	1,442,234	44,510	34,899	1,521,643	306,972	1,214,671	70,367	5%
WY	276	87	385	748	632	116	15	5%
	439,026	18,947	76,068	534,041	189,317	344,724	5,140	1%
	51,407	19,025	87,328	157,760	144,165	13,595	4,280	
	265,832,109	5,689,550	18,424,977		109,753,765	180,192,871	22,815,199	

## FY2004 water system data--Tribal

Active, current systems, from SDWIS/FED 04Q4 frozen inventory table

Key: # systems  
Pop served

Health-based (Treatment Technique & Maximum Contaminant Level) violations, from 04Q4 frozen violations table

Region	CWS			Total	Ground		Surface		CWSs w/ reported health-based violations	
	NTNCWS	TNCWS								
01	1	2	3	6	6				0%	
	120	60	670	850	850				0%	
02	8		3	11	10		1		0%	
	7,650		300	7,950	5,150		2,800		0%	
04	16	2	18	36	35		1		0%	
	97,167	1,107	2,035	100,309	90,809		9,500		0%	
05	78	31	9	118	116		2		2	3%
	82,310	26,995	1,338	110,643	110,154		489		14,846	18%
06	45	18	13	76	73		3		3	7%
	59,065	24,527	743	84,335	81,005		3,330		1,780	3%
07	9		4	13	12		1		0%	
	6,173		525	6,698	6,200		498		0%	
08	106	9	5	120	101		19		14	13%
	80,508	5,816	435	86,759	62,227		24,532		5,256	7%
09	243	41	42	326	297		29		48	20%
	242,753	54,221	5,773	302,747	279,290		23,457		34,363	14%
10	79	15	12	106	97		9		2	3%
	36,645	7,369	14,021	58,035	39,130		18,905		560	2%
Navajo Nation	154	3	6	163	153		10		4	3%
	180,090	3,969	8,834	192,893	166,311		26,582		19,079	11%
	739	121	115	975	900		75		73	
	792,481	124,064	34,674		841,126		110,093		75,884	

## FY2004 water system data--Commonwealths and Territories

Active, current systems, from SDWIS/FED 04Q4 frozen inventory table

Key: # systems  
Pop served

Health-based (Treatment Technique & Maximum Contaminant Level) violations, from 04Q4 frozen violations table

	CWS			Total	Ground		Surface		CWSs w/ reported health-based violations	
	NTNCWS	TNCWS								
Amer.	22			22	12		10		17	77%
Samoa	52,458			52,458	49,618		2,840		51,944	99%
Guam	10	2		12	8		4		0%	
	109,070	770		109,840	20,990		88,850		0%	
N. Marianas	79	32	17	128	124		4		0%	
	99,923	8,588	2,045	110,556	44,074		66,482		0%	
Puerto Rico	467	56	6	529	284		245		284	61%
	5,507,481	45,845	2,339	5,555,665	833,097		4,722,568		4,341,713	79%
Palau	16	2		18	2		16		0%	
	12,060	1,163		13,223	400		12,823		0%	
Virgin Islands	98	137	117	352	3		349		6	6%
	90,095	63,340	20,625	174,060	4,548		169,512		438	0%
	692	229	140	1,061	433		628		307	
	5,871,087	119,706	25,009		952,727		5,063,075		4,394,095	

## 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 2008, 95% of the population served by community water systems will receive drinking water that meets all applicable health-based drinking water standards through effective treatment and source water protection. (2002 Baseline: 93.6 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.

	Nationally	By EPA region									
		1	2	3	4	5	6	7	8	9	10
2004	90%	93%	80%	85%	93%	96%	92%	92%	92%	86%	93%
2003	90%	89%	54%	95%	93%	95%	93%	93%	92%	98%	93%
2002	94%	88%	81%	98%	96%	94%	93%	95%	97%	99%	91%
2001	91%	65%	77%	98%	95%	92%	96%	90%	94%	97%	83%
2000	91%	62%	76%	97%	95%	95%	96%	95%	94%	94%	83%
1999	91%	75%	61%	98%	95%	95%	95%	95%	94%	97%	94%
1998	89%	64%	60%	97%	95%	95%	95%	94%	93%	95%	89%
1997	87%	62%	55%	97%	93%	92%	93%	95%	91%	95%	74%
1996	86%	60%	53%	92%	93%	92%	94%	95%	92%	91%	74%
1995	84%	57%	52%	91%	92%	92%	88%	95%	90%	88%	75%
1994	83%	57%	55%	87%	90%	88%	87%	94%	91%	90%	87%
1993	79%	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 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 table

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 Targets for Standards In Place Before 12/2001

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 Targets: by 2008, 95% of community water systems and 95% of the population served by them will provide drinking water that meets all existing health-based standards with which systems need to comply as of December 2001. (2002 Baseline: 93.6% of the population, 91.6 percent of systems).

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.

### % Population served

		By EPA region									
Nationally		1	2	3	4	5	6	7	8	9	10
2004	92%	94%	86%	92%	95%	96%	96%	93%	93%	86%	93%
2003	91%	90%	59%	97%	94%	95%	96%	94%	93%	98%	93%
2002	94%	88%	81%	98%	96%	94%	94%	95%	97%	99%	91%

**% Systems** The systems measure was added to provide context to the population-based measure because it is less volatile and is not biased towards large systems.

		By EPA region									
Nationally		1	2	3	4	5	6	7	8	9	10
2004	92%	87%	90%	92%	94%	93%	93%	90%	92%	92%	87%
2003	92%	86%	90%	93%	93%	94%	93%	89%	92%	95%	88%
2002	92%	86%	89%	92%	94%	93%	93%	87%	92%	95%	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) and Treatment Technique (TT) violations.

Population data are based on active, current water systems

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 Targets for Standards In Place After 2001

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 Targets: by 2008, 80% of community water systems and 95% of the population served by them will provide drinking water that meets all existing health-based standards with a compliance date of January 2002 or later.

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.

Applicable standards in FY2004:

- \* Interim Enhanced Surface Water Treatment Rule--CWSs w/ surface water sources serving 10,000 or more people
- \* Disinfection By-Products (DBP) Rule for CWSs that disinfect. In FY2003, this rule applied to systems serving >10,000 people

### % Population served

Nationally		By EPA region									
		1	2	3	4	5	6	7	8	9	10
2004	97%	99%	84%	92%	98%	100%	96%	99%	99%	100%	100%
2003	96%	98%	79%	98%	98%	100%	94%	97%	99%	100%	100%

**% Systems:** The systems measure was added to provide context to the population-based measure because it is less volatile and is not biased towards large systems.

Nationally		By EPA region									
		1	2	3	4	5	6	7	8	9	10
2004	99%	99%	99%	100%	99%	100%	98%	99%	99%	100%	100%
2003	93%	96%	76%	93%	94%	99%	86%	92%	98%	100%	100%
		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 all active Community Water Systems

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.

# CWS violations reported

## by FY

FY2004 data from SDWIS/FED 04Q4 frozen tables, except for Chem M/Rs which will be from 05Q1  
 FY2003 data from SDWIS/FED 03Q4 frozen tables, except for Chem M/Rs which are from 04Q1  
 FY2002 data from SDWIS/FED 02Q4 frozen tables, except for Chem M/Rs which are from 03Q1  
 FY2001 data from SDWIS/FED 01Q4 frozen tables, except for Chem M/Rs which are from 02Q1  
 FY2000 data from SDWIS/FED 00Q4 frozen tables, except for Chem M/Rs which are from 01Q1

### Number of violations

FY	MCL	MRDL	TT	M/R	Other*	Total
2004	5,562	6	2,168		14,459	
2003	4,884	1	2,299	68,840	12,671	88,695
2002	4,693		2,408	80,635	11,759	99,495
2001	5,231		2,493	63,476	11,455	82,655
2000	4,754		3,053	51,912	10,634	70,353

### Number of systems in violation

FY	MCL	MRDL	TT	M/R	Other*	Total *
2004	3,455	4	1,409		8,947	
2003	3,069	1	1,458	12,880	8,109	20,343
2002	3,193		1,482	12,430	8,386	20,232
2001	3,241		1,572	13,639	8,631	20,996
2000	3,161		1,682	13,736	8,937	21,308

### Population affected

FY	MCL	MRDL	TT	M/R	Other*	Total *
2004	15,060,424	3,617	16,588,301		17,833,120	
2003	16,082,938	2,250	16,969,087	49,812,213	12,726,332	81,672,086
2002	8,800,095		9,245,467	32,503,639	17,809,478	56,644,512
2001	11,165,733		15,474,893	52,618,908	25,780,359	77,845,089
2000	11,947,655		15,394,154	34,186,550	13,881,076	62,921,077

## by system size

### Number of violations

	MCL	MRDL	TT	M/R	Other	Total
Very small	3,236	5	1,126		10,610	
Small	1,319	1	566		2,862	
Medium	467		223		599	
Large	508		221		362	
Very large	32		32		26	

### Number of systems in violation

	MCL	MRDL	TT	M/R	Other	Total *
Very small	2,032	3	808		6,215	
Small	806	1	365		2,002	
Medium	324		107		438	
Large	279		112		270	
Very large	14		17		22	

### Population affected

	MCL	MRDL	TT	M/R	Other	Total *
Very small	321,189	729	138,990		972,645	
Small	1,137,506	2,888	526,429		2,622,772	
Medium	1,899,602		626,595		2,522,833	
Large	6,498,620		3,144,929		7,134,959	
Very large	5,203,507		12,151,358		4,579,911	

\* 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.

FY2003 and 2004 compliance information includes new DBP and IESWTR rules

## NTNCWS violations reported by FY

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

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

FY2002 data from SDWIS/FED 02Q4 frozen tables, except for Chem M/Rs which are from 03Q1

FY2001 data from SDWIS/FED 01Q4 frozen tables, except for Chem M/Rs which are from 02Q1

FY2000 data from SDWIS/FED 00Q4 frozen tables, except for Chem M/Rs which are from 01Q1

### Number of violations

FY	MCL	MRDL	TT	M/R	Other	Total
2004	1,381		681		538	
2003	1,391		680		503	
2002	1,336		720		227	
2001	1,258		696		305	
2000	1,243		834		210	

### Number of systems in violation

FY	MCL	MRDL	TT	M/R	Other	Total *
2004	1,033		474		356	
2003	1,029		495		317	
2002	1,005		529		155	
2001	921		515		213	
2000	925		580		169	

### Population affected

FY	MCL	MRDL	TT	M/R	Other	Total *
2004	288,280		130,242		88,003	
2003	266,522		140,053		85,026	
2002	302,322		165,522		57,016	
2001	359,556		222,120		82,910	
2000	276,758		216,701		37,941	

## TNCWS violations reported by FY

### Number of violations

FY	MCL	MRDL	TT	M/R	Other	Total
2004	5,032		415		3,028	
2003	5,082		573		8,640	
2002	4,837		626		2,339	
2001	4,596		677		1,467	
2000	4,408		309		915	

### Number of systems in violation

FY	MCL	MRDL	TT	M/R	Other	Total *
2004	3,974		195		1,697	
2003	4,071		245		3,685	
2002	3,858		249		1,142	
2001	3,687		256		826	
2000	3,632		177		656	

### Population affected

FY	MCL	MRDL	TT	M/R	Other	Total *
2004	549,673		51,915		234,291	
2003	541,950		40,518		340,950	
2002	504,967		60,692		137,795	
2001	558,780		46,987		118,847	
2000	506,759		44,406		78,759	

\* 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.

**FY2003 and 2004 compliance information includes new DBP and IESWTR rules**

# FY2004 MCL, MRDL and TT violations reported

From SDWIS/FED 04Q4 frozen violations table

Key: # violations  
# systems  
Pop. affected

	Very small 25-500	Small 501-3,300	Medium 3,301-10,000	Large 10,001-100,00	Very Large >100,000	Total
<b>Microbials:</b> Applies to all water systems						
<b>TCR/T</b>	7,629	942	268	242	18	9,099
	5,939	754	241	194	11	7,139
	658,437	965,775	1,434,325	4,335,013	3,989,416	11,382,966
Applies to surface water systems that disinfect ( TNCWSs that use ClO2)						
<b>Stage 1 DBP</b>	110	273	124	223	11	741
	75	162	64	97	5	403
	13,613	239,795	359,708	2,355,202	4,629,814	7,598,132
Applies to surface water systems						
<b>SWTR</b>	945	394	175	29	8	1,551
	516	222	75	25	6	844
	85,889	311,309	432,884	703,988	6,715,034	8,249,104
Applies to surface water systems serving >=10K people						
<b>IESWTR</b>	2	5		110	13	130
	2	4		46	6	58
	129	4,093		1,460,032	2,519,510	3,983,764
<b>Organics:</b> Applies to CWS and NTNCWS						
<b>VOC</b>	80	3	7	8		98
	44	3	3	6		56
	3,698	6,339	17,633	169,877		197,547
<b>SOC</b>	18	6	2	3		29
	13	3	2	2		20
	1,655	4,593	8,835	100,000		115,083
<b>Inorganics:</b> Applies to CWS and NTNCWS						
<b>Nitrates</b>	722	136	8	4		870
	469	69	5	3		546
	49,376	73,185	28,556	60,402		211,519
<b>Arsenic</b>	51	11	6	4		72
	28	7	2	3		40
	4,018	10,497	8,940	48,324		71,779
<b>Other IOC</b>	262	38	12	4		316
	129	23	6	4		162
	21,368	33,135	41,350	214,333		310,186
Applies to CWS						
<b>Radionuclides</b>	311	193	50	60	4	618
	122	71	18	18	1	230
	23,381	94,217	95,959	372,153	106,221	691,931
Applies to CWS and NTNCWS						
<b>Lead &amp; Copper</b>	1,073	256	38	25	6	1,398
	830	209	31	22	3	1,095
	123,037	276,427	189,019	589,483	1,040,814	2,218,780

**Acronyms:**

TCR/T = Total Coliform Rule/Turbidity

SWTR = Surface Water Treatment Rule

IESWTR = Interim Enhanced Surface Water Treatment Rule

DBP = Disinfectants By-Products Rule

VOC = Regulated volatile organic contaminants (e.g., Benzene) other than TTHMs (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

# FY2004 Monitoring violations reported

From SDWIS/FED 04Q4 frozen violations table (except for Chem M/Rs)

Chem M/R data will be from SDWIS/FED 05Q1 frozen violations table, which will be frozen in April

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/T</b>	30,311	2,915	383	233	20	33,862
	17,851	1,767	289	166	18	20,091
	1,819,497	2,167,938	1,637,496	4,754,595	7,955,803	18,335,329

	Very small 25-500	Small 501-3,300	Medium 3,301-10,000	Large 10,001-100,000	Very Large >100,000	Total
Applies to surface water systems that disinfect ( TNCWSs that use ClO2)						
<b>Stage 1 DBP</b>	2,284	885	250	237	21	3,677
	760	386	120	140	7	1,413
	137,481	519,075	726,687	3,500,020	3,770,667	8,653,930

	Very small 25-500	Small 501-3,300	Medium 3,301-10,000	Large 10,001-100,000	Very Large >100,000	Total
Applies to surface water systems						
<b>SWTR</b>	2,227	620	123	57	9	3,036
	427	165	71	33	5	701
	72,497	216,099	405,911	1,169,644	3,867,870	5,732,021

	Very small 25-500	Small 501-3,300	Medium 3,301-10,000	Large 10,001-100,000	Very Large >100,000	Total
Applies to surface water systems serving >=10K people						
<b>IESWTR</b>			3	61	7	71
			2	24	4	30
			14,273	674,162	2,391,250	3,079,685

**Organics:** Applies to CWS and NTNCWS

<b>VOC</b>						
<b>SOC</b>						

**Inorganics:** Applies to CWS and NTNCWS

<b>Nitrates</b>						
<b>Arsenic</b>						
<b>Other IOC</b>						

Applies to CWS

<b>Radionuclides</b>						
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Applies to CWS and NTNCWS

	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>	9,773	1,857	331	193	21	12,175
	6,667	1,297	254	138	14	8,370
	921,199	1,606,104	1,429,897	3,689,863	7,468,972	15,116,035

**Acronyms:**

TCR/T = Total Coliform Rule/Turbidity

SWTR = Surface Water Treatment Rule

IESWTR = Interim Enhanced Surface Water Treatment Rule

DBP = Disinfectants By-Products Rule

VOC = Regulated volatile organic contaminants (e.g., Benzene) other than TTHMs (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

	<b>Class I hazardous waste wells</b>	<b>Class I non- hazardous waste wells</b>	<b>Class II wells</b>	<b>Class III facilities (which may contain multiple wells)</b>	<b>Class III wells</b>	<b>Class IV facilities (which may contain multiple wells)</b>
AK		6	925			
AL			347	1	3	
AR	6	10	1,078			
AZ				3	15	
CA		6	24,955	1	73	
CO		5	787	2	35	
FL	1	136	64			
IA			1			
IL	3	1	8,949			
IN	4	7	1,340			
KS	6	44	16,371	5	157	
KY		1	3,429			
LA	17	28	3,824	15	67	
MI	9	15	1,459	3	22	
MO			211			
MS	6	1	881			
MT			897			
ND		2	377			
NE		1	704	1	1,879	
NM		5	5,577	19	104	
NV			12			
NY		1	503	6	126	
OH	10	2	2,890	3	47	1
OK		11	11,448	1	1	
OR			2			
PA		10	1,897	1	10	
SD			63			
TN			14			
TX	60	46	51,998	86	5,789	
UT			256	1	4	2
VA		3	252	1	3	1
WA			1			
WV			700	3	31	
WY		23	4,666	12	8,211	1
EPA R2 tribal			12			
EPA R6 tribal	1		2,674			
EPA R8 tribal			723			
EPA R9 tribal			542			
	122	364	146,878	164	16,577	5