



FACTOIDS: Drinking Water and Ground Water Statistics for 2002

Office of Ground Water and
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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 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. The underground injection control program statistics are based on separate reporting from the states to EPA. 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]

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]

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]

FY2002 Drinking Water Factoids

Public Water System Inventory data

Active, current systems, from Safe Drinking Water Information System/Federal version (SDWIS/FED) 02Q4 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
CWS	# systems	30,703	14,331	4,606	3,436	361	53,437
	Pop. served	5,044,743	20,179,648	26,716,617	96,258,363	119,523,295	267,722,666
	% of systems	57%	27%	9%	6%	1%	100%
	% of pop	2%	8%	10%	36%	45%	100%
NTNCWS	# systems	15,887	2,690	93	14	3	18,687
	Pop. served	2,217,679	2,643,065	467,436	324,563	380,046	6,032,789
	% of systems	85%	14%	0%	0%	0%	100%
	% of pop	37%	44%	8%	5%	6%	100%
TNCWS	# systems	86,384	2,685	100	17	6	89,192
	Pop. served	7,337,976	2,645,455	538,268	369,813	11,958,001	22,849,513
	% of systems	97%	3%	0%	0%	0%	100%
	% of pop	32%	12%	2%	2%	52%	100%
Total # systems		132,974	19,706	4,799	3,467	370	161,316

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
CWS	# systems	41,691	11,746	53,437
	Pop. served	84,025,121	183,697,545	267,722,666
	% of systems	78%	22%	100%
	% of pop	31%	69%	100%
NTNCWS	# systems	17,931	756	18,687
	Pop. served	5,297,615	735,174	6,032,789
	% of systems	96%	4%	100%
	% of pop	88%	12%	100%
TNCWS	# systems	87,130	2,062	89,192
	Pop. served	12,107,193	10,742,320	22,849,513
	% of systems	98%	2%	100%
	% of pop	53%	47%	100%
Total # systems		146,752	14,564	161,316
		101,429,929	195,175,039	

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 02Q4 tables are "frozen" in early January 2003

FY2002 water system data--by State

Key: # systems
pop. served

Active, current systems, from SDWIS/FED 02Q4 frozen inventory table

Health-based (Treatment Technique & Maximum Contaminant Level) violations, from 02Q4 frozen violations table

	CWS	NTNCWS	TNCWS	Total	Ground	Surface	CWSs w/ reported health-based violations	
AK	433	209	931	1,573	1,333	240	60	14%
	456,465	44,695	96,172	597,332	294,836	302,496	27,089	6%
AL	581	33	77	691	424	267	20	3%
	5,113,337	19,648	7,578	5,140,563	1,482,263	3,658,300	125,802	2%
AR	728	122	280	1,130	710	420	85	12%
	2,440,174	13,218	16,510	2,469,902	918,912	1,550,990	159,713	7%
AZ	796	208	653	1,657	1,430	227	103	13%
	4,714,686	139,092	137,770	4,991,548	1,371,351	3,620,197	262,467	6%
CA	3,031	72	2,897	6,000	5,044	956	54	2%
	31,646,479	21,284	10,963,062	42,630,825	8,168,520	34,462,305	105,866	0%
CO	907	179	1,008	2,094	1,634	460	58	6%
	4,437,972	81,605	1,233,645	5,753,222	1,694,430	4,058,792	57,080	1%
CT	578	667	1,803	3,048	2,981	67	67	12%
	2,673,210	126,720	62,348	2,862,278	487,230	2,375,048	98,684	4%
DC	2			2		2		0%
	595,000			595,000		595,000		0%
DE	246	100	215	561	556	5	14	6%
	817,003	26,535	50,897	894,435	427,805	466,630	25,735	3%
FL	1,945	1,053	3,487	6,485	6,421	64	84	4%
	16,126,113	269,467	304,128	16,699,708	14,242,553	2,457,155	605,569	4%
GA	1,664	262	589	2,515	2,302	213	65	4%
	7,049,878	73,497	91,957	7,215,332	1,642,076	5,573,256	139,398	2%
HI	116	9	4	129	113	16	5	4%
	1,285,174	6,385	500	1,292,059	1,169,290	122,769	55,378	4%
IA	1,144	150	665	1,959	1,808	151	68	6%
	2,494,781	48,805	83,237	2,626,823	1,478,768	1,148,055	61,680	2%
ID	742	243	1,057	2,042	1,965	77	75	10%
	909,087	48,794	116,611	1,074,492	1,007,173	67,319	73,492	8%
IL	1,798	434	3,445	5,677	4,983	694	164	9%
	11,231,157	156,425	383,301	11,770,883	3,330,456	8,440,427	732,214	7%
IN	865	692	2,815	4,372	4,237	135	77	9%
	4,467,086	209,888	388,634	5,065,608	2,759,006	2,306,602	131,682	3%
KS	918	60	103	1,081	751	330	80	9%
	2,512,616	25,390	4,019	2,542,025	810,072	1,731,953	86,361	3%
KY	439	64	158	661	290	371	18	4%
	4,431,770	25,591	11,748	4,469,109	370,075	4,099,034	203,249	5%
LA	1,146	198	352	1,696	1,612	84	101	9%
	4,847,721	84,877	73,199	5,005,797	3,009,656	1,996,141	306,293	6%
MA	519	244	914	1,677	1,498	179	92	18%
	8,910,402	68,239	143,447	9,122,088	2,195,101	6,926,987	1,340,460	15%
MD	499	565	2,705	3,769	3,674	95	29	6%
	4,438,678	160,902	159,609	4,759,189	852,193	3,906,996	7,622	0%
ME	392	375	1,226	1,993	1,910	83	80	20%
	614,879	72,785	199,389	887,053	457,679	429,374	82,526	13%
MI	1,470	1,744	8,966	12,180	11,872	308	74	5%
	7,208,799	484,444	1,264,039	8,957,282	3,446,294	5,510,988	239,806	3%
MN	957	584	6,403	7,944	7,832	112	29	3%
	4,006,972	97,749	453,067	4,557,788	3,130,897	1,426,891	519,812	13%
MO	1,453	254	1,027	2,734	2,485	249	214	15%
	4,818,596	80,491	136,850	5,035,937	1,806,740	3,229,197	223,727	5%
MS	1,187	98	122	1,407	1,403	4	64	5%
	2,969,491	81,440	25,015	3,075,946	2,755,467	320,479	300,154	10%

FY2002 water system data--by State, cont.

Key: # systems
Pop served

Active, current systems, from SDWIS/FED 02Q4 frozen inventory table

Health-based (Treatment Technique & Maximum Contaminant Level) violations, from 02Q4 frozen violations table

	CWS	NTNCWS	TNCWS	Total	Ground	Surface	CWSs w/ reported health-based violations	
MT	663	225	1,124	2,012	1,792	220	60	9%
	673,591	65,603	172,677	911,871	505,361	406,510	41,808	6%
NC	2,401	625	4,699	7,725	7,105	620	233	10%
	6,222,140	177,672	410,067	6,809,879	1,987,636	4,822,243	293,573	5%
ND	318	28	184	530	447	83	32	10%
	551,147	3,867	15,858	570,872	264,532	306,340	15,305	3%
NE	614	178	575	1,367	1,290	77	188	31%
	1,434,494	39,444	54,530	1,528,468	753,365	775,103	231,612	16%
NH	684	443	1,042	2,169	2,112	57	101	15%
	784,663	91,515	214,588	1,090,766	566,838	523,928	191,680	24%
NJ	603	879	2,661	4,143	4,043	100	37	6%
	7,811,222	247,794	372,360	8,431,376	3,109,288	5,322,088	299,758	4%
NM	615	154	477	1,246	1,204	42	61	10%
	1,580,722	45,205	181,870	1,807,797	1,587,458	220,339	134,633	9%
NV	258	106	249	613	580	33	36	14%
	1,922,052	34,979	24,760	1,981,791	279,117	1,702,674	41,372	2%
NY	2,859	775	6,578	10,212	9,038	1,174	124	4%
	17,762,575	335,362	827,869	18,925,806	5,473,196	13,452,610	1,630,869	9%
OH	1,354	1,039	3,264	5,657	5,238	419	88	6%
	10,069,425	261,023	510,137	10,840,585	3,540,262	7,300,323	232,855	2%
OK	1,159	117	387	1,663	938	725	75	6%
	3,419,905	18,944	37,668	3,476,517	691,801	2,784,716	632,341	18%
OR	889	341	1,477	2,707	2,404	303	149	17%
	2,833,821	75,136	223,665	3,132,622	836,956	2,295,666	232,004	8%
PA	2,169	1,244	6,704	10,117	9,548	569	96	4%
	10,377,016	509,069	834,761	11,720,846	2,816,797	8,904,049	285,421	3%
RI	84	69	333	486	461	25	2	2%
	1,268,719	24,398	57,826	1,350,943	211,374	1,139,569	300	0%
SC	672	202	597	1,471	1,249	222	77	11%
	3,309,998	66,835	37,014	3,413,847	690,825	2,723,022	142,898	4%
SD	469	32	196	697	566	131	29	6%
	650,745	3,877	33,439	688,061	296,093	391,968	11,651	2%
TN	668	50	447	1,165	609	556	31	5%
	5,337,935	31,239	52,962	5,422,136	1,454,309	3,967,827	152,010	3%
TX	4,513	795	1,275	6,583	5,420	1,163	240	5%
	21,807,918	321,325	256,261	22,385,504	6,722,163	15,663,341	998,095	5%
UT	455	68	441	964	832	132	50	11%
	3,687,363	46,300	79,595	3,813,258	763,101	3,050,157	184,509	5%
VA	1,320	593	1,662	3,575	3,186	389	187	14%
	7,332,834	373,614	788,875	8,495,323	1,513,844	6,981,479	203,074	3%
VT	442	226	700	1,368	1,229	139	49	11%
	502,007	41,436	103,972	647,415	289,672	357,743	26,365	5%
WA	2,281	307	1,581	4,169	3,894	275	258	11%
	5,283,667	258,659	283,542	5,825,868	2,775,801	3,050,067	506,706	10%
WI	1,110	954	9,434	11,498	11,450	48	108	10%
	3,764,549	197,017	703,683	4,665,249	2,938,453	1,726,796	594,666	16%
WV	556	171	559	1,286	897	389	48	9%
	1,407,509	55,402	39,411	1,502,322	311,329	1,190,993	93,101	7%
WY	272	88	377	737	626	111	10	4%
	434,709	17,747	74,745	527,201	185,112	342,089	2,153	0%
	51,984	18,328	88,925	159,237	145,426	13,811	4,149	
	261,448,252	5,811,428	22,798,867		99,873,526	190,185,021	13,150,618	

FY2002 water system data--Tribal systems

Key:

systems
Pop served

Active, current systems, from SDWIS/FED 02Q4 frozen inventory table

Health-based (Treatment Technique & Maximum Contaminant Level) violations, from 02Q4 frozen violations table

Region	CWS	NTNCWS	TNCWS	Total	Ground	Surface	CWSs w/ reported health-based violations	
01	1	2	3	6	6			0%
	120	60	670	850	850			0%
02	7		1	8	7	1		0%
	4,200		150	4,350	2,600	1,750		0%
04	13	3	23	39	37	2	1	8%
	15,347	1,225	3,360	19,932	10,407	9,525	460	3%
05	78	36	9	123	121	2	5	6%
	79,968	25,019	1,346	106,333	105,844	489	882	1%
06	45	16	16	77	73	4	10	22%
	56,834	11,050	843	68,727	65,372	3,355	18,612	33%
07	9		4	13	12	1	2	22%
	6,173		525	6,698	6,200	498	3,250	53%
08	108	8	1	117	98	19	9	8%
	67,917	4,556	150	72,623	51,661	20,962	4,192	6%
09	415	37	44	496	460	36	8	2%
	348,584	44,014	15,314	407,912	360,490	47,422	18,893	5%
10	78	11	6	95	88	7	14	18%
	38,474	6,939	1,846	47,259	37,484	9,775	8,789	23%
	754	113	107	974	902	72	49	
	617,617	92,863	24,204		640,908	93,776	55,078	

FY2002 water system data--Commonwealths and Territories

Active, current systems, from SDWIS/FED 02Q4 frozen inventory table

Key:

systems
Pop served

Health-based (Treatment Technique & Maximum Contaminant Level) violations, from 02Q4 frozen violations table

	CWS	NTNCWS	TNCWS	Total	Ground	Surface	CWSs w/ reported health-based violations	
Amer. Samoa	22			22	12	10	17	77%
	52,458			52,458	49,618	2,840	51,733	99%
Guam	10	2		12	8	4		0%
	109,070	770		109,840	20,990	88,850		0%
N. Marianas Islands	80	35	15	130	127	3		0%
	103,435	9,751	1,754	114,940	51,389	63,551		0%
Puerto Rico	453	51	6	510	271	239	263	58%
	5,281,598	44,923	2,414	5,328,935	788,525	4,540,410	3,865,975	73%
Palau	16	2		18	2	16		0%
	12,060	1,163		13,223	400	12,823		0%
Virgin Islands	118	156	139	413	4	409	11	9%
	98,176	71,891	22,274	192,341	4,573	187,768	2,975	3%
	699	246	160	1,105	424	681	291	
	5,656,797	128,498	26,442		915,495	4,896,242	3,920,683	

Government Performance and Results Act--PWSS measure

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's goal is that by 2005, the population served by community water systems providing drinking water that meets all existing health-based standards will increase to 95% from a baseline of 83% in 1994.

Nationally

2002	94%
2001	91%
2000	91%
1999	91%
1998	89%
1997	87%
1996	86%
1995	84%
1994	83%
1993	79%

By region

	1	2	3	4	5	6	7	8	9	10
2002	88%	81%	98%	96%	94%	93%	95%	97%	99%	91%
2001	65%	77%	98%	95%	92%	96%	90%	94%	97%	83%
2000	62%	76%	97%	95%	95%	96%	95%	94%	94%	83%
1999	75%	61%	98%	95%	95%	95%	95%	94%	97%	94%
1998	64%	60%	97%	95%	95%	95%	94%	93%	95%	89%
1997	62%	55%	97%	93%	92%	93%	95%	91%	95%	74%
1996	60%	53%	92%	93%	92%	94%	95%	92%	91%	74%
1995	57%	52%	91%	92%	92%	88%	95%	90%	88%	75%
1994	57%	55%	87%	90%	88%	87%	94%	91%	90%	87%
1993	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) and Treatment Technique (TT) violations.

Population data are based on active, current water systems

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.

CWS violations reported by FY

FY2002 data from SDWIS/FED 02Q4 frozen tables, except for Chem M/Rs which will be 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
FY1999 data from SDWIS/FED 99Q4 frozen tables, except for Chem M/Rs which are from 00Q1
FY1998 data from SDWIS/FED 98Q4 frozen tables, except for Chem M/Rs which are from 99Q1
FY1997 and earlier data from SDWIS 98Q1 frozen tables

Number of violations

FY	MCL	TT	M/R	Other*	Total
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
1999	5,497	2,202	56,307	1,025	65,031
1998	6,315	2,503	52,998	1,614	63,430
1997	5,785	2,707	63,432	1,473	73,397

Number of systems in violation

FY	MCL	TT	M/R	Other*	Total	**
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	
1999	3,298	1,046	9,259	618	11,946	
1998	3,733	1,095	9,853	893	12,868	
1997	3,710	1,094	10,809	861	13,864	

Population affected

FY	MCL	TT	M/R	Other*	Total	**
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	
1999	11,078,268	15,854,547	19,829,544	2,528,920	38,124,231	
1998	10,384,541	18,483,671	28,227,720	2,366,440	48,858,948	
1997	13,843,906	22,056,053	27,179,042	3,879,561	58,038,069	

by system size

Number of violations

	MCL	TT	M/R	Other	Total
Very small	2,959	1,279	59,415	8,805	72,458
Small	1,066	662	12,787	2,127	16,642
Medium	341	226	4,488	492	5,547
Large	322	222	3,363	311	4,218
Very large	5	19	582	24	630

Number of systems in violation

	MCL	TT	M/R	Other	Total	**
Very small	1,957	852	8,827	5,981	13,739	
Small	747	380	2,440	1,715	4,324	
Medium	255	117	681	406	1,230	
Large	230	121	446	265	880	
Very large	4	12	36	19	59	

Population affected

	MCL	TT	M/R	Other	Total	**
Very small	315,482	144,807	1,305,352	891,397	2,091,341	
Small	1,058,335	522,157	3,270,854	2,287,317	5,870,368	
Medium	1,591,865	681,352	3,923,829	2,306,454	7,191,586	
Large	5,147,835	3,437,504	11,439,407	6,933,662	22,750,279	
Very large	686,578	4,459,647	12,564,197	5,390,648	18,740,938	

* Jump in FY2000 due to new violations for failing to issue, or issuing an insufficient, Consumer Confidence report

** 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.

NTNCWS violations reported by FY

FY2002 data from SDWIS/FED 02Q4 frozen tables, except for Chem M/Rs which will be 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
FY1999 data from SDWIS/FED 99Q4 frozen tables, except for Chem M/Rs which are from 00Q1
FY1998 data from SDWIS/FED 98Q4 frozen tables, except for Chem M/Rs which are from 99Q1
FY1997 and earlier data from SDWIS/FED 98Q1 frozen tables

Number of violations

FY	MCL	TT	M/R	Other	Total
2002	1,336	720	38,805	227	41,088
2001	1,258	696	32,847	305	35,106
2000	1,243	834	23,138	210	25,425
1999	1,369	272	27,487	145	29,273
1998	1,324	179	26,612	256	28,371
1997	1,389	227	27,913	156	29,685

Number of systems in violation

FY	MCL	TT	M/R	Other	Total *
2002	1,005	529	5,322	155	6,267
2001	921	515	5,368	213	6,241
2000	925	580	5,513	169	6,445
1999	995	190	3,852	101	4,650
1998	959	109	4,067	164	4,810
1997	1,023	107	4,772	108	5,531

Population affected

FY	MCL	TT	M/R	Other	Total *
2002	302,322	165,522	1,566,034	57,016	1,897,686
2001	359,556	222,120	1,616,708	82,910	2,012,850
2000	276,758	216,701	1,759,909	37,941	2,075,184
1999	373,845	56,710	883,464	36,223	1,229,143
1998	244,960	26,063	1,108,715	55,336	1,306,710
1997	285,722	34,087	1,311,222	39,417	1,560,659

TNCWS violations reported by FY

Number of violations

FY	MCL	TT	M/R	Other	Total
2002	4,837	626	39,451	2,339	47,253
2001	4,596	677	38,794	1,467	45,534
2000	4,408	309	35,328	915	40,960
1999	4,967	223	36,651	740	42,581
1998	5,224	287	28,988	2,157	36,656
1997	5,382	390	33,851	1,795	41,418

Number of systems in violation

FY	MCL	TT	M/R	Other	Total *
2002	3,858	249	19,191	1,142	22,193
2001	3,687	256	19,623	826	22,358
2000	3,632	177	17,725	656	20,325
1999	3,862	139	19,658	494	22,185
1998	3,798	94	16,006	1,113	18,773
1997	4,041	134	17,485	971	20,505

Population affected

FY	MCL	TT	M/R	Other	Total *
2002	504,967	60,692	2,154,654	137,795	2,552,563
2001	558,780	46,987	2,385,309	118,847	2,792,810
2000	506,759	44,406	2,568,632	78,759	2,979,498
1999	566,066	39,547	2,220,821	62,786	2,628,376
1998	477,911	58,575	2,071,470	138,161	2,423,132
1997	537,539	64,156	2,205,834	122,530	2,622,932

* 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.

FY2002 MCL and TT violations reported

From SDWIS/FED 02Q4 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
Applies to all water systems						
TCR/T	7,622	1,060	291	220	3	9,196
	5,888	808	229	182	3	7,110
	654,649	1,076,008	1,415,312	4,052,772	580,357	7,779,098

Organics: Applies to CWS and NTNCWS

TTHM (VOC)	8	8		21		37
	5	6		13		24
	397	8,531		208,277		217,205
Other VOC	51	3	3	5		62
	43	3	2	3		51
	5,171	4,570	15,102	61,042		85,885
SOC	8	2	2			12
	7	2	2			11
	748	2,475	8,742			11,965

Inorganics: Applies to CWS and NTNCWS

Nitrates	454	106	11	24		595
	340	70	7	5		422
	42,865	74,752	34,124	144,416		296,157
Other IOC	383	50	15	3		451
	179	27	7	3		216
	28,392	37,595	53,612	133,911		253,510

Applies to CWS

Radionuclides	228	137	36	40	2	443
	134	78	21	20	1	254
	24,947	107,597	123,276	419,044	106,221	781,085

Applies to surface water systems

SWTR	1,297	479	177	149	17	2,119
	602	223	80	68	10	983
	94,666	310,381	466,627	1,923,165	4,146,833	6,941,672

Applies to CWS and NTNCWS

Lead & Copper	1,150	322	57	75	2	1,606
	910	263	45	57	2	1,277
	137,495	314,849	254,121	1,611,723	312,814	2,631,002

Acronyms:

TTHM (VOC) = Total Trihalomethanes

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

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

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

SWTR = Surface Water Treatment Rule

TCR/T = Total Coliform Rule/

FY2002 Monitoring/Reporting violations reported

From SDWIS/FED 02Q4 frozen violations table (except for Chem M/Rs)

Chem M/R data will be from SDWIS/FED 03Q1 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
Applies to all water systems						
TCR/T	33,071	2,616	337	166	12	36,202
	19,140	1,666	255	131	9	21,201
	1,856,258	2,036,031	1,455,461	3,251,681	2,523,098	11,122,529
Organics: Applies to CWS and NTNCWS						
TTHM (VOC)	15	13	6	78	2	114
	9	12	6	47	2	76
	2,029	14,586	30,130	1,184,052	715,335	1,946,132
Other VOC	31,145	5,668	1,559	1,011	203	39,586
	1,692	324	87	69	9	2,181
	237,129	418,785	498,676	1,685,033	3,228,264	6,067,887
SOC	18,213	2,969	1,038	1,167	154	23,541
	1,091	235	84	63	8	1,481
	151,491	291,073	493,414	1,612,220	3,423,332	5,971,530
Inorganics: Applies to CWS and NTNCWS						
Nitrates	16,759	1,052	235	142	29	18,217
	12,278	752	121	80	10	13,241
	1,146,233	934,553	678,950	2,009,942	3,309,464	8,079,142
Other IOC	9,475	1,611	629	294	158	12,167
	1,325	248	73	37	11	1,694
	181,201	326,242	428,475	1,143,623	5,307,188	7,386,729
Applies to CWS						
Radionuclides	261	83	67	44		455
	218	61	20	14		313
	32,667	83,675	118,776	380,988		616,106
Applies to surface water systems						
SWTR	2,471	595	94	46	14	3,220
	515	161	43	30	8	757
	82,801	205,532	260,710	762,909	3,311,941	4,623,893
Applies to CWS and NTNCWS						
Lead & Copper	10,346	1,566	293	162	9	12,376
	6,538	1,136	242	134	9	8,059
	873,624	1,356,709	1,350,925	3,509,707	2,197,713	9,288,678

Acronyms:

TTHM (VOC) = Total Trihalomethanes

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

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

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

SWTR = Surface Water Treatment Rule

TCR/T = Total Coliform Rule/

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

	Class I hazardous waste wells	Class I non- hazardous waste wells	Class II wells	Class III facilities (which may contain multiple wells)	Class III wells	Class IV facilities (which may contain multiple wells)
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