

Environments and Contaminants

Drinking Water Contaminants

Table E7: Estimated percentage of children ages 0 to 17 years served by community water systems that did not meet all applicable health-based drinking water standards, 1993-2009

1993-1997						
Type of standard violated	1993	1994	1995	1996	1997	
Any health-based standard	19.2	15.7	10.7	9.7	9.4	
Total coliforms	10.1	8.6	4.0	4.2	3.5	
Surface water treatment [#]	6.3	5.5	4.1	3.7	3.4	
Lead and copper [†]	2.8	1.7	1.9	1.8	1.8	
Chemical and radionuclide	1.1	0.9	1.3	0.8	1.0	
Nitrate/nitrite	0.3	0.1	0.2	0.2	0.4	

1998-2003						
Type of standard violated	1998	1999	2000	2001	2002	2003
Any health-based standard	8.2	7.6	8.1	5.1	11.8	8.4
Total coliforms	2.9	3.1	2.9	2.1	2.5	3.0
Surface water treatment [#]	2.8	2.4	3.2	1.3	6.3	1.5
Disinfectants and disinfection byproducts	NA‡	NA‡	NA‡	NA‡	1.5	3.0
Lead and copper [†]	1.5	1.4	1.2	1.1	0.8	0.6
Chemical and radionuclide	0.9	0.7	0.8	0.7	0.8	0.8
Nitrate/nitrite	0.6	0.3	0.5	0.2	0.2	0.3

2004-2009						
Type of standard violated	2004	2005	2006	2007	2008	2009
Any health-based standard	10.4	12.6	10.6	7.8	6.7	7.4
Total coliforms	3.5	3.3	2.3	2.4	2.3	2.5
Surface water treatment [#]	3.3	5.2	5.0	2.6	1.5	2.0
Disinfectants and disinfection byproducts	2.6	2.6	1.6	1.4	1.4	1.3
Lead and copper [†]	0.9	0.8	0.4	0.4	0.5	0.8
Chemical and radionuclide	1.1	0.9	1.2	1.2	1.1	1.1
Nitrate/nitrite	0.1	0.1	0.5	0.2	0.1	0.1

DATA: U.S. Environmental Protection Agency, Office of Water, Safe Drinking Water Information System Federal Version

[#] "Surface water treatment" includes violations of the Surface Water Treatment Rule and of the Interim Enhanced Surface Water Treatment Rule.

[†] Lead and copper represents the lead and copper rule, which is a set of standards and implementation measures.

[‡] The standard for disinfectants and disinfection byproducts was first implemented in 2002.

NOTE: A new standard for disinfection byproducts was implemented beginning in 2002 for larger drinking water systems and 2004 for smaller systems.¹ Revisions to the standard for surface water treatment took effect in 2002.² A revised standard for radionuclides went into effect in 2003.³ A revised standard for arsenic went into effect in 2006.⁴ No other revisions to the standards have taken effect during the period of trend data.

Table E8: Estimated percentage of children ages 0 to 17 years served by community water systems with violations of drinking water monitoring and reporting requirements, 1993-2009

1993-1997						
Type of standard violated	1993	1994	1995	1996	1997	
Any violation	19.4	14.1	12.6	10.8	10.5	
Chemical and radionuclide	7.9	5.9	6.3	4.8	4.3	
Lead and copper	6.4	3.8	3.0	3.4	3.9	
Total coliforms	5.5	5.8	4.4	3.7	3.6	
Surface water treatment [#]	1.9	1.1	0.4	0.3	0.3	
1998-2003						
Type of standard violated	1998	1999	2000	2001	2002	2003
Any violation	16.6	15.6	14.8	16.8	20.6	19.1
Chemical and radionuclide	6.3	5.7	4.8	6.4	8.2	8.2
Lead and copper	7.3	7.3	7.9	6.9	6.5	6.7
Total coliforms	4.0	3.5	3.1	4.4	2.7	4.3
Disinfectants and disinfection byproducts	NA‡	NA‡	NA‡	NA‡	1.8	1.7
Surface water treatment [#]	0.3	0.8	0.4	0.3	3.3	2.6
2004-2009						
Type of standard violated	2004	2005	2006	2007	2008	2009
Any violation	19.6	22.5	20.6	22.1	19.2	13.4
Chemical and radionuclide	7.6	6.8	7.9	8.8	5.6	4.1
Lead and copper	7.4	8.0	8.0	7.7	7.4	3.1
Total coliforms	4.7	4.4	4.7	4.4	4.1	3.1
Disinfectants and disinfection byproducts	6.5	6.5	4.7	5.6	3.5	3.5
Surface water treatment [#]	2.9	3.8	2.4	2.1	2.4	1.2

DATA: U.S. Environmental Protection Agency, Office of Water, Safe Drinking Water Information System Federal Version

[#] "Surface water treatment" includes violations of the Surface Water Treatment Rule and of the Interim Enhanced Surface Water Treatment Rule.

‡ The standard for disinfectants and disinfection byproducts was first implemented in 2002.

NOTE: A new standard for disinfection byproducts was implemented beginning in 2002 for larger drinking water systems and 2004 for smaller systems.¹ Revisions to the standard for surface water treatment took effect in 2002.² A revised standard for radionuclides went into effect in 2003.³ A revised standard for arsenic went into effect in 2006.⁴ No other revisions to the standards have taken effect during the period of trend data.