

2011 GPMP Data Summary

Table 3. 2011 Ozone violation summary - primary standard^{a,b}.

National Park Unit	Site Name	2009–2011	2008-2010	2007-2009	2006–2008	2005–2007	2004–2006	2003–2005	2002–2004
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)									
Big Bend	K-Bar Ranch Road	69	64	66	66	66	63	63	62
Canyonlands	Island in the Sky	68	68	70	71	70	70	71	72
Chiricahua	Entrance Station	70	68	66	69	71	72	71	71
Craters of the Moon	Visitor Center	61	62	(64)	(67)	(67)	---	---	67
Death Valley	Park Village	71	72	77	81	84	82	81	80
Denali	Headquarters	53	58	58	58	52	51	52	53
Glacier	West Glacier Horse Stables	51	51	51	53	55	54	56	55
Grand Canyon	The Abyss	69	68	68	70	72	73	74	74
Grand Teton	Science School	(54)	---	---	---	---	---	---	---
Great Basin	Maintenance Yard	70	69	71	72	73	72	72	72
Great Smoky Mountains	Clingmans Dome	(75)	(76)	(79)	(84)	(83)	(80)	(79)	(87)
Great Smoky Mountains	Cove Mountain	75	76	79	82	82	77	78	86
Great Smoky Mountains	Look Rock	77	77	79	85	86	84	86	91
Joshua Tree	Black Rock	93	98	100	104	103	103	105	106
Joshua Tree	Cottonwood Canyon	(78)	(81)	(80)	(79)	(66)	(62)	(45)	---
Lassen Volcanic	Manzanita Lake Fire Station	64	70	74	77	72	69	68	71
Mammoth Cave	Houchin Meadow	70	70	72	74	76	72	73	77
Mesa Verde	Resource Management Area	68	68	69	71	73	73	70	68
Mount Rainier	Tahoma Woods	54	55	56	58	(56)	(58)	(61)	63
Petrified Forest	South Entrance	66	67	(67)	(70)	(70)	(70)	(71)	(66)
Pinnacles	SW of East Entrance Station	70	76	77	79	74	75	76	81
Rocky Mountain	Long's Peak	74	73	74	76	76	74	78	82
Sequoia and Kings Canyon	Ash Mountain	96	(101)	(103)	(105)	(103)	(103)	(105)	(105)
Sequoia and Kings Canyon	Lower Kaweah	79	86	90	96	95	96	97	101
Shenandoah	Big Meadows	71	73	73	75	76	77	(80)	82
Voyageurs	Sullivan Bay	62	(62)	(61)	(61)	(65)	64	66	64
Yellowstone	Water Tank	65	64	64	66	64	63	61	63
Yosemite	Turtleback Dome	77	83	86	(88)	85	86	88	90
Zion	Dalton's Wash	69	69	69	71	78	79	(82)	(74)
# park units with violations (0.08 ppm standard):				3	4	4	3	4	4
# sites with violations:				4	5	5	4	5	7
# park units with violations (0.075 ppm standard):		4	5						
# sites with violations:		6	9						
Sites operated by the NPS for the Bureau of Land Management									
Meeker	Plant Science Center	(64)	(66)	---	---	---	---	---	---
Rangely	Golf Course	(62)	(58)	---	---	---	---	---	---
# units with violations (0.08 ppm standard):				---	---	---	---	---	---
# sites with violations:				---	---	---	---	---	---
# units with violations (0.075 ppm standard):		0	0						
# sites with violations:		0	0						

Table 3. 2011 Ozone violation summary - primary standard^{a,b} (continued).

National Park Unit	Site Name	2009–2011	2008–2010	2007–2009	2006–2008	2005–2007	2004–2006	2003–2005	2002–2004
Sites operated by cooperating state agencies									
<i>Acadia</i>	Cadillac Mountain	74	74	78	79	82	80	82	88
<i>Acadia</i>	McFarland Hill	69	69	73	72	74	71	74	80
<i>Badlands</i>	Visitor Center	54	54	56	62	68	67	(66)	(64)
<i>Cape Cod</i>	Cape Cod	72	74	76	79	84	84	86	88
<i>Chamizal</i>	Chamizal	69	70	71	75	74	73	72	78
<i>Congaree</i>	Congaree Bluff	60	64	66	71	73	72	73	74
<i>Cowpens</i>	State Monitor	66	69	67	74	73	74	75	80
<i>Everglades</i>	Cutler Road	62	67	69	72	69	68	55	(65)
<i>Great Smoky Mountains</i>	Cades Cove	68	69	69	72	70	67	(67)	73
<i>Great Smoky Mountains</i>	Purchase Knob	67	72	74	77	77	75	78	82
<i>Indiana Dunes</i>	Ammunition Bunker	62	(61)	(68)	73	82	75	76	(70)
<i>Mount Rainier</i>	Jackson Visitor's Center	53	(52)	(56)	(59)	61	(60)	(59)	---
<i>Saguaro</i>	East	70	69	71	74	76	76	(76)	(73)
<i>Theodore Roosevelt</i>	Painted Canyon Visitor Cntr	56	57	59	63	63	60	59	60
<i>Wind Cave</i>	Visitor Center	59	(59)	62	66	70	(71)	(70)	---
# park units with violations (0.08 ppm standard):				0	0	0	1	1	2
# sites with violations:				0	0	0	1	1	3
# park units with violations (0.075 ppm standard):				0	0				
# sites with violations:				0	0				

^a The new primary and secondary National Ambient Air Quality Standard for ozone is 0.075 ppm over an 8-hour period. (An exceedance of the standard occurs when an 8-hour average ozone concentration is greater than or equal to 76 ppb. A violation of the standard occurs when the 3-year average of the fourth highest daily maximum 8-hour average ozone concentration equals or exceeds 76 ppb.) For reference, values that would violate the new standard are outlined with a black box. The first 3-year period that the new standard will apply to is 2008-2010.

^b The old primary and secondary National Ambient Air Quality Standard for ozone is 0.08 ppm over an 8-hour period. (An exceedance of the standard occurs when an 8-hour average ozone concentration is greater than or equal to 85 ppb. A violation of the standard occurs when the 3-year average of the fourth highest daily maximum 8-hour average ozone concentration equals or exceeds 85 ppb.) Violations of the old standard are highlighted here in orange and red. The old standard applies to all 3-year periods prior to 2008-2010.

Note: The color coding break points follow the color categories used on the EPA's AIRNow Web Site (<http://www.airnow.gov>).

Operating agency key: plain text = site operated by the National Park Service, Bureau of Land Management, or U.S. Forest Service
italics = site operated by a state agency
underline = site operated by the National Park Service, but consisting of non-EPA certified portable instrumentation

Color shading key: 4th highest 8-hour average

 = 85 - 104 ppb ozone concentration

 ≥ 105 ppb ozone concentration

 ≥ 76 ppb ozone concentration

Note: A number in parenthesis () indicates that data completeness was not met. The primary standard requires 90 percent data completeness, on average, during the 3-year period, with no single year within the period having less than 75 percent data completeness. This data completeness requirement would have to be satisfied in order to determine that the standard has been met at a monitoring site. However, calendar years with less than 75 percent data completeness are included in the computation if the annual fourth-highest daily maximum 8-hour concentration is greater than the level of the standard. A site could be found not to have met the standard with less than complete data.

Dashed lines represent no data available at that site.