Table 3. 2008 Ozone violation summary - primary standard[a,b].

National Park Unit	Site Name	2006 - 2008	2005 - 2007	2004 - 2006	2003 - 2005	2002 - 2004	2001 - 2003	2000 - 2002	1999 - 2001
Sites operated by the National Park Service									
Big Bend	K-Bar Ranch Road	66	66	63	63	62	62	(62)	(63)
Canyonlands	Island in the Sky	71	69	69	71	72	70	(71)	(71)
Chiricahua	Entrance Station	69	71	72	71	70	69	69	70
Craters of the Moon	Visitor Center	(67)	(67)	---	---	67	(65)	(63)	(63)
Death Valley	Park Village	81	84	82	81	80	81	81	79
Denali	Headquarters	58	52	51	52	53	54	49	49
Glacier	West Glacier Horse Stables	53	55	54	56	55	53	49	48
Grand Canyon	The Abyss	70	72	73	74	74	74	73	72
Great Basin	Maintenance Yard	72	73	72	72	72	70	(72)	72
Great Smoky Mountains	Clingmans Dome	(84)	(83)	(80)	(79)	(87)	(92)	(98)	(98)
Great Smoky Mountains	Cove Mountain	82	82	77	78	86	92	96	96
Great Smoky Mountains	Look Rock	85	86	84	86	91	92	94	96
Joshua Tree	Black Rock	104	103	103	105	106	99	94	92
Joshua Tree	Cottonwood Canyon	(79)	(66)	(62)	(45)	---	---	---	---
Lassen Volcanic	Manzanita Lake Fire Station	77	72	69	68	71	72	74	77
Mammoth Cave	Houchin Meadow	74	76	72	73	77	80	84	88
Mesa Verde	Resource Management Area	71	73	73	70	68	67	69	69
Mount Rainier	Tahoma Woods	58	(56)	(58)	(61)	63	61	56	60
Petrified Forest	South Entrance	(70)	(70)	(70)	(71)	(66)	(64)	(55)	---
Pinnacles	SW of East Entrance Station	79	74	75	75	80	81	81	(79)
Rocky Mountain	Long's Peak	76	75	74	77	82	81	78	74
Sequoia and Kings Canyon	Ash Mountain	(105)	(103)	(103)	(105)	(105)	(107)	(105)	(104)
Sequoia and Kings Canyon	Lower Kaweah	96	95	96	97	101	101	98	(94)
Shenandoah	Big Meadows	76	77	77	(80)	82	87	85	87
Voyageurs	Sullivan Bay	(61)	(65)	64	66	64	65	(64)	67
Yellowstone	Water Tank	66	64	63	61	63	65	65	67
Yosemite	Turtleback Dome	(89)	86	86	88	90	90	89	86
Zion	Dalton's Wash	71	78	79	(82)	(74)	---	---	---
# park units with violations (0.08 ppm standard):		**4**	**4**	**3**	**4**	**4**	**5**	**5**	**6**
# sites with violations:		**5**	**5**	**4**	**5**	**7**	**8**	**8**	**9**
Sites operated by cooperating state agencies									
Acadia	Cadillac Mountain	79	82	80	82	88	94	93	89
Acadia	McFarland Hill	72	74	71	74	80	87	84	85
Badlands	Visitor Center	62	68	67	(66)	(64)	(67)	---	---
Cape Cod	Cape Cod	79	84	84	86	88	95	93	96
Chamizal	Chamizal	75	74	73	72	78	79	81	75
Congaree	Congaree Bluff	71	71	71	71	74	77	77	(74)
Cowpens	State Monitor	74	73	74	75	80	84	87	87
Everglades	Cutler Road	72	69	68	66	---	---	---	---
Great Smoky Mountains	Cades Cove	72	70	67	(67)	73	76	79	81
Great Smoky Mountains	Purchase Knob	77	77	75	78	82	86	88	87
Indiana Dunes	Ammunition Bunker	73	82	75	76	---	---	---	---
Mount Rainier	Jackson Visitor's Center	(59)	61	(60)	(59)	---	---	---	---
Saguaro	Pima County	74	76	76	(76)	(75)	(73)	72	69

Table 3. 2008 Ozone violation summary - primary standard[a,b] (continued).

National Park Unit	Site Name	2006 - 2008	2005 - 2007	2004 - 2006	2003 - 2005	2002 - 2004	2001 - 2003	2000 - 2002	1999 - 2001
Sites operated by cooperating state agencies									
Theodore Roosevelt	Painted Canyon Visitor Cntr	63	63	(60)	(59)	60	61	59	58
Wind Cave	Visitor Center	66	70	(71)	(70)	---	---	---	---
# park units with violations (0.08 ppm standard):		**0**	**0**	**0**	**1**	**2**	**3**	**4**	**4**
# sites with violations:		**0**	**0**	**0**	**1**	**2**	**4**	**4**	**5**

[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
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.

Ozone Violation Summaries

Table 3 presents ozone violation summaries for NPS-operated and cooperating sites for all 3-year periods over the last 10 years. Violations of the (old) 85 ppb standard are indicated in orange and red. Those values that would violate the new standard of 75 ppb are outlined with a black box.

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. Table values in parentheses indicate that EPA data completeness requirements for the 3-year period were not met. However, annual fourth highest daily maximum 8-hour ozone concentrations greater than or equal to 76 ppb for calendar years not meeting EPA data completeness requirements are included in the NAAQS violation computation.