

Table 1. 2018 Site Specifications.

National Park Unit	Site Name	State	NPS Abbr.	CASTNET Abbr.	AQS ID Number	Latitude (degrees north)	Longitude (degrees west)	Elev. (m)	O ₃ Years ^a	SO ₂	CO	NO _x /NO _y	PM	WS/WD	TMP	RH	RNF	SOL	Filter Pack ^b
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)																			
Big Bend	K-Bar Ranch Road	TX	BIBE-KB	BBE401	48-043-0101	29.3028	103.1778	1057	29	---	---	---	---	X	X	X	X	X	X
Canyonlands	Island in the Sky	UT	CANY-IS	CAN407	49-037-0101	38.4583	109.8214	1794	27	---	---	---	---	X	X	X	X	X	X
<u>Carlsbad Caverns</u>	Maintenance Area	NM	CAVE-MA	---	35-015-3001	32.1783	104.4406	1349	13	---	---	---	---	X	X	X	X	X	---
Chaco Culture	Radio Repeater	NM	CHCU-RR	CHC432	35-045-0020	36.0350	107.9042	1965	2	---	---	X	---	X	X	X	X	X	---
Chiricahua	Entrance Station	AZ	CHIR-ES	CHA467	04-003-8001	32.0094	109.3892	1569	28	---	---	---	---	X	X	X	X	X	X
Craters of the Moon	Visitor Center	ID	CRMO-VC	---	16-023-0101	43.4606	113.5622	1815	27	---	---	---	---	X	X	---	---	X	---
Death Valley	Park Village	CA	DEVA-PV	---	06-027-0101	36.5092	116.8481	125	26	---	---	---	---	X	X	---	---	---	---
Denali	Headquarters	AK	DENA-HQ	DEN417	02-068-0003	63.7233	148.9675	663	32	---	---	---	---	X	X	X	X	X	X
Dinosaur	West Entrance Housing	UT	DINO-WE	DIN431	49-047-1002	40.4372	109.3047	1463	18	---	---	---	---	X	X	---	X	X	X
Everglades	Beard Center	FL	EVER-BC	EVE419	12-086-0030	25.3911	80.6808	1	---	---	---	---	---	X	X	X	X	X	X
Glacier	West Glacier Horse Stables	MT	GLAC-WG	GLR468	30-029-8001	48.5103	113.9969	964	27	---	---	---	---	X	X	---	---	X	X
Grand Canyon	The Abyss	AZ	GRCA-AS	GRC474	04-005-8001	36.0586	112.1836	2073	26	---	---	---	---	X	X	X	X	X	X
Grand Teton	Science School	WY	GRTE-SS	---	56-039-0008	43.6708	110.5994	2105	8	---	---	---	---	X	X	X	X	X	---
Great Basin	Maintenance Yard	NV	GRBA-MY	GRB411	32-033-0101	39.0050	114.2158	2058	26	---	---	---	---	X	X	X	X	X	X
Great Smoky Mountains	Cade's Cove	TN	GRSM-CC	---	47-009-0102	35.6042	83.7831	564	26	---	---	---	---	X	X	X	X	X	---
Great Smoky Mountains	Clingmans Dome	TN	GRSM-CD	---	47-155-0102	35.5619	83.4981	2021	26	---	---	---	---	X	---	X	X	X	---
Great Smoky Mountains	Cove Mountain	TN	GRSM-CM	---	47-155-0101	35.6967	83.6086	1243	31	---	---	---	---	X	X	X	X	---	---
Great Smoky Mountains	Look Rock NCore	TN	GRSM-LN	GRS420	47-009-0101	35.6336	83.9417	801	---	X	X	X	---	---	---	---	---	---	---
Great Smoky Mountains	Look Rock	TN	GRSM-LR	GRS420	47-009-0101	35.6336	83.9417	801	31	---	---	---	X	X	X	X	X	X	X
Hawaii Volcanoes	Observatory	HI	HAVO-OB	---	15-001-0007	19.4203	155.2881	1123	---	X	---	---	X	X	X	X	X	---	---
Hawaii Volcanoes	Visitor Center	HI	HAVO-VC	---	15-001-0005	19.4308	155.2578	1215	---	X	---	---	---	X	X	X	X	X	---
Joshua Tree	Black Rock	CA	JOTR-BR	JOT403	06-071-9002	34.0694	116.3889	1243	26	---	---	---	---	X	X	X	X	X	X
Joshua Tree	Cottonwood Visitor Center	CA	JOTR-CV	---	06-065-0010	33.7472	115.8201	943	1	---	---	---	X	X	X	X	X	X	---
<u>Joshua Tree</u>	Pinto Wells	CA	JOTR-PW	---	06-065-1004	33.9397	115.4108	326	13	---	---	---	---	X	X	X	---	X	---
Lassen Volcanic	Manzanita Lake Fire Station	CA	LAVO-ML	LAV410	06-089-3003	40.54	121.5764	1755	32	---	---	---	---	X	X	X	X	X	X
Mammoth Cave	Houchin Meadow	KY	MACA-HM	MAC426	21-061-0501	37.1317	86.1431	230	22	X	X	X	---	X	X	X	X	X	X
Mesa Verde	Resource Management Area	CO	MEVE-RM	MEV405	08-083-0101	37.1983	108.4906	2170	26	---	---	---	---	X	X	X	X	X	X
Minidoka	Maintenance Building	ID	MIIN-MB	---	16-053-0003	42.6800	114.2525	1223	---	---	---	---	X	X	X	X	---	---	---
<u>Mojave</u>	Kelso Mountains	CA	MOJA-KM	---	06-071-1001	35.1019	115.7767	1212	12	---	---	---	---	X	X	X	---	X	---
Petrified Forest	South Entrance	AZ	PEFO-SE	PET427	04-017-0119	34.8225	109.895	1712	17	---	---	---	---	X	X	---	---	X	X

Table 1. 2018 Site Specifications (continued).

National Park Unit	Site Name	State	NPS Abbr.	CASTNet Abbr.	AQS ID Number	Latitude (degrees north)	Longitude (degrees west)	Elev. (m)	O ₃ Years ^a	SO ₂	CO	NO _x /NO _y	PM	WS/WD	TMP	RH	RNF	SOL	Filter Pack ^b
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)																			
Pinnacles	SW of East Entrance Station	CA	PINN-ES	PIN414	06-069-0003	36.4833	121.1569	317	32	---	---	---	---	X	X	X	X	X	X
Rocky Mountain	Long's Peak	CO	ROMO-LP	ROM406	08-069-0007	40.271	105.5456	2742	35	---	---	---	---	X	X	X	X	X	X
Sequoia and Kings Canyon	Ash Mountain	CA	SEKI-AS	SEK430	06-107-0009	36.4894	118.8292	510	20	---	---	---	X	X	X	X	X	X	X
Sequoia and Kings Canyon	Lower Kaweah	CA	SEKI-LK	---	06-107-0006	36.5658	118.7772	1890	35	---	---	---	---	X	X	X	X	X	---
Shenandoah	Big Meadows	VA	SHEN-BM	SHN418	51-113-0003	38.5231	78.4347	1068	36	---	---	---	---	X	X	X	X	X	X
Voyageurs	Sullivan Bay	MN	VOYA-SB	VOY413	27-137-0034	48.4128	92.8292	427	23	---	---	---	---	X	X	X	X	X	X
Yellowstone	Old Faithful Snow Lodge	WY	YELL-OS	---	56-039-1013	44.4582	110.8253	2230	---	---	X	---	X	X	X	X	---	---	---
Yellowstone	West Entrance	MT	YELL-WS	---	30-031-0017	44.6569	111.0894	2030	---	---	X	X	X	X	X	X	---	---	---
Yellowstone	Water Tank	WY	YELL-WT	YEL408	56-039-1011	44.5653	110.4003	2430	23	---	---	---	---	X	X	X	X	X	X
Yosemite	Turtleback Dome	CA	YOSE-TD	YOS404	06-043-0003	37.7133	119.7061	1599	26	---	---	---	---	X	X	X	X	X	X
Zion	Dalton's Wash	UT	ZION-DW	---	49-053-0130	37.1983	113.1506	1213	15	---	---	---	---	X	X	---	---	X	---
Sites operated by the NPS for the Bureau of Land Management																			
Meeker	Plant Science	CO	MEEK-PS	---	08-103-0005	40.0039	107.8475	1994	9	---	---	X	X	X	X	X	X	X	---
Rangely	Golf Course	CO	RANG-GC	---	08-103-0006	40.0869	108.7614	1655	9	---	---	X	X	X	---	X	X	X	---
Sites operated by cooperating state agencies																			
Acadia	Cadillac Mountain	ME	ACAD-CM	---	23-009-0102	44.3517	68.2269	466	24	---	---	---	---	X	X	X	---	---	---
Acadia	McFarland Hill	ME	ACAD-MH	ACA416	23-009-0103	44.3772	68.2608	153	21	X	X	X	X	X	X	X	X	X	X
Badlands	Visitor Center	SD	BADL-VC	---	46-071-1001	43.7436	101.9414	739	14	X	---	---	X	---	---	---	---	---	---
Cape Cod	Cape Cod	MA	CACO-XX	---	25-001-0002	41.9758	70.0247	41	32	---	---	---	---	X	X	X	---	X	---
Chamizal	Chamizal	TX	CHAM-XX	---	48-141-0044	31.7656	106.4550	1128	27	---	---	---	---	X	X	X	---	X	---

Table 1. 2018 Site specifications (continued).

National Park Unit	Site Name	State	NPS Abbr.	CASTNet Abbr.	AQS ID Number	Latitude (degrees north)	Longitude (degrees west)	Elev. (m)	O ₃ Years ^a	SO ₂	CO	NO _x	PM	WS/WD	TMP	RH	RNF	SOL	Filter Pack ^b
Sites operated by cooperating state agencies																			
<i>Congaree</i>	Congaree Bluff	SC	COSW-BL	---	45-079-0021	33.8147	80.7811	34	19	X	---	---	---	---	---	---	---	---	---
<i>Everglades</i>	Cutler Road	FL	EVER-CR	---	12-086-0029	25.5861	80.3269	4	34	---	---	---	---	---	---	---	---	---	---
<i>Great Smoky Mountains</i>	Purchase Knob	NC	GRSM-PK	---	37-087-0036	35.5900	83.0775	1550	24	---	---	---	---	---	---	---	---	---	---
<i>Indiana Dunes</i>	Ammunition Bunker	IN	INDU-AB	---	18-089-0022	41.6067	87.3047	183	26	X	---	---	X	X	X	X	---	X	---
<i>Mount Rainier</i>	Jackson Visitor's Center	WA	MORA-JV	---	53-053-0012	46.7853	121.7378	1615	21	---	---	---	---	---	---	---	---	---	---
<i>Saguaro</i>	East	AZ	SAGU-EA	---	04-019-0021	32.1744	110.7364	938	27	---	---	---	---	X	X	X	---	X	---
<i>Theodore Roosevelt</i>	Painted Canyon, VC	ND	THRO-VC	THR422	38-007-0002	46.8947	103.3778	840	21	X	---	---	X	X	X	X	X	X	X
<i>Wind Cave</i>	Visitor Center	SD	WICA-VC	WNC429	46-033-0132	43.5575	103.4839	1288	15	---	---	---	X	X	X	X	X	X	X
<i>Yosemite</i>	Village	CA	YOSE-VI	---	06-043-1001	37.7458	119.6028	1216	---	---	---	---	X	---	---	---	---	---	---

^a The values in this column represent the number of years an ozone analyzer has been operational at the site.

^b A filter pack is a part of the CASTNET network and is used to measure dry deposition using the "inferential method." This method combines air quality concentration data with meteorological measurements and land use functions to compute deposition velocities. Ambient air is drawn across the filter at either 3.0 or 1.5 liters per minute. The filter is then analyzed in a lab to yield weekly average concentrations of particulate sulfate (SO₄²⁻), particulate nitrate (NO₃⁻), particulate ammonium (NH₄⁺), sulfur dioxide (SO₂), and nitric acid (HNO₃). In some cases, the positive ions Na⁺, K⁺, Ca²⁺, and Mg²⁺ are also measured from the filter samples.

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

Parameter key: O₃ = ozone (ppb)
 SO₂ = sulfur dioxide (ppb)
 CO = carbon monoxide (ppm)
 NO_x = oxides of nitrogen (ppb)
 PM = particulate matter (µg/m³)
 WS = wind speed (m/s)
 WD = wind direction (degrees)
 TMP = ambient temperature (degrees C)
 RH = relative humidity (%)
 RNF = precipitation (mm/hr)
 SOL = solar radiation (watts/m²)

Note: Dashed lines indicate parameter not measured at that site.

Table 2. 2018 Summary of 8-hour average ozone concentrations (ppb).

National Park Unit	Site Name	Valid Number of Days	1 st Highest	2 nd Highest	3 rd Highest	4 th Highest	# Days with 8-Hour Average O ₃ Values ≥70 ppb ^a
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)							
Big Bend	K-Bar Ranch Road	338	69	66	65	65	0
Canyonlands	Island in the Sky	344	70	69	68	68	0
Chaco Culture	Radio Repeater	334	71	71	69	68	2
Chiricahua	Entrance Station	343	67	67	67	67	0
Craters of the Moon	Visitor Center	359	75	72	71	69	3
Death Valley	Park Village	332	81	79	78	78	19
Denali	Headquarters	363	57	56	55	53	0
Dinosaur	West Entrance Housing	348	73	69	67	67	1
Glacier	West Glacier Horse Stables	350	64	58	55	55	0
Grand Canyon	The Abyss	352	72	69	69	68	1
Grand Teton	Science School	317	65	64	61	61	0
Great Basin	Maintenance Year	350	73	72	71	71	4
Great Smoky Mountains	Cades Cove	245	65	64	63	63	0
Great Smoky Mountains	Clingmans Dome	167	75	71	65	65	2
Great Smoky Mountains	Cove Mountain	360	72	68	68	67	1
Great Smoky Mountains	Look Rock	351	73	69	68	67	1
Joshua Tree	Black Rock	359	95	94	93	92	65
Joshua Tree	Cottonwood Visitor Center	222	89	86	86	82	26
Lassen Volcanic	Manzanita Lake Fire Station	348	83	81	77	77	13
Mammoth Cave	Houchin Meadow	344	66	63	61	61	0
Mesa Verde	Resource Management Area	312	75	72	72	72	4
Petrified Forest	South Entrance	357	75	71	69	69	2
Pinnacles	SW of East Entrance Station	358	72	70	69	66	1
Rocky Mountain	Long's Peak	362	91	75	75	74	12
Sequoia and Kings Canyon	Ash Mountain	345	91	90	88	88	68
Sequoia and Kings Canyon	Lower Kaweah	200	95	94	91	89	63
Shenandoah	Big Meadows	344	67	66	63	62	0
Voyageurs	Sullivan Bay	362	66	62	60	59	0
Yellowstone	Water Tank	352	67	67	65	64	0
Yosemite	Turtleback Dome	360	92	89	87	85	25
Zion	Dalton's Wash	293	73	69	69	69	1
Sites operated by the NPS for the Bureau of Land Management							
Meeker	Plant Science Center	351	71	66	64	63	1
Rangely	Golf Course	360	73	72	70	68	2
Sites operated by cooperating state agencies							
<i>Acadia</i>	Cadillac Mountain	205	77	67	66	64	1
<i>Acadia</i>	McFarland Hill	358	77	66	65	64	1
<i>Badlands</i>	Visitor Center	335	66	65	65	63	0
<i>Cape Cod</i>	Cape Cod	353	80	76	71	71	4
<i>Chamizal</i>	Chamizal	362	87	86	83	78	6
<i>Congaree</i>	Congaree Bluff	341	56	56	55	55	0

Table 2. 2018 Summary of 8-hour average ozone concentrations (ppb) (continued).

National Park Unit	Site Name	Valid Number of Days	1 st Highest	2 nd Highest	3 rd Highest	4 th Highest ^a	# Days with 8-Hour Average O ₃ Values ≥70 ppb ^a
Sites operated by cooperating state agencies							
<i>Everglades</i>	Cutler Road	353	78	72	66	63	2
<i>Great Smoky Mountains</i>	Purchase Knob	231	67	67	66	65	0
<i>Indiana Dunes</i>	Ammunition Bunker	350	86	84	84	71	4
<i>Mount Rainier</i>	Jackson Visitor's Center	318	74	74	68	67	2
<i>Saguaro</i>	East	364	75	73	71	71	4
<i>Theodore Roosevelt</i>	Painted Canyon, Visitor Cntr	338	67	65	61	61	0
<i>Wind Cave</i>	Visitor Center	359	66	65	64	63	0
Portable ozone monitoring systems (POMS)^b							
<u>Carlsbad Caverns</u>	Maintenance Area	209	99	81	80	80	10
<u>Joshua Tree</u>	Pinto Wells	363	85	83	81	80	18
<u>Mojave</u>	Kelso Mountains	213	96	91	89	88	79

^a The primary and secondary National Ambient Air Quality Standard for ozone is 0.070 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 70 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 70 ppb.) Exceedances of the standard are in red.

^b The Gaseous Pollutant Monitoring Program Portable Ozone Monitoring Systems (POMS) do not meet EPA standards for regulatory monitoring. However, ozone summary statistics from portable systems can be compared to EPA standards for reference purposes.

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: **Red** = 4th highest 8-hour average ozone concentration >70 ppb, > 3 days with 8-hour average >70 ppb

Bold = Ozone summary statistics for POMS are highlighted bold where exceedances occurred. These sites should be compared to EPA standards for reference purposes only.

Table 3. 2018 Ozone violation summary - primary standard^{a,b}.

National Park Unit	Site Name	2016-2018	2015-2017	2014-2016	2013-2015	2012-2014	2011-2013	2010-2012
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)								
Big Bend	K-Bar Ranch Road	63	62	62	64	65	71	70
Canyonlands	Island in the Sky	65	64	64	65	67	69	69
Chaco Culture	Radio Repeater	(66)	(64)	---	---	---	---	---
Chiricahua	Entrance Station	66	65	65	68	71	73	73
Craters of the Moon	Visitor Center	63	60	60	61	62	63	63
Death Valley	Park Village	(73)	(70)	70	70	70	72	72
Denali	Headquarters	50	50	53	54	54	52	52
Dinosaur	West Entrance Housing	72	72	68	81	(84)	---	---
Glacier	West Glacier Horse Stables	52	53	53	(54)	54	55	55
Grand Canyon	The Abyss	65	66	67	69	70	72	72
Grand Teton	Science School	60	59	59	59	62	(60)	(60)
Great Basin	Maintenance Yard	66	64	64	68	71	74	72
Great Smoky Mountains	Cade's Cove	62	61	60	59	60	63	68
Great Smoky Mountains	Clingmans Dome	(63)	(63)	(65)	(65)	(67)	(71)	(75)
Great Smoky Mountains	Cove Mountain	66	66	67	67	68	72	76
Great Smoky Mountains	Look Rock	67	67	67	65	67	74	79
Joshua Tree	Black Rock	89	87	86	86	90	90	94
Joshua Tree	Cottonwood Visitor Center	(82)	---	---	---	---	---	---
Lassen Volcanic	Manzanita Lake Fire Station	68	64	65	66	68	68	67
Mammoth Cave	Houchin Meadow	63	64	64	63	69	71	75
Mesa Verde	Resource Management Area	68	66	65	66	67	69	68
Petrified Forest	South Entrance	65	63	64	66	70	70	70
Pinnacles	SW of East Entrance Station	68	68	69	68	70	70	70
Rocky Mountain	Long's Peak	70	68	69	70	74	76	77
Sequoia and Kings Canyon	Ash Mountain	89	89	89	89	91	93	95
Sequoia and Kings Canyon	Lower Kaweah	86	84	(84)	(84)	(86)	85	81
Shenandoah	Big Meadows	63	63	63	62	65	69	72
Voyageurs	Sullivan Bay	55	54	55	57	59	59	63
Yellowstone	Water Tank	62	61	60	62	63	65	66
Yosemite	Turtleback Dome	79	75	74	74	77	77	78
Zion	Dalton's Wash	66	65	(65)	(67)	70	72	73
Sites operated by the NPS for the Bureau of Land Management								
Meeker	Plant Science Center	60	60	61	63	63	63	64
Rangely	Golf Course	64	63	63	73	74	77	66

Table 3. 2018 Ozone violation summary - primary standard^{a,b} (continued).

National Park Unit	Site Name	2016-2018	2015-2017	2014-2016	2013-2015	2012-2014	2011-2013	2010-2012
Sites operated by cooperating state agencies								
<i>Acadia</i>	Cadillac Mountain	70	71	66	67	66	69	72
<i>Acadia</i>	McFarland Hill	63	64	62	65	63	65	65
<i>Badlands</i>	Visitor Center	63	61	58	58	61	59	58
<i>Cape Cod</i>	Cape Cod	69	(69)	(65)	(67)	69	72	75
<i>Chamizal</i>	Chamizal	71	69	67	68	68	69	70
<i>Congaree</i>	Congaree Bluff	55	55	55	55	55	57	61
<i>Everglades</i>	Cutler Road	62	(61)	61	63	63	64	63
<i>Great Smoky Mountain</i>	Purchase Knob	64	64	65	65	66	67	69
<i>Indiana Dunes</i>	Ammunition Bunker	70	68	67	65	69	69	69
<i>Mount Rainer</i>	Jackson Visitor's Center	64	63	(59)	(60)	60	58	56
<i>Saguaro</i>	East	71	69	68	69	71	73	71
<i>Theodore Roosevelt</i>	Painted Canyon Visitor Cntr	59	60	58	58	56	57	58
<i>Wind Cave</i>	Visitor Center	62	61	58	59	62	63	62

^a The 2015 primary and secondary National Ambient Air Quality Standard for ozone is 0.070 ppm over an 8-hour period. This standard was used for the 2016-2018 period through 2014-2016. (An exceedance of the standard occurs when an 8-hour average ozone concentration is greater than or equal to 71 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 71 ppb.)

^b The 2008 primary and secondary National Ambient Air Quality Standard for ozone is 0.075 ppm over an 8-hour period. This standard was used for the 2013-2015 period through 2008-2010. (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.)

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underline = site operated by the National Park Service, but consisting of non-EPA certified portable instrumentation

Color shading key: **Red** = ozone violation based on the standard in place at that time

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.

Table 4. 2018 Summary of indices for resource injury (SUM06 and W126).

National Park Unit	Site Name	O ₃ % Valid	SUM06 ^a (ppm-hr)	SUM06 Period	W126 ^b (ppm-hr)	W126 Period	NPS W126 ^c (ppm-hr)	NPS W126 Period
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)								
Big Bend	K-Bar Ranch Road	92.4	5.9	April-June	7.5	March-May	8.4	March-May
Canyonlands	Island in the Sky	94.7	22.0	May-July	14.7	May-July	15.9	May-July
Chaco Culture	Radio Repeater	94.7	20.5	June-August	14.8	June-August	16.0	June-August
Chiricahua	Entrance Station	95.0	13.6	April-June	11.1	April-June	12.2	April-June
Craters of the Moon	Visitor Center	99.0	8.4	June-August	9.1	June-August	10.1	June-August
Death Valley	Park Village	94.0	44.5	June-August	26.2	June-August	27.8	June-August
Denali	Headquarters	99.6	0.0	January-March	2.6	March-May	3.4	March-May
Dinosaur	West Entrance Housing	97.8	18.4	June-August	14.0	June-August	15.3	June-August
Glacier	West Glacier Horse Stables	97.5	1.2	June-August	2.6	March-May	3.3	March-May
Grand Canyon	The Abyss	97.9	19.7	May-July	14.1	May-July	15.4	May-July
Grand Teton	Science School	88.7	1.1	April-June	4.6	April-June	5.9	June-August
Great Basin	Maintenance Yard	96.7	18.5	May-July	13.5	June-August	14.7	June-August
Great Smoky Mountains	Cade's Cove	94.6	4.1	April-June	4.4	April-June	5.1	March-May
Great Smoky Mountains	Clingmans Dome	46.6	3.2	May-July	4.4	May-July	5.2	May-July
Great Smoky Mountains	Cove Mountain	99.2	8.4	April-June	7.4	April-June	8.3	April-June
Great Smoky Mountains	Look Rock	98.2	7.5	April-June	6.5	April-June	7.4	April-June
Joshua Tree	Black Rock	98.7	54.5	June-August	36.3	June-August	37.9	June-August
Joshua Tree	Cottonwood Visitor Center	75.7	32.3	June-August	21.4	June-August	32.7	April-June
Lassen Volcanic	Manzanita Lake Fire Station	96.6	19.6	June-August	15.6	July-September	16.7	July-September
Mammoth Cave	Houchin Meadow	91.8	3.6	April-June	5.0	April-June	5.8	April-June
Mesa Verde	Resource Management Area	89.4	17.6	April-June	13.3	April-June	15.9	June-August
Petrified Forest	South Entrance	98.6	21.6	May-July	14.7	May-July	16.0	May-July
Pinnacles	SW of East Entrance Station	98.8	9.2	June-August	7.7	July-September	8.6	July-September
Rocky Mountain	Long's Peak	99.3	23.9	June-August	17.9	June-August	19.1	June-August
Sequoia and Kings Canyon	Ash Mountain	94.8	48.9	May-July	35.3	May-July	49.9	June-August
Sequoia and Kings Canyon	Lower Kaweah	96.4	62.9	June-August	44.4	June-August	46.0	June-August
Shenandoah	Big Meadows	96.8	3.8	April-June	6.2	April-June	7.0	April-June
Voyageurs	Sullivan Bay	99.2	2.2	March-May	4.8	March-May	5.6	March-May
Yellowstone	Water Tank	95.7	7.6	June-August	7.7	June-August	8.6	June-August
Yosemite	Turtleback Dome	99.0	34.4	June-August	25.4	July-September	26.7	July-September
Zion	Dalton's Wash	83.7	23.9	June-August	15.9	June-August	17.9	May-July
Sites operated by the NPS for the Bureau of Land Management								
Meeker	Plant Science Center	94.1	7.3	June-August	8.7	June-August	9.8	June-August
Rangely	Golf Course	97.6	21.3	May-July	15.0	May-July	16.3	May-July
Sites operated by cooperating state agencies								
<i>Acadia</i>	Cadillac Mountain	97.3	3.1	April-June	4.0	April-June	5.1	March-May
<i>Acadia</i>	McFarland Hill	97.4	2.4	April-June	3.9	March-May	4.8	March-May
<i>Badlands</i>	Visitor Center	92.2	5.3	June-August	6.5	June-August	7.0	June-August
<i>Cape Cod</i>	Cape Cod	98.3	3.6	May-July	4.7	March-May	5.2	March-May
<i>Chamizal</i>	Chamizal	98.6	16.7	June-August	14.0	June-August	15.1	June-August
<i>Congaree</i>	Congaree Bluff	97.9	0.3	April-June	2.2	March-May	2.6	March-May
<i>Everglades</i>	Cutler Road	98.5	4.0	February-April	4.6	March-May	5.0	March-May
<i>Great Smoky Mountains</i>	Purchase Knob	93.0	7.8	April-June	7.0	April-June	7.5	March-May
<i>Indiana Dunes</i>	Ammunition Bunker	95.9	10.1	May-July	8.1	May-July	8.9	May-July

Table 4. 2018 Summary of indices for resource injury (SUM06 and W126) (continued).

National Park Unit	Site Name	O ₃ % Valid	SUM06 ^a (ppm-hr)	SUM06 Period	W126 ^b (ppm-hr)	W126 Period	NPS W126 ^c (ppm-hr)	NPS126 Period
Sites operated by cooperating state agencies								
<i>Mount Rainier</i>	Jackson Visitor's Center	89.0	6.6	July-September	5.1	July-September	5.6	July-September
<i>Saguaro</i>	East	99.4	19.9	April-June	14.3	April-June	14.8	April-June
<i>Theodore Roosevelt</i>	Painted Canyon Visitor Center	93.4	3.2	June-August	5.3	April-June	5.7	April-June
<i>Wind Cave</i>	Visitor Center	98.8	4.7	June-August	6.2	June-August	6.7	June-August
Portable ozone monitoring systems (POMS)								
<u>Carlsbad Caverns</u>	Maintenance Area	98.1	25.3	June-August	18.2	June-August	19.5	June-August
<u>Joshua Tree</u>	Pinto Wells	99.5	40.3	April-June	25.5	April-June	27.0	April-June
<u>Mojave</u>	Kelso Mountains	100.0	61.3	May-July	37.9	May-July	39.5	May-July

^a SUM06 exposure index represents the 0800-2000 hourly ozone concentrations equaling or exceeding 0.06 ppm. The value reported here represents a three-month maximum value during the ozone season. Units are ppm-hr.

^b W126 exposure index represents 0800-2000 hourly ozone concentrations where each concentration is weighted by a function that gives greater emphasis to the higher hourly concentrations while still including the lower ones. The value reported here represents a three-month maximum value during the ozone season. Units are ppm-hr. For more information on the W126 exposure index go to <http://www.nature.nps.gov/air/aqbasics/glossary.cfm>.

^c NPS W126 represents a three-month maximum value during the growing season (March to September) with a monthly completeness criteria of 50%, a three-month completeness criteria of 75%, and a seasonal completeness criteria of 60%.

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

Table 5. 2018 Summary of sulfur dioxide data.

National Park Unit	Site Name	Highest Daily Maximum 1-Hour Average Concentration ^a (ppb)						Highest Daily Maximum 3-Hour Average Concentration ^b (ppb)				
		1 st Highest	2 nd Highest	3 rd Highest	4 th Highest	99 th Percentile Value	No. of Days with 1-Hr Average >75 ppb	1 st Highest	2 nd Highest	3 rd Highest	4 th Highest	No. of Days with 3-Hr Maximum >549 ppb
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)												
Great Smoky Mountains	Look Rock NCore	3.1	2.9	1.5	1.3	1	0	2.7	2.6	2.1	1.9	0
Hawaii Volcanoes *	Observatory / Jaggar Museum	1615.9	1295.1	1233.0	1202.9	1295	61	1456.9	1048.8	1029.4	1026.0	14
Hawaii Volcanoes *	Visitor Center	1806.8	1160.8	1123.8	1108.3	1108	65	1371.6	971.7	934.6	817.3	12
Mammoth Cave	Houchin Meadow	7.0	6.5	5.6	4.5	5	0	4.7	4.4	3.8	3.1	0
Sites operated by cooperating state agencies												
<i>Acadia</i>	McFarland Hill	0.8	0.6	0.6	0.6	1	0	0.6	0.5	0.5	0.4	0
<i>Badlands</i>	Visitor Center	1.6	1.5	1.5	1.4	1	0	1.4	1.2	1.2	1.1	0
<i>Congaree</i>	Congaree Bluff	7.1	5.0	3.4	3.3	3	0	4.6	4.4	3.6	2.3	0
<i>Indiana Dunes</i>	Ammunition Bunker	30.2	28.5	27.4	25.6	26	0	20.4	19.2	18.9	16.3	0
<i>Theodore Roosevelt</i>	Painted Canyon Visitor Ctr	11.5	9.3	5.8	4.3	4	0	5.9	4.7	4.7	4.0	0

^a The primary hourly National Ambient Air Quality Standard for sulfur dioxide is a daily maximum 1-hour average of 75 ppb. (An exceedance of the Standard occurs when a daily maximum 1-hour average exceeds 75 ppb. A violation of the Standard occurs when the 3-year average of the 99th percentile of the daily maximum 1-hour average exceeds 75 ppb.)

^b The secondary National Ambient Air Quality Standard for sulfur dioxide is 0.5 ppm over a 3-hour period not to be exceeded more than once per year. (A value greater than 0.5 ppm, 549 ppb, or 1300 µg/m³ exceeds the standard.) (40 CFR 50.5.)

* This site collected sulfur dioxide data using a range that is not EPA approved.

Operating agency key: plain text = site operated by the National Park Service
italics = site operated by a state agency

Color shading key: **Red** >75 ppb 99th percentile value, or >549 ppb 3-hour average

Table 6. 2018 Summary of carbon monoxide data.

National Park Unit	Site Name	Highest Daily Maximum 1-Hour Average Concentration ^a (ppm)					Highest Daily Maximum 8-Hour Average Concentration ^b (ppm)				
		1 st Highest	2 nd Highest	3 rd Highest	4 th Highest	No. of Days with 1-Hr Average > 35 ppm	1 st Highest	2 nd Highest	3 rd Highest	4 th Highest	No. of Days with 8-Hr Average > 9 ppm
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)											
Great Smoky Mountains	Look Rock NCore	0.332	0.315	0.312	0.312	0	0.293	0.273	0.270	0.269	0
Mammoth Cave	Houchin Meadow	0.335	0.332	0.326	0.324	0	0.300	0.288	0.265	0.262	0
Yellowstone	Old Faithful Snow Lodge	0.426	0.411	0.387	0.354	0	0.393	0.378	0.345	0.329	0
Yellowstone	West Yellowstone	3.215	1.769	1.124	0.999	0	0.717	0.684	0.556	0.542	0
Sites operated by cooperating state agencies											
Acadia	McFarland Hill	0.310	0.305	0.298	0.291	0	0.295	0.282	0.273	0.267	0

^a The primary hourly National Ambient Air Quality Standard for carbon monoxide is a daily maximum 1-hour average of 35 ppm. (An exceedance of the Standard occurs when a daily maximum 1-hour average exceeds 35 ppm. A violation of the Standard occurs when a daily maximum 1-hour average exceeds 35 ppm more than once in a calendar year.)

^b The primary National Ambient Air Quality Standard for carbon monoxide is 9 ppm over an 8-hour period. (An exceedance of the Standard occurs when an 8-hour average exceeds 9 ppm. A violation of the Standard occurs when a daily maximum 8-hour average exceeds 9 ppm more than once in a calendar year.) (40 CFR 50.8.)

Operating agency key: plain text = site operated by the National Park Service
italics = site operated by a state agency

Color shading key: **Red** >35 ppm 1-hour average or >9 ppm 8-hour average

Table 7. 2018 Summary of nitrogen dioxide data.

National Park Unit	Site Name	Highest Daily Maximum 1-Hour Average Concentrations ^{ab} (ppb)						Annual Arithmetic Mean
		1 st Highest	2 nd Highest	3 rd Highest	4 th Highest	98 th Percentile Value	No. of Days with 1-Hour Average >100 ppb	
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)								
Chaco Culture	Radio Repeater	15.6	12.8	11.1	9.8	5	0	1
Great Smoky Mountains	Look Rock NCore	8.8	8.8	7.8	7.2	7	0	1
Mammoth Cave	Houchin Meadow	23.1	21.6	19.6	15.0	13	0	2
Yellowstone	West Yellowstone	36.2	33.6	28.8	27.1	24	0	2
Sites operated by the NPS for the Bureau of Land Management								
Meeker	Plant Science Center	6.0	6.0	4.8	4.4	4	0	1
Rangely	Golf Course	30.1	28.9	27.3	26.1	24	0	2

Table 8. 2018 Summary of oxides of nitrogen data.

National Park Unit	Site Name	Highest Daily Maximum 1-Hour Average Concentrations (ppb)				No. of Days with 1-Hour Average >100 ppb
		1 st Highest	2 nd Highest	3 rd Highest	4 th Highest	
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)						
Chaco Culture	Radio Repeater	15.9	12.6	11.1	9.8	0
Great Smoky Mountains	Look Rock NCore (NO _x)	9.7	7.9	7.8	7.5	0
Mammoth Cave	Houchin Meadow (NO _x)	24.3	21.6	19.6	15.0	0
Yellowstone	West Yellowstone	187.9	172.5	142.7	140.7	5
Sites operated by the NPS for the Bureau of Land Management						
Meeker	Plant Science Center	7.9	6.3	6.3	6.1	0
Rangely	Golf Course	37.9	36.5	33.0	32.3	0
Sites operated by cooperating state agencies						
<i>Acadia</i>	McFarland Hill (NO _x)	39.7	19.5	16.3	15.2	0

Operating agency key: plain text = site operated by the National Park Service
 italics = site operated by a state agency

Table 9. 2018 Summary of PM_{2.5} data from reference and equivalency methods.

National Park Unit	Site Name	Sampler Type*	% Valid	Annual Arithmetic Mean ^a (µg/m ³)	Highest Daily 24-Hour Average Concentrations ^b (µg/m ³)					No. of Days with 24-Hour Average >35 µg/m ³
					1 st Highest	2 nd Highest	3 rd Highest	4 th Highest	98 th Percentile Value	
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)										
Great Smoky Mountains	Look Rock	TEOM	98.8	7.6	20.9	18.4	17.1	17.0	16.1	0
Hawaii Volcanoes	Observatory/Jaggar Museum	BAM	30.8	11.0	31.0	25.8	25.2	18.8	25.8	0
Joshua Tree	Cottonwood Visitor Center	BAM	59.3	7.0	34.1	33.6	24.0	23.2	23.2	0
Minidoka	Maintenance Building	BAM	87.3	5.5	53.3	50.5	49.1	45.1	28.6	5
Sequoia and Kings Canyon	Ash Mountain	BAM	40.7	14.5	68.0	43.1	32.6	28.7	32.6	2
Yellowstone	Old Faithful Snow Lodge	BAM	93.0	3.5	37.6	34.3	27.9	25.7	19.5	1
Yellowstone	West Entrance	BAM	97.2	3.2	41.3	37.9	35.6	34.1	25.1	3
Sites operated by the NPS for the Bureau of Land Management										
Meeker	Plant Science Center	TEOM	65.9	6.2	43.2	34.3	27.1	24.2	23.8	1
Rangely	Golf Course	BAM	98.4	8.0	28.6	23.2	22.7	22.1	20.8	0
Sites operated by cooperating state agencies										
<i>Acadia</i>	McFarland Hill	BAM	94.9	3.5	14.4	13.1	12.8	12.7	11.7	0
<i>Badlands</i>	Visitor Center	BAM	99.0	4.5	44.4	24.2	22.2	21.2	18.5	1
<i>Indiana Dunes</i>	Ammunition Bunker	BAM	95.1	9.0	25.6	24.4	23.3	22.8	19.0	0
<i>Theodore Roosevelt</i>	Painted Canyon Visitor Ctr	TEOM	96.6	4.0	29.8	28.0	27.5	21.3	18.8	0
<i>Wind Cave</i>	Visitor Center	BAM	97.7	3.0	29.7	28.7	28.1	19.7	15.9	0

^a The primary annual National Ambient Air Quality Standard for PM_{2.5} is an annual arithmetic mean of 15.0 µg/m³. (An exceedance of the standard occurs when an annual arithmetic mean of PM_{2.5} concentrations is greater than 15.0 µg/m³. A violation of the standard occurs when the 3-year average of the weighted annual mean PM_{2.5} concentrations is greater than 15.0 µg/m³.) (40 CFR 50.7.)

^b The primary daily National Ambient Air Quality Standard for PM_{2.5} is a 24-hour average concentration of 35 µg/m³. (An exceedance of the standard occurs when a 24-hour average PM_{2.5} concentration is greater than 35 µg/m³. A violation of the standard occurs when the 3-year average of the annual 98th percentile of 24-hour PM_{2.5} concentrations is greater than 35 µg/m³.) (40 CFR 50.7.)

* TEOM = tapered element oscillating microbalance
 BAM = beta attenuation monitor

Operating agency key: plain text = site operated by the National Park Service
 italics = site operated by a state agency

Color shading key: Annual arithmetic mean **Red** > 15 µg/m³
 98th percentile value **Red** > 35 µg/m³

Table 10. 2018 Summary of PM₁₀ data from reference and equivalency methods.

National Park Unit	Site Name	Sampler Type*	% Valid	Annual Arithmetic Mean ^a (µg/m ³)	Highest Daily 24-Hour Average Concentrations ^b (µg/m ³)				No. of Days with 24-Hour Average >150 µg/m ³
					1 st Highest	2 nd Highest	3 rd Highest	4 th Highest	
Sites operated by cooperating state agencies									
<i>Badlands</i>	Visitor Center	BAM	98.1	10	60	40	40	30	0
<i>Wind Cave</i>	Visitor Center	BAM	98.1	9	40	40	40	40	0
<i>Yosemite</i>	Village	BAM	62.7	35	310	290	250	230	18

^a The primary annual National Ambient Air Quality Standard for PM₁₀ is an annual arithmetic mean of 50 µg/m³. (An exceedance of the standard occurs when an annual arithmetic mean of PM₁₀ concentrations is greater than 50 µg/m³. A violation of the standard occurs when the 3-year average of the weighted annual mean PM₁₀ concentrations is greater than 50 µg/m³.) (40 CFR 50.6.)

^b The primary daily National Ambient Air Quality Standard for PM₁₀ is a 24-hour average concentration of 150 µg/m³. (An exceedance of the standard occurs when a 24-hour average PM₁₀ concentration is greater than 150 µg/m³. A violation of the standard occurs when a 24-hour average concentration greater than 150 µg/m³ occurs more than once in a calendar year.) (40 CFR 50.6.)

* TEOM = tapered element oscillating microbalance
 BAM = beta attenuation monitor

Color shading key: **Red** >50 µg/m³ annual arithmetic mean, >150 µg/m³ 24-hour average

italics = site operated by a state agency

Table 11. 2018 PM₁₀ summary - maximum daily 24-hour average concentration in 2010-2012 (µg/m³)^a

National Park Unit	Site Name	Sampler Type*	2017	2016	2015
Sites operated by cooperating state agencies					
<i>Badlands</i>	Visitor Center	BAM	60	80	40
<i>Wind Cave</i>	Visitor Center	BAM	40	100	40
<i>Yosemite</i>	Village	BAM	(310)	140	---

^a The primary daily National Ambient Air Quality Standard for PM₁₀ is a 24-hour average concentration of 150 µg/m³. (An exceedance of the standard occurs when a 24-hour average PM₁₀ concentration is greater than 150 µg/m³. A violation of the standard occurs when a 24-hour average concentration greater than 150 µg/m³ occurs more than once in a calendar year.) (40 CFR 50.6.)

* TEOM = tapered element oscillating microbalance
 BAM = beta attenuation monitor

Color shading key: **Red** more than one 24-hour average concentration >150 µg/m³

italics = site operated by a state agency

Table 12. 2018 Annual summary of selected meteorological data.

National Park Unit	Site Name	Wind Speed (m/s)	Ambient Temperature (degrees C)		Relative Humidity (%)			Precipitation (mm)	
		Average	Average	Maximum	Minimum	Average	Maximum	Minimum	Annual Accumulation
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)									
Big Bend	K-Bar Ranch Road	3.8	22.9	46.7	-9.5	44	95	1	395.9
Canyonlands	Island in the Sky	3.0	13.4	35.8	-10.1	37	97	3	212.1
Chaco Culture	Radio Repeater	4.0	11.4	30.3	-11.4	41	99	5	138.7
Chiricahua	Entrance Station	3.0	16.4	36.6	-5.2	43	100	7	315.9
Craters of the Moon	Visitor Center	3.2	7.5	35.4	-16.7	---	---	---	---
Death Valley	Park Village	3.9	27.3	48.8	6.9	---	---	---	---
Denali	Headquarters	1.3	-0.3	26.9	-34.4	71	100	13	335.2
Dinosaur	West Entrance Housing	1.6	11.1	37.4	-15.6	---	---	---	173.3
Everglades	Beard Center	3.1	24.3	34.1	6.5	78	99	19	1066.7
Glacier	West Glacier Horse Stables	0.8	6.2	36.2	-28.1	---	---	---	---
Grand Canyon	The Abyss	2.9	12.0	31.7	-11.4	39	96	3	265.4
Grand Teton	Science School	2.5	2.7	31.7	-23.9	67	98	10	358.6
Great Basin	Maintenance Yard	2.7	9.8	35.0	-17.1	43	96	4	324.7
Great Smoky Mountains	Cade's Cove	1.2	14.0	31.7	-16.2	80	100	13	1745.5
Great Smoky Mountains	Clingmans Dome	2.5	12.6	22.0	-8.9	90	100	4	1480.3
Great Smoky Mountains	Cove Mountain	4.4	11.8	27.1	-17.2	76	100	7	1611.5
Great Smoky Mountains	Look Rock	2.2	13.2	28.5	-17.0	77	100	15	1660.7
Hawaii Volcanoes	Observatory / Jaggar Museum	4.6	15.0	23.5	8.4	88	100	14	1140.5
Hawaii Volcanoes	Visitor Center	3.5	16.5	25.1	9.4	91	100	26	2896.4
Joshua Tree	Black Rock	3.8	16.9	38.3	-7.1	34	95	3	179.7
Joshua Tree	Cottonwood Visitor Center	2.6	20.1	40.5	-0.9	31	99	5	95.1
Lassen Volcanic	Manzanita Lake Fire Station	1.2	7.5	34.0	-15.2	62	100	6	995.3
Mammoth Cave	Houchin Meadow	1.7	14.3	34.4	-18.3	78	100	21	1362.2
Mesa Verde	Resource Management Area	3.2	11.2	34.2	-14.0	39	95	4	275.5
Minidoka	Maintenance Building	2.3	8.7	39.9	-18.3	63	98	3	---
Petrified Forest	South Entrance	4.0	14.5	37.4	-12.7	---	---	---	---
Pinnacles	SW of East Entrance Station	2.3	15.0	41.8	-7.7	59	99	5	355.5
Rocky Mountain	Long's Peak	2.6	4.7	27.3	-24.3	49	96	5	309.2
Sequoia and Kings Canyon	Ash Mountain	2.5	18.0	38.5	-0.3	49	97	7	516.3
Sequoia and Kings Canyon	Lower Kaweah	1.6	14.5	28.1	-6.8	54	95	13	182.4
Shenandoah	Big Meadows	1.9	8.7	27.0	-20.4	77	100	15	2193.0
Voyageurs	Sullivan Bay	2.3	3.8	32.0	-31.4	72	100	15	503.2
Yellowstone	Old Faithful Snow Lodge	1.6	1.8	30.7	-34.2	68	99	11	---
Yellowstone	Water Tank	1.6	1.4	28.5	-30.3	67	95	10	505.2
Yellowstone	West Entrance	1.0	2.3	32.9	-35.8	70	100	7	---
Yosemite	Turtleback Dome	4.1	12.3	29.6	-12.0	47	98	5	707.5
Zion	Dalton's Wash	4.0	17.5	42.3	-6.2	---	---	---	255.5
Sites operated by the NPS for the Bureau of Land Management									
Meeker	Plant Science Center	3.5	8.1	34.9	-21.7	53	100	8	391.3
Rangely	Golf Course	3.2	10.2	37.1	-18.5	48	100	4	208.4
Sites operated by cooperating state agencies									
Acadia	Cadillac Mountain	4.4	13.3	26.2	2.0	76	100	23	---
Acadia	McFarland Hill	2.7	7.4	32.6	-23.5	73	100	16	1413.5

Table 12. 2018 Annual summary of selected meteorological data (continued).

National Park Unit	Site Name	Wind Speed (m/s)	Ambient Temperature (degrees C)		Relative Humidity (%)			Precipitation (mm)	
		Average	Average	Maximum	Minimum	Average	Maximum	Minimum	Annual Accumulation
Sites operated by cooperating state agencies									
<i>Cape Cod</i>	Cape Cod	2.4	10.8	35.9	-15.2	71	91	20	----
<i>Chamizal</i>	Chamizal	3.1	20.3	40.2	-3.0	31	95	3	----
<i>Indiana Dunes</i>	Ammunition Bunker	3.1	10.3	35.9	-23.9	74	100	12	----
<i>Saguaro</i>	East	----	21.5	41.3	-1.2	32	99	2	----
<i>Theodore Roosevelt</i>	Painted Canyon Visitor Cntr	4.8	6.6	40.5	-30.7	68	97	12	353.4
<i>Wind Cave</i>	Visitor Center	2.8	8.5	35.2	-21.9	58	96	8	336.4
Portable ozone monitoring systems (POMS) (seasonal)									
<u>Carlsbad Caverns</u>	Maintenance Area	4.6	23.4	38.8	-0.5	44	99	5	269.5
<u>Joshua Tree</u>	Pinto Wells	3.3	23.8	46.8	-1.8	27	98	4	86.6
<u>Mojave</u>	Kelso Mountains	3.5	24.1	39.0	1.4	27	100	6	37.0

Note: Dashed lines represent no data available for that particular parameter at that site.

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