

Table 1. 2014 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	PM	WS/WD	TMP	RH	RNF	SOL	Filter Pack ^b
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)																			
Abraham Lincoln Birthplace	Visitor's Center	KY	ABLU-VC	---	21-123-1001	37.5314	85.7347	215	3	---	---	---	---	X	X	X	---	---	---
Big Bend	K-Bar Ranch Road	TX	BIBE-KB	BBE401	48-043-0101	29.3027	103.1778	1057	25	---	---	---	---	X	X	X	X	X	X
Canyonlands	Island in the Sky	UT	CANY-IS	CAN407	49-037-0101	38.4583	109.8213	1794	23	---	---	---	---	X	X	X	X	X	X
Carlsbad Caverns	Maintenance Area	NM	CAVE-MA	---	35-015-3001	32.1792	104.4417	1310	9	---	---	---	---	X	X	X	X	X	---
Chiricahua	Entrance Station	AZ	CHIR-ES	CHA467	04-003-8001	32.0094	109.3891	1569	24	---	---	---	---	X	X	X	X	X	X
Craters of the Moon	Visitor Center	ID	CRMO-VC	---	16-023-0101	43.4606	113.5622	1815	23	---	---	---	---	X	X	X	---	---	---
Cumberland Gap	Hensley Settlement	TN	CUGA-HS	---	21-013-1002	36.6719	83.5264	1013	9	---	---	---	---	X	X	X	X	X	---
Death Valley	Park Village	CA	DEVA-PV	---	06-027-0101	36.5092	116.8481	125	22	---	---	---	---	X	X	X	X	X	---
Denali	Headquarters	AK	DENA-HQ	DEN417	02-068-0003	63.7232	148.9676	663	28	---	---	---	---	X	X	X	X	X	X
Dinosaur	West Entrance Housing	UT	DINO-WE	---	49-047-1002	40.4373	109.3046	2072	14	---	---	---	---	X	X	X	X	X	---
Everglades	Beard Center	FL	EVER-BC	EVE419	12-086-0030	25.3912	80.6808	1	---	---	---	---	---	X	X	X	X	X	X
Fort Laramie	North Boundary	WY	FOLA-NB	---	56-015-0004	42.2092	104.5486	1298	---	---	---	---	X	X	X	X	---	---	---
Glacier	West Glacier Horse Stables	MT	GLAC-WG	GLR468	30-029-8001	48.5103	113.9968	964	23	---	---	---	---	X	X	X	X	X	X
Great Basin	Maintenance Yard	NV	GRBA-MY	GRB411	32-033-0101	39.0051	114.2159	2058	22	---	---	---	---	X	X	X	X	X	X
Grand Canyon	The Abyss	AZ	GRCA-AS	GRC474	04-005-8001	36.0586	112.1836	2070	22	---	---	---	---	X	X	X	X	X	X
Great Smoky Mountains	Clingmans Dome	TN	GRSM-CD	---	47-155-0102	35.5619	83.4981	2021	22	---	---	---	---	X	X	X	X	X	---
Great Smoky Mountains	Cove Mountain	TN	GRSM-CM	---	47-155-0101	35.6967	83.6086	1243	27	X	---	---	---	X	X	X	X	---	---
Great Smoky Mountains	Look Rock NCore	TN	GRSM-LN	GRS420	47-009-0101	35.6967	83.6086	1243	---	X	X	X	---	---	---	---	---	---	---
Great Smoky Mountains	Look Rock	TN	GRSM-LR	GRS420	47-009-0101	35.6335	83.9416	801	27	---	X	X	X	X	X	X	X	X	X
Grand Teton	Science School	WY	GRTE-SS	---	56-039-0008	43.6708	110.5994	2105	4	---	---	---	---	X	X	X	X	X	---
Hawaii Volcanoes	Observatory / Jaggar Museum	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	34.0696	116.3889	1243	22	---	---	---	---	X	X	X	X	X	X
Joshua Tree	Cottonwood Canyon	CA	JOTR-CC	---	06-065-0008	33.7411	115.8206	984	10	---	---	---	---	X	X	X	X	X	---
Joshua Tree	Pinto Wells	CA	JOTR-PW	---	06-065-1004	33.9397	115.4108	326	9	---	---	---	---	X	X	X	X	X	---
Kings Mountain	Brown's Mountain	SC	KIMO-BM	---	45-021-0003	35.1314	81.405	340	4	---	---	---	---	X	X	X	X	X	---
Lassen Volcanic	Manzanita Lake Fire Station	CA	LAVO-ML	LAV410	06-089-3003	40.5400	121.5765	1755	28	---	---	---	---	X	X	X	X	X	X
Mammoth Cave	Houchin Meadow	KY	MACA-HM	MAC426	21-061-0501	37.1318	86.1430	230	19	X	X	X	---	X	X	X	X	X	X
Mesa Verde	Resource Management Area	CO	MEVE-RM	MEV405	08-083-0101	37.1984	108.4905	2170	22	---	---	---	---	X	X	X	X	X	X

Table 1. 2014 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 the National Park Service (Gaseous Pollutant Monitoring Program)																			
<u>Mojave</u>	Keiso Mountains	CA	MOJA-KM	---	06-071-1001	35.1019	115.7767	1212	8	---	---	---	---	X	X	X	X	X	---
Petrified Forest	South Entrance	AZ	PEFO-SE	PET427	04-017-0119	34.8225	109.8925	1712	13	---	---	---	---	X	X	X	X	X	X
Pinnacles	SW of East Entrance Station	CA	PINN-ES	PIN414	06-069-0003	36.4832	121.1569	317	28	---	---	---	---	X	X	X	X	X	X
Rocky Mountain	Long's Peak	CO	ROMO-LP	ROM406	08-069-0007	40.2781	105.5456	2742	28	---	---	---	---	X	X	X	X	X	X
<u>Rocky Mountain</u>	Trail Ridge	CO	ROMO-TR	---	---	40.3900	105.6869	3498	3	---	---	---	---	X	X	X	X	X	---
Sequoia and Kings Canyon	Ash Mountain	CA	SEKI-AS	SEK430	06-107-0009	36.4895	118.8292	510	16	---	---	---	X	X	X	X	X	X	X
Sequoia and Kings Canyon	Lower Kaweah	CA	SEKI-LK	---	06-107-0006	36.5658	118.7772	1890	31	---	---	---	---	X	X	X	X	X	---
Shenandoah	Big Meadows	VA	SHEN-BM	SHN418	51-113-0003	38.5231	78.4347	1068	32	---	---	---	---	X	X	X	X	X	X
Voyageurs	Sullivan Bay	MN	VOYA-SB	VOY413	27-137-0034	48.4125	92.8292	427	19	---	---	---	---	X	X	X	X	X	X
Yellowstone	Old Faithful Snow Lodge	WY	YELL-OS	---	56-039-1013	44.3731	110.8308	2230	---	---	X	---	X	X	X	X	---	---	---
Yellowstone	Water Tank	WY	YELL-WT	YEL408	56-039-1011	44.5654	110.4003	2430	19	---	---	---	---	X	X	X	X	X	X
Yosemite	Turtleback Dome	CA	YOSE-ID	YOS404	06-043-0003	37.7133	119.7062	1599	22	---	---	---	---	X	X	X	X	X	X
Zion	Dalton's Wash	UT	ZION-DW	---	49-053-0130	37.1983	113.1506	1213	11	---	---	---	---	X	X	X	X	X	---
# active park units: 33 # active park sites: 42																			
Sites operated by the NPS for the Bureau of Land Management																			
Meeker	Plant Science Center	CO	MEEK-PS	---	08-103-0005	40.0039	107.8475	1994	5	---	---	X	X	X	X	X	X	X	---
Rangely	Golf Course	CO	RANG-GC	---	08-103-0006	40.0869	108.7614	1655	5	---	---	X	X	X	X	X	X	X	---
# active units: 2 # active sites: 2																			
Sites operated by the NPS for the U.S. Forest Service																			
Escalante	Visitor Center	UT	ESCA-VC	---	49-017-0044	37.7756	111.6147	1789	4	---	---	---	---	X	X	X	X	X	---
Walden	Chandler Ranch	CO	WALD-CR	---	08-057-0003	40.8822	106.3061	2417	4	---	X	X	---	X	X	X	---	X	---
# active units: 2 # active sites: 2																			
Sites operated by cooperating state agencies																			
<u>Acadia</u>	Cadillac Mountain	ME	ACAD-CM	---	23-009-0102	44.4083	68.2461	37	20	---	---	---	---	X	X	X	---	---	---
<u>Acadia</u>	McFarland Hill	ME	ACAD-MH	ACA416	23-009-0103	44.3771	68.2608	153	17	---	---	---	X	X	X	X	X	X	X
<u>Badlands</u>	Visitor Center	SD	BADL-VC	---	46-071-0001	43.7436	101.9414	739	12	---	---	X	X	---	---	---	---	---	---
<u>Cape Cod</u>	Cape Cod	MA	CACO-XX	---	25-001-0002	41.9758	70.0247	41	28	---	---	---	---	X	X	X	---	X	---
<u>Chamizal</u>	Chamizal	TX	CHAM-XX	---	48-141-0044	31.7656	106.455	1128	23	---	---	---	---	X	X	X	---	X	---

Table 1. 2014 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
<i>Congaree</i>	Congaree Bluff	SC	COSW-BL	---	45-079-0021	33.8147	80.7811	34	15	X	---	---	---	---	---	---	---	---	---
<i>Cowpens</i>	State Monitor	SC	COWP-SM	---	45-021-0002	35.1304	81.8166	297	27	---	---	---	---	---	---	---	---	---	---
<i>Everglades</i>	Cutler Road	FL	EVER-CR	---	12-086-0029	25.5861	80.3269	4	30	---	---	---	---	---	---	---	---	---	---
<i>Great Smoky Mountains</i>	Cades Cove	TN	GRSM-CC	---	47-009-0102	35.6042	83.7831	564	22	---	---	---	---	X	X	X	X	X	---
<i>Great Smoky Mountains</i>	Purchase Knob	NC	GRSM-PK	---	37-087-0036	35.59	83.0775	1500	16	---	---	---	---	---	---	---	---	---	---
<i>Indiana Dunes</i>	Ammunition Bunker	IN	INDU-AB	---	18-089-0022	41.7169	86.9075	187	22	---	---	---	X	X	X	X	---	X	---
<i>Mount Rainier</i>	Jackson Visitor's Center	WA	MORA-JV	---	53-053-0012	46.7853	121.7378	1615	17	---	---	---	---	---	---	---	---	---	---
<i>Saguaro</i>	East	AZ	SAGU-EA	---	04-019-0021	32.1744	110.7364	938	23	---	---	---	---	---	X	X	---	X	---
<i>Theodore Roosevelt</i>	Painted Canyon Visitor Cntr	ND	THRO-VC	THR422	38-007-0002	46.8948	103.3777	840	17	X	---	---	X	X	X	X	X	X	X
<i>Wind Cave</i>	Visitor Center	SD	WICA-VC	WNC429	46-033-0132	43.5576	103.4839	1288	11	---	---	---	X	X	X	X	X	X	X
<i>Yellowstone</i>	West Yellowstone	MT	YELL-WS	---	30-031-0017	44.6569	111.0894	2030	---	---	X	X	X	X	X	---	---	---	---
<i>Yosemite</i>	Village	CA	YOSE-VI	---	06-043-1001	37.7458	119.6028	1216	---	---	---	---	X	---	---	---	---	---	---
# active park units: 15 # active park sites: 17																			

^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, 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

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. 2014 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 ^a	5 th Highest	# Days with 8-Hour Average O ₃ Values ≥76 ppb ^a
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)								
Big Bend	K-Bar Ranch Road	347	65	65	65	64	64	0
Canyonlands	Island in the Sky	341	68	65	64	64	64	0
Chiricahua	Entrance Station	351	74	72	69	68	67	0
Craters of the Moon	Visitor Center	342	68	66	62	62	61	0
Death Valley	Park Village	361	75	72	72	69	68	0
Denali	Headquarters	362	64	60	59	58	57	0
Dinosaur	West Entrance Housing	327	69	65	64	64	64	0
Glacier	West Glacier Horse Stables	336	55	54	53	52	52	0
Grand Canyon	The Abyss	349	74	71	71	69	68	0
Grand Teton	Science School	356	65	64	62	60	59	0
Great Basin	Maintenance Yard	338	71	66	65	64	64	0
Great Smoky Mountains	Clingmans Dome	171	68	67	66	66	65	0
Great Smoky Mountains	Cove Mountain	354	69	68	68	68	65	0
Great Smoky Mountains	Look Rock	358	69	68	66	64	63	0
Joshua Tree	Black Rock	363	96	91	90	90	89	37
Joshua Tree	Cottonwood Canyon	261	93	92	91	91	88	13
Lassen Volcanic	Manzanita Lake Fire Station	357	68	67	66	65	65	0
Mammoth Cave	Houchin Meadow	354	67	66	66	65	65	0
Mesa Verde	Resource Management Area	330	68	67	67	65	64	0
Petrified Forest	South Entrance	359	71	71	69	68	67	0
Pinnacles	SW of East Entrance Station	359	75	71	71	69	69	0
Rocky Mountain	Long's Peak	338	69	69	69	69	67	0
Sequoia and Kings Canyon	Ash Mountain	348	91	91	89	89	88	51
Sequoia and Kings Canyon	Lower Kaweah	190	93	85	85	84	84	46
Shenandoah	Big Meadows	356	64	63	63	62	62	0
Voyageurs	Sullivan Bay	350	65	64	60	57	56	0
Yellowstone	Water Tank	356	69	66	62	61	60	0
Yosemite	Turtleback Dome	352	84	78	77	77	75	4
Zion	Dalton's Wash	334	71	67	66	65	64	0
Sites operated by the NPS for the Bureau of Land Management								
Meeker	Plant Science Center	348	63	63	63	62	61	0
Rangely	Golf Course	345	66	64	64	62	61	0
Sites operated by the NPS for the U.S. Forest Service								
Escalante	Visitor Center	362	64	63	60	60	60	0
Walden	Chandler Ranch	358	63	61	61	59	59	0
Sites operated by cooperating state agencies								
Acadia	Cadillac Mountain	183	72	70	66	65	65	0
Acadia	McFarland Hill	355	70	68	62	62	62	0
Badlands	Visitor Center	353	66	59	58	57	57	0
Cape Cod	Cape Cod	356	65	62	60	59	59	0
Chamizal	Chamizal	361	72	71	68	66	66	0
Congaree	Congaree Bluff	276	59	58	57	56	56	0
Cowpens	State Monitor	288	67	67	67	66	64	0

Table 2. 2014 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	5 th Highest	# Days with 8-Hour Average O ₃ Values ≥76 ppb ^a
Sites operated by cooperating state agencies								
<i>Everglades</i>	Cutler Road	343	63	62	61	61	61	0
<i>Great Smoky Mountains</i>	Cades Cove	243	62	60	59	58	58	0
<i>Great Smoky Mountains</i>	Purchase Knob	211	68	66	65	64	64	0
<i>Indiana Dunes</i>	Ammunition Bunker	175	73	70	69	67	65	0
<i>Mount Rainier</i>	Jackson Visitor's Center	301	67	64	61	60	60	0
<i>Saguaro</i>	East	363	79	71	69	69	66	1
<i>Theodore Roosevelt</i>	Painted Canyon Visitor Cntr	364	57	57	56	55	54	0
<i>Wind Cave</i>	Visitor Center	364	59	59	58	57	54	0
Portable ozone monitoring systems (POMS)^b								
<u>Abraham Lincoln Birthplace</u>	Visitor's Center	121	60	60	59	57	56	0
<u>Carlsbad Caverns</u>	Maintenance Area	100	74	70	69	68	65	0
<u>Cumberland Gap</u>	Hensley Settlement	182	68	67	66	65	64	0
<u>Joshua Tree</u>	Pinto Wells	322	92	91	90	88	86	19
<u>Kings Mountain</u>	Brown's Mountain	139	72	70	67	66	66	0
<u>Mojave</u>	Kelso Mountains	194	81	81	80	80	79	6
<u>Rocky Mountain</u>	Trail Ridge	68	74	72	68	68	67	0

^a The 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.) Exceedances of the standard are highlighted here in orange or 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.

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

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

Color shading key: 4th highest 8-hour average = 76 - 104 ppb ozone concentration # days with 8-hour average ≥76 ppb = 4 - 10 days
 ≥ 105 ppb ozone concentration > 10 days

Table 3. 2014 Ozone violation summary - primary standard^{a,b}.

National Park Unit	Site Name	2012-2014	2011-2013	2010-2012	2008-2010	2008-2010	2007-2009	2006-2008	2005-2007
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)									
Big Bend	K-Bar Ranch Road	65	71	70	69	64	66	66	66
Canyonlands	Island in the Sky	67	69	69	68	69	70	71	70
Chiricahua	Entrance Station	71	73	73	70	68	66	69	71
Craters of the Moon	Visitor Center	62	63	63	61	62	(64)	(67)	(67)
Death Valley	Park Village	70	72	72	71	72	77	81	84
Denali	Headquarters	54	52	52	53	58	58	58	52
Dinosaur	West Entrance Housing	(84)	---	---	---	---	---	---	---
Glacier	West Glacier Horse Stables	53	54	55	55	55	55	56	56
Grand Canyon	The Abyss	70	72	72	69	68	68	70	72
Grand Teton	Science School	62	(60)	(60)	(54)	---	---	---	---
Great Basin	Maintenance Yard	71	74	72	70	69	71	72	73
Great Smoky Mountains	Clingmans Dome	(67)	(71)	(75)	(75)	(76)	(79)	(84)	(83)
Great Smoky Mountains	Cove Mountain	68	72	76	75	76	79	82	82
Great Smoky Mountains	Look Rock	67	74	79	77	77	79	85	86
Joshua Tree	Black Rock	90	90	94	93	98	100	104	103
Joshua Tree	Cottonwood Canyon	(81)	(76)	(76)	(78)	(81)	(80)	(79)	(66)
Lassen Volcanic	Manzanita Lake Fire Station	68	68	67	64	70	74	77	72
Mammoth Cave	Houchin Meadow	69	71	75	70	70	72	74	76
Mesa Verde	Resource Management Area	67	69	68	68	68	69	71	73
Petrified Forest	South Entrance	70	70	70	66	67	(67)	(70)	(70)
Pinnacles	SW of East Entrance Station	70	70	70	70	76	77	79	74
Rocky Mountain	Long's Peak	74	76	77	74	73	74	76	76
Sequoia and Kings Canyon	Ash Mountain	91	93	95	96	(101)	(103)	(105)	(103)
Sequoia and Kings Canyon	Lower Kaweah	(86)	85	81	79	86	90	96	95
Shenandoah	Big Meadows	65	69	72	71	73	73	75	76
Voyageurs	Sullivan Bay	59	59	63	62	(62)	(61)	(61)	(65)
Yellowstone	Water Tank	63	65	66	65	64	64	66	64
Yosemite	Turtleback Dome	77	77	78	77	83	86	(88)	85
Zion	Dalton's Wash	70	72	73	70	70	70	71	78
# park units with violations (0.08 ppm standard):							3	4	4
# sites with violations:							4	5	5
# park units with violations (0.075 ppm standard):		4	4	5	4	5			
# sites with violations:		6	6	8	6	9			
Sites operated by the NPS for the Bureau of Land Management									
Meeker	Plant Science Center	63	63	64	(64)	(66)	---	---	---
Rangely	Golf Course	74	77	66	(65)	(58)	---	---	---
# units with violations (0.08 ppm standard):							---	---	---
# sites with violations:							---	---	---
# units with violations (0.075 ppm standard):		0	1	0	0	0			
# sites with violations:		0	1	0	0	0			
Sites operated by the NPS for the U.S. Forest Service									
Escalante	Visitor Center	65	(67)	(68)	---	---	---	---	---
Walden	Chandler Ranch	60	(61)	(59)	---	---	---	---	---
# units with violations (0.08 ppm standard):							---	---	---
# sites with violations:							---	---	---
# units with violations (0.075 ppm standard):		0	0	0	---	---			
# sites with violations:		0	0	0	---	---			

Table 3. 2014 Ozone violation summary - primary standard^{a,b} (continued).




National Park Unit	Site Name	2012-2014	2011-2013	2010-2012	2009-2011	2008-2010	2007-2009	2006-2008	2005-2007
Sites operated by cooperating state agencies									
<i>Acadia</i>	Cadillac Mountain	66	69	72	74	74	78	80	83
<i>Acadia</i>	McFarland Hill	63	65	65	69	69	73	72	74
<i>Badlands</i>	Visitor Center	61	59	58	54	55	57	62	68
<i>Cape Cod</i>	Cape Cod	69	72	75	72	74	76	79	84
<i>Chamizal</i>	Chamizal	68	69	70	69	70	71	75	74
<i>Congaree</i>	Congaree Bluff	55	57	61	62	65	67	71	73
<i>Cowpens</i>	State Monitor	65	67	71	66	69	67	74	73
<i>Everglades</i>	Cutler Road	63	64	63	63	67	69	72	69
<i>Great Smoky Mountains</i>	Cades Cove	60	63	68	68	69	69	72	70
<i>Great Smoky Mountains</i>	Purchase Knob	66	67	69	67	72	74	77	77
<i>Indiana Dunes</i>	Ammunition Bunker	69	69	69	62	61	(68)	73	82
<i>Mount Rainier</i>	Jackson Visitor's Center	60	58	56	54	(52)	(56)	(59)	61
<i>Saguaro</i>	East	71	73	71	70	69	71	74	76
<i>Theodore Roosevelt</i>	Painted Canyon Visitor Cntr	56	57	58	58	59	60	63	63
<i>Wind Cave</i>	Visitor Center	62	63	62	60	(59)	63	67	70
# park units with violations (0.08 ppm standard):							0	0	0
# sites with violations:							0	0	0
# park units with violations (0.075 ppm standard):		0	0	0	0	0			
# sites with violations:		0	0	0	0	0			

^a The current 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 previous 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.

Table 4. 2014 Summary of indices for resource injury (SUM06 and W126).

National Park Unit	Site Name	O ₃ % Valid	SUM06 ^a (ppm-hr)	W126 ^b (ppm-hr)	Period
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)					
Big Bend	K-Bar Ranch Road	95.6	7.5	7.4	March-May
Canyonlands	Island in the Sky	96.3	8.0	10.3	April-June
Chiricahua	Entrance Station	97.1	20.2	13.8	April-June
Craters of the Moon	Visitor Center	96.7	2.7	5.4	June-August
Death Valley	Park Village	99.4	19.1	14.5	April-June
Denali	Headquarters	99.5	1.2	3.2	March-May
Dinosaur	West Entrance Housing	93.3	7.7	9.1	May-July
Glacier	West Glacier Horse Stables	94.5	0.1	1.7	March-May
Great Basin	Maintenance Yard	95.4	8.7	9.6	April-June
Grand Canyon	The Abyss	97.4	11.5	11.1	April-June
Great Smoky Mountains	Clingmans Dome	72.9	1.1	3.4	May-July
Great Smoky Mountains	Cove Mountain	98.9	6.5	7.0	March-May
Great Smoky Mountains	Look Rock	99.6	6.3	6.6	March-May
Grand Teton	Science School	99.3	3.2	6.1	March-May
Joshua Tree	Black Rock	99.7	50.7	35.9	May-July
Joshua Tree	Cottonwood Canyon	74.7	40.6	26.9	April-June
Lassen Volcanic	Manzanita Lake Fire Station	99.2	5.0	6.2	April-June
Mammoth Cave	Houchin Meadow	99.1	6.6	6.6	April-June
Mesa Verde	Resource Management Area	91.3	10.0	10.9	May-July
Petrified Forest	South Entrance	99.4	13.2	12.1	April-June
Pinnacles	SW of East Entrance Station	99.3	9.4	7.9	April-June
Rocky Mountain	Long's Peak	99.3	12.5	11.8	April-June
Sequoia and Kings Canyon	Ash Mountain	97.0	58.9	41.0	July-September
Sequoia and Kings Canyon	Lower Kaweah	99.5	51.1	34.7	June-August
Shenandoah	Big Meadows	98.7	3.4	6.0	March-May
Voyageurs	Sullivan Bay	97.8	1.9	2.7	March-May
Yellowstone	Water Tank	98.7	3.7	6.5	April-June
Yosemite	Turtleback Dome	98.3	29.8	20.2	June-August
Zion	Dalton's Wash	92.4	12.6	11.3	April-June
Sites operated by the NPS for the Bureau of Land Management					
Meeker	Plant Science Center	98.5	4.4	6.9	April-June
Rangely	Golf Course	97.0	5.2	7.7	May-July
Sites operated by the NPS for the U.S. Forest Service					
Escalante	Visitor Center	99.7	2.7	6.2	April-June
Walden	Chandler Ranch	99.6	2.9	5.6	April-June
Sites operated by cooperating state agencies					
<i>Acadia</i>	Cadillac Mountain	99.1	3.0	3.0	May-July
<i>Acadia</i>	McFarland Hill	98.8	2.1	2.2	April-June
<i>Badlands</i>	Visitor Center	97.7	0.9	3.9	March-May
<i>Cape Cod</i>	Cape Cod	97.4	1.9	3.1	March-May
<i>Chamizal</i>	Chamizal	99.7	8.6	7.7	May-July
<i>Congaree</i>	Congaree Bluff	95.1	1.0	2.3	April-June
<i>Cowpens</i>	State Monitor	99.4	7.5	6.7	April-June
<i>Everglades</i>	Cutler Road	96.4	2.8	4.1	March-May

Table 4. 2014 Summary of indices for resource injury (SUM06 and W126) (continued).

National Park Unit	Site Name	O ₃ % Valid	SUM06 ^a (ppm-hr)	W126 ^b (ppm-hr)	Period
Sites operated by cooperating state agencies					
<i>Great Smoky Mountains</i>	Cades Cove	99.7	1.4	3.9	March-May
<i>Great Smoky Mountains</i>	Purchase Knob	99.6	2.7	5.0	April-June
<i>Indiana Dunes</i>	Ammunition Bunker	97.2	5.5	5.1	May-July
<i>Mount Rainier</i>	Jackson Visitor's Center	81.5	0.2	1.2	July-September
<i>Saguaro</i>	East	99.3	15.1	11.4	May-July
<i>Theodore Roosevelt</i>	Painted Canyon Visitor Center	99.8	0.1	3.0	April-June
<i>Wind Cave</i>	Visitor Center	99.7	0.4	3.1	April-June
Portable ozone monitoring systems (POMS)					
<u>Abraham Lincoln Birthplace</u>	Visitor's Center	74.6	1.5	2.5	June-August
<u>Carlsbad Caverns</u>	Maintenance Area	64.5	8.3	7.7	March-May
<u>Cumberland Gap</u>	Hensley Settlement	100.0	5.5	5.5	April-June
<u>Joshua Tree</u>	Pinto Wells	99.8	62.8	39.7	April-June
<u>Kings Mountain</u>	Brown's Mountain	86.7	9.1	7.5	April-June
<u>Mojave</u>	Kelso Mountains	91.6	30.4	19.6	May-July
<u>Rocky Mountain</u>	Trail Ridge	99.6	4.6	4.3	June-August

^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>.

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

Table 5. 2014 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)					No. of Days with 3-Hr Maximum \geq 550 ppb
		1 st Highest	2 nd Highest	3 rd Highest	4 th Highest	99 th Percentile Value	No. of Days with 1-Hr Average \geq 76 ppb	1 st Highest	2 nd Highest	3 rd Highest	4 th Highest	
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)												
Great Smoky Mountains	Look Rock NCore	2	2	1	1	2	0	2	1	1	1	0
Hawaii Volcanoes *	Observatory / Jaggar Museum	1830	1787	1183	1117	1117	108	1398	1037	687	624	4
Hawaii Volcanoes *	Visitor Center	1538	1314	1249	1135	1135	87	879	824	618	610	5
Mammoth Cave	Houchin Meadow	17	15	12	11	11	0	14	10	9	8	0
Sites operated by cooperating state agencies												
Badlands	Visitor Center	4	2	2	2	2	0	2	2	1	1	0
Congaree	Congaree Bluff	25	21	13	13	25	0	11	10	9	8	0
Indiana Dunes	Ammunition Bunker	128	118	78	53	53	3	60	60	43	38	0
Theodore Roosevelt	Painted Canyon Visitor Ctr	9	5	4	4	4	0	4	3	2	2	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 $\mu\text{g}/\text{m}^3$ exceeds the standard.) (40 CFR 50.5.)

* This site collected sulfur dioxide data using an instrument or a range that is not an EPA reference method.

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

Color shading key: >34 ppb annual arithmetic mean, > 75 ppb 99th percentile value, or >549 ppb 3-hour average

Table 6. 2014 Summary of carbon monoxide data.

National Park Unit	Site Name	Highest Daily Maximum 1-Hour Average Concentration ^a (ppm)				No. of Days with 1-Hr Average \geq 35 ppm	Highest Daily Maximum 8-Hour Average Concentration ^b (ppm)				No. of Days with 8-Hr Average \geq 9 ppm
		1 st Highest	2 nd Highest	3 rd Highest	4 th Highest		1 st Highest	2 nd Highest	3 rd Highest	4 th Highest	
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)											
Great Smoky Mountains	Look Rock NCore	0.3	0.3	0.3	0.3	0	0.2	0.2	0.2	0.2	0
Mammoth Cave	Houchin Meadow	0.4	0.3	0.3	0.3	0	0.3	0.2	0.2	0.2	0
Walden	Chandler Ranch	0.3	0.3	0.3	0.3	0	0.2	0.2	0.2	0.2	0
Yellowstone	Old Faithful Snow Lodge	1.0	1.0	0.9	0.9	0	0.5	0.5	0.4	0.4	0
Sites operated by cooperating state agencies											
Yellowstone	West Yellowstone	4.9	3.5	2.6	2.5	0	0.8	0.8	0.7	0.6	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 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, Bureau of Land Management, or U.S. Forest Service
italics = site operated by a state agency

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

Table 7. 2014 Summary of nitrogen dioxide data.

National Park Unit	Site Name	Highest Daily Maximum 1-Hour Average Concentrations ^{ab} (ppb)						No. of Days with 1-Hour Average \geq 100 ppb	Annual Arithmetic Mean
		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 NCore	19.2	14.0	12.5	9.2	19.2	0	2.6	
Mammoth Cave	Houchin Meadow	21.3	19.8	18.9	18.5	17.3	0	3.2	
Sites operated by the NPS for the Bureau of Land Management									
Meeker	Plant Science Center	6.1	5.8	5.0	5.0	3.8	0	0.6	
Rangely	Golf Course	19.6	17.6	16.9	15.8	14.3	0	1.7	
Sites operated by the NPS for the U.S. Forest Service									
Walden	Chandlers Ranch	7.6	7.4	7.2	7.0	6.8	0	1.1	
Sites operated by cooperating state agencies									
Yellowstone	West Yellowstone	46.0	43.0	42.0	34.0	28.0	0	2.3	

Table 8. 2014 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 \geq 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)						
Great Smoky Mountains	Look Rock NCore	19.2	14.0	12.5	9.4	0
Mammoth Cave	Houchin Meadow	48.8	26.4	23.4	23.3	0
Sites operated by the NPS for the Bureau of Land Management						
Meeker	Plant Science Center	10.1	10.0	8.9	6.1	0
Rangely	Golf Course	24.2	23.8	23.5	19.8	0
Sites operated by the NPS for the U.S. Forest Service						
Walden	Chandler Ranch	13.5	12.7	12.1	11.3	0
Sites operated by cooperating state agencies						
Yellowstone	West Yellowstone	145.0	105.0	90.0	89.0	2

Table 9. 2014 Summary of PM_{2.5} data from reference and equivalency methods.

National Park Unit	Site Name	Sampler Type*	% Valid ^a	Annual Arithmetic Mean ^b (µg/m ³)	Highest Daily 24-Hour Average Concentrations ^c (µg/m ³)					
					1 st Highest	2 nd Highest	3 rd Highest	4 th Highest	98 th Percentile Value	No. of Days with 24-Hour Average >35 µg/m ³
Sites operated by the National Park Service (Gaseous Pollutant Monitoring Program)										
Fort Laramie	North Boundary	BAM	60.5	4.0	19	14	12	11	12	0
Great Smoky Mountains	Look Rock NCore	TEOM	99.0	8.8	29	23	21	20	19	0
Hawaii Volcanoes	Observatory / Jaggar Museum	SHARP	20.6	8.0	31	20	20	20	20	0
Sequoia and Kings Canyon	Ash Mountain	BAM	67.1	7.8	43	31	30	27	24	1
Shenandoah	Big Meadows	TEOM	94.4	3.0	14	13	10	10	9	0
Yellowstone	Old Faithful Snow Lodge	BAM	93.2	2.0	19	18	17	11	9	0
Sites operated by the NPS for the Bureau of Land Management										
Meeker	Plant Science Center	TEOM	70.0	5.3	18	15	15	13	13	0
Rangely	Golf Course	BAM	88.5	7.3	18	16	14	14	13	0
Sites operated by cooperating state agencies										
<i>Badlands</i>	Visitor Center	BAM	94.1	3.8	17	15	14	13	11	0
<i>Indiana Dunes</i>	Ammunition Bunker	BAM	93.7	14.3	45	41	37	36	34	6
<i>Theodore Roosevelt</i>	Painted Canyon Visitor Ctr	TEOM	98.0	5.3	27	26	24	20	16	0
<i>Wind Cave</i>	Visitor Center	BAM	97.1	2.0	14	12	9	9	7	0
<i>Yellowstone</i>	W. Yellowstone State Site	BAM	96.1	2.3	22	18	17	14	9	0
<i>Yosemite</i>	Village	BAM	95.5	8.5	80	59	44	42	31	6

^a At sites operated by an agency other than the National Park Service, the primary responsibility for the operation and data reporting of particulate matter belongs to the operating agency.

^b 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.)

^c 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
 SHARP = synchronized hybrid ambient real-time particulate monitor

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

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

Table 10. 2014 Summary of PM₁₀ data from reference and equivalency methods.

National Park Unit	Site Name	Sampler Type*	% Valid ^a	Annual Arithmetic Mean ^b (µg/m ³)	Highest Daily 24-Hour Average Concentrations ^c (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	95.4	9	30	30	30	30	0
<i>Wind Cave</i>	Visitor Center	BAM	98.0	7	20	20	20	20	0

^a At sites operated by an agency other than the National Park Service, the primary responsibility for the operation and data reporting of particulate matter belongs to the operating agency.

^b 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.)

^c 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: >50 µg/m³ annual arithmetic mean, >150 µg/m³ 24-hour average

italics = site operated by a state agency

Table 11. 2014 PM₁₀ summary - maximum daily 24-hour average concentration in 2010-2012 (µg/m³)^a

National Park Unit	Site Name	Sampler Type*	2014	2013	2012
Sites operated by cooperating state agencies					
<i>Badlands</i>	Visitor Center	BAM	30	40	60
<i>Wind Cave</i>	Visitor Center	BAM	20	40	50

^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: > 1 24-hour average concentration >150 µg/m³

italics = site operated by a state agency

Table 12. 2014 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	3.7	20.5	39.2	-5.9	41	95	2	240.4
Canyonlands	Island in the Sky	2.8	12.8	34.4	-13.7	40	95	4	245.4
Chiricahua	Entrance Station	3.0	16.5	35.6	-4.9	43	100	6	398.7
Craters of the Moon	Visitor Center	3.5	7.5	34.5	-22.4	---	---	---	---
Death Valley	Park Village	3.6	27.2	48.3	5.6	---	---	---	---
Denali	Headquarters	1.3	0.3	25.3	-30.7	63	98	13	301.2
Everglades	Beard Center	2.7	23.7	34.1	4.6	79	100	20	891.4
Fort Laramie	North Boundary	2.9	17.3	37.6	-8.7	56	97	9	---
Glacier	West Glacier Horse Stables	0.9	5.5	32.5	-30.9	---	---	---	---
Grand Canyon	The Abyss	2.8	12.1	31.1	-8.8	39	95	2	281.3
Grand Teton	Science School	2.7	2.7	30.2	-30.9	70	100	10	370.6
Great Basin	Maintenance Yard	3.1	10.4	33.3	-16.6	40	99	6	355.2
Great Smoky Mountains	Cades Cove	1.3	12.7	31.4	-17.6	77	100	12	1229.3
Great Smoky Mountains	Clingmans Dome	3.5	9.8	19.0	-10.1	88	100	1	953.9
Great Smoky Mountains	Cove Mountain	4.4	9.6	24.8	-24.4	73	100	2	1078.4
Great Smoky Mountains	Look Rock	2.3	12.2	27.2	-21.6	72	100	15	1247.2
Hawaii Volcanoes	Observatory / Jaggar Museum	4.4	16.2	24.2	8.6	87	100	12	1593.8
Hawaii Volcanoes	Visitor Center	3.3	16.2	24.4	6.5	90	100	19	1686.3
Joshua Tree	Black Rock	3.6	17.7	35.8	-5.2	33	98	3	116.1
Joshua Tree	Cottonwood Canyon	3.4	21.4	39.4	-1.8	28	100	5	30.2
Lassen Volcanic	Manzanita Lake Fire Station	1.7	8.2	29.6	-11.5	59	100	8	1218.3
Mammoth Cave	Houchin Meadow	1.9	13.3	33.3	-18.9	70	99	16	1224.8
Mesa Verde	Resource Management Area	3.2	11.1	32.2	-10.3	41	95	4	377.9
Petrified Forest	South Entrance	4.1	13.6	34.1	-10.3	---	---	---	---
Pinnacles	SW of East Entrance Station	2.3	15.9	39.3	-4.3	57	100	5	334.1
Rocky Mountain	Long's Peak	2.7	4.2	25.1	-29.7	51	100	5	503.8
Sequoia and Kings Canyon	Ash Mountain	2.7	18.7	38.2	-1.4	44	97	7	271.6
Sequoia and Kings Canyon	Lower Kaweah	1.9	15.6	27.8	-3.3	48	100	6	126.8
Shenandoah	Big Meadows	2.0	7.6	25.6	-24.0	73	97	7	1303.4
Voyageurs	Sullivan Bay	2.8	2.4	31.6	-34.0	74	100	19	758.5
Yellowstone	Old Faithful Snow Lodge	1.7	2.2	26.8	-34.9	71	100	11	---
Yellowstone	Water Tank	1.7	1.5	26.2	-31.1	70	100	8	653.9
Yosemite	Turtleback Dome	4.1	12.8	31.1	-5.2	44	95	7	613.2
Zion	Dalton's Wash	4.0	17.4	39.8	-5.8	---	---	---	200.7
Sites operated by the NPS for the Bureau of Land Management									
Meeker	Plant Science Center	3.5	7.4	33.7	-29.0	58	100	8	554.9
Rangely	Golf Course	3.1	9.5	35.2	-23.9	52	100	6	299.3
Sites operated by the NPS for the U.S. Forest Service									
Escalante	Visitor Center	3.0	12.3	33.6	-10.7	37	100	5	183.3
Walden	Chandler Ranch	3.9	3.5	29.2	-39.2	65	100	11	---
Sites operated by cooperating state agencies									
Acadia	Cadillac Mountain	5.3	12.7	27.2	-6.9	---	---	---	---
Acadia	McFarland Hill	2.8	7.5	32.7	-22.8	76	100	16	1520.0

Table 12. 2014 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	10.3	31.9	-13.2	69	91	19	----
<i>Chamizal</i>	Chamizal	3.5	20.0	41.0	-4.6	32	92	2	----
<i>Indiana Dunes</i>	Ammunition Bunker	3.5	8.3	33.1	-26.1	72	100	15	----
<i>Saguaro</i>	East	---	22.7	40.5	0.7	32	99	3	----
<i>Theodore Roosevelt</i>	Painted Canyon Visitor Cntr	5.2	5.5	32.3	-28.7	67	97	19	467.8
<i>Wind Cave</i>	Visitor Center	2.9	8.4	35.9	-25.8	58	96	11	538.6
Portable ozone monitoring systems (POMS) (seasonal)									
<u>Abraham Lincoln Birthplace</u>	Visitor's Center	0.6	20.4	35.0	0.5	82	99	25	---
<u>Carlsbad Caverns</u>	Maintenance Area	4.5	23.4	39.5	0.3	44	100	5	491.4
<u>Cumberland Gap</u>	Hensley Settlement	2.3	17.1	26.4	-6.5	80	100	20	666.3
<u>Dinosaur</u>	West Entrance Housing	1.3	7.4	38.0	-31.2	53	99	7	68.5
<u>Joshua Tree</u>	Pinto Wells	3.1	23.7	44.9	-4.4	26	98	3	---
<u>Kings Mountain</u>	Brown's Mountain	1.4	21.7	33.6	-0.1	73	100	13	153.8
<u>Mojave</u>	Kelso Mountains	3.7	23.6	37.8	2.0	26	98	5	89.9
<u>Rocky Mountain</u>	Trail Ridge	2.6	8.3	19.5	-6.1	64	99	13	167.8

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