

Table 2. 2011 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	342	86	84	84	80	80	7
Canyonlands	Island in the Sky	346	73	72	71	69	68	0
Chiricahua	Entrance Station	342	76	75	75	75	74	1
Craters of the Moon	Visitor Center	358	68	64	63	63	62	0
Death Valley	Park Village	352	79	77	76	75	75	3
Denali	Headquarters	363	58	54	53	53	53	0
Glacier	West Glacier Horse Stables	355	58	57	55	55	55	0
Grand Canyon	The Abyss	338	78	77	75	74	74	2
Grand Teton	Science School	126	57	56	56	54	52	0
Great Basin	Maintenance Yard	357	75	75	73	72	71	0
Great Smoky Mountains	Clingmans Dome	179	86	81	80	79	74	4
Great Smoky Mountains	Cove Mountain	360	86	80	78	78	77	8
Great Smoky Mountains	Look Rock	352	87	85	85	83	81	12
Joshua Tree	Black Rock	359	104	98	96	91	90	56
Joshua Tree	Cottonwood Canyon	228	78	77	77	76	76	5
Lassen Volcanic	Manzanita Lake Fire Station	346	66	65	65	65	64	0
Mammoth Cave	Houchin Meadow	356	73	72	72	71	69	0
Mesa Verde	Resource Management Area	363	78	72	70	70	70	1
Mount Rainier	Tahoma Woods	362	56	53	52	51	51	0
Petrified Forest	South Entrance	358	72	70	70	69	69	0
Pinnacles	SW of East Entrance Station	357	73	71	69	69	67	0
Rocky Mountain	Long's Peak	362	80	78	78	77	77	8
Sequoia and Kings Canyon	Ash Mountain	364	103	101	100	98	98	87
Sequoia and Kings Canyon	Lower Kaweah	354	84	83	83	81	81	31
Shenandoah	Big Meadows	354	76	76	75	72	71	2
Voyageurs	Sullivan Bay	346	63	60	60	59	58	0
Yellowstone	Water Tank	353	67	67	67	66	66	0
Yosemite	Turtleback Dome	350	83	79	79	78	78	7
Zion	Dalton's Wash	360	73	72	72	72	71	0
Sites operated by the NPS for the Bureau of Land Management								
Meeker	Plant Science Center	358	64	63	62	62	62	0
Rangely	Golf Course	358	88	88	81	72	69	3
Sites operated by the NPS for the U.S. Forest Service								
Walden	Chandler Ranch	81	47	47	45	45	45	0
Sites operated by cooperating state agencies								
Acadia	Cadillac Mountain	174	92	78	74	74	67	2
Acadia	McFarland Hill	359	74	68	66	66	64	0
Badlands	Visitor Center	359	55	53	52	52	52	0
Cape Cod	Cape Cod	230	74	73	71	68	66	0
Chamizal	Chamizal	361	82	77	76	70	70	3
Congaree	Congaree Bluff	272	66	62	62	62	61	0
Cowpens	State Monitor	253	89	73	71	70	68	1
Everglades	Cutler Road	348	67	66	62	62	61	0
Great Smoky Mountains	Cades Cove	240	71	68	68	68	67	0

Table 2. 2011 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>Great Smoky Mountains</i>	Purchase Knob	208	77	72	67	66	66	1
<i>Indiana Dunes</i>	Ammunition Bunker	178	83	67	66	66	64	1
<i>Mount Rainier</i>	Jackson Visitor's Center	317	60	56	54	53	53	0
<i>Saguaro</i>	East	364	80	78	78	75	74	3
<i>Theodore Roosevelt</i>	Painted Canyon Visitor Cntr	298	59	59	58	57	56	0
<i>Wind Cave</i>	Visitor Center	362	60	60	60	60	59	0
Portable ozone monitoring systems (POMS)^b								
<u>Carlsbad Caverns</u>	Maintenance Area	182	75	75	72	70	70	0
<u>City of Rocks</u>	Juniper Campground	192	62	60	60	59	58	0
<u>Colorado</u>	Maintenance Yard	263	70	69	68	68	67	0
<u>Cumberland Gap</u>	Hensley Settlement	148	68	66	66	65	65	0
<u>Devil's Tower</u>	Joyner Ridge Trail	151	63	57	57	57	56	0
<u>Dinosaur</u>	West Entrance Housing	347	106	106	103	90	88	8
<u>Joshua Tree</u>	Pinto Wells	326	77	76	76	75	75	3
<u>Kings Mountain</u>	Brown's Mountain	146	88	81	74	74	72	2
<u>Little River Canyon</u>	Canyon High	195	81	73	66	66	65	1
<u>Lyndon B. Johnson</u>	Hay Barn	182	74	74	70	70	69	0
<u>Mojave</u>	Kelso Mountains	187	79	78	78	77	77	6
<u>Olympic</u>	Deer Park	63	58	58	55	53	50	0
<u>Russell Cave</u>	Visitor Center	208	71	69	67	62	60	0
<u>Scotts Bluff</u>	Visitor Center	135	66	63	63	63	62	0
<u>Yosemite</u>	School Yard	157	66	62	61	58	57	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.

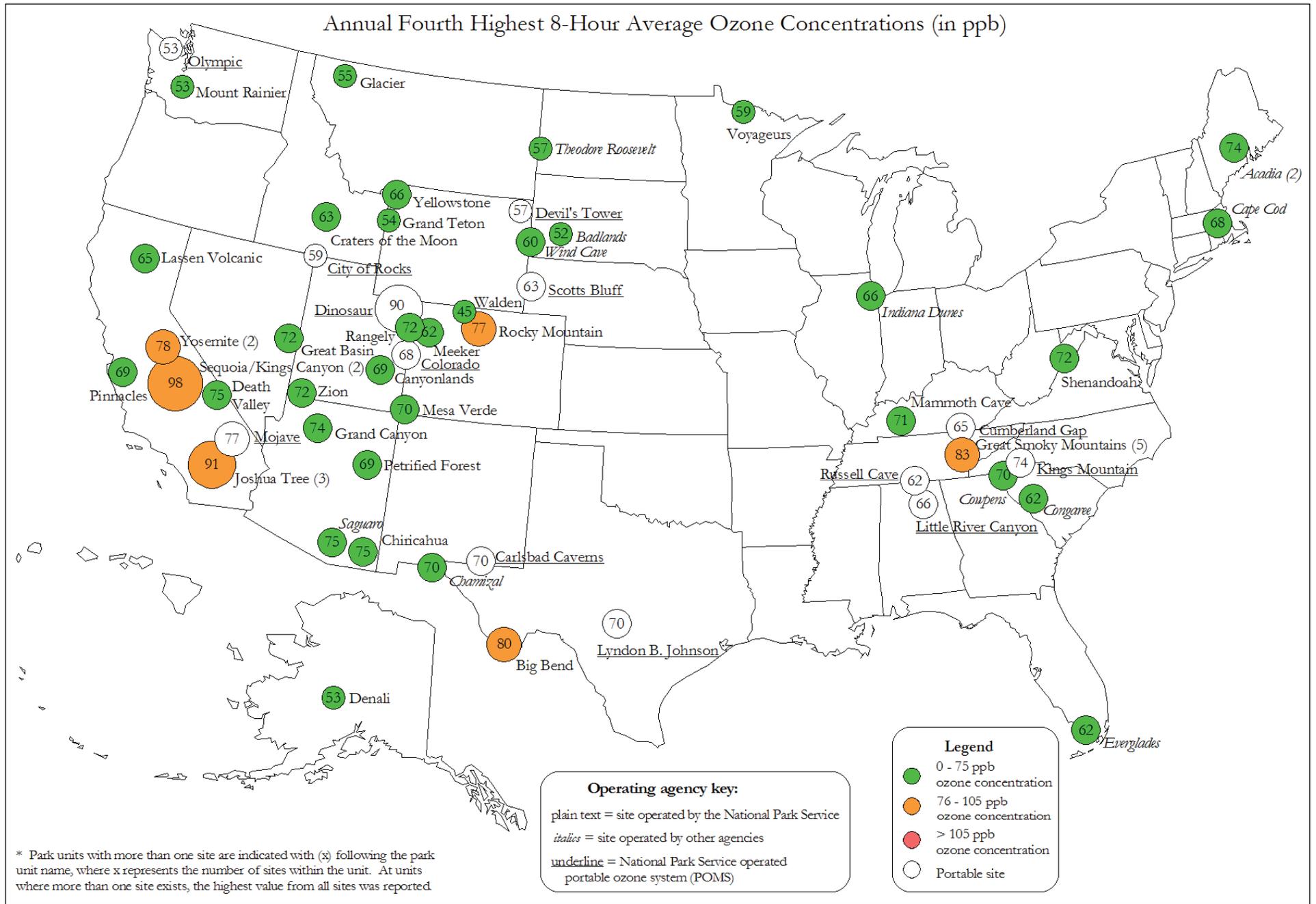
^b The Gaseous Pollutant Monitoring Program Portable Ozone Monitoring Systems (POMS) do not meet EPA standards for regulatory monitoring. However, ozone summary statistics from portable systems can be compared to EPA standards for reference purposes.

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



13 Figure 3. 2011 Annual fourth highest daily maximum 8-hour average ozone concentrations (in ppb).

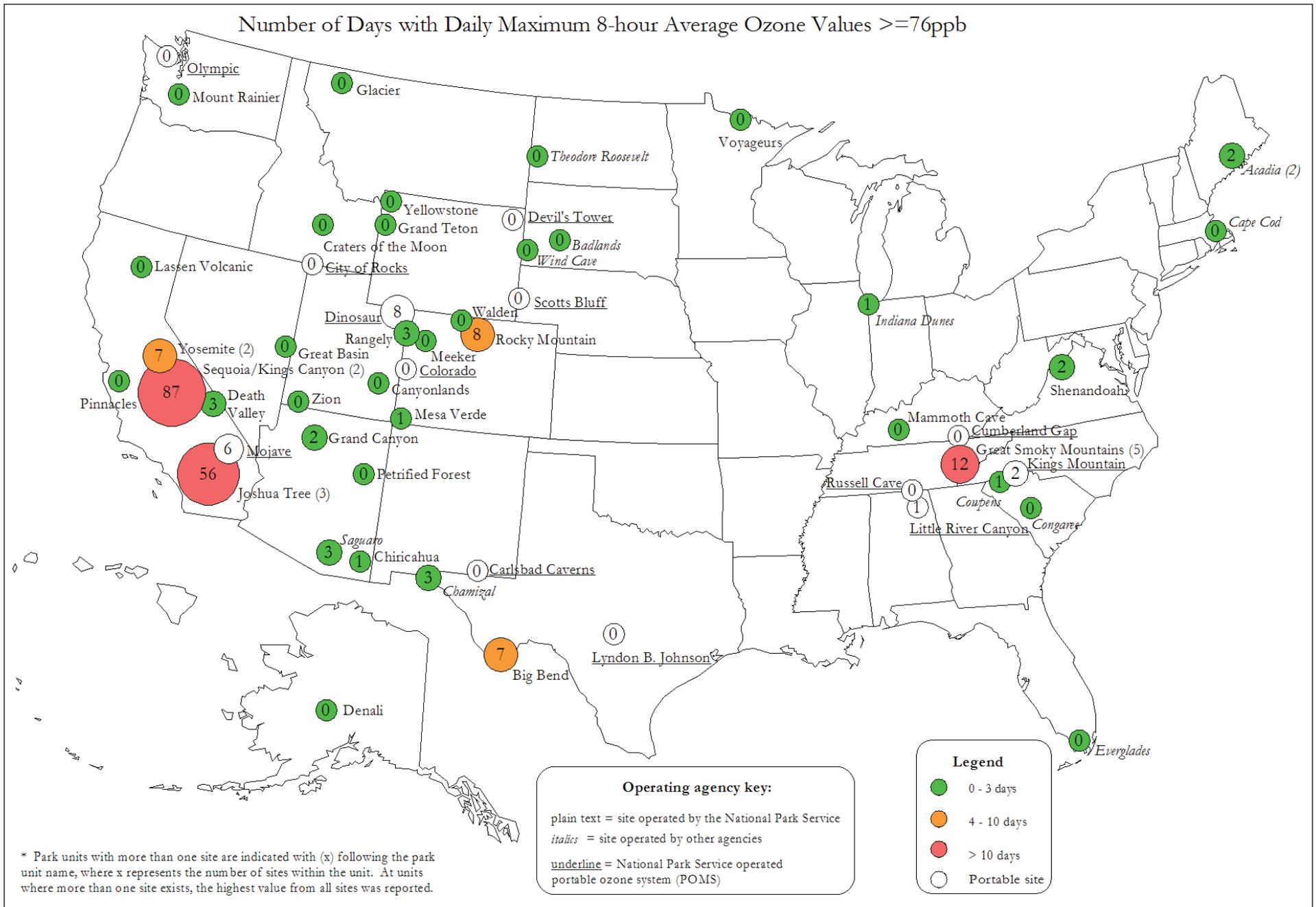


Figure 4. 2011 Annual number of days with daily maximum 8-hour average ozone values ≥ 76 ppb.