



National Park Service
Air Resources Division

2004-2008 5-Year Average Ozone Estimates

* See end of table for statistics definitions and more info

ALPHA	PARK NAME	CLASS	STATE	REGION	ppb 2nd Highest Daily Max.	ppb 4th Highest 8-Hour	ppb Mean O ₃	hours Number Hours > 100 ppb	ppm-hrs SUM06	ppb-hrs 24-Hr Annual W126	ppm-hrs 3-Mo Cumulative 12-Hr W126
ABLI	Abraham Lincoln NHS	2	KY	Southeast	90.8	75.0	33.0	0.8	17.5	25727.4	12.8
ACAD	Acadia NP	1	ME	Northeast	85.4	69.7	33.3	0.9	4.5	12033.9	4.1
AGFO	Agate Fossil Beds NM	2	NE	Midwest	75.5	67.4	39.8	0.2	11.7	16560.9	3.5
ALAG	Alagnak Wild River	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
ALFL	Alibates Flint Quarries NM	2	TX	Intermountain	91.1	68.1	35.7	0.7	11.6	21047.5	9.8
ALPO	Allegheny Portage Railroad NHS	2	PA	Northeast	87.4	75.0	31.7	0.4	14.8	22151.2	11.1
AMIS	Amistad NRA	2	TX	Intermountain	84.2	71.8	30.3	0.8	11.2	21493.8	8.9
AMME	American Mem Park	2	CM	Pacific West	NA	NA	NA	NA	NA	NA	NA
ANIA	Aniakchak Preserve NM & Pres	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
ANTI	Antietam NB	2	MD	National Capital	92.5	77.0	32.1	1.7	17.7	24692.3	13.1
APCO	Appomattox Court House NHP	2	VA	Northeast	88.3	73.2	32.1	1.4	13.7	22021.9	10.6
APIS	Apostle Islands NL	2	WI	Midwest	71.5	63.5	30.8	0.0	4.0	9730.8	4.4
ARCH	Arches NP	1	UT	Intermountain	72.9	69.7	49.1	0.1	21.1	38084.6	14.7
ARPO	Arkansas Post NMem	2	AR	Midwest	89.1	74.6	31.4	1.3	16.7	22340.0	12.1
ASIS	Assateague Island NS	2	MD	Northeast	96.8	81.4	35.8	2.5	20.5	26744.2	15.2
AZRU	Aztec Ruins NM	2	NM	Intermountain	79.5	68.4	36.6	0.1	20.1	31691.4	14.3
BADL	Badlands NP	1	SD	Midwest	69.2	63.9	37.1	0.0	7.4	14853.6	6.3
BAND	Bandelier NM	1	NM	Intermountain	79.0	68.9	34.4	0.0	17.8	27131.6	13.1
BELA	Bering Land Bridge NPres	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
BEOL	Bents Old Fort NHS	2	CO	Intermountain	85.8	73.9	38.1	0.5	21.5	27446.5	15.1
BIBE	Big Bend NP	1	TX	Intermountain	73.7	65.8	39.9	0.3	9.4	28962.3	9.1
BICA	Bighorn Canyon NRA	2	MT	Intermountain	74.5	62.6	37.2	0.6	9.2	21029.5	8.2
BICY	Big Cypress NPres	2	FL	Southeast	80.2	67.1	27.9	0.3	7.3	13615.5	6.5
BIHO	Big Hole NB	2	MT	Pacific West	77.0	65.4	35.5	0.3	8.5	16353.6	7.6
BISC	Biscayne NP	2	FL	Southeast	83.4	67.7	28.3	0.8	6.9	14468.7	6.4
BISO	Big South Fork NR and NRA	2	TN	Southeast	85.4	74.9	34.5	1.3	17.1	28673.9	13.6
BITH	Big Thicket NPres	2	TX	Intermountain	97.3	75.2	27.1	2.9	11.5	19976.4	8.8
BLCA	Black Canyon of the Gunnison NP	1	IM	Intermountain	80.1	68.2	44.2	0.3	19.5	30614.2	13.9
BLUE	Bluestone NSR	2	WV	Northeast	83.5	72.7	34.5	0.3	14.6	26618.7	10.7
BOHA	Boston Harbor Islands NRA	2	MA	Northeast	97.6	78.5	33.7	3.4	12.1	17829.9	9.5
BOWA	Booker T. Washington NM	2	VA	Northeast	86.5	74.0	33.2	0.4	15.7	24212.9	11.8
BRCA	Bryce Canyon NP	1	UT	Intermountain	84.1	74.2	44.1	1.1	24.6	39387.6	15.8
BUFF	Buffalo NR	2	AR	Midwest	81.6	70.9	36.3	0.2	9.8	25035.1	8.2
BUIS	Buck Island Reef NM	2	VI	Southeast	NA	NA	NA	NA	NA	NA	NA
CABR	Cabrillo NM	2	CA	Pacific West	88.6	71.5	30.0	2.5	10.8	22337.3	9.3
CACH	Canyon de Chelly NM	2	AZ	Intermountain	79.7	69.5	37.9	0.0	20.7	33484.2	14.6
CACO	Cape Cod NS	2	MA	Northeast	101.0	80.4	37.6	5.1	13.7	22246.5	10.8
CAGR	Casa Grande NM	2	AZ	Intermountain	85.8	73.5	31.0	0.7	21.4	29657.0	15.1
CAHA	Cape Hatteras NS	2	NC	Southeast	86.1	74.1	34.1	0.4	15.7	21754.8	11.8
CAKR	Cape Krusenstern NM	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
CALO	Cape Lookout NS	2	CA	Southeast	82.6	72.3	34.7	0.1	13.9	21109.5	10.3
CANA	Canaveral NS	2	FL	Southeast	83.8	70.9	30.8	0.4	10.9	19595.6	8.8

2004 - 2008 5-Year Average Ozone Estimates

ALPHA	PARK NAME	CLASS	STATE	REGION	ppb	ppb	ppb	hours	ppm-hrs	ppb-hrs	ppm-hrs
					2nd Highest Daily Max.	4th Highest 8-Hour	Mean O ₃	Number Hours > 100 ppb	SUM06	24-Hr Annual W126	3-Mo Cumulative 12-Hr W126
CANY	Canyonlands NP	1	UT	Intermountain	75.7	70.1	48.8	0.1	21.5	42745.3	15.0
CARE	Capitol Reef NP	1	UT	Intermountain	78.6	72.4	45.8	0.8	22.6	36192.9	15.3
CARL	Carl Sandburg Home NHS	2	NC	Southeast	87.8	76.2	37.3	0.7	14.8	27217.9	10.9
CASA	Castillo San Marcos NM	2	FL	Southeast	86.0	72.6	29.9	0.6	12.3	19957.8	9.7
CATO	Catoctin Mountain Park	2	MD	National Capital	93.5	77.8	33.2	2.4	18.5	25932.3	13.7
CAVE	Carlsbad Caverns NP	1	NM	Intermountain	83.7	70.5	32.4	0.7	15.2	25972.1	11.3
CAVO	Capulin Mountain Volcano NM	2	NM	Intermountain	82.4	70.5	35.9	0.2	19.1	27728.4	13.8
CEBR	Cedar Breaks NM	2	UT	Intermountain	84.7	75.0	44.1	1.4	25.1	38770.8	15.8
CHAT	Chattahoochee River NRA	2	GA	Southeast	107.5	85.5	31.6	12.1	24.1	33367.8	17.8
CHCH	Chickamauga and Chattanooga NMP	2	TN	Southeast	88.5	78.1	36.1	2.0	18.4	30239.5	13.9
CHCU	Chaco Culture NHP	2	NM	Intermountain	80.8	69.4	34.0	0.1	20.4	30515.1	14.4
CHIC	Chickasaw NRA	2	OK	Intermountain	90.5	75.5	33.3	1.8	15.9	25655.2	12.0
CHIR	Chiricahua NM	1	AZ	Intermountain	77.3	69.1	37.7	0.0	18.7	32947.7	13.5
CHIS	Channel Islands NP	2	CA	Pacific West	86.7	69.0	31.3	1.7	8.7	19942.8	8.0
CHOH	Chesapeake and Ohio Canal NHP	2	MD	National Capital	87.3	73.9	32.1	0.4	15.2	23270.8	11.4
CIRO	City of Rocks NR	2	ID	Pacific West	90.1	74.6	41.2	1.7	21.8	24845.7	16.2
COLM	Colorado NM	2	CO	Intermountain	72.7	67.7	47.8	0.1	20.1	25701.3	13.9
COLO	Colonial NHP	2	VA	Northeast	95.8	78.2	34.0	2.4	19.1	25210.7	14.2
CORO	Coronado NMem	2	AZ	Intermountain	79.0	69.3	32.5	0.0	16.1	27700.5	12.1
COSW	Congaree Swamp NM	2	SC	Southeast	90.3	74.7	29.3	1.7	17.5	23247.0	12.1
COWP	Cowpens NB	2	SC	Southeast	92.5	77.5	34.1	1.9	17.6	27119.8	12.8
CRLA	Crater Lake NP	1	OR	Pacific West	80.0	66.0	26.3	0.2	6.4	8667.9	5.2
CRMO	Craters of the Moon NM	1	ID	Pacific West	78.4	67.7	43.8	0.3	12.5	25990.0	11.0
CUGA	Cumberland Gap NHP	2	KY	Southeast	88.5	75.9	32.7	1.2	19.8	34150.5	14.5
CUIS	Cumberland Island NS	2	GA	Southeast	83.8	71.4	29.9	0.3	10.4	17869.6	8.4
CURE	Curecanti NRA	2	CO	Intermountain	82.4	68.5	43.2	0.5	19.0	33571.4	13.9
CUVA	Cuyahoga Valley NP	2	OH	Midwest	91.2	77.7	31.4	1.8	16.6	21833.7	12.3
DENA	Denali NP & Pres	1	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
DEPO	Devils Postpile NM	2	CA	Pacific West	95.1	82.9	34.1	9.2	28.0	44251.0	17.7
DETO	Devils Tower NM	2	WY	Intermountain	77.6	64.6	37.5	0.0	10.5	16234.9	8.1
DEVA	Death Valley NP	2	NV	Pacific West	96.3	84.0	43.0	11.3	45.1	75586.1	30.7
DEWA	Delaware Water Gap NRA	2	PA	Northeast	96.5	80.0	30.9	4.1	15.6	21338.7	12.1
DINO	Dinosaur NM	2	CO	Intermountain	57.1	66.1	41.3	0.1	14.8	16430.5	11.0
DRTO	Dry Tortugas NP	2	FL	Southeast	84.7	70.6	29.6	0.6	10.3	17512.6	8.5
EBLA	Ebey's Landing NHR	2	WA	Pacific West	66.6	51.9	20.6	0.2	0.7	2299.2	0.7
EFMO	Effigy Mounds NM	2	IA	Midwest	75.7	67.8	32.4	0.0	7.0	13090.7	6.4
EISE	Eisenhower NHS	2	PA	Northeast	92.9	78.0	33.9	2.1	18.3	26385.6	13.5
ELMA	El Malpais NM	2	NM	Intermountain	82.1	70.1	33.0	0.0	20.2	29809.5	14.3
ELMO	El Morro NM	2	NM	Intermountain	82.1	70.1	33.5	0.1	20.8	30761.8	14.6
EVER	Everglades NP	1	FL	Southeast	79.2	66.5	28.0	0.4	6.3	13050.2	6.1
FIIS	Fire Island NS	2	NY	Northeast	110.8	85.0	31.6	10.5	15.8	19275.6	13.0
FLFO	Florissant Fossil Beds NM	2	CO	Intermountain	85.8	73.9	39.2	0.5	22.3	29803.5	15.5
FOBO	Fort Bowie NHS	2	AZ	Intermountain	77.5	69.3	37.6	0.0	19.1	33399.9	13.7
FOBU	Fossil Butte NM	2	WY	Intermountain	85.0	69.8	41.0	1.5	18.1	27839.3	13.9
FOCA	Fort Caroline NMem	2	FL	Southeast	87.1	73.5	30.0	0.6	12.5	20391.9	9.8
FODA	Fort Davis NHS	2	TX	Intermountain	87.5	71.0	33.0	1.5	13.7	25772.4	11.0
FODO	Fort Donelson NC	2	TN	Southeast	81.6	74.4	36.4	0.2	14.2	25140.7	13.0
FOFR	Fort Frederica NM	2	GA	Southeast	81.5	69.7	29.9	0.2	9.2	16231.1	7.5
FOLA	Fort Laramie NHS	2	WY	Intermountain	79.8	70.1	41.0	0.9	15.2	24563.8	8.4
FOLS	Fort Larned NHS	2	KS	Midwest	81.2	70.0	36.2	0.5	15.1	24160.0	11.1
FOMA	Fort Matanzas NM	2	FL	Southeast	84.8	71.6	29.8	0.5	11.6	19202.9	9.3

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FONE	Fort Necessity NB	2	PA	Northeast	88.2	74.4	31.7	0.5	14.5	22148.3	10.9
FOPD	Fort Point NHS	2	MD	Pacific West	74.5	57.2	21.4	0.7	1.9	4718.6	1.9
FOPU	Fort Pulaski NM	2	GA	Southeast	82.5	69.5	29.0	0.2	9.9	16267.0	7.7
FOSC	Fort Scott NHS	2	KS	Midwest	84.5	72.1	33.8	0.5	14.0	21619.9	10.6
FOSU	Fort Sumter NM	2	SC	Southeast	84.0	69.7	28.2	0.3	10.7	17093.6	8.1
FOUN	Fort Union NM	2	NM	Intermountain	79.9	69.3	33.4	0.0	18.2	27081.7	13.3
FOUS	Fort Union Trading Post NHS	2	MT	Midwest	55.5	60.1	32.9	0.0	2.1	6374.2	4.5
FOVA	Fort Vancouver NHS	2	WA	Pacific West	77.9	60.0	23.2	0.3	2.3	3647.8	2.1
FRED	Fredericksburg NC	2	VA	Northeast	98.4	79.6	31.2	4.3	17.6	24664.7	13.4
FRHI	Friendship Hill NHS	2	PA	Northeast	88.2	74.6	31.8	0.6	14.5	22312.2	10.9
FRSP	Fredericksburg & Spotsylvania NMP	2	VA	Northeast	95.3	78.1	31.7	3.3	16.1	24332.8	12.4
GAAR	Gates of the Arctic NP & Preserve	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
GARI	Gauley River NRA	2	WV	Northeast	84.2	72.0	30.5	0.5	13.4	20814.6	10.2
GATE	Gateway NRA	2	NY	Northeast	103.5	82.6	28.5	8.0	15.7	18609.1	12.4
GETT	Gettysburg NMP	2	PA	Northeast	94.0	78.5	33.7	2.5	18.8	26459.0	13.9
GEWA	George Washington Birthplace NM	2	VA	Northeast	101.8	81.9	32.4	5.3	21.1	27710.5	15.7
GICL	Gila Cliff Dwellings NM	2	NM	Intermountain	76.6	66.7	34.6	0.1	12.3	24217.0	10.5
GLAC	Glacier NP	1	MT	Intermountain	64.3	54.9	24.5	0.0	1.4	6824.4	2.2
GLBA	Glacier Bay NP & Preserve	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
GLCA	Glen Canyon NRA	2	CA	Intermountain	78.9	71.3	45.2	0.4	22.1	38492.3	14.8
GOGA	Golden Gate NRA	2	CA	Pacific West	72.1	55.9	21.3	0.4	1.5	4209.8	1.6
GOSP	Golden Spike NHS	2	UT	Intermountain	91.2	75.8	41.7	1.7	24.0	25372.7	17.5
GRBA	Great Basin NP	2	NV	Pacific West	85.0	73.6	43.9	0.6	21.9	43718.9	15.5
GRCA	Grand Canyon NP	1	AZ	Intermountain	82.3	73.9	41.3	0.5	25.6	45001.4	16.2
GRKO	Grant-Kohrs Ranch NHS	2	MT	Intermountain	74.2	63.4	34.2	0.2	6.9	15208.9	6.5
GRPO	Grand Portage NM	2	MN	Midwest	73.6	64.1	32.6	0.3	4.3	10727.8	4.5
GRSA	Great Sand Dunes NP & Pres	1	CO	Intermountain	83.8	71.4	39.9	0.4	21.0	31564.6	14.9
GRSM	Great Smoky Mountains NP	1	TN	Southeast	90.6	77.6	39.6	1.7	19.3	40933.3	14.0
GRTE	Grand Teton NP	1	WY	Intermountain	79.3	66.3	43.1	1.2	13.4	32735.6	11.3
GUCO	Guilford Courthouse NMP	2	NC	Southeast	90.4	76.9	32.8	1.0	18.6	24991.7	13.6
GUIS	Gulf Islands NS	2	MS	Southeast	90.9	76.3	31.5	0.5	15.2	21615.7	11.4
GUMO	Guadalupe Mountains NP	1	TX	Intermountain	89.0	72.0	31.3	1.4	15.0	25630.3	11.4
GWCA	George Washington Carver NM	2	MO	Midwest	85.2	72.9	33.5	0.3	14.1	22100.3	10.6
GWMP	George Washington Mem PKWY	2	MD	National Capital	102.0	82.4	30.8	6.5	21.5	26634.2	16.2
HAFE	Harpers Ferry NHP	2	WV	National Capital	94.6	77.9	31.2	2.6	18.3	24423.7	13.6
HAFO	Hagerman Fossil Beds NM	2	ID	Pacific West	82.1	68.8	37.8	0.6	12.6	18318.0	10.5
HALE	Haleakala NP	1	HI	Pacific West	NA	NA	NA	NA	NA	NA	NA
HAVO	Hawaii Volcanoes NP	1	HI	Pacific West	NA	NA	NA	NA	NA	NA	NA
HEHO	Herbert Hoover NHS	2	IA	Midwest	76.9	67.1	30.7	0.0	7.6	12545.9	6.6
HOBE	Horseshoe Bend NMP	2	AL	Southeast	91.8	75.3	31.1	1.7	15.9	23522.2	11.8
HOCU	Hopewell Culture NHP	2	OH	Midwest	90.6	76.9	32.9	1.3	18.6	25777.6	13.6
HOFR	Home of Franklin D. Roosevelt NHS	2	NY	Northeast	101.5	82.9	34.9	6.7	15.6	23705.0	12.3
HOFU	Hopewell Furnace NHS	2	PA	Northeast	97.9	82.1	30.2	3.3	19.1	23014.2	14.7
HOME	Homestead NM of America	2	NE	Midwest	76.2	65.1	31.2	0.5	7.8	13691.6	6.6
HOSP	Hot Springs NP	2	AR	Midwest	85.1	70.8	28.2	0.4	11.4	18936.0	8.7
HOVE	Hovenweep NM	2	CO	Intermountain	77.6	69.5	43.2	0.0	18.1	32004.7	13.2
HUTR	Hubbel Trading Post NHS	2	AZ	Intermountain	81.3	70.1	39.2	0.1	23.6	37137.1	16.0
INDU	Indiana Dunes NL	2	IN	Midwest	88.5	73.2	31.2	1.6	11.9	16130.3	9.4
ISRO	Isle Royale NP	1	MI	Midwest	75.8	65.8	32.9	0.8	5.0	11883.3	4.9
JECA	Jewel Cave NM	2	SD	Midwest	74.1	63.8	39.2	0.0	10.2	19625.3	7.9
JELA	Jean Lafitte NPres	2	LA	Southeast	92.2	75.3	27.0	1.4	14.2	20547.6	10.7

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					2nd Highest Daily Max.	4th Highest 8-Hour	Mean O ₃	Number Hours > 100 ppb	SUM06	24-Hr Annual W126	3-Mo Cumulative 12-Hr W126
JODA	John Day Fossil Beds NM	2	OR	Pacific West	73.7	62.6	28.0	0.2	3.5	5700.1	3.4
JOFL	Johnstown Flood NMem	2	PA	Northeast	88.6	75.2	31.0	0.7	14.9	21806.8	11.2
JOMU	John Muir NHS	2	CA	Pacific West	84.3	64.7	22.9	2.0	5.6	9516.7	4.5
JOTR	Joshua Tree NP	1	CA	Pacific West	105.1	87.5	39.2	22.3	44.1	69780.3	31.6
KAHO	Kaloko-Honokohau NHP	2	HI	Pacific West	NA	NA	NA	NA	NA	NA	NA
KALA	Kalaupapa NHP	2	HI	Pacific West	NA	NA	NA	NA	NA	NA	NA
KATM	Katmai NP & Preserve	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
KEFJ	Kenai Fjords NP	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
KEMO	Kennesaw Mountain NBP	2	GA	Southeast	105.7	84.5	32.4	10.2	23.6	33567.9	17.4
KIMO	Kings Mtn. NMP	2	SC	Southeast	96.1	78.5	33.1	3.6	20.0	28844.9	14.6
KLGO	Klondike Gold Rush NHP	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
KNRI	Knife River Indian Villages NHS	2	ND	Midwest	64.5	58.6	32.2	0.0	2.5	8926.2	3.7
KOVA	Kobuk Valley NP	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
LABE	Lava Beds NM	1	CA	Pacific West	84.4	69.9	28.9	0.6	15.2	21949.4	11.1
LACL	Lake Clark NP & Preserve	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
LAME	Lake Mead NRA	2	NV	Pacific West	85.8	77.4	32.6	1.4	25.7	35848.5	17.4
LAMR	Lake Meredith NRA	2	TX	Intermountain	91.1	68.1	35.7	0.7	11.6	21047.5	9.8
LARO	Lake Roosevelt NRA	2	WA	Pacific West	73.8	62.3	31.3	0.2	4.5	7699.1	4.3
LAVO	Lassen Volcanic NP	1	CA	Pacific West	88.0	73.6	33.0	1.3	21.6	34201.8	15.2
LEWI	Lewis and Clark NHP	2	OR	Pacific West	77.2	60.5	23.1	0.4	2.5	3703.3	2.2
LIBI	Little Bighorn NM	2	MT	Intermountain	71.3	61.5	35.1	0.1	7.1	15213.1	6.9
LIBO	Lincoln Boyhood NMem	2	IN	Midwest	87.7	75.0	34.8	0.6	17.7	24574.1	13.1
LIRI	Little River Canyon NP	2	AL	Southeast	86.8	76.2	34.0	1.5	17.9	27702.8	13.1
LYJO	Lyndon B. Johnson NHP	2	TX	Intermountain	89.8	78.7	28.0	1.4	13.1	20358.7	9.7
MABI	Marsh-Billings-Rockefeller NHP	2	VT	Northeast	83.3	70.6	29.0	0.5	5.6	11375.6	5.1
MACA	Mammoth Cave NP	1	KY	Southeast	86.9	74.0	33.9	0.4	17.3	26449.1	12.8
MANA	Manassas NBP	2	VA	National Capital	98.0	79.6	30.9	4.4	18.4	24861.3	13.9
MANZ	Manzanar NHS	2	CA	Pacific West	109.2	93.6	41.2	40.1	56.9	91169.8	43.1
MEVE	Mesa Verde NP	1	CO	Intermountain	77.9	69.1	41.3	0.0	17.9	30989.8	13.1
MIMA	Minute Man NHP	2	MA	Northeast	97.3	78.1	33.3	3.4	11.7	17805.1	9.2
MISS	Mississippi NRA	2	MN	Midwest	77.7	65.7	31.2	0.2	6.2	10825.6	5.6
MNRR	Missouri NRR	2	NE	Midwest	71.9	61.5	33.8	0.7	4.1	9684.3	4.8
MOCA	Montezuma Castle NM	2	AZ	Intermountain	87.9	76.0	32.8	0.7	29.6	39544.1	17.6
MOCR	Moore's Creek NB	2	NC	Southeast	86.6	74.3	31.4	0.5	16.0	20901.3	11.8
MOJA	Mojave NP	2	CA	Pacific West	91.0	81.9	35.6	6.5	37.0	62744.3	26.7
MONO	Monocacy NB	2	MD	National Capital	97.3	79.6	32.0	3.9	19.9	25895.6	14.9
MORA	Mount Rainier NP	1	WA	Pacific West	78.5	62.9	28.0	1.1	2.8	6487.2	3.1
MORR	Morristown NHP	2	NJ	Northeast	101.2	82.6	29.8	6.6	17.6	22167.4	13.6
MORU	Mount Rushmore NMem	2	SD	Midwest	72.6	62.5	37.6	0.0	8.4	16849.7	7.0
MUWO	Muir Woods NM	2	CA	Pacific West	72.1	55.9	21.3	0.4	1.5	4209.8	1.6
NABR	Natural Bridges NM	2	UT	Intermountain	77.4	69.7	44.8	0.1	20.3	37155.5	14.3
NACE	Anacostia Park	2	DC	National Capital	103.2	83.1	31.1	7.5	22.3	27371.6	16.8
NAVA	Navajo NM	2	AZ	Intermountain	80.1	70.4	42.9	0.2	23.2	39372.8	15.4
NEPE	Nez Perce NHP	2	MT	Pacific West	77.0	64.7	32.0	0.2	7.0	10417.8	6.2
NERI	New River Gorge NR	2	WV	Northeast	84.1	72.5	32.6	0.4	14.2	23933.9	10.6
NIOB	Niobrara NSR	2	NE	Midwest	69.7	62.8	35.7	0.2	6.2	12897.0	5.4
NISI	Ninety Six NHS	2	SC	Southeast	89.4	75.9	31.8	1.0	17.7	24734.0	12.5
NOAT	Noatak NP	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
NOCA	North Cascades NP	1	WA	Pacific West	67.2	53.1	20.3	0.2	1.0	2786.3	1.3
NPSA	The National Park of American Samoa	2	AS	Pacific West	NA	NA	NA	NA	NA	NA	NA
OBRI	Obed Wild and Scenic River	2	TN	Southeast	88.4	77.8	36.6	2.0	19.6	32438.4	15.8

2004 - 2008 5-Year Average Ozone Estimates

ALPHA	PARK NAME	CLASS	STATE	REGION	ppb	ppb	ppb	hours	ppm-hrs	ppb-hrs	ppm-hrs
					2nd Highest Daily Max.	4th Highest 8-Hour	Mean O ₃	Number Hours > 100 ppb	SUM06	24-Hr Annual W126	3-Mo Cumulative 12-Hr W126
OCMU	Ocmulgee NM	2	GA	Southeast	101.7	81.9	31.3	7.1	21.2	29813.7	15.5
OLYM	Olympic NP	1	WA	Pacific West	63.5	53.0	22.6	0.1	0.6	2893.3	0.5
ORCA	Oregon Caves NM	2	OR	Pacific West	81.2	66.0	28.1	0.3	9.6	13064.8	7.6
ORPI	Organ Pipe Cactus NM	2	AZ	Intermountain	81.7	72.5	28.5	0.1	17.4	23653.0	12.6
OZAR	Ozark NSR	2	MO	Midwest	89.1	75.7	33.0	2.2	16.3	22426.1	11.1
PAAL	Palo Alto Battlefield NHS	2	TX	Intermountain	69.3	65.3	24.5	0.1	3.9	7488.1	3.2
PAIS	Padre Island NS	2	TX	Intermountain	77.9	68.3	25.1	0.1	5.7	10663.1	5.5
PECO	Pecos NHP	2	NM	Intermountain	78.9	68.9	33.8	0.0	17.4	26046.9	13.0
PEFO	Petrified Forest NP	1	AZ	Intermountain	84.7	71.3	40.9	0.4	27.5	42802.4	18.3
PERI	Pea Ridge NMP	2	AR	Midwest	81.7	70.4	33.1	0.3	10.7	19946.3	8.7
PETE	Petersburg NB	2	VA	Northeast	98.1	77.9	32.6	3.7	17.7	24784.6	13.4
PETR	Petroglyph NM	2	NM	Intermountain	81.6	69.9	32.4	0.0	19.5	28526.1	13.9
PINN	Pinnacles NM	1	CA	Pacific West	82.9	67.7	27.5	2.9	10.1	17318.6	8.2
PIPE	Pipestone NM	2	MN	Midwest	72.1	63.0	33.2	0.1	5.4	11092.7	5.4
PIRO	Pictured Rocks NL	2	MI	Midwest	93.7	75.8	34.5	3.9	8.4	17684.0	6.9
PISP	Pipe Spring NM	2	AZ	Intermountain	84.3	74.8	43.1	1.2	25.9	41090.2	16.3
PORE	Point Reyes NS	1	CA	Pacific West	69.9	54.4	21.2	0.2	1.3	3873.8	1.4
PRWI	Prince William Forest Park	2	VA	National Capital	99.8	80.6	31.0	5.2	18.8	25186.9	14.2
PUHO	Pu'uhonua o Honaunau NHP	2	HI	Pacific West	NA	NA	NA	NA	NA	NA	NA
RABR	Rainbow Bridge NM	2	UT	Intermountain	80.0	70.8	44.1	0.3	22.9	40001.9	15.1
REDW	Redwood NP	1	CA	Pacific West	70.9	60.6	25.1	0.3	8.5	12412.5	6.7
RICH	Richmond NBP	2	VA	Northeast	100.0	79.4	32.3	4.1	18.8	25454.0	14.3
ROCR	Achbold PKWY	2	DC	National Capital	102.6	82.8	30.9	6.9	22.0	27033.8	16.5
ROMO	Rocky Mountain NP	1	CO	Intermountain	89.5	75.2	43.2	3.4	21.2	36414.9	18.0
RUCA	Russell Cave NM	2	AL	Southeast	81.9	76.1	35.6	1.2	16.2	24919.9	12.8
SAAN	San Antonio Missions NHP	2	TX	Intermountain	89.8	77.9	27.3	1.2	12.3	20594.5	9.3
SACN	Saint Croix NSR	2	MN	Midwest	76.9	64.9	30.7	0.1	5.4	9834.8	4.8
SAGA	Saint-Gaudens NHS	2	NH	Northeast	83.8	70.7	29.0	0.6	5.7	10950.3	5.2
SAGU	Saguaro NP	1	AZ	Intermountain	79.8	69.8	31.9	0.1	16.3	27858.2	12.3
SAHI	Sagamore Hill NHS	2	NY	Northeast	106.6	83.4	29.0	9.4	15.0	17575.9	12.2
SAIR	Saugus Iron Works NHS	2	MA	Northeast	96.4	77.8	33.0	3.1	11.5	16943.0	9.0
SAJH	San Juan Island NHP	2	WA	Pacific West	65.7	51.5	20.8	0.1	0.6	2322.5	0.6
SAMO	Santa Monica Mountains NRA	2	CA	Pacific West	97.8	77.9	27.4	17.1	19.5	29294.8	15.3
SAPU	Salinas Pueblo Missions NM	2	NM	Intermountain	81.6	70.0	32.1	0.0	19.3	28062.9	13.8
SARA	Saratoga NHP	2	NY	Northeast	89.6	73.9	31.8	1.5	8.4	16663.3	7.1
SCBL	Scotts Bluff NM	2	NE	Midwest	80.4	71.6	40.2	1.0	15.7	23126.9	9.0
SEKI	Sequoia / Kings Canyon NP	1	CA	Pacific West	111.7	94.8	39.8	43.8	57.0	90130.8	43.6
SHEN	Shenandoah NP	1	VA	Northeast	85.3	73.6	33.2	0.7	13.6	24415.5	10.6
SHIL	Shiloh NMP	2	TN	Southeast	84.3	73.3	33.4	1.1	13.4	21335.1	11.5
SITK	Sitka NHP	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
SLBE	Sleeping Bear Dunes NL	2	MI	Midwest	94.8	76.6	34.5	3.3	10.9	19126.9	8.7
STRI	Stones River NB	2	TN	Southeast	84.9	75.0	33.5	1.0	15.9	25135.0	12.6
SUCR	Sunset Crater NM	2	AZ	Intermountain	85.0	74.6	38.9	0.3	32.4	41754.8	19.9
TAPR	Tallgrass Prairie NPres	2	KS	Midwest	82.2	70.1	34.2	0.7	12.2	20899.3	9.6
THRO	Theodore Roosevelt NP	1	ND	Midwest	65.6	60.3	34.4	0.0	3.8	10851.2	4.6
THST	Thomas Stone NHS	2	MD	Northeast	102.4	82.3	31.6	6.1	21.0	27065.5	15.6
TICA	Timpanogos Cave NM	2	UT	Intermountain	98.7	77.0	39.6	3.5	25.3	25886.0	18.1
TIMU	Timucuan Ecological and Historical Prese	2	FL	Southeast	86.8	73.3	30.1	0.5	12.2	20113.5	9.6
TONT	Tonto NM	2	AZ	Intermountain	94.1	75.3	33.5	1.8	30.0	42582.0	20.7
TUMA	Tumacacori NM	2	AZ	Intermountain	78.8	69.0	31.3	0.0	14.7	25563.4	11.4
TUZI	Tuzigoot NM	2	AZ	Intermountain	85.1	75.9	32.9	0.5	27.7	35324.8	15.1

2004 - 2008 5-Year Average Ozone Estimates

ALPHA	PARK NAME	CLASS	STATE	REGION	ppb	ppb	ppb	hours	ppm-hrs	ppb-hrs	ppm-hrs
					2nd Highest Daily Max.	4th Highest 8-Hour	Mean O ₃	Number Hours > 100 ppb	SUM06	24-Hr Annual W126	3-Mo Cumulative 12-Hr W126
UPDE	Upper Delaware Scenic and Recreational R	2	DE	Northeast	92.3	80.2	35.2	3.5	15.9	23601.8	12.3
VAFO	Valley Forge NHP	2	PA	Northeast	101.1	83.0	30.7	5.4	20.0	24558.3	15.1
VAMA	Vanderbilt Mansion NHS	2	NY	Northeast	101.1	82.6	35.3	6.4	15.3	23957.9	12.1
VICK	Vicksburg NC	2	MS	Southeast	80.7	72.9	29.2	0.5	9.4	13204.5	7.6
VIIS	Virgin Islands NP	1	VI	Southeast	NA	NA	NA	NA	NA	NA	NA
VOYA	Voyageurs NP	1	MN	Midwest	72.2	63.5	33.6	0.0	3.5	12191.3	4.2
WABA	Washita Battlefield NHS	2	OK	Intermountain	86.4	72.8	34.9	0.4	14.5	24165.9	11.1
WACA	Walnut Canyon NM	2	AZ	Intermountain	85.8	75.0	37.2	0.4	32.6	40452.3	20.0
WAPA	War in the Pacific NHP	2	GU	Pacific West	NA	NA	NA	NA	NA	NA	NA
WEFA	Weir Farm NHS	2	CT	Northeast	109.1	84.0	30.4	10.3	15.2	19113.1	12.3
WHIS	Whiskeytown NRA	2	CA	Pacific West	88.8	73.1	26.9	1.0	20.2	26839.1	14.5
WHMI	Whitman Mission NHS	2	WA	Pacific West	72.4	61.0	28.8	0.1	3.4	6108.9	3.8
WHSA	White Sands NM	2	NM	Intermountain	88.4	71.6	30.3	1.3	12.1	20958.4	9.8
WICA	Wind Cave NP	1	SD	Midwest	73.5	64.0	39.4	0.0	10.1	19643.8	7.9
WICR	Wilson's Creek NB	2	MO	Midwest	85.1	72.2	34.4	0.3	12.7	20118.2	9.6
WOTR	Wolf Trap Farm Park	2	VA	National Capital	101.2	81.8	30.7	5.9	20.8	26157.6	15.6
WRST	Wrangell-St Elias NP & Pres	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
WUPA	Wupatki NM	2	AZ	Intermountain	84.5	74.1	40.5	0.3	31.8	43695.4	19.7
YELL	Yellowstone NP	1	WY	Intermountain	72.8	64.4	43.1	0.4	9.5	30754.6	9.2
YOSE	Yosemite NP	1	CA	Pacific West	92.4	80.3	34.4	3.8	25.0	38201.0	14.8
YUCH	Yukon-Charley Rivers NPres	2	AK	Alaska	NA	NA	NA	NA	NA	NA	NA
YUHO	Yucca House NM	2	CO	Intermountain	77.9	69.6	42.0	0.0	18.2	31733.2	13.2
ZION	Zion NP	1	UT	Intermountain	83.4	75.2	44.0	1.4	23.8	36565.4	14.7

Ozone value estimates are obtained at the park centroid from interpolated data

Statistics:

2nd Highest Daily Max. - The second highest daily maximum 1-hour average concentration. The annual concentration is then averaged over 5-years.

Mean O₃ - Mean annual ozone concentration, averaged over 5 years.

Number Hours > 100 ppb - Annual number of hours with ozone concentration over 100 ppb, averaged over 5-years.

4th Highest 8 Hour - The annual fourth-highest daily maximum 8-hour average ozone concentration, averaged over 5-years. This measurement, averaged over 3 years, is used to evaluate attainment for the primary ozone standard.

SUM06 - Sum of hourly ozone values equaling or exceeding 0.06 ppm summed over daylight hours for each 3-month period during the growing season. The annual maximum 3-month period is then averaged over 5-years

24-Hr Annual W126 - Sum of hourly weighted ozone concentrations summed over 24-hours annually, with higher concentrations weighted more heavily. The annual values are then averaged over 5-years.

3-Mo. Cumulative 12-Hr W126 - Sum of hourly weighted ozone concentrations summed over daylight hours for each 3-month period during the local ozone season, with higher concentrations weighted more heavily. The annual maximum 3-month period is then averaged over 5-years.