



### 1999-2003 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-Hr.	ppb Mean O <sub>3</sub>	hours Number Hours > 100 ppb	ppm-hrs SUM06	ppb-hrs 24-Hr Annual W126
ABLI	Abraham Lincoln NHS	2	KY	Southeast	100.3	83.4	31.1	7.5	27.0	36432.6
ACAD	Acadia NP	1	ME	Northeast	103.1	82.8	35.6	10.0	9.8	22440.1
AGFO	Agate Fossil Beds NM	2	NE	Midwest	92.2	74.1	32.1	2.0	22.4	35585.8
ALAG	Alagnak Wild River	2	AK	Alaska	NA	NA	NA	NA	NA	NA
ALFL	Alibates Flint Quarries NM	2	TX	Intermountain	89.4	75.9	31.1	1.3	24.5	33657.9
ALPO	Allegheny Portage Railroad NHS	2	PA	Northeast	103.9	85.9	30.2	9.9	23.7	30564.3
AMIS	Amistad NRA	2	TX	Intermountain	88.6	75.9	29.3	4.2	12.0	22815.6
AMME	American Mem Park	2	CM	Pacific West	NA	NA	NA	NA	NA	NA
ANIA	Aniakchak Preserve NM & Pres	2	AK	Alaska	NA	NA	NA	NA	NA	NA
ANTI	Antietam NB	2	MD	National Capital	104.7	87.3	31.4	12.8	27.9	35684.5
APCO	Appomattox Court House NHP	2	VA	Northeast	98.9	83.1	32.8	6.5	25.1	34272.3
APIS	Apostle Islands NL	2	WI	Midwest	79.7	69.0	31.7	0.4	6.4	13097.7
ARCH	Arches NP	1	UT	Intermountain	82.0	72.5	43.7	0.8	26.4	46952.0
ARPO	Arkansas Post NMem	2	AR	Midwest	96.8	80.7	31.7	5.1	24.1	31993.8
ASIS	Assateague Island NS	2	MD	Northeast	115.7	92.8	34.7	24.4	30.8	40078.0
AZRU	Aztec Ruins NM	2	NM	Intermountain	80.0	68.2	32.5	0.0	21.8	30178.3
BADL	Badlands NP	1	SD	Midwest	80.6	67.8	33.6	0.5	14.4	26488.8
BAND	Bandelier NM	1	NM	Intermountain	87.0	71.8	31.3	0.1	26.0	34714.1
BELA	Bering Land Bridge NPres	2	AK	Alaska	NA	NA	NA	NA	NA	NA
BEOL	Bents Old Fort NHS	2	CO	Intermountain	95.3	74.4	28.2	3.1	22.4	27595.7
BIBE	Big Bend NP	1	TX	Intermountain	72.9	64.5	36.1	0.5	5.9	19517.4
BICA	Bighorn Canyon NRA	2	MT	Intermountain	79.3	68.5	40.6	0.6	17.2	34181.7
BICY	Big Cypress NPres	2	FL	Southeast	85.8	67.3	25.2	0.8	6.1	12417.7
BIHO	Big Hole NB	2	MT	Pacific West	81.2	68.2	37.2	0.9	15.1	24511.3
BISC	Biscayne NP	2	FL	Southeast	89.2	68.0	25.7	1.5	6.0	12995.5
BISO	Big South Fork NR and NRA	2	TN	Southeast	101.4	85.9	34.4	11.5	28.8	46450.7
BITH	Big Thicket NPres	2	TX	Intermountain	111.5	81.5	24.4	13.0	14.9	23711.7
BLCA	Black Canyon of the Gunnison NP	1	IM	Intermountain	81.7	70.4	39.0	0.8	23.8	41728.8
BLUE	Bluestone NSR	2	WV	Northeast	95.3	82.5	34.4	3.0	25.4	42052.9
BOHA	Boston Harbor Islands NRA	2	MA	Northeast	107.9	83.4	30.7	14.3	14.7	20910.1
BOWA	Booker T. Washington NM	2	VA	Northeast	100.2	84.8	34.5	7.7	27.3	37397.0
BRCA	Bryce Canyon NP	1	UT	Intermountain	87.1	74.8	38.9	1.0	29.1	46096.1
BUFF	Buffalo NR	2	AR	Midwest	89.7	77.3	35.6	1.0	16.8	34148.2
BUIS	Buck Island Reef NM	2	VI	Southeast	NA	NA	NA	NA	NA	NA
CABR	Cabrillo NM	2	CA	Pacific West	95.6	71.8	27.4	6.3	10.8	24068.0
CACH	Canyon de Chelly NM	2	AZ	Intermountain	82.2	70.1	34.4	0.0	25.0	35840.7
CACO	Cape Cod NS	2	MA	Northeast	114.3	89.0	34.9	21.7	18.0	28239.2
CAGR	Casa Grande NM	2	AZ	Intermountain	96.7	78.2	33.6	2.7	27.8	39436.3
CAHA	Cape Hatteras NS	2	NC	Southeast	97.7	82.5	34.7	5.7	22.6	30176.2
CAKR	Cape Krusenstern NM	2	AK	Alaska	NA	NA	NA	NA	NA	NA
CALO	Cape Lookout NS	2	CA	Southeast	91.7	79.2	34.0	2.8	19.9	29786.2

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ALPHA	PARK NAME	CLASS	STATE	REGION	ppb	ppb	ppb	hours	ppm-hrs	ppb-hrs
					2nd Highest Daily Max.	4th Highest 8-Hr.	Mean O <sub>3</sub>	Number Hours > 100 ppb	SUM06	24-Hr Annual W126
CANA	Canaveral NS	2	FL	Southeast	90.3	74.0	26.5	1.1	11.3	20718.8
CANY	Canyonlands NP	1	UT	Intermountain	80.4	71.9	44.0	0.4	26.4	48236.5
CARE	Capitol Reef NP	1	UT	Intermountain	87.4	74.3	41.4	1.7	26.8	41438.8
CARL	Carl Sandburg Home NHS	2	NC	Southeast	100.3	85.4	37.1	8.2	27.6	48146.2
CASA	Castillo San Marcos NM	2	FL	Southeast	91.2	72.8	24.5	1.0	11.3	18664.2
CATO	Catoctin Mountain Park	2	MD	National Capital	107.4	88.9	33.2	16.7	29.5	39931.2
CAVE	Carlsbad Caverns NP	1	NM	Intermountain	88.6	71.7	32.3	1.7	15.3	28149.1
CAVO	Capulin Mountain Volcano NM	2	NM	Intermountain	89.8	72.5	30.6	1.2	24.7	32157.2
CEBR	Cedar Breaks NM	2	UT	Intermountain	88.3	75.3	35.8	1.2	29.4	44680.7
CHAT	Chattahoochee River NRA	2	GA	Southeast	115.1	91.6	30.1	30.4	29.2	38301.2
CHCH	Chickamauga and Chattanooga NMP	2	TN	Southeast	106.3	88.3	33.5	16.7	28.7	43859.1
CHCU	Chaco Culture NHP	2	NM	Intermountain	84.3	70.8	31.9	0.1	25.4	33469.0
CHIC	Chickasaw NRA	2	OK	Intermountain	102.1	84.3	29.6	12.0	27.0	36505.4
CHIR	Chiricahua NM	1	AZ	Intermountain	80.6	70.8	38.4	0.3	20.3	36484.9
CHIS	Channel Islands NP	2	CA	Pacific West	87.7	70.9	32.3	3.9	11.3	25175.5
CHOH	Chesapeake and Ohio Canal NHP	2	MD	National Capital	100.0	84.0	30.0	7.5	23.4	30725.0
CIRO	City of Rocks NR	2	ID	Pacific West	98.2	76.9	38.8	4.6	25.0	28145.3
COLM	Colorado NM	2	CO	Intermountain	83.0	71.7	40.7	0.9	24.8	42525.3
COLO	Colonial NHP	2	VA	Northeast	110.8	88.5	34.6	15.8	26.9	33786.8
CORO	Coronado NMem	2	AZ	Intermountain	84.1	71.8	32.7	0.4	19.0	31582.5
COSW	Congaree Swamp NM	2	SC	Southeast	100.1	82.4	27.8	7.4	24.3	33831.4
COWP	Cowpens NB	2	SC	Southeast	103.8	86.8	33.4	12.1	29.7	42350.1
CRLA	Crater Lake NP	1	OR	Pacific West	83.5	67.3	26.7	0.5	9.7	12234.4
CRMO	Craters of the Moon NM	1	ID	Pacific West	81.3	68.6	40.3	1.3	16.8	29483.8
CUGA	Cumberland Gap NHP	2	KY	Southeast	103.1	85.7	31.0	11.9	27.4	40457.0
CUIS	Cumberland Island NS	2	GA	Southeast	90.4	72.3	26.1	0.7	11.3	18392.8
CURE	Curecanti NRA	2	CO	Intermountain	82.3	70.7	39.1	0.8	24.3	42950.2
CUVA	Cuyahoga Valley NP	2	OH	Midwest	106.8	88.3	31.9	15.9	26.2	31304.2
DENA	Denali NP & Pres	1	AK	Alaska	NA	NA	NA	NA	NA	NA
DEPO	Devils Postpile NM	2	CA	Pacific West	114.2	93.5	45.7	51.5	54.7	89778.5
DETO	Devils Tower NM	2	WY	Intermountain	82.1	69.7	35.7	0.1	17.3	25488.1
DEVA	Death Valley NP	2	NV	Pacific West	96.7	84.2	43.1	19.6	47.5	77923.4
DEWA	Delaware Water Gap NRA	2	PA	Northeast	111.3	88.9	28.2	22.0	24.1	30775.1
DINO	Dinosaur NM	2	CO	Intermountain	96.1	77.8	40.3	3.6	27.7	39843.7
DRTO	Dry Tortugas NP	2	FL	Southeast	88.4	70.5	26.6	1.7	8.2	16713.1
EBLA	Ebey's Landing NHR	2	WA	Pacific West	64.4	52.0	20.0	0.2	1.4	3142.9
EFMO	Effigy Mounds NM	2	IA	Midwest	84.6	73.9	33.1	0.3	12.9	19267.0
EISE	Eisenhower NHS	2	PA	Northeast	108.7	89.5	33.3	18.3	29.8	40710.4
ELMA	El Malpais NM	2	NM	Intermountain	86.3	71.7	31.3	0.1	25.8	34434.7
ELMO	El Morro NM	2	NM	Intermountain	86.2	71.7	31.5	0.1	26.0	34626.9
EVER	Everglades NP	1	FL	Southeast	85.3	66.4	25.3	0.8	5.4	11531.7
FIIS	Fire Island NS	2	NY	Northeast	126.4	92.1	27.8	27.8	21.0	25386.4
FLFO	Florissant Fossil Beds NM	2	CO	Intermountain	94.7	74.4	29.7	2.8	23.3	29514.6
FOBO	Fort Bowie NHS	2	AZ	Intermountain	80.6	70.9	38.4	0.3	20.5	36566.9
FOBU	Fossil Butte NM	2	WY	Intermountain	99.0	77.9	39.3	4.5	27.0	31022.1
FOCA	Fort Caroline NMem	2	FL	Southeast	91.7	72.2	24.5	1.0	11.0	17852.1
FODA	Fort Davis NHS	2	TX	Intermountain	91.5	71.7	32.2	2.5	14.5	27096.1
FODO	Fort Donelson NC	2	TN	Southeast	99.4	83.1	34.8	8.8	27.2	40163.6
FOFR	Fort Frederica NM	2	GA	Southeast	90.4	73.1	28.0	0.9	12.2	19319.0
FOLA	Fort Laramie NHS	2	WY	Intermountain	91.8	74.2	33.0	1.9	22.9	38338.6
FOLS	Fort Larned NHS	2	KS	Midwest	83.4	71.9	28.8	0.7	20.7	26094.0

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FOMA	Fort Matanzas NM	2	FL	Southeast	90.5	73.0	24.7	0.9	11.3	19116.4
FONE	Fort Necessity NB	2	PA	Northeast	102.6	83.8	30.2	10.3	22.6	29377.8
FOPO	Fort Point NHS	2	MD	Pacific West	84.0	58.4	19.5	1.7	3.1	5850.4
FOPU	Fort Pulaski NM	2	GA	Southeast	92.8	74.2	28.2	2.1	13.4	20317.9
FOSC	Fort Scott NHS	2	KS	Midwest	94.1	79.1	33.7	2.4	23.2	32224.8
FOSU	Fort Sumter NM	2	SC	Southeast	92.0	75.5	27.7	1.9	14.7	22217.8
FOUN	Fort Union NM	2	NM	Intermountain	86.2	71.3	31.1	0.1	25.1	33731.3
FOUS	Fort Union Trading Post NHS	2	MT	Midwest	69.3	61.0	30.9	0.0	4.2	11886.0
FOVA	Fort Vancouver NHS	2	WA	Pacific West	83.0	61.5	23.2	0.2	3.6	4778.1
FRED	Fredericksburg NC	2	VA	Northeast	109.0	87.6	31.7	15.4	27.2	33982.4
FRHI	Friendship Hill NHS	2	PA	Northeast	102.9	84.1	31.9	10.1	23.8	32193.3
FRSP	Fredericksburg & Spotsylvania NMP	2	VA	Northeast	106.3	86.4	32.1	12.5	26.7	35341.3
GAAR	Gates of the Arctic NP & Preserve	2	AK	Alaska	NA	NA	NA	NA	NA	NA
GARI	Gauley River NRA	2	WV	Northeast	96.8	82.4	30.4	4.4	23.8	32420.1
GATE	Gateway NRA	2	NY	Northeast	118.3	89.0	24.3	27.7	22.0	26008.7
GETT	Gettysburg NMP	2	PA	Northeast	110.2	90.0	33.0	20.0	30.1	40372.9
GEWA	George Washington Birthplace NM	2	VA	Northeast	114.6	90.8	32.1	22.0	29.1	36013.1
GICL	Gila Cliff Dwellings NM	2	NM	Intermountain	88.5	71.6	33.1	1.5	19.5	32125.0
GLAC	Glacier NP	1	MT	Intermountain	63.6	56.1	24.0	0.0	1.6	6679.9
GLBA	Glacier Bay NP & Preserve	2	AK	Alaska	NA	NA	NA	NA	NA	NA
GLCA	Glen Canyon NRA	2	CA	Intermountain	83.7	72.5	41.3	0.7	26.5	43691.4
GOGA	Golden Gate NRA	2	CA	Pacific West	81.8	57.4	19.4	1.3	3.0	5549.7
GOSP	Golden Spike NHS	2	UT	Intermountain	101.9	78.6	39.5	4.9	28.4	29236.3
GRBA	Great Basin NP	2	NV	Pacific West	85.2	73.7	42.7	1.0	24.5	42701.5
GRCA	Grand Canyon NP	1	AZ	Intermountain	85.5	74.7	40.3	0.6	31.3	55248.1
GRKO	Grant-Kohrs Ranch NHS	2	MT	Intermountain	78.6	66.7	36.2	0.7	13.5	23115.1
GRPO	Grand Portage NM	2	MN	Midwest	79.4	68.7	31.8	1.1	6.0	12666.1
GRSA	Great Sand Dunes NP & Pres	1	CO	Intermountain	90.4	72.4	30.6	2.3	21.9	29669.7
GRSM	Great Smoky Mountains NP	1	TN	Southeast	102.5	87.4	39.9	16.1	29.4	62281.7
GRTE	Grand Teton NP	1	WY	Intermountain	83.4	70.8	42.9	1.6	19.8	38080.2
GUCO	Guilford Courthouse NMP	2	NC	Southeast	108.8	88.4	34.6	16.2	30.0	38277.5
GUIS	Gulf Islands NS	2	MS	Southeast	98.9	81.2	30.5	5.2	17.0	27476.0
GUMO	Guadalupe Mountains NP	1	TX	Intermountain	94.1	73.1	31.4	2.5	16.5	28962.0
GWCA	George Washington Carver NM	2	MO	Midwest	91.3	78.6	33.2	1.4	22.3	30352.8
GWMP	George Washington Mem PKWY	2	MD	National Capital	115.0	91.2	29.0	25.6	29.9	34739.5
HAFE	Harpers Ferry NHP	2	WV	National Capital	105.3	87.2	30.2	13.0	27.7	33683.9
HAFO	Hagerman Fossil Beds NM	2	ID	Pacific West	88.7	71.9	37.6	2.1	18.7	23973.7
HALE	Haleakala NP	1	HI	Pacific West	NA	NA	NA	NA	NA	NA
HAVO	Hawaii Volcanoes NP	1	HI	Pacific West	NA	NA	NA	NA	NA	NA
HEHO	Herbert Hoover NHS	2	IA	Midwest	85.7	72.9	30.5	0.5	12.3	17730.0
HOBE	Horseshoe Bend NMP	2	AL	Southeast	100.7	82.3	31.0	9.2	22.6	30892.3
HOCU	Hopewell Culture NHP	2	OH	Midwest	105.9	88.2	31.5	15.7	29.3	35647.6
HOFR	Home of Franklin D. Roosevelt NHS	2	NY	Northeast	111.9	88.1	29.8	15.8	18.8	26143.8
HOFU	Hopewell Furnace NHS	2	PA	Northeast	116.4	92.6	29.0	29.5	28.7	33702.3
HOME	Homestead NM of America	2	NE	Midwest	81.1	66.6	29.1	1.5	9.5	14516.5
HOSP	Hot Springs NP	2	AR	Midwest	93.0	77.4	27.1	3.3	19.8	26766.0
HOVE	Hovenweep NM	2	CO	Intermountain	79.6	68.9	38.7	0.0	23.8	39501.6
HUTR	Hubbel Trading Post NHS	2	AZ	Intermountain	84.7	71.8	36.2	0.6	27.1	41035.2
INDU	Indiana Dunes NL	2	IN	Midwest	101.9	83.8	30.1	10.0	19.9	23595.5
ISRO	Isle Royale NP	1	MI	Midwest	82.1	71.3	32.4	2.2	7.2	14364.0
JECA	Jewel Cave NM	2	SD	Midwest	83.6	70.0	34.4	0.6	17.5	29408.6

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JELA	Jean Lafitte NPres	2	LA	Southeast	102.3	80.7	25.8	7.2	16.7	27715.6
JODA	John Day Fossil Beds NM	2	OR	Pacific West	82.3	64.6	26.9	0.4	5.9	8664.2
JOFL	Johnstown Flood NMem	2	PA	Northeast	103.9	85.4	28.8	10.8	22.9	28482.5
JOMU	John Muir NHS	2	CA	Pacific West	92.3	66.8	21.2	3.9	7.5	11293.7
JOTR	Joshua Tree NP	1	CA	Pacific West	113.0	91.5	37.8	41.6	45.2	76245.4
KAHO	Kaloko-Honokohau NHP	2	HI	Pacific West	NA	NA	NA	NA	NA	NA
KALA	Kalaupapa NHP	2	HI	Pacific West	NA	NA	NA	NA	NA	NA
KATM	Katmai NP & Preserve	2	AK	Alaska	NA	NA	NA	NA	NA	NA
KEFJ	Kenai Fjords NP	2	AK	Alaska	NA	NA	NA	NA	NA	NA
KEMO	Kennesaw Mountain NBP	2	GA	Southeast	114.3	91.7	31.1	30.2	29.5	39645.4
KIMO	Kings Mtn. NMP	2	SC	Southeast	106.1	87.9	33.1	15.6	30.4	40822.6
KLGO	Klondike Gold Rush NHP	2	AK	Alaska	NA	NA	NA	NA	NA	NA
KNRI	Knife River Indian Villages NHS	2	ND	Midwest	67.6	58.8	30.2	0.0	2.3	9084.3
KOVA	Kobuk Valley NP	2	AK	Alaska	NA	NA	NA	NA	NA	NA
LABE	Lava Beds NM	1	CA	Pacific West	86.7	72.3	29.5	2.0	18.0	25432.3
LACL	Lake Clark NP & Preserve	2	AK	Alaska	NA	NA	NA	NA	NA	NA
LAME	Lake Mead NRA	2	NV	Pacific West	89.5	76.4	32.4	0.9	32.3	46507.4
LAMR	Lake Meredith NRA	2	TX	Intermountain	89.4	75.9	31.1	1.3	24.5	33657.9
LARO	Lake Roosevelt NRA	2	WA	Pacific West	77.1	64.7	31.6	0.2	6.8	10721.1
LAVO	Lassen Volcanic NP	1	CA	Pacific West	91.8	77.7	35.5	3.3	24.6	38702.4
LEWI	Lewis and Clark NHP	2	OR	Pacific West	80.2	61.1	23.2	0.3	3.5	5329.2
LIBI	Little Bighorn NM	2	MT	Intermountain	76.6	66.6	37.5	0.1	14.1	28144.4
LIBO	Lincoln Boyhood NMem	2	IN	Midwest	97.9	82.5	33.9	7.5	25.1	30776.6
LIRI	Little River Canyon NPres	2	AL	Southeast	105.0	87.2	33.8	14.8	29.4	45080.3
LYJO	Lyndon B. Johnson NHP	2	TX	Intermountain	101.1	84.9	27.7	9.3	18.2	28799.8
MABI	Marsh-Billings_Rockefeller NHP	2	VT	Northeast	91.8	75.0	29.4	2.5	8.8	16300.0
MACA	Mammoth Cave NP	1	KY	Southeast	100.3	83.5	32.0	7.3	27.5	36951.5
MANA	Manassas NBP	2	VA	National Capital	108.6	87.9	29.5	16.5	27.7	33434.0
MANZ	Manzanar NHS	2	CA	Pacific West	117.0	99.1	44.5	92.6	64.1	107208.5
MEVE	Mesa Verde NP	1	CO	Intermountain	79.0	68.0	36.8	0.0	22.3	35660.9
MIMA	Minute Man NHP	2	MA	Northeast	105.2	81.8	30.1	11.7	13.6	19567.3
MISS	Mississippi NRA	2	MN	Midwest	87.0	70.8	30.0	1.1	8.8	13765.1
MNRR	Missouri NRR	2	NE	Midwest	78.1	65.5	28.8	0.0	6.2	12144.7
MOCA	Montezuma Castle NM	2	AZ	Intermountain	98.5	82.0	40.9	3.2	36.3	62642.4
MOCR	Moore's Creek NB	2	NC	Southeast	95.2	81.1	32.1	5.8	22.9	29082.3
MOJA	Mojave NPres	2	CA	Pacific West	97.1	82.1	35.1	14.1	40.0	60827.1
MONO	Monocacy NB	2	MD	National Capital	110.4	89.5	30.6	19.8	29.5	36062.2
MORA	Mount Rainier NP	1	WA	Pacific West	81.3	64.6	26.3	0.8	4.3	9518.9
MORR	Morristown NHP	2	NJ	Northeast	116.5	91.2	26.3	31.6	25.8	31917.6
MORU	Mount Rushmore NMem	2	SD	Midwest	81.8	68.9	34.3	0.5	16.0	27707.4
MUWO	Muir Woods NM	2	CA	Pacific West	82.0	57.1	19.3	1.4	2.8	5368.6
NABR	Natural Bridges NM	2	UT	Intermountain	80.7	70.7	40.8	0.3	25.2	43025.0
NACE	Anacostia Park	2	DC	National Capital	118.0	92.7	29.0	29.7	30.5	35594.3
NAVA	Navajo NM	2	AZ	Intermountain	83.2	72.5	41.6	0.5	28.5	50277.4
NEPE	Nez Perce NHP	2	MT	Pacific West	80.5	66.9	32.7	0.6	9.4	14700.9
NERI	New River Gorge NR	2	WV	Northeast	96.1	82.5	32.0	3.8	24.6	36176.7
NIOB	Niobrara NSR	2	NE	Midwest	78.2	65.2	28.5	0.1	8.1	13550.2
NISI	Ninety Six NHS	2	SC	Southeast	98.5	83.6	31.1	7.0	27.3	37672.0
NOAT	Noatak NPres	2	AK	Alaska	NA	NA	NA	NA	NA	NA
NOCA	North Cascades NP	1	WA	Pacific West	65.0	52.9	19.7	0.2	1.3	3332.4
NPSA	The National Park of American Samoa	2	AS	Pacific West	NA	NA	NA	NA	NA	NA

1999 - 2003 5-Year Average Ozone Estimates

ALPHA	PARK NAME	CLASS	STATE	REGION	ppb	ppb	ppb	hours	ppm-hrs	ppb-hrs
					2nd Highest Daily Max.	4th Highest 8-Hr.	Mean O <sub>3</sub>	Number Hours > 100 ppb	SUM06	24-Hr Annual W126
OBRI	Obed Wild and Scenic River	2	TN	Southeast	104.0	87.5	36.4	16.1	30.4	52483.0
OCMU	Ocmulgee NM	2	GA	Southeast	117.5	93.1	29.8	33.1	28.9	38328.2
OLYM	Olympic NP	1	WA	Pacific West	62.6	51.2	20.4	0.2	1.4	3253.2
ORCA	Oregon Caves NM	2	OR	Pacific West	83.2	68.1	28.1	0.8	12.1	15553.3
ORPI	Organ Pipe Cactus NM	2	AZ	Intermountain	92.6	76.3	29.0	1.9	22.1	30659.9
OZAR	Ozark NSR	2	MO	Midwest	103.6	83.3	30.9	9.9	22.6	29738.7
PAAL	Palo Alto Battlefield NHS	2	TX	Intermountain	81.1	68.2	24.0	0.7	6.2	11096.0
PAIS	Padre Island NS	2	TX	Intermountain	91.6	75.9	25.1	2.7	10.3	18528.1
PECO	Pecos NHP	2	NM	Intermountain	87.0	71.9	31.4	0.1	26.0	34962.6
PEFO	Petrified Forest NP	1	AZ	Intermountain	95.2	78.4	38.9	2.6	34.1	52454.9
PERI	Pea Ridge NMP	2	AR	Midwest	91.5	77.8	32.9	1.6	19.9	30013.2
PETE	Petersburg NB	2	VA	Northeast	107.9	86.3	32.8	13.0	26.9	33496.0
PETR	Petroglyph NM	2	NM	Intermountain	86.8	71.8	31.1	0.1	25.8	34676.9
PINN	Pinnacles NM	1	CA	Pacific West	90.3	71.9	27.8	11.3	14.3	23838.3
PIPE	Pipestone NM	2	MN	Midwest	79.5	66.6	29.0	0.2	6.1	12759.4
PIRO	Pictured Rocks NL	2	MI	Midwest	97.4	83.3	34.7	9.5	12.9	22310.3
PISP	Pipe Spring NM	2	AZ	Intermountain	87.2	75.2	36.9	0.9	30.9	50319.3
PORE	Point Reyes NS	1	CA	Pacific West	79.8	56.6	19.5	0.9	3.0	5523.3
PRWI	Prince William Forest Park	2	VA	National Capital	110.7	88.7	30.0	18.6	27.9	33515.9
PUHO	Pu`uhonua o Honaunau NHP	2	HI	Pacific West	NA	NA	NA	NA	NA	NA
RABR	Rainbow Bridge NM	2	UT	Intermountain	82.5	72.3	42.1	0.3	27.9	49242.5
REDW	Redwood NP	1	CA	Pacific West	85.0	70.0	27.1	1.8	15.5	20812.2
RICH	Richmond NBP	2	VA	Northeast	111.9	88.2	32.9	16.6	27.9	34060.0
ROCR	Rock Creek Park	2	DC	National Capital	116.3	91.8	29.1	27.3	30.2	35103.5
ROMO	Rocky Mountain NP	1	CO	Intermountain	94.3	76.1	35.0	2.2	24.1	38094.9
RUCA	Russell Cave NM	2	AL	Southeast	103.7	86.4	32.4	12.8	29.0	42179.2
SAAN	San Antonio Missions NHP	2	TX	Intermountain	98.2	83.0	27.1	7.7	15.6	26691.3
SACN	Saint Croix NSR	2	MN	Midwest	84.5	69.5	29.9	0.9	7.8	12772.3
SAGA	Saint-Gaudens NHS	2	NH	Northeast	92.1	74.9	28.9	2.7	8.9	15177.2
SAGU	Saguaro NP	1	AZ	Intermountain	83.7	71.5	31.4	0.2	17.9	29962.3
SAHI	Sagamore Hill NHS	2	NY	Northeast	122.9	90.5	25.8	27.2	20.5	24176.8
SAIR	Saugus Iron Works NHS	2	MA	Northeast	105.6	81.8	29.9	12.2	13.5	19040.3
SAJH	San Juan Island NHP	2	WA	Pacific West	62.5	51.0	20.2	0.1	1.2	2873.7
SAMO	Santa Monica Mountains NRA	2	CA	Pacific West	107.7	82.2	25.5	32.0	22.5	35231.6
SAPU	Salinas Pueblo Missions NM	2	NM	Intermountain	86.2	71.2	31.2	0.1	24.4	33647.8
SARA	Saratoga NHP	2	NY	Northeast	98.5	80.6	29.4	6.0	13.6	22281.3
SCBL	Scotts Bluff NM	2	NE	Midwest	92.9	74.0	30.9	2.2	22.0	34028.3
SEKI	Sequoia / Kings Canyon NP	1	CA	Pacific West	120.5	100.6	44.3	100.4	64.9	106575.1
SHEN	Shenandoah NP	1	VA	Northeast	98.4	84.2	34.6	6.8	25.8	41524.2
SHIL	Shiloh NMP	2	TN	Southeast	101.6	84.3	34.8	9.0	28.2	39492.2
SITK	Sitka NHP	2	AK	Alaska	NA	NA	NA	NA	NA	NA
SLBE	Sleeping Bear Dunes NL	2	MI	Midwest	104.7	87.7	35.7	12.2	16.7	27823.2
STRI	Stones River NB	2	TN	Southeast	100.3	83.2	31.7	9.2	27.5	37933.5
SUCR	Sunset Crater NM	2	AZ	Intermountain	94.3	79.7	42.8	2.6	35.0	62482.7
TAPR	Tallgrass Prairie NPres	2	KS	Midwest	94.2	78.3	31.5	2.4	24.0	30992.4
THRO	Theodore Roosevelt NP	1	ND	Midwest	67.4	60.3	32.3	0.0	3.2	12047.2
THST	Thomas Stone NHS	2	MD	Northeast	114.5	90.7	30.5	23.3	29.0	34766.3
TICA	Timpanogos Cave NM	2	UT	Intermountain	103.2	80.2	37.5	5.4	27.5	27447.6
TIMU	Timucuan Ecological and Historical Prese	2	FL	Southeast	91.6	72.1	24.7	1.0	10.9	17839.1
TONT	Tonto NM	2	AZ	Intermountain	102.2	82.2	40.7	4.2	37.4	56398.6
TUMA	Tumacacori NM	2	AZ	Intermountain	84.3	71.6	30.5	0.3	17.8	29182.0

1999 - 2003 5-Year Average Ozone Estimates

ALPHA	PARK NAME	CLASS	STATE	REGION	ppb	ppb	ppb	hours	ppm-hrs	ppb-hrs
					2nd Highest Daily Max.	4th Highest 8-Hr.	Mean O <sub>3</sub>	Number Hours > 100 ppb	SUM06	24-Hr Annual W126
TUZI	Tuzigoot NM	2	AZ	Intermountain	96.8	81.3	41.1	2.9	34.9	61866.0
UPDE	Upper Delaware Scenic and Recreational R	2	DE	Northeast	104.5	85.0	29.7	10.8	20.1	27710.3
VAFO	Valley Forge NHP	2	PA	Northeast	118.0	93.7	27.9	33.4	28.9	34001.3
VAMA	Vanderbilt Mansion NHS	2	NY	Northeast	111.9	88.1	29.8	15.8	18.8	26143.8
VICK	Vicksburg NC	2	MS	Southeast	93.2	77.4	29.5	1.9	18.7	26175.9
VIIS	Virgin Islands NP	1	VI	Southeast	NA	NA	NA	NA	NA	NA
VOYA	Voyageurs NP	1	MN	Midwest	75.0	65.9	31.5	0.1	5.0	12504.2
WABA	Washita Battlefield NHS	2	OK	Intermountain	93.8	79.8	30.8	3.2	25.5	34568.0
WACA	Walnut Canyon NM	2	AZ	Intermountain	96.1	80.6	42.0	2.9	35.5	62019.0
WAPA	War in the Pacific NHP	2	GU	Pacific West	NA	NA	NA	NA	NA	NA
WEFA	Weir Farm NHS	2	CT	Northeast	125.4	93.3	28.8	28.9	21.4	26065.7
WHIS	Whiskeytown NRA	2	CA	Pacific West	93.1	77.6	28.1	3.9	22.9	30485.9
WHMI	Whitman Mission NHS	2	WA	Pacific West	80.3	65.5	29.5	0.4	6.3	10037.7
WHSA	White Sands NM	2	NM	Intermountain	93.2	71.9	31.8	2.4	17.2	29451.1
WICA	Wind Cave NP	1	SD	Midwest	84.6	70.4	33.9	0.8	17.9	30185.8
WICR	Wilson's Creek NB	2	MO	Midwest	90.3	76.0	32.6	1.1	17.5	25126.7
WOTR	Wolf Trap Farm Park	2	VA	National Capital	113.5	90.4	29.0	23.4	29.6	34360.8
WRST	Wrangell-St Elias NP & Pres	2	AK	Alaska	NA	NA	NA	NA	NA	NA
WUPA	Wupatki NM	2	AZ	Intermountain	92.7	78.9	43.5	2.2	34.6	62798.6
YELL	Yellowstone NP	1	WY	Intermountain	76.4	67.2	43.5	0.4	15.2	36363.1
YOSE	Yosemite NP	1	CA	Pacific West	108.3	90.1	46.7	28.6	50.4	88986.6
YUCH	Yukon-Charley Rivers NPres	2	AK	Alaska	NA	NA	NA	NA	NA	NA
YUHO	Yucca House NM	2	CO	Intermountain	79.3	68.5	38.1	0.0	23.3	38185.4
ZION	Zion NP	1	UT	Intermountain	88.5	75.6	34.3	1.1	30.3	45649.0

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 O<sub>3</sub>** - 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.