

Air Quality Pollutant Estimates

Heartland Network

Park	Ozone						Wet Deposition		Visibility					
	2nd Hi	1hr	#1hr > 100	4th Hi	8hr	#8hr > 85	Sum06	3 Mo	Total S kg/Ha	Total N kg/Ha	Dext	Clear	Mm-1	Mm-1
Arkansas Post NMem	126		31	93		12	32		5.21	4.25		30		183
Buffalo NR	103		6	79		4	12		3.15	3.34		24		150
Cuyahoga Valley NRA	114		13	90		8	27		5.48	4.25		31		185
Effigy Mounds NM	93		1	75		2	9		3.60	5.23		23		138
George Washington Carver NM	108		6	80		4	19		2.72	3.31		23		144
Herbert Hoover NHS	90		1	72		1	7		4.20	5.23		25		151
Hopewell Culture NHP	119		23	90		10	25		3.52	2.67		36		192
Homestead NM of America	128		34	96		12	29		4.47	3.80		32		172
Hot Springs NP	102		5	80		4	19		3.79	3.80		25		153
Lincoln Boyhood NMem	116		16	89		8	33		3.89	3.29		37		193
Ozark NSR	117		11	84		5	24		2.84	2.81		29		169
Pea Ridge NMP	105		5	79		4	16		2.84	3.25		23		148
Pipestone NM	87		0	67		1	7		1.70	3.55		10		56
Tallgrass Prairie NPres	105		8	82		4	32		0.62	1.10		7		25
Wilson's Creek NB	94		2	71		1	15		1.34	2.53		9		40

Class: refers to an area's designation under the Clean Air Act

Ozone information represents 5-yr average of annual values from 1995-1999

2nd High 1 hr concentration (ppb): indicates peak values for ozone; old standard of 0.12 ppm (120 ppb) was based on 2nd hi, 1-hr average

4th high 8 hr concentration (ppb): new ozone standard of 0.08 ppm (80 ppb) is based on 4th hi, 8-hr average

#8 hours>85 ppb: indicates how often the area would be in violation of the new 8-hr standard of 0.08 ppm

hours> 100 ppb: high peaks in ozone concentration, as well as cumulative dose, contribute to vegetation injury

SUM06_3mon (ppm-hrs) - sum of hourly ozone conc≥0.06 ppm (60 ppb) over 3 months (~ growing season), i.e., cumulative ozone dose

NADP information represents 6-yr average of annual values from 1995-2000

NADP deposition (kg/ha/yr): estimate of pollutants deposited to ecosystem by precipitation (NADP-National Atmospheric Deposition Program)

NADP Total S - sulfur from sulfate deposited by precipitation

NADP Total N - inorganic nitrogen (ammonium plus nitrate) deposited by precipitation

Visibility IMPROVE information represents 5-yr average of annual values from 1995-1999

bextClear - measure of light scattering and absorption, i.e., extinction, by particles in the air on an average clear day

bextHazy - measure of light scattering and absorption, i.e., extinction, by particles in the air on an average hazy day