

Air Quality Pollutant Estimates

Great Lakes 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	bext Clear	bext Hazy
Apostle Islands NL	93	1	72	2	5	1.07	1.91		11	77
Grand Portage NM	93	2	72	2	4	0.69	1.17		11	77
Indiana Dunes NL	121	14	87	6	26	5.96	5.84		31	179
Isle Royale NP	98	5	76	3	5	0.95	1.44		13	87
Mississippi NRRRA	93	1	71	1	7	1.34	2.51		14	87
Pictured Rocks NL	114	13	84	5	13	2.32	3.35		21	129
Saint Croix NSR	125	22	87	7	16	2.07	2.14		13	60
Sleeping Bear Dunes NL	121	16	89	6	17	3.54	4.70		25	152
Voyageurs NP	86	1	69	1	5	1.07	2.08		9	69

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