

Air Quality Pollutant Estimates

Appalachian Highlands Network

Park	Ozone					NADP			Visibility	
	2nd_Hi_1hr	4th_Hi_8hr	#8hr_>_85	#1hr_>_100	Sum06_3_Mo	Total_S_kg/Ha	Total_N_kg/Ha	Rbext_Clear	Rbext_Hazy	
Big South Fork NRA	113.3	88.1	10.2	21.0	30.3	4.57	3.37	33	200	
Blue Ridge Parkway	114.0	86.7	7.3	13.6	29.4	3.55	2.78	33	189	
Great Smoky Mountains NP	110.5	87.8	11.7	22.0	31.2	5.24	3.94	28	205	
Obed Wild and Scenic River	114.1	89.1	10.9	23.3	35.0	4.81	3.48	33	202	

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 \geq 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