

Supplemental Table S5-1 U.S Distribution of Oxides of Nitrogen for Calculating Increments for Standardizing Epidemiologic Effect Estimates – Short-term Averages^a

Oxide of Nitrogen	Time Period	N Daily Observations/ Sites ^b	Percentiles (ppb)								95 th -50 th (ppb)	Increment for Standardization ^b
			5	10	25	50	75	90	95	99		
24-HOUR AVERAGE												
NO ₂	2011-2013	337,644, 399 sites	0.71	1.3	3.1	6.4	11.8	18.6	23.4	33.0	17.0	20 ppb
	2011	116,577, 337 sites	0.78	1.4	3.4	7.0	12.8	20.1	25.1	35.0	18.1	
	2012	117,648, 339 sites	0.78	1.4	3.2	6.6	11.9	18.5	23.2	32.1	16.6	
	2013	103,419, 300 sites	0.60	1.1	2.7	5.7	10.6	17.0	21.5	31.1	15.8	
NO ^d	2011-2013	305,019, 358 sites	-0.17	0.01	0.38	1.3	3.9	11.3	20.5	49.7	19.2	20 ppb
	2011	104,655, 303 sites	-0.17	0.02	0.40	1.4	4.4	12.8	23.4	54.7	22.0	
	2012	105,670, 304 sites	-0.17	0.00	0.37	1.3	4.0	11.3	20.5	48.9	19.2	
	2013	94,693, 275 sites	-0.17	0.01	0.35	1.2	3.4	9.6	17.3	44.5	16.1	
NO _x	2011-2013	315,273, 372 sites	0.79	1.5	3.5	7.7	15.4	29.3	42.6	79.4	34.9	40 ppb
	2011	107,972, 312 sites	0.87	1.6	3.8	8.3	16.7	32.0	46.5	85.6	38.2	
	2012	110,044, 317 sites	0.81	1.5	3.7	7.8	15.5	29.2	42.4	77.2	34.6	
	2013	97,257, 282 sites	0.72	1.4	3.2	6.9	13.9	26.5	38.4	74.1	31.5	
1-HOUR MAXIMUM												
NO ₂	2011-2013	337,644, 399 sites	2.0	3.0	7.4	15.6	26.8	37.0	43.0	55.0	27.4	30 ppb
	2011	116,577, 337 sites	2.0	3.5	8.0	17.0	28.3	39.0	45.0	57.2	28.0	
	2012	117,648, 339 sites	2.0	3.3	7.8	16.0	27.0	37.0	43.0	54.1	27.0	
	2013	103,419, 300 sites	2.0	3.0	6.8	14.0	24.4	34.8	40.8	52.8	26.8	
NO ^d	2011-2013	305,019, 358 sites	0.20	0.70	1.8	5.0	18.6	53.0	85.7	169.3	80.7	80 ppb
	2011	104,655, 307 sites	0.20	0.70	2.0	5.7	21.0	59.6	94.9	180.0	89.2	
	2012	105,670, 309 sites	0.10	0.70	1.8	5.1	19.0	53.1	86.0	167.0	80.9	
	2013	94,693, 279 sites	0.20	0.70	1.7	4.6	15.8	45.0	74.0	157.0	69.4	
NO _x	2011-2013	315,273, 372 sites	2.0	3.8	8.8	19.8	42.9	83.5	119.8	211.8	100.0	100 ppb
	2011	107,972, 303 sites	2.0	4.0	9.0	21.0	46.0	90.1	129.0	222.2	108.0	
	2012	110,044, 304 sites	2.0	4.0	9.0	20.0	43.3	84.0	119.8	209.0	99.8	
	2013	97,257, 275 sites	2.0	3.4	8.0	17.9	38.3	75.0	109.0	201.0	91.1	
8-HOUR MAXIMUM												
NO ₂	2011-2013	337,644, 399 sites	1.3	2.2	5.0	10.4	19.0	28.4	34.0	44.2	23.6	25 ppb
	2011	116,577, 337 sites	1.3	2.4	5.4	11.4	20.5	30.2	35.9	46.1	24.5	
	2012	117,648, 339 sites	1.3	2.3	5.1	10.6	19.1	28.2	33.8	43.5	23.2	
	2013	103,419, 300 sites	1.1	1.9	4.4	9.3	17.1	26.2	31.8	42.0	22.5	
NO ^d	2011-2013	305,019, 363 sites	0.0	0.24	0.88	2.6	8.4	25.6	44.8	98.6	42.2	45 ppb
	2011	104,655, 307 sites	0.0	0.25	0.94	2.9	9.6	29.3	50.5	107.3	47.6	
	2012	105,670, 309 sites	0.0	0.21	0.88	2.6	8.5	25.7	44.9	97.6	42.3	
	2013	94,693, 279 sites	0.0	0.24	0.83	2.3	7.1	21.6	37.8	87.6	35.5	
NO _x	2011-2013	315,273, 372 sites	1.4	2.5	5.7	12.5	26.1	51.3	74.5	135.5	62.0	65 ppb
	2011	107,972, 312 sites	1.5	2.6	6.1	13.4	28.4	56.1	81.1	143.4	67.7	
	2012	110,044, 317 sites	1.4	2.5	5.9	12.8	26.4	51.3	74.1	134.7	61.3	
	2013	97,257, 282 sites	1.4	2.3	5.1	11.3	23.5	46.0	66.5	125.9	55.2	

^aHourly data for the U.S. available at the AQS datamart: <http://www.epa.gov/ttn/airs/airsags/detaildata/downloadaqsdata.htm>

^bMeet the criteria of 75% completeness for each day and year.

^c95th-50th percentile differences for 2011-2013 rounded up to nearest 5 ppb.

^dNO calculated by subtracting hourly NO₂ from hourly NO_x concentrations for a given site, date, and measurement time.