E-20-H43 H3

Multiple Pollutants and Risk of Cardiac and Respiratory Emergency Department Visits in Atlanta – Air Quality Data

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Annual Progress Report to Emory University, under EPA contract Period of performance: January 1 – December 31, 2004

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Introduction

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Air quality data and analysis were provided to support an Emory School of Public Health research team in the epidemiologic investigation of relationships between multiple pollutants and risk of cardiac and respiratory emergency department visits in Atlanta. The study expands an existing study to cover the period January 1, 1993 through December 31, 2002. Two air quality databases were used in this study. First, a database from the Atlanta super-station for the time period July 1, 1998 through December 31, 2002 was developed by Atmospheric Research & Analysis, Inc. (ARA) under Electric Power Research Institute (EPRI) sponsorship for the Aerosol Research Inhalation Epidemiological Study (ARIES). Second, a database of ambient air monitoring data from sources other than the super-station for the period January 1, 1993 through December 31, 2002 was developed by Atmospheric Research.

In this report, the development of the second database through December 31, 2002 is documented. Air quality measures and data sources are identified. Temporal and spatial patterns are described. Methods for interpolating missing hourly data and methods for imputing values for days when data are missing are described.

Air Quality Measures and Data Sources

Meteorological data were collected from the National Climatic Data Center (NCDC) network. Daily values of mean barometric pressure, maximum and minimum temperature, maximum and minimum relative humidity, total precipitation, mean dew point, average wind speed, average wind vector, and mean visibility were obtained from the Hartsfield Airport station. Ambient air quality data were collected from the EPA's Air Quality System (AQS), the Georgia Department of Natural Resources' Metro Atlanta Index (MAI), the Assessment of the Spatial Aerosol Composition in Atlanta (ASACA), and the SouthEastern Aerosol Research and Characterization Study (SEARCH) networks. Hourly values of the gaseous pollutants sulfur dioxide (SO₂), carbon monoxide (CO), nitrogen dioxide (NO₂), nitrogen oxides (NO_x), and ozone (O₃) were obtained from several metro-Atlanta monitoring sites, as were measures of particulate matter mass (PM₁₀ and PM_{2.5}) and composition. The locations of monitoring stations are listed in Table 1 and shown in Figure 1.

station	measure(s)	longitude (W)	latitude (N)
Hartsfield Int. Airport (HA) ^a	all met. data	-84.433	+33.633
Bolton Rd (BR) ^a	precipitation	-84.500	+33.833
Fulton County (FC) ^a	visibility	-84.517	+33.783
Roswell Rd (RR) ^b	CO	-84.3803	+33.8764
Dekalb Tech (DT) ^b	CO	-84.2358	+33.7892
Confederate Ave. (CA) ^b	SO_2, O_3	-84.3578	+33.7206
Stilesboro (St) ^b	SO ₂	-84.9153	+34.1033
Georgia Tech (GT) ^b	NO ₂ , NO _x , SO ₂ , PM ₁₀	-84.4008	+33.7758
S. Dekalb College (SD) ^{b,d}	NO ₂ , NO _x , O ₃ , PM _{2.5}	-84.2903	+33.6875
Conyers Monastery (Co) ^b	NO_2 , NO_x , O_3	-84.0667	+33.5856
Tucker (Tu) ^{b,d}	NO ₂ , PM _{2.5}	-84.2142	+33.8472
Fire Station # 8 (FS8) ^b	$PM_{10}, PM_{2.5}$	-84.4358	+33.8017
Fulton County Health Dept. (FCHD) ^c	PM ₁₀	-84.3828	+33.7517
Doraville Health Center (DHC) ^b	PM ₁₀	-84.2789	+33.9031
Griffin (Gr) ^b	PM ₁₀	-84.2850	+33.2647
Douglasville (Do) ^b	PM _{2.5}	-84.7789	+33.7433
E. Rivers School (ERS) ^b	PM _{2.5}	-84.3819	+33.8137
East Point Health Center (EPHC) ^b	PM _{2.5}	-84.4375	+33.6164
Forest Park (FP) ^b	PM _{2.5}	-84.3911	+33.6097
Kennesaw (Ke) ^b	PM _{2.5}	-84.6075	+34.0144
Fort McPherson (FM) ^d	PM _{2.5}	-84.4375	+33.7083
Jefferson St. (JS) ^{d,e}	CO, SO ₂ , O ₃ , NO, NO ₂ ,	-84.4167	+33.7769
	NO _y , PM _c , PM _{2.5} , PM composition, MET		
Yorkville (Yo) ^{b,e}	CO, SO ₂ , O ₃ , NO, NO _y , PM _c , PM _{2.5} , PM composition, MET	-85.0453	+33.9283

Table 1. Air quality monitoring stations in metro-Atlanta used in this study.

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^a NCDC network; ^b AQS network; ^c MAI network; ^d ASACA network; ^e SEARCH network

Using raw data collected from the air quality data networks, various daily averages were calculated and a master air quality database (master.xls) was created. Data files are organized as shown in Figure 2.

Composite files were constructed to provide values of air quality measures for a central site in metro-Atlanta. The stations chosen for this composite site are underlined in Table 2. Averages and ranges for each measure are also given in Table 2. A data summary table and plots of air pollutant trends by year, month, day-of-week, and hour-of-day are appended to this report.



Figure 1. Location of selected air quality monitoring stations (triangles). Also shown are the locations of hospitals participating in the study (circles).



Figure 2. Organization chart for data files.

	station	frequency	average (range)
MET: mean pressure	HA	daily	981 millibar (959-1001)
ma ximum temperature	HA	daily	72.4 °F (18-102)
minimum temperature	<u>HA</u>	daily	53.3 °F (6 - 80)
maximum relative humidity	HA	daily	88.3 % (40 - 100)
minimum relative humidity	HA	daily	48.0%(7-100)
mean dew point	<u>HA</u>	daily	50.7 °F (-2.4 – 74.7)
total precipitation	<u>ha</u> ,br	daily	0.13 inches $(0 - 6.7)$
mean wind speed	<u>HA</u>	daily	8.1 mph (0.3 - 28.1)
mean wind vector	<u>HA</u>	daily	$1.4 \text{ mph} (0.1 - 23.9); 313^{\circ}$
mean visibility	<u>HA</u> ,FC	daily	9.3 miles $(0.3 - 21.3)$
SO ₂ (1-hr max 24-hr avg)	GT	hourly	15.3 ppb (1 – 149)
	\overline{CA}	hourly	12.5 ppb(1 - 136)
	JS	hourly, since 8/1/98	18.6 ppb (0.05 - 101)
	St	hourly	12.4 ppb(1-273)
	Yo	hourly	11.6 ppb (0.2 - 158)
CO (1-hr max, 8-hr max; 24-hr avg)	DT	hourly	1.68 ppm (0.1 - 7.7)
	RR	hourly, since 8/5/94	2.00 ppm (0.2 - 9.5)
	JS	hourly, since 8/1/98	1.37 ppm (0.20 - 7.69)
	Yo	hourly	0.30 ppm (0.08-1.05)
NO_2 (1-hr max 24-hr avg)	GT	houly	44.6 ppb (7 – 181)
	JS	hourly, since 8/1/98	52.9 ppb (0.1 - 200)
	SD	hourly	33.4 ppb(1 - 139)
	Tu	hourly, since 4/6/95	32.7 ppb (1 - 100)
	Со	hourly, since 4/1/94	14.7 ppb (1 - 80)
	Yo	hourly, since 1/25/96	11.7 ppb (1 - 70)
NO _x (1-hr max 24-hr avg)	GT	hourly, since 4/1/98	133 ppb (5 – 996)
	JS	hourly, since 8/1/98	153 ppb (6 – 671)
	SD	hourly, since 4/1/94	158 ppb (1 – 930)
	Tu	hourly, since 4/6/95	64.7 ppb (1 – 387)
	Co	hourly, since 4/1/94	27.2 ppb (1 – 187)
	Yo	hourly, since 1/25/96	13.8 ppb (1 – 148)
O ₃ (1-hr max; <u>8-hr max</u> , 24-hr avg)	<u>— CA</u>	hourly 6 93-95: 3/1-11/30	54.0 ppb (3 – 147)
	SD	hourly - 96: 3/1–10/31	49.7 ppb (2 – 138)
	Co	hourly 97-02: 4/1–10/31	54.5 ppb (5 – 133)
	JS	hourly, since 8/1/98	44.3 ppb (1 – 131)
	Yo	hourly	51.5 ppb (3 – 133)
PM_{10} mass (24-hr avg)	GT	daily, since 1/9/96	$26.0 \ \mu g/m^3 (4-98)$
	JS	daily, since 7/15/98	$27.8 \ \mu g/m^3 (4 - 100)$
	FCHD	5 dy/wk, 1/1/93-1/3/96	$29.8 \ \mu g/m^3 (0 - 151)$
	FS8	6 th day	$32.0 \ \mu g/m^3 (0-80)$
	DHC	6^{th}day	$24.8 \ \mu g/m^3 (0-74)$
	Yo	daily, since 7/25/98	$21.2 \ \mu g/m^3 (5-62)$
	Gr	6 th day	$234 \text{ µg/m}^3 (0-82)$
PM_{2} mass (24-hr avg)	IS	daily_since 7/10/98	$\frac{180 \mu g/m^3 (3-66)}{180 \mu g/m^3 (3-66)}$
$(\underline{},\underline{},,,,,,,$	FM	daily, since $3/1/99$	$10.0 \ \mu g/m^3 (3 - 75)$
	Tu	daily, since $3/1/99$	$19.2 \ \mu g/m^3 (3 - 52)$
	SD	daily, since $3/1/99$	$19.8 \ \mu g/m^3 (5 - 32)$
	2D DUC	daily, since 1/1/99	$18.4 \text{ µg/m}^3 (0.7 \text{ PO})$
	DHC		$18.4 \ \mu g/m \ (0.7 - 89)$
	ERS	daily, since 1/1/99	$18.0 \ \mu g/m^2 (2 - 140)$
	FS8	3 rd day, since 1/1/99	$20.1 \ \mu g/m^2 (0.8 - 79)$
	EPHC	3 rd day, since 1/1/99	$18.3 \ \mu g/m^3 (0.4 - 77)$
	FP	3 rd day, since 1/1/99	$18.2 \ \mu g/m^{3} (0.7 - 74)$
	Ke	3 rd day, since 1/1/99	18.0 $\mu g/m^{3}(2-94)$
	Yo	3 rd day, since 5/6/98	14.3 $\mu g/m^3 (2-65)$

Table 2. Daily air quality measures, January 1, 1993 through December 31, 2002 (3652 days).

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Temporal Patterns

Features of the temporal profiles of selected meteorological measures, SO_2 , CO, NO_2 , NO_x , O_3 , PM_{10} , and $PM_{2.5}$ are highlighted in Table 3 and described below for the January 1, 1993 through December 31, 2002 period.

	peak year	peak month	peak day-of-wk	peak hours	R-value ^a	R-value ^b
temperature	1994	July-August				
precipitation	1994	Jan-March				
wind speed	1994	Jan-March				
1-hr SO ₂ , GT	1993	Oct-March	Wednesday	10am - 5p m	0.27	0.11
1-hr CO, DT	1993	Oct-Feb	Wednesday	7am/9pm	0.47	0.17
1-hr NO ₂ , GT	1996	March-May	Wednesday	7am/9pm	0.53	0.22
1-hr NO _x , GT	1999	Oct-March	Wednesday	7am	0.49	0.16
8-hr O ₃ , CA	1999	July-August	Saturday	12pm – 5pm	0.72	0.54
24-hr PM ₁₀ , GT	1993	July-August	Wednesday	7am	0.69	0.45
24-hr PM _{2.5} , DHC	1999	July-August	Thursday	9am	0.56	0.35

Table 3. Features of temporal patterns for selected air quality measures (1/1/93 - 12/31/02).

^a Correlation with value on previous day.

^b Correlation with value two days previous.

Meteorological conditions in Atlanta in 1994 were unusual. This year had the highest total precipitation, average wind speed, and average daily temperature of any year during the study period. High rainfall resulted in much flooding in Georgia that year. In general, ambient air pollutant concentrations were low.

Annual average daily one-hour maximum SO_2 concentration was highest in 1993 at about 20 ppb at the Georgia Tech monitoring station. It decreased in 1994 and 1995, then held mostly constant at about 10 ppb through 2002. The decrease in SO_2 concentration is likely due to installation of scrubbers at Georgia coal-fired power plants. SO_2 concentrations are highest in winter. In July, SO_2 concentrations are also high, consistent with periods of high energy consumption. SO_2 concentrations are highest mid-week and lowest on weekends. Peak SO_2 concentrations typically occur between the hours of 10am and 5pm (EST). Occasional spikes of SO_2 concentration are observed during mid-day fumigation events.

Annual average daily one-hour maximum CO concentration was highest in 1993 at 2.1 ppm at the Dekalb Tech monitoring station. It has decreased since, to less than 1.3 ppm in 2002. CO levels are highest in fall and winter, peaking in November. By day-of-week, peak CO levels are observed mid-week. Two peaks in the diurnal pattern of CO are observed, at 7am and at 9pm. This pattern is consistent with mobile sources as a major source, with overnight levels higher than mid-day levels due to atmospheric mixing height.

Annual average daily one-hour maximum NO₂ concentration at the Georgia Tech monitoring station in mid-town Atlanta fluctuated between 40 and 50 ppb during the study period. At the more suburban South Dekalb College and Tucker sites, as well as at the monitoring stations in Conyers and Yorkville which are farther from Atlanta, NO₂ concentration increased during the study period, likely due to increased motor vehicle traffic. NO₂ levels are lowest in summer, and

highest in spring (April) and fall (October). NO_2 concentrations are lowest on weekends and highest mid-week. As with CO, the NO_2 diurnal patterns have two peaks. In the case of NO_2 , the evening peak occurs between 8pm and 11pm and the morning peak occurs between 7am and 8am. These patterns are consistent with mobile sources as the major NO_2 source in the metro-Atlanta area.

The annual average daily one-hour maximum NO_x concentration is about 130 ppb at the Georgia Tech monitoring station Like NO_2 and CO, NO_x levels are lowest in summer, peaking between November and February. By day-of-week, NO_x levels are highest mid-week and lowest on weekends. Levels peak at 7am on average.

Annual average daily eight-hour maximum O_3 concentration was highest in 1999, which was hot and dry, and lowest in 1994, when rainfall was high. O_3 levels are highest in the hottest months, July and August. On average, highest levels are observed on Saturdays, and lowest values on Monday, evidence of the slow conversion of precursors prior to the clearing out of primary pollutants on the weekend. Levels are highest between 1pm and 4pm (i.e., 2pm and 5pm DST).

Average PM_{10} values range from 25 to 35 µg/m³ in downtown Atlanta from 1993 through 2002. Like ozone, PM_{10} is highest in mid-summer (July and August). Levels are lowest on weekends and highest mid-week. Peak values occur at 7am. Average $PM_{2.5}$ values range from 18 to 20 µg/m³ in downtown Atlanta from 1998 through 2002. Like PM_{10} , $PM_{2.5}$ is highest in July and August. $PM_{2.5}$ is lowest on Mondays and highest on Fridays. It is lowest during the afternoons and peaks between 8am and 10am. These trends suggest a significant secondary formation component of particulate matter in metro-Atlanta.

Spatial Patterns

In Table 4, information is given on differences in the magnitude of the air pollutant levels and the correlation of air pollutant concentrations between the central monitoring location and stations farther from the Atlanta city center for the January 1, 1993 through December 31, 2002 period.

Table 4. Correlation coefficients for selected air pollutants at different metro Atlanta monitoring sites (1/1/93 - 12/31/02).

	station (primary listed first)	<i>R-value</i> ^a
1-hr max. SO ₂	<u>GT</u> vs. JS/CA/St/Yo	0.67/0.70/0.11/0.04
1-hr max. CO	<u>DT</u> vs. JS/ RR/Yo	0.72/0.65/0.16
1-hr max. NO ₂	<u>GT</u> vs. JS/Tu/SD/Co/Yo	0.59/0.76/0.68/0.43/0.06
1-hr max. NO _x	<u>GT</u> vs. JS/Tu/SD/Co/Yo	0.88/0.82/0.84/0.70/0.20
8-hr max. O ₃	<u>CA</u> vs. JS/SD/Co/Yo	0.98/0.97/0.91/0.84
24-hr avg PM ₁₀	GT vs. JS/FCHD/FS8/DHC/Gr/Yo	0.86/0.67/0.66/0.63/0.70/0.80
24-hr avg PM _{2.5}	DHC vs. JS/Tu/FM/ERS/SD/FP/FS8/EPHC/Ke/Yo	0.82/0.72/0.76/0.78/0.72/0.84/0.79/0.79/0.75/0.77

^a Correlation of value at secondary station to that at primary station (underlined).

SO₂ concentration is higher at the Georgia Tech monitoring station in mid-town Atlanta than at the Confederate Ave. station in downtown Atlanta and the station in Stilesboro. One-hour

maximum values at the Atlanta stations have a correlation coefficient of 0.70, and are not correlated to the Stilesboro and Yorkville values.

CO concentration is higher at the Roswell Rd station than the Dekalb Tech station, located farther from Atlanta city center. The Dekalb Tech station data are used as the primary values in this study because the Roswell Rd site is located nearer major roads and may be influenced more by local sources. The one-hour maximum CO data at the two stations have a correlation coefficient of 0.65.

 NO_2 concentration is higher at the Jefferson St and Georgia Tech monitoring stations than at the suburban sites of Tucker and South Dekalb College, which are higher than the more rural sites of Conyers to the southeast and Yorkville to the west. NO_x concentration at the South Dekalb College station is higher than that at Georgia Tech and Jefferson St. Correlation coefficients for both NO_2 and NO_x concentrations decrease with increasing distance from the Georgia Tech station.

Eight-hour maximum ozone levels are slightly higher in downtown Atlanta (Confederate Ave station) and in Conyers (to the southeast) than at South Dekalb College. The lower levels at South Dekalb College are likely due to the higher NO concentrations, resulting in higher rates of O_3 consumption. The levels at the three sites are highly correlated.

Like O_3 , PM_{10} and $PM_{2.5}$ concentrations do not decrease significantly until far outside metro-Atlanta area (e.g. Griffin and Yorkville). Like ozone, the levels are highly correlated over this wide area.

Interpolation of Missing Hourly Values

A program was written to linearly interpolate values for hours where air pollutant data are missing. The maximum number of consecutive hours for which data are missing and values are interpolated must be specified. The interpolation is performed prior to averages being calculated. Cells in which values have been interpolated are highlighted so that they can be identified. Alternative interpolation schemes were considered. Linear interpolation was found to be the best method for a limited number of consecutive missing hourly data over the range of situations encountered. Due to the air pollutant diurnal patterns, this procedure was found to yield more accurate averages than ignoring missing hourly values.

Imputation of Missing Daily Values

Statistical models were developed to impute missing daily values of air pollutant measures. These models utilize both temporal and spatial patterns, as well as correlations of the imputed measure with meteorological data and other air pollutant measures. R-values for correlations of air pollutant measures over time (i.e., with values of one day and two days previous) are listed in Table 3. R-values for correlations of air pollutant measures over space (i.e., with different monitoring sites) are listed in Table 4. In Table 5 below, R-values are listed for correlations between air quality measures, including meteorological measures.

			1000				
	SO_2	СО	NO_2	NO_x	O_3	PM_{10}	PM _{2.5}
1-hr max SO ₂ , GT	1		11				
1-hr max CO, DT	0.24	1					
1-hr max NO ₂ , GT	0.25	0.63	1				
1 -hr max NO_x , GT	0.23	0.74	0.76	1			
8 -hr max O_3 , CA	0.15	0.16	0.44	0.15	1		
24-hr PM ₁₀ , GT	0.13	0.41	0.56	0.45	0.56	1	
24-hr PM _{2.5} , DHC	0.07	0.33	0.38	0.31	0.54	0.69	1
maximum T, HA	- 0.03	0.10	0.16	- 0.07	0.64	0.53	0.34
minimum RH, HA	- 0.24	- 0.27	- 0.49	- 0.34	- 0.46	- 0.21	- 0.02
average WSP, HA	- 0.08	- 0.44	- 0.46	- 0.46	- 0.31	- 0.44	- 0.34

Table 5. R-values for correlations of air quality measures (1/1/93 - 12/31/02).

Pollutants that are most correlated with each other are PM_{10} and $PM_{2.5}$ (R = 0.69) and NO₂ and NO_x (R = 0.76). NO₂ and PM_{2.5} are components of NO_x and PM₁₀, respectively. CO and NO_x are also correlated (R = 0.74), likely because a major source of these pollutants is transportation. O₃ and PM_{2.5} are correlated (R = 0.54), likely because O₃ and a significant fraction of PM_{2.5} are secondary pollutants, produced by atmospheric reactions. O₃ is more strongly correlated with daily maximum temperature (R = 0.64) than the other pollutants, as expected. All pollutants are inversely correlated with minimum relative humidity and average wind speed, indicating highest pollutant levels occur on dry, still days. SO₂ is least correlated with other air pollutants and meteorological measures, likely due to periodic high concentration events caused by fumigation of power plant plumes.

Identification of Outlying Values

Statistical criteria were used to identify (and flag) outlying values for pollutants. This analysis provides an indication of potential measurement error and/or local effects on pollutant measures.

Summary

An air quality database has been extended to cover the period from January 1, 1993 through December 31, 2002 for use in epidemiologic study of multiple pollutants and risk of cardiac and respiratory emergency department visits in Atlanta. This database supplements the data collected under the ARIES program at a mid-town Atlanta site. Temporal and spatial patterns in the data have been studied to better understand how these ambient air pollutant measures might be used in the epidemiologic studies, and how the study findings might be interpreted. Electronic files have been transferred to the Emory School of Public Health researchers.

Appendix

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SO ₂ data summary	pages 14-15
CO data summary	pages 16-17
NO ₂ data summary	pages 18-19
NO _x data summary	pages 20-21
O ₃ data summary	pages 22-23
PM data summary	pages 24-27

Master Data File Summary, 1993-2002

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MET	pressure	ternp.	temp.	temp.	sunshine	precip.	precip.	RH	RH	dew point	WSP	wind vec.	wind dir.	visibility	visibility			
	Hartsfield	Hartsfield	Hartsfield	Hartsfield	Hartsfield	Bolton Rd	Hartsfield	Hartstield	Hartsfield	Hartsfield	Hartsfield	Hartsfield	Hartsfield	Hartsfield	Fulton Co			
	NGDC	NCDC	NCDC	NCDC	NCDC	NCDC	NCDC	NCDC	NCDC	NCDC	NCDC	NCDC	NCDC	NCDC	NCDC			
	24 hravg	max	min	.5max+mi	r 24 hr tot	24hrtot	24 hr tot	min	max	24 hravg	24hr avg	24 hr avg	24hravg	24hravg	24hravg			
	(millibar)	(deg F)	(deg F)	(deg F)	(minutes)	(inches)	(inches)	(%)	(%)	(deg F)	(mph)	(mph)	(degrees)	(miles)	(miles)			
avg	981.3	3 72.45	53.34	63.10	459.10	0.139	0.128	48D1	68.33	50.73	8.15	6.59		9.26	8.51			
max	1001.4	102	60	90.5	860	5.05	6.68	100	100	74.7	28.1	23.9	360	21.3	19.2			
min	959.0) 18	6	i 13	6	0	0	7	40	-24	0.3	0.1	1	0.3	0.6			
count	3652	2 3652	3652	3652	2398	: 3651	3651	3662	3652	3652	3652	3647	3647	3451	3245			
missing	0) (0	0	1254	1	1	0	0	0	D	5	5	201	407			
NO2	Georgia 1	lech	S. Dekalb	College	Conyers		Tucker		York/ille		Jefferson -	St	composite	(GT/SD/T	u avg)	-		
	AQS	AQS	AQS	AQS	AQS	AQS	AQS	AQS	AOS	AQS	SEARCH	SEARCH						
	1hr max	24hr avg	1hr max	24 hravg	1hr max	24hravg	1hr max	24hravg	1hi max	24 hrawg	1hr max	24 hranvg	1hr max	24 hravg				
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)				
avg	44.6	235	33.4	16.0	14.7	7.1	32.7	16.6	11.7	5.3	529	34.2	36.8	18.7				
max	181.0	74.4	139.0	66.7	80.0	26.3	100.0	50.2	70.0	31.6	200 D	199.4	113.7	56.8				
min	7.0) 1.7	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.D	0.1	0.1	8.1	2.9				
count	3223	3223	3269	3269	3052	3062	2456	2466	2249	2249	1003	1003	3625	3625				
missing	429	429	383	383	600	600	1196	1 196	140.3	1403	2649	2649	27	27		_		
NOx	Georgia T	ech	S. Dekalb	College	Conyers		Tucker		Yorkville		Jefferson -	St	composite	(GT/SD/T	u avg)	-		
	AQS	AQS	AQS	AQS	AQS	AQS	AQS	AQS	AQS	AQS	SEARCH	SEARCH						
	1hr max	24hr avg	1hr max	24 hr avg	1hr max	24hravg	1hr max	24hravg	1hf max	24hr avg	1hr max	24 hr avg	1hr max	24hravg				
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(p p m)	(ppm)	(ppm)	(ppm)				
avg	D.133	0.082	0.158	0.104	0.027	0.016	0.D65	0.038	9.014	0.009	0.153	0.049	0.116	0.073				
max	0.996	0.776	0.930	0.702	0.167	0.106	0.387	0.269	9.148	0.120	0.671	0.347	0.726	0.596				
min	D.005	0.002	D.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.006	0.002	0.003	-0.003				
count	1677	1677	2693	2693	2889	2889	2452	2462	2225	2225	994	994	2974	2974				
missing	1975	1975	959	959	763	763	1200	1200	1427	1427	2658	2658	678	678				
SO2	Confedera	ate Ave.	Georgia Tr	ech	Stilesboro		Yorkville		Jefferson	St	composite	(CA/GT av	rg)			_		
	AQS	AQS	AQS	AQS	AQS	AQS	SEARCH	SEARCH	SEARCH	SEARCH								
	1hr max	24hr avg	1hr max	24 hrawg	1hr max	24hravg	1hr max	24hravg	1hr max	24 hravg	thr max	24 hr avg						
	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb)	(ppb) _	(ppb)	(ppb)	(ppb)	(ppb)						
avg	12.51	3.72	15.30	4,44	12.36	3.09	11.58	3.21	18.61	6.13	14.03	4.13						
max	136.00	31.60	149.00	36.25	273.00	45.58	167.91	29.27	100.78	39.67	102.67	30.03						
min	1.00	0.04	1.00	0.25	1.00	1.00	Q.18	0.06	0.D6	D.06	1.99	D.81						
count	3481	3481	3378	3378	3554	3654	2904	2904	1145	1145	3628	3628						
missing	171	171	274	274	98	8@	748	748	2507	2507	24	24						
co	Dekalb Te	ch		Roswell R	d		Yorkville			Jefferson (St		composite	(DT/RR an	/g)	•		
	AQS	AQS	AQS	AQS	AQS	AQS	SEARCH	SEARCH	SEARCH	SEARCH	SEARCH	SEARCH						
	1hr max	8hr max	24hravg	1hr max	8hr max	24hravg	1hr max	8hr max	24hravg	1hr max	8hr max	24 hr avg	1hr max	8hr max	24hravg			
	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)			
avg	1.678	1.098	D.744	2.002	1.335	0.978	0.297	D.246	0.210	1.369	0.861	0.557	1.850	1.220	0.865			
max	7.700	6.138	3.721	9.500	5.163	3.667	1.060	0.961	0.599	7.688	6.389	3.379	7.502	4.155	3247			
min	D 100	0.013	D DD4	0.200	0.126	0.0.83	0.076	0.074	0.071	0.106	0 175	D 149	0 307	0.231	0.465			
	0.100	0.010	0.001	0.200	0.120	0.005	0.070	0.071	0.071	0.120	0.170		0.097	0.201	0.100			
count	3333	3333	3333	3039	3039	3039	2766	2766	2766	1133	1133	1133	3608	3608	3608			
count missing	3333 319	3333 319	3333 319	3039 613	3039	3039 61 <u>3</u>	2766 886	2766	2766	1133 2519	1133 2519	1133 2519	3608 44	3608	3608 44			
count missing 03	3333 319 Confedera	3333 319 Ne Ave.	3333 319	3039 613 S. Dekalb	3039 613 College	3039 613	2766 886 Conyers	2766	2766	1133 2519 Yorkville	1133 2519	1133 2519	3608 44 Jefferson 3	3608 44	3608 44	composite	(CA/SD/G	oavg)
count missing O3	3333 319 Confiedera AQS	3333 319 Ne Ave. AQS	3333 319 AQS	3039 613 S. Dekalb AQS	3039 613 Oollege AQS	3039 613 AQS	2766 886 Conyers AQS	2766 886 AQS	2766 886 AQS	1133 2519 Yorkville SEARCH	1133 2519 SEARCH	1133 2519 SEARCH	3608 44 Jefferson S SEARCH	3608 44 SEARCH	3608 3608 44	composite	(CA/SD/G	oavg)
count missing O3	3333 319 Confedera AQS 1hr max	3333 319 AQS 8hr max	3333 319 AQS 24hr avg	3039 613 S. Dekalb AQS 1hr max	3039 613 Oollege AQS 8hr max	3039 613 AQS 24hravg	2766 886 Conyers AQS 1hr max	2766 	2766 886 AQS 24hravg	1133 2519 Yorkville SEARCH 1hr max	1133 2519 SEARCH 8hr max	1133 2519 SEARCH 24hr avg	3608 44 Jefferson 3 SEARCH 1hr max	3608 44 SEARCH 8hr max	3608 44 SEARCH 24hravg	composite	(CA/SD/C	oavg) 24h ravg
count missing O3	3333 319 Confedera AQS 1hr max (ppb)	3333 319 Ale Ave. AQS 8hr max (ppb)	3333 319 AQS 24hr avg (ppb)	3039 613 S. Dekalb AQS 1hr max (ppb)	3039 613 College AQS 8hr max (ppb)	3039 613 AQS 24hravg (ppb)	2766 886 Conyers AQS 1hr max (ppb)	2766 	2766 	1133 2519 Yorkville SEARCH 1hr max (ppb)	1133 2519 SEARCH 8hr max (ppb)	1133 2519 SEARCH 24hr avg (ppb)	3608 44 Jefferson 3 SEARCH 1hr max (ppb)	3608 44 St SEARCH 8hr max (ppb)	3608 44 SEARCH 24hravg (ppb)	composite 1hr max (ppb)	(CA/SD/Co 8hr max {ppb)	oavg) 24hravg (ppb)
count missing O3 avg	3333 319 Confedera AQS 1hr max (ppb) 62.99	3333 319 AQS 8hr max (ppb) 53.78	3333 319 AQS 24hr avg (ppb) 30.16	3039 613 S. Dekalb AQS 1hr max (ppb) 69.22	3039 613 Oollege AQS 8hr max (ppb) 49.58	AQS 24hravg (ppb) 24.77	2766 886 Conyers AQS 1hr max (ppb) 62.70	2766 886 AQS 8hr max (ppb) 54.54	2766 	1133 2519 Yorkville SEARCH 1hr max (ppb) 57.14	1133 2519 SEARCH 8hr max (ppb) 51.60	1133 2519 SEARCH 24hr avg (ppb) 40.29	3608 44 Jefferson S SEARCH 1hr max (ppb) 53.53	3608 44 St SEARCH 8hr max (ppb) 44.29	3608 44 SEARCH 24hravg (ppb) 24.42	composite 1hr max (ppb) 64.06	(CA/SD/C 8hr max (ppb) 46.03	oavg) 24h ravg (ppb) 26.36
count missing O3 avg max	3333 319 Confiedera AQS 1hr max (ppb) 62.99 180.00	3333 319 ate Ave. AQS 8hr max (ppb) 53.78 147.60	3333 319 AQS 24hr avg (ppb) 30.16 60.71	3039 613 S. Dekalb AQS 1hr max (ppb) 69.22 174.00	3039 613 Oollege AQS 8hr max (ppb) 49.58 138.26	AQS 24hravg (ppb) 24.77 63.76	2766 886 Conyers AQS 1hr max (ppb) 62.70 166.00	2766 886 AQS 8hr max (ppb) 54.54 13325	2766 886 24hravg (ppb) 30.73 69.50	1133 2519 Yorkville SEARCH 1hr max (ppb) 67.14 159.21	1133 2519 SEARCH 8hr max (ppb) 51.60 133.06	1133 2519 SEARCH 24hr avg (ppb) 40.29 90.21	3608 44 Jefferson 3 SEARCH 1hr max (ppb) 53.53 167.19	3608 44 St SEARCH 8hr max (ppb) 44.29 130.81	3608 3608 44 SEARCH 24hravg (ppb) 24.42 72.28	composite 1hr max (ppb) 64.06 158.12	(CA/SD/G 8hr max {ppb) 46.D3 127.24	oavg) 24 hravg (ppb) 26.36 64.06
count missing O3 avg max min	3333 319 Confedera AQS 1hr max (ppb) 62.99 180.00 3.00	3333 319 AQS 8hr max (ppb) 53.78 147.60 2.88	3333 319 AQS 24hr avg (ppb) 30.16 60.71 2.29	3039 613 S. Dekalb AQS 1hr max (ppb) 69.22 174.00 3.00	3039 613 Oollege AQS 8hr max (ppb) 49.58 138.26 2.25	3039 613 AQS 24hravg (ppb) 24.77 63.76 2.08	2766 886 Convers AQS 1hr max (ppb) 62.70 166.00 9.00	2766 886 AQS 8hr max (ppb) 54.54 13325 5.36	2766 886 AQS 24hravg (ppb) 30.73 69.50 3.13	(ppb) 57.14 3.32 4.133 2519 Yorkville SEARCH 1hr max (ppb) 57.14 159.21 3.32	1133 2519 SEARCH 8hr max (ppb) 51.60 133.06 2.82	1133 2519 SEARCH 24hr avg (ppb) 40.29 90.21 1.75	3608 44 Jefferson 3 SEARCH 1hr max (ppb) 53.53 167.19 2.15	3608 44 SEARCH 8hr max (ppb) 44.29 130.61 1.25	3608 44 SEARCH 24hravg (ppb) 24.42 72.28 0.86	composite 1hr max (ppb) 64.06 158.12 3.32	(CA/SD/G 8hr max {ppb) 46.D3 127.24 2.82	cavg) 24hravg (ppb) 26.36 64.06 1.75
count missing O3 avg max min count	3333 319 Confedera AQS 1hr max (ppb) 62.99 160.00 3.00 2.396	3333 319 Ale Ave. AQS 8hr max (ppb) 53.78 147.60 2.88 2396	3333 319 AQS 24hr avg (ppb) 30.16 60.71 2.29 2396	3039 613 S. Dekalb AQS 1hr max (ppb) 69.22 174.00 3.00 2349	3039 613 College AQS 8hr max (ppb) 49.58 138.26 2.25 2349	AQS 24hravg (ppb) 24.77 63.75 2.08 2349	2766 886 Convers AOS 1hr max (ppb) 62.70 166.00 9.00 2414	2766 	2766 	1133 2519 Yorkville SEARCH 1hr max (ppb) 67.14 159.21 3.32 2926	(ppb) 51.50 51.50 51.50 133.06 2.82 2926	1133 2519 SEARCH 24hr avg (ppb) 40.29 90.21 1.75 2926	3608 44 Jefferson 3 SEARCH 1hr max (ppb) 53.53 167.19 2.15 1173	3608 44 St SEARCH 8hr max (ppb) 44.29 130.81 1.25 1173	SEARCH 24hravg (ppb) 24.42 72.28 0.86 1173	composite 1hr max (ppb) 64.06 158.12 3.32 3465	(CA/SD/C 8hr max (ppb) 46.D3 127.24 2.82 3465	cavg) 24 hravg (ppb) 26.36 64.06 1.75 3465
count missing O3 avg max min count missing	3333 319 Confedera AQS 1hr max (ppb) 62.99 160.00 3.00 2396 1256	3333 319 Ale Ave. AQS 8hr max (ppb) 53.78 147.60 2.88 2396 1256	3333 319 AQS 24hr avg (ppb) 30.16 60.71 2.29 2396 1256	3039 613 S. Dekalb AQS 1hr max (ppb) 69.22 174.00 3.00 2349 1303	3039 613 College AQS 8hr max (ppb) 49.58 138.26 2.25 2349 130.3	AQS 24hravg (ppb) 24.77 63.76 2.08 2349 1303	2766 886 Conyers AQS 1hr max (ppb) 62.70 166.00 9.00 2414 1238	2766 	2766 	1133 2519 Yorkville SEARCH 1hr max (ppb) 67.14 159.21 3.32 2926 726	(ppb) 51.50 51.50 51.50 133.06 2.82 29.26 726	1133 2519 SEARCH 24hr avg (ppb) 40.29 90.21 1.75 2926 726	3608 44 Jefferson 3 SEARCH 1hr max (ppb) 53.53 167.19 2.15 1173 2479	3608 44 St SEARCH 8hr max (ppb) 44.29 130.81 1.25 1173 2479	5.168 3608 44 SEARCH 24hravg (ppb) 24.42 72.28 0.86 1173 2479	composite 1hr max (ppb) 54.06 156.12 3.32 3465 187	(CA/SD/C 8hr max (ppb) 46.D3 127.24 2.82 3465 	cavg) 24 hravg (ppb) 26.36 64.06 1.75 3465 1.87
count missing O3 avg max min count missing PM10	3333 319 Confedera AQS 1hr max (ppb) 62.99 160.00 3.00 2396 1256 FCHD	3333 319 AQS 8hr max (ppb) 63.78 147.60 2.88 2396 1256 GT	3333 319 AQS 24hr avg (ppb) 30.16 60.71 2.29 2396 1256 GT	3039 613 S. Dekalb AQS 1hr max (ppb) 69.22 174.00 3.00 2349 1303 GT	3039 613 Oollege AQS 8hr max (ppb) 49.58 138.26 2.25 2349 1303 FCHD	24.77 63.76 23.99 24.77 63.76 2.08 2349 1303 DHC	2766 886 Conyers AQS 1hr max (ppb) 62.70 166.00 9.00 2414 1238 FS8	2766 886 AQS 8hr max (ppb) 54.54 133.25 5.38 2414 1238 Griffin	2766 886 AQS 24bravg (ppb) 30.73 69.50 3.13 2414 1238 East River	1133 2519 Yorkville SEARCH 1hr max (ppb) 67.14 159.21 3.32 2926 726 Douglasvil	1133 2519 SEARCH 8hr max (ppb) 61.60 133.06 2.82 2926 726 Yorkville	1133 2519 SEARCH 24hr avg (ppb) 40.29 90.21 1.75 2926 726 726	3608 44 Jefferson S SEARCH 1hr max (ppb) 53.53 167.19 2.15 1173 2479 FCHD/GT	3608 44 St SEARCH 8hrmax (ppb) 44.29 130.81 1.25 1173 2479	5168 3608 44 SEARCH 24hravg (ppb) 24.42 72.28 0.86 1173 2479	composite 1hr max (ppb) 54.06 158.12 3.32 3465 187	(CA/SD/G 8hr max {ppb) 46.D3 127.24 2.82 3465 187	cavg) 24 hravg (ppb) 26.36 64.06 1.75 3465 187
count missing O3 max min count missing PM10 mass	3333 319 Confiedera AQS 1hr max (ppb) 62.99 160.00 3.00 2.396 1256 FCHD MAI-DNR	3333 319 AQS 8hr max (ppb) 53.78 147.60 2.88 2396 1266 GT MAI-DNR	3333 319 AQS 24hr avg (ppb) 30.16 60.71 2.29 2396 1256 GT AMP-DNR	3039 613 S. Dekalb AQS 1hr max (ppb) 69.22 174.00 3.00 2349 1303 GT AQS	3039 613 Oollege AQS 8hr max (ppb) 49.58 138.26 2.25 2349 1303 FCHD AQS	24.77 63.76 2.08 2349 24.77 63.76 2.08 2349 1303 DHC AQS	2766 886 Conyers AQS 1hr max (ppb) 62.70 166.00 9.00 2414 1238 FS8 AQS	2766 886 AQS 8hr max (ppb) 54.54 133.25 5.36 2414 1238 Griffin AQS	2766 2766 886 24hravg (ppb) 30.73 69.50 3.13 2414 1238 East River AQS	1133 2519 Yorkville SEARCH 1hr max (ppb) 67.14 159.21 3.32 2926 726 Douglasvil AQS	1133 2519 SEARCH 8hr max (ppb) 61.60 133.06 2.82 2926 726 726 Yorkville SEARCH	1133 2519 SEARCH 24hr avg (ppb) 40.29 90.21 1.75 2926 726 726 726 SEARCH	3608 44 Jefferson 3 SEARCH 1hr max (ppb) 53.53 167.19 2.15 1173 2479 FCHD/GT composite	3608 44 St SEARCH 8hr max (ppb) 44.29 130.81 1.25 1173 2479	5.168 3608 44 SEARCH 24hravg (ppb) 24.42 72.28 0.86 1173 2479	composite 1hr max (ppb) 54.06 158.12 3.32 3465 187	(CA/SD/G 8hr max (ppb) 46.D3 127.24 2.82 3465 187	cravg) 24hravg (ppb) 26.36 64.06 1.75 3465 187
count missing O3 max min count missing PM10 mass	3333 319 Confiedera AQS 1hr max (ppb) 62.99 160.00 3.00 2.396 1256 FCHD MAI-DNR 24hr avg	3333 319 Ac Ave. AQS 8hr max (ppb) 53.78 147.60 2.88 2396 1256 GT MAI-DNR 24hr avg	3333 319 AQS 24hr avg (ppb) 30.16 60.71 2.29 2396 1256 GT AMP-DNR 24hr avg (m fo 2)	3039 613 S. Dekalb AQS 1hr max (ppb) 69.22 174.00 3.00 2349 1303 GT AQS 24hr avg	3039 613 Oollege AQS 8hr max (ppb) 49.58 138.26 2.349 1303 FCHD AQS 24hr avg (und Q)	3039 613 AQS 24hravg (ppb) 24.77 63.76 2.08 2349 1303 DHC AQS 24hravg (unfer 2)	2766 886 Convers AQS 1hr max (ppb) 62.70 166.00 9.00 2414 1238 FS8 AQS 24hr avg	2766 2766 886 8hr max (ppb) 54.54 133.25 5.36 2414 1238 Griffin AQS 24hravg	2766 	1133 2519 Yorkville SEARCH 1hr max (ppb) 67.14 159.21 3.32 2926 726 726 Douglasvil AQS 24hr avg	1133 2519 SEARCH 8hr max (ppb) 51.60 133.06 2.82 2926 726 Yorkville SEARCH 24hr avg	1133 2519 SEARCH 24hr avg (ppb) 40.29 90.21 1.75 2926 726 726 SEARCH 24hr avg	3608 44 Jefferson 3 SEARCH 1hr max (ppb) 53.53 167.19 2.15 1173 2479 FCHD/GT composite 24hravg	3608 44 SEARCH 8hrmax (ppb) 44.29 130.81 1.25 1173 2479	3608 44 SEARCH 24hravg (ppb) 24.42 72.28 0.86 1173 2479	composite 1hr max (ppb) 64.06 158.12 3.32 3465 187	(CA/SD/C 8hr max (ppb) 46.D3 127.24 2.82 3465 	cravg) 24hravg (ppb) 26.36 64.06 1.75 3465 187
count missing O3 avg max min count missing PM10 mass	3333 319 Confedera AQS 1hr max (ppb) 62.99 180.00 3.00 2.396 1256 FCHD MAI-DNR 24hr avg (ug/m3)	3333 319 AQS 8hr max (ppb) 53.78 147.60 2.88 2396 1266 GT MAI-DNR 24hr avg (ug/m3)	3333 319 AQS 24hr avg (ppb) 30.16 60.71 2.29 2396 1256 GT AMP-DNR 24hr avg (ug/m3)	3039 613 S. Dekalb AQS 1hr max (ppb) 69.22 174.00 3.00 2349 1303 GT AQS 24hr avg (ug/m3)	30399 613 College AQS 8hr max (ppb) 49.58 138.26 2.25 2349 1303 FCHD AQS 24hr avg (ug/m3)	3039 613 AQS 24hravg (ppb) 24.77 63.75 2.06 2349 1303 DHC AQS 24hravg (ug/m3)	2766 886 Convers AQS 1hr max (ppb) 62.70 166.00 9.00 2414 1238 FS8 AQS 24hr avg (ug/m3)	2066 2066 2066 206 206 206 207 207 207 207 207 207 207 207 207 207	2766 2866 2405 24hravg (ppb) 30.73 69.50 3.13 2414 1238 East River AOS 24hravg (ug/m3)	1133 2519 Yorkville SEARCH 1hr max (ppb) 57.14 159.21 3.32 2926 726 Douglasvil AQS 24hr avg (ug/m3)	1133 2519 SEARCH 8hr max (ppb) 51.6D 133.06 2.62 29262 29262 29262 726 Yorkville SEARCH 24hr avg (ug/m3)	1133 2519 SEARCH 24hr avg (ppb) 40.29 90.21 1.75 2926 726 726 726 726 726 726 726 726 726 7	3608 44 Jefferson 3 SEARCH 1hr max (ppb) 53.53 167.19 2.15 1173 2479 FCHD/GT FCHD/GT Composite 24hr avg (ug/m3)	3608 44 SEARCH 8brmax (ppb) 44.29 130.81 1.25 1173 2479	3606 44 SEARCH 24hravg (ppb) 24.42 72.28 0.066 1173 2479	composite 1hr max (ppb) 54.06 158.12 3.32 3465 187	(CA/SD/Co 8hr max {ppb) 46.D3 127.24 2.82 3.465 	coavg) 24 hravg (ppb) 26.36 64.06 1.75 3466 187
count missing O3 avg max min count missing PM10 mass avg	3333 319 Confedera AQS 1hr max (ppb) 6299 180.00 3.00 3.00 2396 1266 FCHD MAI-DNR 24hr avg 24hr avg 3.0.83 3.0.83	3333 319 AQS AQS ADS 61r max (ppb) 63.78 147.60 2.88 2396 1256 GT MAI-DNR 24hr avg (ug/m3) 29.46 70 00	3333 319 AQS 24hr avg (ppb) 30.16 60.71 2.299 2396 1256 GT 24hr avg (ug/m3) 26.18 26.18	3039 613 S. Dekalb AQS 1hr max (ppb) 69.22 174.00 3.00 2349 1303 GT AQS 24hr avg (ug/m3) 26.03	30399 613 Oollege AQS 6hr max (ppb) 49.58 138.26 2.245 2.249 1303 FCHD AQS 24hr avg (ug/m3) 29.83	3039 613 AQS 24hravg (ppb) 24.77 63.76 2.06 2.04 2.349 1303 DHC 2.449 1303 24.81 24.81 24.81	2766 886 Convers AQS (ppb) 62.70 166.00 9.00 2414 1238 FS8 AQS 24hravg (ug/m3) 32.02	2066 	2766 <u>886</u> 24hravg (ppb) 30.73 69.50 3.13 24hr 1238 East River AQS 24hravg (ug/m3) 19.50 19.50	1133 2519 Yofkville SEARCH 1hr max (ppb) 57.14 159.21 3.32 2926 726 Douglasvil AQS 24hr avg (ug/m3) 24.63	1133 2519 SEARCH 8hr max (ppb) 51.50 133.06 2.802 2928 726 Yorkville SEARCH 24hr aug 24hr aug 24hr aug 24hr aug	1133 2519 SEAROH 24hr avg (ppb) 40.29 90.21 1.75 2926 726 726 726 726 24hr avg (ug/m3) 27.77 27.77	3606 3606 44 Jafferson 3 SEARCH 1hr max (ppb) 53.53 167.19 2.15 1173 2479 FCHD/GT composite 24hraug 221.17 27.17	3008 44 St SEARCH 8hr max (ppb) 44.29 130.81 1.25 1173 2479	3606 44 SEARCH 24hrawg (ppb) 24.42 72.28 0.86 1173 2479	composite 1hr max (ppb) 54.06 168.12 3.465 3465 187	(CA/SD/Ca 8hr max (ppb) 46.D3 127.24 2.82 3465 187	cavg) 24hravg (ppb) 26.36 64.06 1.75 3465 187
count missing O3 avg max min count missing PM10 mass avg max min	3333 319 Confedera AQS 1hr max (ppb) 62.99 180.00 3.00 3.00 2.306 1256 FCHD M&I-DNR 24hr avg (ug/m3) 30.83 105.00	3333 319 319 Ave. AQS 8hr max (ppb) 63.78 147.60 2.88 2396 1256 GT MAI-DNR 24hr avg (ug/m3) 29.46 70.00 7.00	3333 319 AQS 24hr avg (ppb) 30.16 60.71 2.29 2396 1256 GT AMP-DNR 24hr avg (ug/m3) 26.18 77.00 20.10	3039 613 S. Dekalb AQS 1hr max (ppb) 69.22 174.00 3.00 2349 1303 GT AQS 24hr avg (ug/m3) 26.03 98.38	3039 613 College AQS 8hr max (ppb) 49.58 138.26 2.25 2.349 130.3 FCHD AQS 24hr avg (ug/ma) 29.83 151.00	3039 613 AGS 24hravg (ppb) 24.77 63.76 2.06 224p 1303 DHC AQS 24hravg (ug/m3) 24.81 74.00 24.81	2766 886 Convers AQS (ppb) 62.70 166.00 9.00 2414 1238 FS8 AQS 24hravg (ug/m3) 32.02 60.00	2066 	2766 266 266 240 240 240 240 240 240 240 240 240 240	1133 2519 Yorkville SEARCH Ihr max (ppb) 6714 159.21 3.32 2926 726 726 726 726 726 726 726 726 726 7	1133 2519 SEARCH 8hr max (ppb) 61150 133.06 2.82 29282 726 726 726 726 726 727 70fwille SEARCH 24hr avg (ug/m3) 21.21 61.53	1133 2519 SEARCH 24hr avg (ppb) 40.29 90.21 1.75 2926 726 SEARCH 24hr avg (ug/ma) 27.77 100.14	3608 3608 44 Jafferson 3 SEARCH 1hr max (ppb) 53.63 167.19 2.15 1173 2479 FCHD/GT composite 24hr avg (ug/m3) 27.17 105.00	3606 44 St SEARCH 8hrmax (ppb) 44.29 130.61 1.25 1173 2479	3608 44 SEARCH 24hrawg (ppb) 24.42 72.28 0.86 1173 2479	composite 1hr max (ppb) 54.06 168.12 3.32 3465 187	(CA/SD/C 8hr max (ppb) 46.03 127.24 2.82 3465 187	cavg) 24 hravg (ppb) 26.36 64.06 64.06 1.75 3465 187
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Selected Meteorological Data, 1993-2002



(a) Maximum and minimum daily temperatures, by month

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(b) Daily average precipitation, by month



8



(c) Average wind speed, by month

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(d) Average wind vector direction, by month



SO₂ Data Summary, 1993-2002



(a) Average daily one-hour maximum SO₂ concentration, by year

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(b) Average daily one-hour maximum SO₂ concentration, by month







(c) Average daily one-hour maximum SO₂ concentration, by day-of-week

(d) Average diurnal SO₂ concentration, by year



CO Data Summary, 1993-2002



(a) Average daily one-hour maximum CO concentration, by year

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CO Data Summary, 1993-2002



(c) Average daily one-hour maximum CO concentration, by day-of-week



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NO₂ Data Summary, 1993-2002



(a) Average daily one-hour maximum NO₂ concentration, by year

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(b) Average daily one-hour maximum NO₂ concentration, by month



NO₂ Data Summary, 1993-2002



(c) Average daily one-hour maximum NO₂ concentration, by day-of-week

(d) Average diurnal NO₂ concentration, by year

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(b) Average daily one-hour maximum NO_x concentration, by month



NO_x Data Summary, 1993-2002



(c) Average daily one-hour maximum NO_x concentration, by day-of-week

(d) Average diurnal NO_x concentration, by year



O₃ Data Summary, 1993-2002





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(b) Average daily eight-hour maximum O₃ concentration, by month







(c) Average daily eight-hour maximum O₃ concentration, by day-of-week

(d) Average diurnal O₃ concentration, by year









(b) Average daily PM₁₀ concentration, by month



PM Data Summary, 1993-2002



(c) Average daily PM_{10} concentration, by day-of-week

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(e) Average daily PM_{2.5} concentration, by year

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(f) Average daily PM_{2.5} concentration, by month



PM Data Summary, 1993-2002



(g) Average daily $PM_{2.5}$ concentration, by day-of-week

6

16

(h) Average diurnal PM_{2.5} concentration, by year



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