

**From:** Billy Pugh [Billy.Pugh@state.tn.us]  
**Sent:** Monday, October 24, 2005 3:58 PM  
**To:** Jay.Rose@tetrattech.com  
**Subject:** Jay,

Jay,

Enclosed is a PDF file with Anderson Co and Knox Co data. The 2004 data has been certified and will be used by the EPA to establish regulatory actions, if any. The 2005 data is not yet certified and is to be considered preliminary and incomplete. However, it is still fairly accurate for 2005 and should represent the actual data through, roughly, June of 2005. We do not have a site for keeping up with the recent maximum values per say, but we have a site that updates the Air Quality Index (AQI) which takes into account which pollutant is causing the major concern and that is located here:

<http://www.state.tn.us/environment/apc/ozone/>

This will get you to a 'home page' setting where you can learn about the AQI and what goes into the actual value each day. Also we produce an AQI forecast for the current day. I hope this helps but if you need more, contact me at the e-mail address I am using today.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
QUICK LOOK REPORT (AMP450)

Oct. 24, 2005

EXCEPTIONAL DATA TYPES

EDT	DESCRIPTION
0	NO EVENTS
1	EVENTS EXCLUDED
2	EVENTS INCLUDED
3	EXCEPTIONAL EVENTS EXCLUDED
4	NATURAL EVENTS EXCLUDED
5	EVENTS WITH CONCURRENCE EXCLUDED
6	EXCEPTIONAL EVENTS WITH CONCURRENCE EXCLUDED
7	NATURAL EVENTS WITH CONCURRENCE EXCLUDED

Note: The \* indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 QUICK LOOK REPORT (AMP450)

Oct. 24, 2005

Ozone (44201)

Tennessee

PPM (007)

1-HOUR

SITE ID	P O C	REP ORG	CITY	COUNTY	ADDRESS	YEAR	METH	VALID DAYS	NUM DAYS	REQ	1ST	2ND	3RD	4TH	DAY	EST	MISS	CERT	EDT
											MAX 1-HR	MAX 1-HR	MAX 1-HR	MAX 1-HR	MAX>/= 0.125	DAYS>/= .125	DAYS< 0.125		
47-001-0101	1	1025	Not in a city	Anderson	FREELS BEND_STUI	2004	087	242	245		.094	.091	.089	.083	0	0.0	3	0	
47-001-0101	1	1025	Not in a city	Anderson	FREELS BEND_STUI	2005	087	119	245		.103	.099	.091	.088	0	0.0	0	0	
47-093-0021	1	0581	Not in a city	Knox	9315 RUTLEDGE P:	2004	047	245	245		.115	.092	.091	.089	0	0.0	0	0	
47-093-0021	1	0581	Not in a city	Knox	9315 RUTLEDGE P:	2005	047	182	245		.107	.103	.094	.094	0	0.0	0	0	
47-093-1020	1	0581	Knoxville	Knox	4625 MILDRED DR:	2004	047	237	245		.114	.090	.090	.089	0	0.0	0	0	
47-093-1020	1	0581	Knoxville	Knox	4625 MILDRED DR:	2005	047	184	245		.102	.100	.099	.096	0	0.0	0	0	

Note: The \* indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 QUICK LOOK REPORT (AMP450)

Oct. 24, 2005

Ozone (44201)

Tennessee

PPM (007)

8-HOUR

SITE ID	P O C	REP ORG	CITY	COUNTY	ADDRESS	YEAR	METH	%OBS	VALID DAYS MEAS	NUM DAYS REQ	1ST	2ND	3RD	4TH	DAY	CERT	EDT
											MAX 8-HR	MAX 8-HR	MAX 8-HR	MAX 8-HR	MAX>/= 0.085		
47-001-0101	1	1025	Not in a city	Anderson	FREELS BEND_STUI	2004	087	97	238	245	.078	.076	.072	.069	0	0	
47-001-0101	1	1025	Not in a city	Anderson	FREELS BEND_STUI	2005	087	48	117	245	.090	.090	.081	.078	2	0	
47-093-0021	1	0581	Not in a city	Knox	9315 RUTLEDGE P.	2004	047	100	245	245	.089	.078	.072	.072	1	0	
47-093-0021	1	0581	Not in a city	Knox	9315 RUTLEDGE P.	2005	047	74	181	245	.092	.082	.081	.081	1	0	
47-093-1020	1	0581	Knoxville	Knox	4625 MILDRED DR.	2004	047	96	236	245	.096	.082	.080	.078	1	0	
47-093-1020	1	0581	Knoxville	Knox	4625 MILDRED DR.	2005	047	75	183	245	.091	.088	.086	.084	3	0	

Note: The \* indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 QUICK LOOK REPORT (AMP450)

Oct. 24, 2005

PM10 Total 0-10um STP (81102)

Tennessee

UG/CU METER (25 C) (001)

24-HOUR

SITE ID	P O C	REP ORG	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	NUM REQ	VALID DAYS	%OBS	1ST	2ND	3RD	DAY MAX		EST DAYS	WTD ARITH	
												MAX	MAX	MAX	MAX	>150	>150	MEAN	CERT EDT
47-093-0022	1	0581	Knoxville	Knox	800 TOWNVIEW	2004	064	53	61	53	87	42	40	39	37	0	0	21.7*	0
47-093-0022	1	0581	Knoxville	Knox	800 TOWNVIEW	2005	064	25	30	25	83	29	28	27	27	0	0	20.5*	0
47-093-1013	1	0581	Knoxville	Knox	1403 DAVANNA	2004	064	216	0	0		76	63	52	50	0	0	23.9*	0
47-093-1013	1	0581	Knoxville	Knox	1403 DAVANNA	2005	064	91	0	0		77	76	68	55	0	0	24.0*	0
47-093-1017	1	0581	Knoxville	Knox	1919 VERMONT	2004	064	56	61	56	92	41	41	40	35	0	0	22.8	0
47-093-1017	1	0581	Knoxville	Knox	1919 VERMONT	2005	064	28	30	28	93	34	28	27	25	0	0	19.6*	0
47-093-1017	2	0581	Knoxville	Knox	1919 VERMONT	2004	064	56	61	56	92	42	42	36	35	0	0	22.6	0
47-093-1017	2	0581	Knoxville	Knox	1919 VERMONT	2005	064	29	30	29	97	35	28	27	25	0	0	20.0*	0

Note: The \* indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
 AIR QUALITY SYSTEM  
 QUICK LOOK REPORT (AMP450)

Oct. 24, 2005

PM2.5 - Local Conditions (88101)

Tennessee

UG/CU Meter (LC) (105)

24-HOUR

SITE ID	P O C	REP ORG	CITY	COUNTY	ADDRESS	YEAR	METH	#OBS	1ST MAX	2ND MAX	3RD MAX	4TH MAX	98TH	WTD	CERT	EDT
													PERCENTILE VALUE	ARITH MEAN		
47-093-0028	1	0581	Knoxville	Knox	1000 FRANCIS	2004	120	107	32.8	29.5	28.6	28.1	28.6	13.87	0	
47-093-0028	1	0581	Knoxville	Knox	1000 FRANCIS	2005	120	51	34.3	33.0	31.7	30.6	33.0	16.74*	0	
47-093-1013	1	0581	Knoxville	Knox	1403 DAVANNA	2004	120	8	18.8	15.2	12.5	12.0	18.8	11.75*	0	
47-093-1013	3	0581	Knoxville	Knox	1403 DAVANNA	2004	702	8487	40.8	37.1	36.4	35.9	35.0	16.29	0	
47-093-1013	3	0581	Knoxville	Knox	1403 DAVANNA	2005	702	5339	42.2	41.8	41.4	40.6	40.1	18.24*	0	
47-093-1017	1	0581	Knoxville	Knox	1919 VERMONT	2004	120	347	33.2	32.9	32.4	32.3	31.9	15.13	0	
47-093-1017	1	0581	Knoxville	Knox	1919 VERMONT	2005	120	158	32.0	31.5	31.5	31.5	31.5	16.44*	0	
47-093-1017	2	0581	Knoxville	Knox	1919 VERMONT	2004	120	56	28.9	26.1	25.7	23.3	26.1	14.52	0	
47-093-1017	2	0581	Knoxville	Knox	1919 VERMONT	2005	120	33	32.7	25.5	25.0	24.4	32.7	17.39*	0	
47-093-1020	1	0581	Knoxville	Knox	4625 MILDRED	2004	120	317	40.3	35.5	33.0	32.4	30.8	14.92	0	
47-093-1020	1	0581	Knoxville	Knox	4625 MILDRED	2005	120	200	39.3	38.2	35.1	34.6	34.6	15.97*	0	
47-093-1020	5	1217	Knoxville	Knox	4625 MILDRED	2004	820	37	24.1	23.7	23.6	22.5	24.1	13.67*	0	
47-093-1020	5	1217	Knoxville	Knox	4625 MILDRED	2005	820	32	25.3	24.5	23.2	21.9	25.3	16.48*	0	

Note: The \* indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
QUICK LOOK REPORT (AMP450)

Oct. 24, 2005

METHODS USED IN THIS REPORT

PARAMETER	METHOD CODE	COLLECTION METHOD	ANALYSIS METHOD
44201	047	INSTRUMENTAL	ULTRA VIOLET
44201	087	INSTRUMENTAL	ULTRA VIOLET ABSORPTION
81102	064	HI-VOL-SA/GMW-321-B	GRAVIMETRIC
88101	120	ANDERSON RAAS2.5-300 PM2.5 SEQ	GRAVIMETRIC
88101	702	PM2.5 SCC w/Correction Factor	TEOM Gravimetric 50 deg C
88101	820	Andersen RAAS Teflon	Gravimetric

Note: The \* indicates that the mean does not satisfy summary criteria.

UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
AIR QUALITY SYSTEM  
QUICK LOOK REPORT (AMP450)

Oct. 24, 2005

REPORTING ORGANIZATIONS USED IN THIS REPORT

REPORTING ORGANIZATION CODE	AGENCY DESCRIPTION
0581	Knox County Department Of Air Pollution Control
1025	Tennessee Division Of Air Pollution Control
1217	Research Triangle Institute RTP, NC

Note: The \* indicates that the mean does not satisfy summary criteria.