

## **APPENDIX A - Data Tables**

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Appendix A: Table A1

Total Suspended Particulate Matter  
(Units: micrograms per cubic meter)

Year: 2004

Site Name	PA Site Code	Geometric Annual Mean	Geometric Standard Deviation	Arithmetic Annual Mean	Number 24HR Samples	1st 24HR Mean	Daily Averages		Date MM/DD	Minimum 24 Hour Mean
							2nd 24HR Mean	Date MM/DD		
<b><i>Southeast Pennsylvania Air Basin</i></b>										
Chester	P11	34	1.75	37	61	104	07/26	65	02/21	0
<b><i>Northeast Region Non-Air Basin</i></b>										
Palmerton	205	25	1.75	28	58	62	07/20	57	05/15	6
<b><i>Reading Air Basin</i></b>										
Laureldale	R10	34	1.57	37	60	78	11/17	77	11/11	11
<b><i>Southcentral Region Non-Air Basin</i></b>										
Lyons	301	25	2.13	31	57	64	05/09	63	06/08	0
Lyons	375	21	1.62	23	57	60	05/15	48	06/26	6
<b><i>Johnstown Air Basin</i></b>										
East Conemaugh	J08	26	1.65	30	60	69	07/02	66	10/06	7
<b><i>Monogahela Valley Air Basin</i></b>										
Monessen	M16	37	1.55	41	60	97	07/02	69	02/27	8
<b><i>Lower Beaver Valley Air Basin</i></b>										
Vanport	B05	8	4.82	22	55	74	08/01	70	06/08	0

No Long- or Short-Term Air Quality Standard

? indicates that the annual mean does not meet the summary criteria for completeness

Appendix A: Table A-2

Total Suspended Particulate Matter Historical Trend  
Annual Geometric Means  
(Units: micrograms per cubic meter)

Site Name	PA Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
<b><i>Southeast Pennsylvania Air Basin</i></b>											
Chester	P11	43	43	55	40	35	39	36	33	35	34
<b><i>Northeast Region Non-Air Basin</i></b>											
Palmerton	205	29	32	31	29	27	28	27	28	30	25
<b><i>Reading Air Basin</i></b>											
Laureldale	R10	50	51	53	51	44	44	39	40	39	34
<b><i>Southcentral Region Non-Air Basin</i></b>											
Lyons	301	36	34	32	30	***	39	30	28	42	25
Lyons	375	***	***	***	***	***	***	***	26	23	21
<b><i>Johnstown Air Basin</i></b>											
East Conemaugh	J08	***	37	40	41	42	42	30	28	30	26
<b><i>Monongahela Valley Air Basin</i></b>											
Monessen	M16	***	***	44	44	44	42	46	39	38	37
<b><i>Lower Beaver Valley Air Basin</i></b>											
Vanport	B05	***	35	35	33	34	35	30	17?	9	8

No Long- or Short-Term Air Quality Standard

? indicates that the annual mean does not meet the summary criteria for completeness

\*\*\* indicates less than 30 samples collected during year

Appendix A: Table A-3

Sulfate Suspended Particulate Matter Summary  
(Units: micrograms per cubic meter)

Year: 2004

Site Name	PA Site Code	Annual Mean	Number 24 HR Samples	Number 30 Day > 10	1st Max 30 Day Mean	1st Max 30 Day MM	2nd Max 30 Day Mean	2nd Max 30 Day MM	Number 24 HR > 30	1st Max 24 Hour Mean	1st Max 24 Hour MM/DD	2nd Max 24 Hour Mean	2nd Max 24 Hour MM/DD
<b><i>Northeast Region Non-Air Basin</i></b>													
Palmerton	205	8.9	59	4	11.6	6	11.5	7	0	20.2	06/08	16.6	07/20
<b><i>Reading Air Basin</i></b>													
Laureldale	R10	9.2	58	4	14.6	5	11.4	7	0	20.7	06/08	18.9	05/09
<b><i>Johnstown Air Basin</i></b>													
East Conemaugh	J08	10.5	61	5	15.9	7	12.8	5	1	30.6	07/02	20.5	06/08
<b><i>Monongahela Valley Air Basin</i></b>													
Monessen	M16	11.8	58	10	14.4	7	13.7	6	1	30.8	07/02	27.8	06/08

No Long- or Short-Term Air Quality Standard

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Appendix A: Table A-4

Nitrate Suspended Particulate Matter Summary  
(Units: micrograms per cubic meter)

Year: 2004

Site Name	PA Site Code	Annual Mean	Number 24HR Samples	1st Max 24 Hour Mean	MM/DD	2nd Max 24 Hour Mean	MM/DD	3rd Max 24 Hour Mean	MM/DD	Minimum 24 Hour Mean
<b><i>Northeast Region Non-Air Basin</i></b>										
Palmerton	205	3.35	59	7.3	06/14	6.8	05/27	6.8	02/09	0.56
<b><i>Reading Air Basin</i></b>										
Laureldale	R10	4.13	58	9.8	03/04	9.6	05/21	8.9	04/09	0.87
<b><i>Johnstown Air Basin</i></b>										
East Conemaugh	J08	2.37	61	5.0	02/03	4.8	12/29	4.6	04/09	0.62
<b><i>Monongahela Valley Air Basin</i></b>										
Monessen	M16	3.04	58	5.9	12/17	5.9	04/09	5.8	12/05	1.20

No Long- or Short-Term Air Quality Standard

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Appendix A: Table A-5

Lead Suspended Particulate Matter Summary  
(Units: micrograms per cubic meter)

Year: 2004

Site Name	PA Site Code	1st Quarter Mean	2nd Quarter Mean	3rd Quarter Mean	4th Quarter Mean	1st Quarter	2nd Quarter	3rd Quarter	4th Quarter
<b>Southeast Pennsylvania Air Basin</b>									
Chester	P11	0.03	0.04	0.04	0.04	15	15	16	15
<b>Northeast Region Non-Air Basin</b>									
Palmerton	205	0.12	0.05	0.07	0.05	14	15	15	15
<b>Reading Air Basin</b>									
Laureldale	R10	0.40	0.18	0.13	0.24	15	14	14	15
<b>Southcentral Region Non-Air Basin</b>									
Lyons	301	0.18	0.15	0.13	0.13	15	12	15	15
Lyons	375	0.09	0.07	0.05	0.08	15	14	15	15
<b>Johnstown Air Basin</b>									
East Conemaugh	J08	0.03	0.04	0.04	0.05	15	15	16	15
<b>Monongahela Valley Air Basin</b>									
Monessen	M16	0.04	0.03	0.03	0.04	14	15	15	14
<b>Lower Beaver Valley Air Basin</b>									
Vanport	B05	0.03	0.07	0.09	0.04	13	15	12	15

Primary Quarterly National Ambient Air Quality Standard of 1.5 micrograms per cubic meter

Appendix A: Table A-6

Lead Suspended Particulate Matter Historical Trend  
Maximum Quarterly Means  
(Units: micrograms per cubic meter)

Site Name	PA Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
<b><i>Southeast Pennsylvania Air Basin</i></b>											
Chester	P11	0.05	0.04	0.05	0.04	0.05	0.04	0.04	0.04	0.04	0.04
<b><i>Northeast Region Non-Air Basin</i></b>											
Palmerton	205	0.07	0.08	0.09	0.11	0.07	0.11	0.07	0.09	0.10	0.12
<b><i>Reading Air Basin</i></b>											
Laureldale	R10	0.29	0.27	0.30	0.31	0.29	0.33	0.27	0.22	0.39	0.40
<b><i>Southcentral Region Non-Air Basin</i></b>											
Lyons	301	0.17	0.17	0.29	0.22	***	0.22	0.23	0.16	0.12	0.18
Lyons	375	***	***	***	***	***	***	***	0.09	0.08	0.09
<b><i>Johnstown Air Basin</i></b>											
East Conemaugh	J08	***	0.04	0.04	0.04	0.09	0.05	0.04	0.03	0.04	0.05
<b><i>Monongahela Valley Air Basin</i></b>											
Monessen	M16	***	0.05	0.05	0.04	0.04	0.04	0.04	0.03	0.04	0.04
<b><i>Lower Beaver Valley Air Basin</i></b>											
Vanport	B05	0.15	0.06	0.08	0.06	0.08	0.07	0.06	0.11	0.09	0.09

Primary Quarterly National Ambient Air Quality Standard of 1.5 micrograms per cubic meter

\*\*\* indicates less than 30 samples collected during year

Appendix A: Table A-7

PM-10 Suspended Particulate Matter Summary  
(Units: micrograms per cubic meter / standard conditions)

Year: 2004

Site Name	PA Site Code	Arithmetic Annual Mean	Number 24HR Means	Maximum 24 Hour Means								
				24HR Mean	1st Date MM/DD	2nd Date MM/DD	3rd Date MM/DD	4th Date MM/DD	99th Percentile 24HR	Minimum 24 Hour Mean		
<b>Southeast Pennsylvania Air Basin</b>												
Bristol (TEOM)	P01	18	349	60	07/22	59	05/12	52	49	49	4	
Chester (TEOM)	P11	23	356	64	07/22	63	06/05	57	53	53	5	
Norristown (TEOM)	P21	17	353	55	05/12	52	06/09	48	43	43	4	
<b>Allentown-Bethlehem-Easton Air Basin</b>												
Allentown (TEOM)	A19	15	355	48	07/22	45	12/22	40	38	38	2	
Freemansburg (TEOM)	A25	19	360	66	07/22	59	05/12	56	55	55	4	
<b>Scranton-Wilkes-Barre Air Basin</b>												
Scranton (TEOM)	S01	16	364	55	07/22	43	06/09	43	42	42	2	
Wilkes-Barre (TEOM)	S28	17	365	54	07/22	50	12/22	46	45	45	0	
<b>Northeast Region Non-Air Basin</b>												
Nazareth (TEOM)	A26	32	348	143	07/21	115	11/17	108	101	101	4	
<b>Reading Air Basin</b>												
Reading (TEOM)	R01	20	365	60	07/22	52	05/12	51	47	47	5	
Reading	R15	20	60	46	11/17	45	06/08	41	38	46	2	
<b>Harrisburg Air Basin</b>												
Harrisburg (TEOM)	H11	21	365	69	10/07	61	07/22	52	51	51	3	
<b>Lancaster Air Basin</b>												
Lancaster (TEOM)	L01	20	365	55	05/11	54	02/02	51	49	49	3	
<b>York Air Basin</b>												
York (TEOM)	Y01	22	361	59	05/11	53	05/12	52	52	52	4	
<b>Southcentral Non-Air Basin</b>												
Altoona (TEOM)	308	20	365	110	04/19	63	06/09	61	58	58	4	
<b>Northcentral Region Non-Air Basin</b>												
Montoursville	410	18?	51	42	07/20	41	06/08	37	37	42	4	
<b>Johnstown Air Basin</b>												
Johnstown (TEOM)	J01	22	365	64	07/02	61	06/09	60	57	57	4	

Primary and Secondary National Ambient Air Quality Standards  
Annual Mean = 50 micrograms per cubic meter  
24 Hour Mean (3-year average of 99th Percentile) = 150 micrograms per cubic meter

? indicates that the annual mean does not meet the summary criteria for completeness

Appendix A: Table A-7

PM-10 Suspended Particulate Matter Summary  
(Units: micrograms per cubic meter / standard conditions)

Year: 2004

Site Name	PA Site Code	Arithmetic Annual Mean	Number 24HR Means	Maximum 24 Hour Means								
				24HR Mean	1st Date MM/DD	2nd 24HR Mean	2nd Date MM/DD	3rd 24HR Mean	4th 24HR Mean	99th Percentile 24HR	Minimum 24 Hour Mean	
<b>Monongahela Valley Air Basin</b>												
Charleroi (TEOM)	M01	20	359	68	07/02	64	07/03	52	50	50	5	
Monessen	M16	25	58	77	07/02	60	08/31	50	42	77	7	
<b>Lower Beaver Valley Air Basin</b>												
Beaver Falls (TEOM)	B11	23	363	67	07/02	64	06/08	64	59	59	2	
<b>Southwest Region Non-Air Basin</b>												
Florence	504	16	59	49	07/02	46	06/08	38	38	49	2	
Greensburg (TEOM)	513	20?	320	52	08/17	50	08/03	48	48	48	3	
<b>Upper Beaver Valley Air Basin</b>												
New Castle (TEOM)	B21	26	359	65	06/08	65	07/21	65	62	62	3	
<b>Erie Air Basin</b>												
Erie (TEOM)	E10	14?	278	49	07/21	48	08/25	48	39	48	2	

Primary and Secondary National Ambient Air Quality Standards  
Annual Mean = 50 micrograms per cubic meter  
24 Hour Mean (3-year average of 99th Percentile) = 150 micrograms per cubic meter

? indicates that the annual mean does not meet the summary criteria for completeness

Appendix A: Table A-8

PM-10 Suspended Particulate Matter Historical Trend  
(Units: micrograms per cubic meter / standard conditions)

Site Name / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b>Southeast Pennsylvania Air Basin</b>											
Bristol (TEOM)	21?	21	20	23	17	18	21	18	19	18	Annual Mean
P01	58	55	59	57	51	53	57	56	56	49	99th Percentile 24HR Mean
Chester (TEOM)	25	24	24	25	21	22	23	20	21	23	Annual Mean
P11	68	65	60	63	55	62	60	60	54	53	99th Percentile 24HR Mean
Norristown (TEOM)	***	22?	21	21	18	19	20	16	19	17	Annual Mean
P21	***	54	66	56	49	49	56	49	50	43	99th Percentile 24HR Mean
<b>Allentown-Bethlehem-Easton Air Basin</b>											
Allentown (TEOM)	***	21?	19	17	11	29	21	18	18	15	Annual Mean
A19	***	52	55	46	36	94	64	54	45	38	99th Percentile 24HR Mean
Freemansburg (TEOM)	***	***	***	26?	38	35	20	20	19	19	Annual Mean
A25	***	***	***	65	97	98	60	60	55	55	99th Percentile 24HR Mean
<b>Scranton-Wilkes-Barre Air Basin</b>											
Scranton (TEOM)	23	21	20	21	12?	16	20	18	17	16	Annual Mean
S01	71	59	61	59	51	41	57	63	48	42	99th Percentile 24HR Mean
Wilkes-Barre (TEOM)	21	21	21	24	***	18	20	19	21	17	Annual Mean
S28	59	57	62	64	***	49	57	63	68	45	99th Percentile 24HR Mean
<b>Northeast Region Non-Air Basin</b>											
Nazareth (TEOM)	***	***	***	***	***	28	30	29	33	32	Annual Mean
A26	***	***	***	***	***	76	99	95	104	101	99th Percentile 24HR Mean
<b>Reading Air Basin</b>											
Reading (TEOM)	***	24?	21	21	21	20	22	20	19	20	Annual Mean
R01	***	52	59	55	49	52	63	58	50	47	99th Percentile 24HR Mean
Reading	***	29	29	27	29	27	24	25	25	20	Annual Mean
R15	***	81	79	67	53	66	62	60	83	46	99th Percentile 24HR Mean
<b>Harrisburg Air Basin</b>											
Harrisburg (TEOM)	22	23	22	23	21	21	22	20	21	21	Annual Mean
H11	61	58	62	65	53	65	60	62	53	51	99th Percentile 24HR Mean
<b>Lancaster Air Basin</b>											
Lancaster (TEOM)	27	24	23	24	24	21	23	21	20	20	Annual Mean
L01	72	64	68	62	63	55	67	61	49	49	99th Percentile 24HR Mean

Primary and Secondary National Ambient Air Quality Standards  
Annual Mean = 50 micrograms per cubic meter  
24 Hour Mean (3-year average of 99th Percentile) = 150 micrograms per cubic meter

? indicates that the annual mean does not meet the summary criteria for completeness  
\*\*\* indicates less than 30 discrete samples collected or less than 50 percent continuous data (TEOM)

Appendix A: Table A-8

PM-10 Suspended Particulate Matter Historical Trend  
(Units: micrograms per cubic meter / standard conditions)

Site Name / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b>York Air Basin</b>											
York (TEOM)	***	***	23	26	23	22	24	21	24	22	Annual Mean
Y01	***	***	70	60	56	55	68	61	71	52	99th Percentile 24HR Mean
<b>Northcentral Region Non-Air Basin</b>											
Altoona (TEOM)	26?	23	21	22	19	20	24	22	20	20	Annual Mean
308	69	53	59	58	57	54	69	63	69	58	99th Percentile 24HR Mean
Montoursville	***	***	***	***	***	***	***	20	20	18?	Annual Mean
410	***	***	***	***	***	***	***	66	45	42	99th Percentile 24HR Mean
<b>Johnstown Air Basin</b>											
Johnstown (TEOM)	***	28?	24	26	24	21	24	24	22	22	Annual Mean
J01	***	60	66	64	61	53	74	64	64	57	99th Percentile 24HR Mean
<b>Monongahela Valley Air Basin</b>											
Charleroi (TEOM)	25?	26	24	26	27	21	25	21	19	20	Annual Mean
M01	74	69	57	62	95	51	69	57	56	50	99th Percentile 24HR Mean
Monessen	***	***	32	34	38	31	31	30	29	25	Annual Mean
M16	***	***	75	74	79	62	67	76	59	77	99th Percentile 24HR Mean
<b>Lower Beaver Valley Air Basin</b>											
Beaver Falls (TEOM)	***	26	27	28	***	22	26	25	22	23	Annual Mean
B11	***	64	80	83	***	53	75	82	70	59	99th Percentile 24HR Mean
<b>Southwest Region Non-Air Basin</b>											
Florence	***	***	***	***	27	22	20	21	20	16	Annual Mean
504	***	***	***	***	72	54	60	80	72	49	99th Percentile 24HR Mean
Greensburg (TEOM)	***	***	***	***	20	19	23	22	22	20?	Annual Mean
513	***	***	***	***	52	47	57	59	60	48	99th Percentile 24HR Mean
<b>Upper Beaver Valley Air Basin</b>											
New Castle (TEOM)	***	32	33	33	28	28	32	29	26	26	Annual Mean
B21	***	89	90	90	78	74	79	73	79	62	99th Percentile 24HR Mean
<b>Erie Air Basin</b>											
Erie (TEOM)	***	19?	20	21	18	18	19	19	16	14?	Annual Mean
E10	***	52	59	62	51	47	54	58	47	48	99th Percentile 24HR Mean

Primary and Secondary National Ambient Air Quality Standards  
Annual Mean = 50 micrograms per cubic meter  
24 Hour Mean (3-year average of 99th Percentile) = 150 micrograms per cubic meter

? indicates that the annual mean does not meet the summary criteria for completeness  
\*\*\* indicates less than 30 discrete samples collected or less than 50 percent continuous data (TEOM)

Appendix A: Table A-9

PM-2.5 Suspended Particulate Matter Summary  
(Units: micrograms per cubic meter / local conditions)

Year: 2004

Site Name	PA Site Code	Arithmetic Annual Mean	Number 24HR Means	Maximum 24 Hour Means							
				24HR Mean	1st Date MM/DD	2nd 24HR Mean	2nd Date MM/DD	3rd 24HR Mean	4th 24HR Mean	98th Percentile 24HR	Minimum 24 Hour Mean
<b>Southeast Pennsylvania Air Basin</b>											
Bristol	P01	13.0?	108	39.8	05/12	30.4	06/08	29.9	28.7	29.9	3.6
Chester	P11	15.0	113	38.8	07/23	37.5	05/12	30.5	30.5	30.5	3.2
Norristown	P21	12.0?	102	39.3	05/12	29.3	06/08	28.8	27.0	28.8	2.4
Norristown (TEOM)	P21	17.6	352	65.4	07/22	51.4	05/12	48.4	44.5	40.4	1.2
New Garden	P30	14.3?	101	40.5	05/12	38.9	07/23	32.7	30.6	32.7	0.0
<b>Allentown-Bethlehem-Easton Air Basin</b>											
Allentown	A19	14.0	358	53.6	07/22	42.1	06/09	39.6	37.2	35.9	2.2
Easton (TEOM)	A20	13.6?	143	45.8	05/12	32.9	05/14	32.1	31.2	32.1	3.7
Freemansburg	A25	13.7	351	54.5	07/22	41.6	11/18	39.4	38.5	35.2	2.2
Freemansburg (TEOM)	A25	15.7?	212	54.8	07/22	42.3	06/09	39.5	38.8	37.9	3.1
<b>Scranton-Wilkes-Barre Air Basin</b>											
Scranton	S01	11.6	343	47.2	07/22	36.5	08/18	33.1	33.0	31.2	0.0
Wilkes-Barre	S28	12.2	347	45.5	07/22	36.9	06/09	36.3	35.6	30.8	2.0
<b>Reading Air Basin</b>											
Reading	R01	15.6	114	41.2	05/12	37.5	06/08	33.1	33.1	33.1	2.9
Reading (TEOM)	R01	15.3?	86	40.2	10/09	35.3	11/18	34.7	32.8	35.3	2.7
<b>Harrisburg Air Basin</b>											
Harrisburg	H11	15.7	354	55.7	03/05	46.7	12/30	45.9	43.8	35.5	2.0
Harrisburg (BAM)	H11	21.2?	226	58.0	12/30	53.9	07/22	50.3	45.7	43.4	3.7
<b>Lancaster Air Basin</b>											
Lancaster	L01	16.6	120	43.6	03/04	35.9	05/12	35.5	35.4	35.5	2.8
Lancaster (TEOM)	L01	18.7	337	65.6	02/02	52.4	05/11	49.8	48.4	46.1	0.3
<b>York Air Basin</b>											
York	Y01	16.5	111	56.7	03/04	37.5	06/08	35.9	34.1	39.0	3.1
York (TEOM)	Y01	17.7?	135	44.6	12/30	42.2	08/24	38.8	36.2	38.8	2.9
<b>Southcentral Region Non-Air Basin</b>											
Perry County	305	12.2	121	35.4	08/25	28.2	08/10	27.9	27.4	27.9	1.4
Arendtsville	314	13.7	358	43.5	07/22	43.3	03/05	40.3	39.5	36.3	0.0
Arendtsville (TEOM)	314	12.3	360	41.6	07/22	39.2	07/21	38.0	37.2	32.4	0.4
Carlisle	316	15.1	343	55.4	03/05	45.2	07/22	43.1	39.8	39.1	1.7

Primary and Secondary National Ambient Air Quality Standards  
Annual Mean = 15 micrograms per cubic meter  
24 Hour Mean (3-year average of 98th Percentile) = 65 micrograms per cubic meter

? indicates that the annual mean does not meet the summary criteria for completeness

Appendix A: Table A-9

PM-2.5 Suspended Particulate Matter Summary  
(Units: micrograms per cubic meter / local conditions)

Year: 2004

Site Name	PA Site Code	Arithmetic Annual Mean	Number 24HR Means	Maximum 24 Hour Means								
				24HR Mean	1st Date MM/DD	2nd Date MM/DD	3rd Date MM/DD	4th Date MM/DD	98th Percentile 24HR	Minimum 24 Hour Mean		
<b>Northcentral Region Non-Air Basin</b>												
State College	409	13.3	348	48.1	08/25	45.5	03/05	44.9	40.7	37.8	1.5	
<b>Johnstown Air Basin</b>												
Johnstown	J01	14.4	116	52.4	07/02	37.7	08/25	36.2	34.9	36.2	2.7	
Johnstown (BAM)	J01	16.1?	142	47.1	08/17	40.9	08/25	40.4	40.0	40.4	1.8	
<b>Monongahela Valley Air Basin</b>												
Charleroi	M01	14.0	116	54.7	07/02	38.1	06/08	35.4	33.0	35.4	3.2	
<b>Lower Beaver Valley Air Basin</b>												
Beaver Falls	B11	15.4	119	43.6	06/08	43.1	05/12	43.0	42.9	43.0	3.5	
Beaver Falls (TEOM)	B11	17.9?	150	46.3	07/21	46.3	08/18	45.7	41.8	45.7	0.8	
<b>Southwest Region Non-Air Basin</b>												
Florence	504	13.2	347	45.1	07/21	44.5	07/03	40.8	39.4	36.0	2.0	
Washington	508	14.1	119	47.1	07/02	37.3	06/08	34.0	29.5	34.0	3.8	
Kittanning (TEOM)	512	14.3	359	45.9	06/08	44.6	07/22	44.2	41.2	37.8	3.6	
Greensburg	513	14.9	118	59.3	07/02	49.6	08/10	39.0	33.3	39.0	3.1	
<b>Erie Air Basin</b>												
Erie	E10	11.9	357	38.7	02/19	37.1	06/08	36.1	35.9	32.5	1.8	
<b>Northwest Region Non-Air Basin</b>												
Farrell	606	13.4	346	39.3	07/21	37.7	06/08	36.9	35.1	34.5	2.4	

Primary and Secondary National Ambient Air Quality Standards  
Annual Mean = 15 micrograms per cubic meter  
24 Hour Mean (3-year average of 98th Percentile) = 65 micrograms per cubic meter

? indicates that the annual mean does not meet the summary criteria for completeness



Appendix A: Table A-10

PM-2.5 Suspended Particulate Matter Historical Trend  
(Units: micrograms per cubic meter / local conditions)

Site Name / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b>Southeast Pennsylvania Air Basin</b>											
Bristol	***	***	***	***	12.0?	13.8?	14.6	14.2	14.4	13.0?	Annual Mean
P01	***	***	***	***	32.8	38.4	38.5	37.2	39.6	29.9	98th Percentile 24HR Mean
Chester	***	***	***	***	13.1?	15.9	16.0	14.6	15.3	15.0	Annual Mean
P11	***	***	***	***	35.9	36.2	39.5	31.9	37.8	30.5	98th Percentile 24HR Mean
Norristown	***	***	***	***	13.0?	13.6?	15.1?	13.7	13.9	12.0?	Annual Mean
P21	***	***	***	***	31.3	37.5	47.6	36.8	37.5	28.8	98th Percentile 24HR Mean
Norristown (TEOM)	***	***	***	***	***	***	***	***	***	17.6	Annual Mean
P21	***	***	***	***	***	***	***	***	***	40.4	98th Percentile 24HR Mean
New Garden	***	***	***	***	***	***	***	14.7	15.6	14.3?	Annual Mean
P30	***	***	***	***	***	***	***	33.7	38.5	32.7	98th Percentile 24HR Mean
<b>Allentown-Bethlehem-Easton Air Basin</b>											
Allentown	***	***	***	***	11.9?	14.3	15.3?	13.1?	15.0?	14.0	Annual Mean
A19	***	***	***	***	31.5	38.2	44.5	38.9	36.6	35.9	98th Percentile 24HR Mean
Easton (TEOM)	***	***	***	***	***	12.2	14.9	14.8	14.5	13.6?	Annual Mean
A20	***	***	***	***	***	33.0	40.0	43.5	37.7	32.1	98th Percentile 24HR Mean
Freemansburg	***	***	***	***	12.9?	13.6?	15.5	14.1	14.3	13.7	Annual Mean
A25	***	***	***	***	31.3	37.3	42.9	40.9	37.8	35.2	98th Percentile 24HR Mean
Freemansburg (TEOM)	***	***	***	***	***	***	***	***	***	15.7?	Annual Mean
A25	***	***	***	***	***	***	***	***	***	37.9	98th Percentile 24HR Mean
<b>Scranton-Wilkes-Barre Air Basin</b>											
Scranton	***	***	***	***	11.0?	11.7	12.9	12.4	12.5	11.6	Annual Mean
S01	***	***	***	***	29.7	31.5	36.7	42.7	33.8	31.2	98th Percentile 24HR Mean
Wilkes-Barre	***	***	***	***	12.5?	12.7	13.8	12.0?	13.1	12.2	Annual Mean
S28	***	***	***	***	32.8	32.9	37.4	28.2	35.1	30.8	98th Percentile 24HR Mean
<b>Reading Air Basin</b>											
Reading	***	***	***	***	13.5?	16.9	16.5	16.7?	16.1	15.6	Annual Mean
R01	***	***	***	***	35.7	37.5	43.0	48.5	45.0	33.1	98th Percentile 24HR Mean
Reading (TEOM)	***	***	***	***	***	***	***	***	***	15.3?	Annual Mean
R01	***	***	***	***	***	***	***	***	***	35.3	98th Percentile 24HR Mean
<b>Harrisburg Air Basin</b>											
Harrisburg	***	***	***	***	14.4?	15.4?	16.6	14.5	16.2	15.7	Annual Mean
H11	***	***	***	***	39.7	45.6	47.7	42.7	41.5	35.5	98th Percentile 24HR Mean
Harrisburg (BAM)	***	***	***	***	***	***	***	***	***	21.2?	Annual Mean
H11	***	***	***	***	***	***	***	***	***	43.4	98th Percentile 24HR Mean

Primary and Secondary National Ambient Air Quality Standards  
Annual Mean = 15 micrograms per cubic meter  
24 Hour Mean (3-year average of 98th Percentile) = 65 micrograms per cubic meter

? indicates that the annual mean does not meet the summary criteria for completeness

\*\*\* indicates less than 11 valid samples collected each quarter

Appendix A: Table A-10

PM-2.5 Suspended Particulate Matter Historical Trend  
(Units: micrograms per cubic meter / local conditions)

Site Name / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b>Lancaster Air Basin</b>											
Lancaster	***	***	***	***	15.6?	17.8	17.3	16.2	17.6	16.6	Annual Mean
L01	***	***	***	***	38.2	47.0	42.1	40.2	51.5	35.5	98th Percentile 24HR Mean
Lancaster (TEOM)	***	***	***	***	***	***	***	***	***	18.7	Annual Mean
L01	***	***	***	***	***	***	***	***	***	46.1	98th Percentile 24HR Mean
<b>York Air Basin</b>											
York	***	***	***	***	15.4?	16.7	16.9	17.1	17.4	16.5	Annual Mean
Y01	***	***	***	***	34.9	41.1	41.3	47.3	47.0	39.0	98th Percentile 24HR Mean
York (TEOM)	***	***	***	***	***	***	***	***	***	17.7?	Annual Mean
Y01	***	***	***	***	***	***	***	***	***	38.8	98th Percentile 24HR Mean
<b>Southcentral Region Non-Air Basin</b>											
Perry County	***	***	***	***	***	12.2	12.6	13.3	13.1?	12.2	Annual Mean
305	***	***	***	***	***	30.2	33.7	36.9	34.5	27.9	98th Percentile 24HR Mean
Arendtsville	***	***	***	***	13.1?	13.1?	14.1	12.6	13.6	13.7	Annual Mean
314	***	***	***	***	34.0	36.5	36.0	38.9	36.5	36.3	98th Percentile 24HR Mean
Arendtsville (TEOM)	***	***	***	***	***	***	13.8	13.4	13.3	12.3	Annual Mean
314	***	***	***	***	***	***	38.0	39.3	33.4	32.4	98th Percentile 24HR Mean
Carlisle	***	***	***	***	***	***	15.6	14.4	15.3	15.1	Annual Mean
316	***	***	***	***	***	***	45.0	41.5	41.6	39.1	98th Percentile 24HR Mean
<b>Northcentral Region Non-Air Basin</b>											
State College	***	***	***	***	***	***	13.9?	11.9?	13.6	13.3	Annual Mean
409	***	***	***	***	***	***	45.0	36.9	35.4	37.8	98th Percentile 24HR Mean
<b>Johnstown Air Basin</b>											
Johnstown	***	***	***	***	14.8?	16.1?	15.5?	16.1	15.5	14.4	Annual Mean
J01	***	***	***	***	31.0	35.4	42.1	16.6	36.8	36.2	98th Percentile 24HR Mean
Johnstown (BAM)	***	***	***	***	***	***	***	***	***	16.1?	Annual Mean
J01	***	***	***	***	***	***	***	***	***	40.4	98th Percentile 24HR Mean
<b>Monongahela Valley Air Basin</b>											
Charleroi	***	***	***	***	15.4?	15.5?	15.7	15.2	14.9	14.0	Annual Mean
M01	***	***	***	***	33.2	36.0	44.4	43.3	35.6	35.4	98th Percentile 24HR Mean
<b>Lower Beaver Valley Air Basin</b>											
Beaver Falls	***	***	***	***	***	15.9?	16.5	15.3	15.7	15.4	Annual Mean
B11	***	***	***	***	***	43.6	42.4	37.7	33.8	43.0	98th Percentile 24HR Mean
Beaver Falls (TEOM)	***	***	***	***	***	***	***	***	***	17.9?	Annual Mean
B11	***	***	***	***	***	***	***	***	***	45.7	98th Percentile 24HR Mean

Primary and Secondary National Ambient Air Quality Standards  
Annual Mean = 15 micrograms per cubic meter  
24 Hour Mean (3-year average of 98th Percentile) = 65 micrograms per cubic meter

? indicates that the annual mean does not meet the summary criteria for completeness

\*\*\* indicates less than 11 valid samples collected each quarter

Appendix A: Table A-10

PM-2.5 Suspended Particulate Matter Historical Trend  
(Units: micrograms per cubic meter / local conditions)

Site Name / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b>Southwest Region Non-Air Basin</b>											
Florence	***	***	***	***	13.0?	13.3	14.3?	13.6?	13.4	13.2	Annual Mean
504	***	***	***	***	38.1	30.5	35.5	36.7	33.9	36.0	98th Percentile 24HR Mean
Washington	***	***	***	***	14.6?	15.1	15.8?	14.7	14.7	14.1	Annual Mean
508	***	***	***	***	42.4	33.3	36.6	37.2	33.4	34.0	98th Percentile 24HR Mean
Kittanning (TEOM)	***	***	***	***	***	12.2	14.9	14.3?	12.4	14.3	Annual Mean
512	***	***	***	***	***	29.0	42.0	48.3	28.8	37.8	98th Percentile 24HR Mean
Greensburg	***	***	***	***	14.9?	16.0?	15.9	14.9?	15.3	14.9	Annual Mean
513	***	***	***	***	37.5	37.2	36.0	40.0	34.8	39.0	98th Percentile 24HR Mean
<b>Erie Air Basin</b>											
Erie	***	***	***	***	12.6?	13.8?	13.8?	13.3?	12.6?	11.9	Annual Mean
E10	***	***	***	***	30.5	28.2	37.5	42.9	29.7	32.5	98th Percentile 24HR Mean
<b>Northwest Region Non-Air Basin</b>											
Farrell	***	***	***	***	***	***	14.9?	14.0	13.8	13.4	Annual Mean
606	***	***	***	***	***	***	43.0	36.6	35.4	34.5	98th Percentile 24HR Mean

Primary and Secondary National Ambient Air Quality Standards  
Annual Mean = 15 micrograms per cubic meter  
24 Hour Mean (3-year average of 98th Percentile) = 65 micrograms per cubic meter

? indicates that the annual mean does not meet the summary criteria for completeness

\*\*\* indicates less than 11 valid samples collected each quarter

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Appendix A: Table A-11

Sulfur Dioxide Summary  
(Units: parts per million)

Year: 2004

Site Name	PA Site Code	Percent Valid Data	Annual Mean	Daily (Block) Averages				Block Averages				Max 1 HR Mean
				1st Max		2nd Max		1st Max		2nd Max		
				24HR Mean	Date MM/DD	24HR Mean	Date MM/DD	3HR Mean	Date MM/DD	3HR Mean	Date MM/DD	
<b>Southeast Pennsylvania Air Basin</b>												
Bristol	P01	97.4	0.004	0.023	01/12	0.023	12/29	0.039	01/12	0.035	01/12	0.043
Chester	P11	98.1	0.005	0.023	01/12	0.019	01/08	0.039	08/14	0.038	01/08	0.056
Norristown	P21	98.7	0.004	0.019	12/29	0.018	02/12	0.029	02/12	0.027	02/02	0.038
<b>Allentown-Bethlehem-Easton Air Basin</b>												
Allentown	A19	99.5	0.007	0.055	01/27	0.045	01/26	0.069	01/27	0.068	01/27	0.076
Easton	A20	98.5	0.013	0.066	10/19	0.044	01/27	0.101	10/19	0.096	10/19	0.151
Freemansburg	A25	99.1	0.005	0.023	01/27	0.023	02/02	0.056	02/02	0.036	10/08	0.074
<b>Scranton-Wilkes-Barre Air Basin</b>												
Scranton	S01	98.1	0.005	0.020	12/29	0.016	02/14	0.031	12/16	0.030	12/28	0.046
Wilkes-Barre	S28	98.8	0.005	0.023	12/29	0.019	02/14	0.043	01/02	0.035	02/14	0.052
<b>Northeast Region Non-Air Basin</b>												
Shenandoah	211	99.4	0.007	0.027	02/29	0.027	12/22	0.075	07/20	0.058	07/20	0.114
<b>Reading Air Basin</b>												
Reading	R01	99.0	0.008	0.021	03/26	0.020	02/29	0.072	09/03	0.068	03/26	0.150
<b>Harrisburg Air Basin</b>												
Harrisburg	H11	97.6	0.004	0.022	09/07	0.018	01/09	0.102	09/03	0.061	09/07	0.177
<b>Lancaster Air Basin</b>												
Lancaster	L01	98.7	0.005	0.021	11/18	0.017	02/29	0.061	11/18	0.049	10/07	0.096
<b>York Air Basin</b>												
York	Y01	98.3	0.005	0.021	01/25	0.020	12/25	0.083	01/25	0.070	12/25	0.131
<b>Southcentral Region Non-Air Basin</b>												
Perry County	305	99.2	0.003	0.017	03/30	0.013	04/21	0.035	02/29	0.030	03/30	0.046
Altoona	308	98.3	0.006	0.040	01/08	0.030	02/29	0.093	02/29	0.065	11/16	0.124
<b>Northcentral Region Non-Air Basin</b>												
Montoursville	410	97.2	0.003	0.016	02/02	0.015	02/10	0.032	02/02	0.032	06/12	0.061
State College	409	98.2	0.004	0.020	11/17	0.019	02/29	0.030	11/16	0.028	02/29	0.036

Primary and Secondary National Ambient Air Quality Standards  
 Annual Mean = 0.030 parts per million  
 24 Hour Mean (Daily Block Average) = 0.14 parts per million  
 3 Hour Mean (Block Average) = 0.50 parts per million

? indicates that the annual mean does not meet the summary criteria for completeness

Appendix A: Table A-11

Sulfur Dioxide Summary  
(Units: parts per million)

Year: 2004

Site Name	PA Site Code	Percent Valid Data	Annual Mean	Daily (Block) Averages				Block Averages				Max 1 HR Mean
				1st Max		2nd Max		1st Max		2nd Max		
				24HR Mean	Date MM/DD	24HR Mean	Date MM/DD	3HR Mean	Date MM/DD	3HR Mean	Date MM/DD	
<b>Johnstown Air Basin</b>												
Johnstown	J01	97.5	0.007	0.043	07/06	0.037	10/12	0.162	07/06	0.115	07/06	0.249
<b>Monongahela Valley Air Basin</b>												
Charleroi	M01	98.6	0.008	0.028	02/01	0.021	01/08	0.059	02/01	0.052	08/22	0.103
<b>Lower Beaver Valley Air Basin</b>												
Beaver Falls	B11	99.4	0.007	0.034	12/16	0.026	01/11	0.095	05/12	0.064	12/30	0.195
Hookstown	B23	97.0	0.009	0.071	09/21	0.048	11/10	0.207	09/21	0.126	09/21	0.251
Brighton Twp.	B27	99.4	0.012	0.057	11/15	0.046	08/03	0.259	08/03	0.150	03/24	0.369
<b>Allegheny County Air Basin</b>												
Pittsburgh	D12	98.1	0.007	0.025	01/31	0.024	02/26	0.071	02/26	0.057	02/16	0.083
<b>Southwest Region Non-Air Basin</b>												
Florence	504	98.5	0.009	0.035	11/17	0.034	01/20	0.112	11/17	0.082	12/02	0.172
Washington	508	98.8	0.009	0.027	10/28	0.026	01/08	0.121	10/28	0.086	11/23	0.200
Greensburg	513	97.5	0.006	0.031	02/15	0.023	01/11	0.067	02/15	0.058	02/15	0.079
Holbrook	514	57.4	0.006?	0.029	09/13	0.028	10/07	0.083	09/13	0.062	10/07	0.151
<b>Upper Beaver Valley Air Basin</b>												
New Castle	B21	99.4	0.007	0.038	11/10	0.035	12/16	0.078	02/28	0.072	11/10	0.160
<b>Erie Air Basin</b>												
Erie	E10	98.4	0.008	0.042	03/16	0.029	12/23	0.097	12/23	0.077	12/23	0.109
<b>Northwest Region Non-Air Basin</b>												
Farrell	606	97.9	0.006	0.019	01/17	0.019	02/18	0.070	11/10	0.060	03/11	0.084
Warren	611	99.0	0.004	0.022	12/16	0.019	03/25	0.039	11/14	0.037	11/10	0.066
Warren	612	96.7	0.010	0.120	02/29	0.061	10/07	0.234	02/29	0.212	02/29	0.309

Primary and Secondary National Ambient Air Quality Standards  
 Annual Mean = 0.030 parts per million  
 24 Hour Mean (Daily Block Average) = 0.14 parts per million  
 3 Hour Mean (Block Average) = 0.50 parts per million

? indicates that the annual mean does not meet the summary criteria for completeness

Appendix A: Table A-12

Sulfur Dioxide Historical Trend  
(Units: parts per million)

Site Name / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b>Southeast Pennsylvania Air Basin</b>											
Bristol	0.007	0.007	0.007	0.008	0.005	0.007	0.006	0.008	0.008	0.004	Annual Mean
P01	0.035	0.028	0.029	0.024	0.020	0.027	0.029	0.028	0.029	0.023	2nd Max 24-Hour Mean
	0.047	0.048	0.043	0.043	0.035	0.044	0.041	0.041	0.042	0.035	2nd Max 3-Hour Mean
Chester	0.008	0.008	0.008	0.009	0.009	0.008	0.007	0.006	0.006	0.005	Annual Mean
P11	0.028	0.025	0.026	0.027	0.025	0.026	0.023	0.022	0.028	0.019	2nd Max 24-Hour Mean
	0.054	0.047	0.062	0.048	0.057	0.048	0.045	0.044	0.049	0.038	2nd Max 3-Hour Mean
Norristown	0.009	0.008	0.008	0.006	0.006	0.004	0.004	0.005	0.005	0.004	Annual Mean
P21	0.025	0.028	0.025	0.022	0.020	0.022	0.019	0.019	0.023	0.018	2nd Max 24-Hour Mean
	0.036	0.042	0.048	0.030	0.042	0.032	0.041	0.031	0.036	0.027	2nd Max 3-Hour Mean
<b>Allentown-Bethlehem-Easton Air Basin</b>											
Allentown	0.006	0.006	0.008	0.008	0.006	0.007	0.007	0.008	0.009	0.007	Annual Mean
A19	0.028	0.035	0.030	0.030	0.030	0.027	0.028	0.028	0.038	0.045	2nd Max 24-Hour Mean
	0.054	0.051	0.058	0.047	0.058	0.053	0.044	0.041	0.058	0.068	2nd Max 3-Hour Mean
Easton	***	***	***	***	***	0.008	0.014	0.006	0.008	0.013	Annual Mean
A20	***	***	***	***	***	0.023	0.030	0.024	0.037	0.044	2nd Max 24-Hour Mean
	***	***	***	***	***	0.069	0.055	0.046	0.054	0.096	2nd Max 3-Hour Mean
Freemansburg	***	***	***	0.006	0.009	0.006	0.004	0.006	0.004	0.005	Annual Mean
A25	***	***	***	0.027	0.021	0.020	0.019	0.020	0.018	0.023	2nd Max 24-Hour Mean
	***	***	***	0.040	0.047	0.034	0.028	0.046	0.036	0.036	2nd Max 3-Hour Mean
<b>Northeast Region Non-Air Basin</b>											
Shenandoah	***	***	0.010	0.007	0.006	0.006	0.007	0.006	0.006	0.007	Annual Mean
211	***	***	0.035	0.026	0.038	0.025	0.035	0.026	0.023	0.027	2nd Max 24-Hour Mean
	***	***	0.064	0.059	0.074	0.053	0.052	0.140	0.045	0.058	2nd Max 3-Hour Mean
<b>Scranton-Wilkes-Barre Air Basin</b>											
Scranton	0.005	0.007	0.006	0.005	0.005	0.004	0.005	0.004	0.005	0.005	Annual Mean
S01	0.045	0.033	0.031	0.026	0.021	0.021	0.026	0.023	0.020	0.016	2nd Max 24-Hour Mean
	0.068	0.043	0.049	0.044	0.033	0.038	0.044	0.036	0.034	0.030	2nd Max 3-Hour Mean
Wilkes-Barre	0.005	0.006	0.007	0.006	0.007	0.006	0.008	0.008	0.005	0.005	Annual Mean
S28	0.027	0.023	0.026	0.022	0.023	0.026	0.031	0.024	0.021	0.019	2nd Max 24-Hour Mean
	0.056	0.042	0.047	0.041	0.039	0.052	0.048	0.044	0.035	0.035	2nd Max 3-Hour Mean

Primary and Secondary National Ambient Air Quality Standards  
 Annual Mean = 0.030 parts per million  
 24 Hour Mean (Daily Block Average) = 0.14 parts per million  
 3 Hour Mean (Block Average) = 0.50 parts per million

? indicates that the annual mean does not meet the summary criteria for completeness

\*\*\* indicates less than 50 percent valid data for the year

Appendix A: Table A-12

Sulfur Dioxide Historical Trend  
(Units: parts per million)

Site Name / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b>Reading Air Basin</b>											
Reading	0.009	0.009	0.008	0.009	0.008	0.008	0.007	0.007	0.008	0.008	Annual Mean
R01	0.032	0.037	0.028	0.022	0.027	0.028	0.025	0.019	0.023	0.020	2nd Max 24-Hour Mean
	0.087	0.094	0.067	0.096	0.094	0.075	0.091	0.083	0.087	0.068	2nd Max 3-Hour Mean
<b>Harrisburg Air Basin</b>											
Harrisburg	0.006	0.007	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004	Annual Mean
H11	0.022	0.022	0.021	0.021	0.024	0.015	0.013	0.017	0.017	0.018	2nd Max 24-Hour Mean
	0.047	0.049	0.043	0.047	0.050	0.026	0.056	0.048	0.048	0.061	2nd Max 3-Hour Mean
<b>Lancaster Air Basin</b>											
Lancaster	0.006	0.005	0.007	0.006	0.005	0.005	0.004	0.005	0.005	0.005	Annual Mean
L01	0.018	0.021	0.023	0.020	0.021	0.024	0.018	0.014	0.018	0.017	2nd Max 24-Hour Mean
	0.043	0.035	0.050	0.047	0.045	0.048	0.036	0.034	0.032	0.049	2nd Max 3-Hour Mean
<b>York Air Basin</b>											
York	0.006	0.007	0.009	0.008	0.007	0.006	0.006	0.005	0.004	0.005	Annual Mean
Y01	0.020	0.022	0.026	0.023	0.019	0.020	0.019	0.014	0.012	0.020	2 <sup>nd</sup> Max 24-Hour Mean
	0.061	0.054	0.073	0.063	0.058	0.059	0.043	0.036	0.039	0.070	2 <sup>nd</sup> Max 3-Hour Mean
<b>Southcentral Region Non-Air Basin</b>											
Perry County	0.005	0.005	0.003	0.003	0.003	0.003	0.002	0.003	0.005	0.003	Annual Mean
305	0.014	0.020	0.021	0.012	0.012	0.015	0.010	0.008	0.017	0.013	2nd Max 24-Hour Mean
	0.050	0.039	0.032	0.028	0.034	0.034	0.036	0.026	0.033	0.030	2nd Max 3-Hour Mean
Altoona	0.008	0.008	0.010	0.008	0.007	0.006	0.009	0.007	0.007	0.006	Annual Mean
308	0.037	0.033	0.046	0.032	0.030	0.045	0.042	0.032	0.030	0.030	2nd Max 24-Hour Mean
	0.066	0.070	0.070	0.060	0.058	0.071	0.066	0.051	0.060	0.065	2nd Max 3-Hour Mean
<b>Northcentral Non-Air Basin</b>											
Montoursville	***	***	***	***	***	***	***	0.003	0.005	0.003	Annual Mean
410	***	***	***	***	***	***	***	0.015	0.017	0.015	2nd Max 24-Hour Mean
	***	***	***	***	***	***	***	0.027	0.070	0.032	2nd Max 3-Hour Mean
State College	***	***	***	***	***	***	***	0.004	0.006	0.004	Annual Mean
409	***	***	***	***	***	***	***	0.023	0.019	0.019	2nd Max 24-Hour Mean
	***	***	***	***	***	***	***	0.044	0.031	0.028	2nd Max 3-Hour Mean

Primary and Secondary National Ambient Air Quality Standards  
 Annual Mean = 0.030 parts per million  
 24 Hour Mean (Daily Block Average) = 0.14 parts per million  
 3 Hour Mean (Block Average) = 0.50 parts per million

? indicates that the annual mean does not meet the summary criteria for completeness

\*\*\* indicates less than 50 percent valid data for the year



Appendix A: Table A-12

Sulfur Dioxide Historical Trend  
(Units: parts per million)

Site Name / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b>Johnstown Air Basin</b>											
Johnstown	0.012	0.011	0.009	0.008	0.009	0.007	0.008	0.007	0.008	0.007	Annual Mean
J01	0.042	0.034	0.030	0.027	0.025	0.026	0.031	0.025	0.028	0.037	2nd Max 24-Hour Mean
	0.128	0.067	0.069	0.080	0.069	0.065	0.078	0.074	0.074	0.115	2nd Max 3-Hour Mean
<b>Monongahela Valley Air Basin</b>											
Charleroi	0.009	0.008	0.009	0.009	0.009	0.008	0.007	0.007	0.006	0.008	Annual Mean
M01	0.030	0.033	0.035	0.025	0.023	0.031	0.022	0.023	0.029	0.021	2nd Max 24-Hour Mean
	0.097	0.084	0.074	0.056	0.059	0.059	0.107	0.070	0.079	0.051	2nd Max 3-Hour Mean
<b>Lower Beaver Valley Air Basin</b>											
Beaver Falls	0.009	0.007	0.009	0.006	0.009	0.007	0.008	0.007	0.007	0.007	Annual Mean
B11	0.030	0.038	0.034	0.035	0.028	0.036	0.032	0.030	0.031	0.026	2nd Max 24-Hour Mean
	0.075	0.078	0.081	0.079	0.070	0.070	0.076	0.064	0.082	0.064	2nd Max 3-Hour Mean
Hookstown	0.012	0.011	0.011	0.013	0.010	0.011	0.011	0.010	0.010	0.009	Annual Mean
B23	0.046	0.038	0.049	0.046	0.044	0.039	0.037	0.038	0.045	0.048	2nd Max 24-Hour Mean
	0.127	0.105	0.163	0.129	0.145	0.126	0.108	0.115	0.118	0.126	2nd Max 3-Hour Mean
Brighton Twp.	0.015	0.015	0.015	0.016	0.015	0.012	0.014	0.014	0.011	0.012	Annual Mean
B27	0.080	0.058	0.078	0.094	0.070	0.086	0.072	0.075	0.083	0.046	2nd Max 24-Hour Mean
	0.216	0.207	0.251	0.207	0.215	0.247	0.249	0.319	0.174	0.150	2nd Max 3-Hour Mean
<b>Allegheny County Air Basin</b>											
Pittsburgh	***	***	***	0.005	0.006	0.010	0.009	0.010	0.010	0.007	Annual Mean
	***	***	***	0.014	0.019	0.037	0.033	0.024	0.028	0.024	2nd Max 24-Hour Mean
	***	***	***	0.047	0.042	0.078	0.077	0.075	0.066	0.057	2nd Max 3-Hour Mean
<b>Southwest Region Non-Air Basin</b>											
Florence	0.009	0.010	0.012	0.013	0.010	0.009	0.009	0.010	0.010	0.009	Annual Mean
504	0.034	0.035	0.050	0.043	0.036	0.031	0.039	0.037	0.033	0.034	2nd Max 24-Hour Mean
	0.095	0.086	0.127	0.102	0.099	0.100	0.102	0.092	0.100	0.081	2nd Max 3-Hour Mean
Washington	0.009	0.008	0.010	0.010	0.009	0.009	0.010	0.009	0.009	0.009	Annual Mean
508	0.045	0.030	0.047	0.040	0.030	0.027	0.038	0.032	0.028	0.026	2nd Max 24-Hour Mean
	0.093	0.094	0.086	0.072	0.062	0.059	0.069	0.080	0.078	0.067	2nd Max 3-Hour Mean
Greensburg	***	***	***	0.008	0.011	0.010	0.009	0.006	0.008	0.006	Annual Mean
513	***	***	***	0.039	0.037	0.029	0.027	0.024	0.029	0.023	2nd Max 24-Hour Mean
	***	***	***	0.065	0.100	0.071	0.053	0.048	0.070	0.058	2nd Max 3-Hour Mean

Primary and Secondary National Ambient Air Quality Standards  
 Annual Mean = 0.030 parts per million  
 24 Hour Mean (Daily Block Average) = 0.14 parts per million  
 3 Hour Mean (Block Average) = 0.50 parts per million

? indicates that the annual mean does not meet the summary criteria for completeness

\*\*\* indicates less than 50 percent valid data for the year

Appendix A: Table A-12

Sulfur Dioxide Historical Trend  
(Units: parts per million)

Site Name / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
Holbrook 514	***	***	0.007? 0.020 0.045	0.010? 0.021 0.038	0.009? 0.022 0.050	0.007? 0.022 0.062	0.006? 0.023 0.070	0.007? 0.022 0.055	0.006? 0.029 0.077	0.006? 0.028 0.062	Annual Mean 2nd Max 24-Hour Mean 2nd Max 3-Hour Mean
<b>Upper Beaver Valley Air Basin</b>											
New Castle B21	0.007 0.032 0.070	0.008 0.034 0.063	0.008 0.033 0.114	0.009 0.032 0.117	0.008 0.035 0.086	0.008 0.031 0.079	0.011 0.041 0.120	0.007 0.033 0.082	0.009 0.028 0.076	0.007 0.035 0.072	Annual Mean 2nd Max 24-Hour Mean 2nd Max 3-Hour Mean
<b>Erie Air Basin</b>											
Erie E10	0.009 0.050 0.112	0.011? 0.066 0.173	0.009 0.035 0.096	0.010 0.068 0.152	0.010 0.043 0.152	0.008 0.041 0.076	0.010 0.043 0.098	0.011 0.037 0.070	0.011 0.038 0.078	0.008 0.029 0.077	Annual Mean 2nd Max 24-Hour Mean 2nd Max 3-Hour Mean
<b>Northwest Region Non-Air Basin</b>											
Farrell 606	0.008 0.032 0.064	0.007 0.029 0.059	0.007 0.032 0.073	0.007 0.029 0.063	0.007? 0.039 0.060	0.007 0.024 0.052	0.007 0.033 0.071	0.006 0.024 0.067	0.006 0.025 0.067	0.006 0.019 0.044	Annual Mean 2nd Max 24-Hour Mean 2nd Max 3-Hour Mean
Warren 611	*** *** ***	0.008 0.028 0.096	0.009 0.038 0.082	0.008 0.028 0.103	0.008 0.031 0.072	0.006 0.024 0.070	0.007 0.027 0.075	0.006 0.023 0.066	0.006 0.028 0.067	0.004 0.019 0.037	Annual Mean 2nd Max 24-Hour Mean 2nd Max 3-Hour Mean
Warren 612	*** *** ***	*** *** ***	0.015 0.069 0.330	0.016 0.098 0.252	0.015 0.094 0.227	0.013 0.092 0.214	0.016 0.087 0.209	0.014 0.100 0.273	0.014 0.103 0.249	0.010 0.061 0.212	Annual Mean 2nd Max 24-Hour Mean 2nd Max 3-Hour Mean

Primary and Secondary National Ambient Air Quality Standards  
Annual Mean = 0.030 parts per million  
24 Hour Mean (Daily Block Average) = 0.14 parts per million  
3 Hour Mean (Block Average) = 0.50 parts per million

? indicates that the annual mean does not meet the summary criteria for completeness

\*\*\* indicates less than 50 percent valid data for the year

Appendix A: Table A-13a

Ozone Summary (1- hour)  
(Units: parts per million)

Year: 2004 (April – October)

Site Name	PA Site Code	Number of Valid Days	Percent Valid Data	Number Days >= 0.125	1 <sup>st</sup> Daily Max 1 HR Mean	1 <sup>st</sup> Daily Max Date MM/DD	2 <sup>nd</sup> Daily Max 1 HR Mean	2 <sup>nd</sup> Daily Max Date MM/DD	3rd Daily Max 1 HR Mean	3rd Daily Max Date MM/DD	4 <sup>th</sup> Daily Max 1 HR Mean	4 <sup>th</sup> Daily Max Date MM/DD
<b>Southeast Pennsylvania Air Basin</b>												
Bristol	P01	210	97.6	0	.099	08/20	.098	06/08	.095	05/12	.093	06/09
Chester	P11	210	99.0	0	.109	04/18	.109	07/21	.093	07/29	.092	07/02
Norristown	P21	210	98.2	0	.095	07/02	.094	06/09	.094	08/20	.091	07/21
New Garden (Toughkenamon)	P30	204	95.8	0	.113	06/09	.102	05/12	.097	05/15	.096	04/18
<b>Allentown-Bethlehem-Easton Air Basin</b>												
Allentown	A19	212	98.8	0	.103	05/12	.101	07/22	.100	07/01	.100	07/04
Easton	A20	214	99.7	0	.111	07/22	.104	07/07	.095	06/16	.094	05/13
Freemansburg	A25	214	99.7	0	.118	07/22	.104	07/01	.102	07/07	.097	06/16
<b>Scranton-Wilkes-Barre Air Basin</b>												
Scranton	S01	213	99.1	0	.092	04/18	.088	07/04	.085	05/13	.079	06/16
Nanticoke	S26	213	99.4	0	.081	06/24	.079	05/13	.078	06/16	.077	04/18
Wilkes-Barre	S28	212	98.6	0	.090	06/16	.088	04/18	.084	06/24	.082	07/04
Peckville	S29	214	99.6	0	.088	04/18	.085	07/04	.083	05/13	.079	06/16
<b>Reading Air Basin</b>												
Reading	R01	213	99.0	0	.098	05/12	.089	06/08	.087	07/02	.085	06/07
<b>Harrisburg Air Basin</b>												
Harrisburg	H11	207	97.1	0	.098	07/22	.092	07/02	.090	09/04	.088	07/21
<b>Lancaster Air Basin</b>												
Lancaster	L01	214	98.8	0	.107	07/02	.097	05/12	.096	06/08	.094	04/18
<b>York Air Basin</b>												
York	Y01	214	99.7	0	.100	07/22	.091	07/02	.091	08/10	.090	08/03
<b>Southcentral Region Non-Air Basin</b>												
Perry County	305	204	96.4	0	.088	09/22	.081	05/12	.080	07/02	.078	05/13
Hershey	306	212	99.0	0	.094	07/02	.084	05/13	.084	07/21	.084	07/22
Methodist Hill	313	201	95.1	0	.078	05/10	.078	07/21	.078	08/24	.077	04/17
Biglerville	D14	212	98.4	0	.091	07/22	.079	05/12	.079	07/02	.078	04/17
Altoona	308	214	99.5	0	.083	04/17	.083	07/01	.081	04/30	.080	06/08

Primary Daily 1 Hour National Ambient Air Quality Standard of 0.12 parts per million

Appendix A: Table A-13a

Ozone Summary (1- hour)  
(Units: parts per million)

Year: 2004 (April – October)

Site Name	PA Site Code	Number of Valid Days	Percent Valid Data	Number Days >= 0.125	1 <sup>st</sup> Daily Max 1 HR Mean	1 <sup>st</sup> Daily Max Date MM/DD	2 <sup>nd</sup> Daily Max 1 HR Mean	2 <sup>nd</sup> Daily Max Date MM/DD	3rd Daily Max 1 HR Mean	3rd Daily Max Date MM/DD	4 <sup>th</sup> Daily Max 1 HR Mean	4 <sup>th</sup> Daily Max Date MM/DD
<b>Northcentral Region Non-Air Basin</b>												
Montoursville	410	207	96.0	0	.098	05/13	.091	07/22	.086	04/30	.085	04/18
State College	409	211	98.9	0	.083	07/02	.081	06/08	.080	05/11	.079	04/17
Moshannon (Elliott State Park)	D09	212	99.1	0	.083	04/17	.082	07/02	.081	04/18	.079	06/09
Tiadaghton	D10	198	92.3	0	.081	04/17	.080	04/18	.080	06/24	.079	04/30
Penn Nursery	D11	209	97.8	0	.081	04/17	.078	09/22	.075	07/02	.074	04/18
Tioga County	D13	205	95.3	0	.088	05/13	.085	06/09	.084	04/30	.084	06/08
<b>Johnstown Air Basin</b>												
Johnstown	J01	214	99.5	0	.082	04/17	.081	07/21	.080	05/09	.079	08/02
<b>Monongahela Valley Air Basin</b>												
Charleroi	M01	213	99.6	0	.089	08/02	.085	07/21	.082	08/03	.081	07/01
<b>Lower Beaver Valley Air Basin</b>												
Beaver Falls	B11	214	99.5	0	.086	07/02	.085	07/29	.083	08/24	.079	07/03
Hookstown	B23	212	98.7	0	.094	07/02	.090	09/23	.089	09/13	.087	09/22
Brighton Township	B27	213	99.6	0	.094	07/02	.085	07/03	.085	09/22	.083	07/29
<b>Allegheny County Air Basin</b>												
Pittsburgh	D12	214	99.6	0	.095	07/03	.094	08/02	.085	07/01	.080	07/02
<b>Southwest Region Non-Air Basin</b>												
Florence	504	205	95.5	0	.087	08/02	.083	07/10	.083	07/21	.082	07/03
Washington	508	213	99.8	0	.094	08/02	.086	07/03	.081	06/07	.079	07/21
Murrysville	510	212	99.2	0	.096	07/10	.092	07/02	.082	09/12	.080	08/03
Kittanning	512	213	99.5	0	.096	05/12	.093	06/07	.093	07/01	.091	05/13
Greensburg	513	211	97.9	0	.100	08/03	.094	07/02	.091	07/10	.085	07/01
Holbrook	514	206	97.3	0	.089	08/02	.082	05/09	.081	07/01	.080	09/23
<b>Upper Beaver Valley Air Basin</b>												
New Castle	B21	212	99.6	0	.085	08/24	.083	09/03	.081	07/03	.077	07/02
<b>Erie Air Basin</b>												
Erie	E10	213	99.3	0	.091	06/07	.089	05/12	.087	09/23	.084	07/20
<b>Northwest Region Non-Air Basin</b>												
Farrell	606	214	99.4	0	.091	07/01	.088	08/24	.087	07/03	.082	07/02

Primary Daily 1 Hour National Ambient Air Quality Standard of 0.12 parts per million

Appendix A: Table A-13b

Ozone Summary (8- hour)  
(Units: parts per million)

Year: 2004 (April – October)

Site Name	PA Site Code	Number of Valid Days	Percent Data Complete	Days > 0.84	1 <sup>st</sup> Daily Max		2 <sup>nd</sup> Daily Max		3 <sup>rd</sup> Daily Max		4 <sup>th</sup> Daily Max	
					8 HR Mean	Date MM/DD	8 HR Mean	Date MM/DD	8 HR Mean	Date MM/DD	8 HR Mean	Date MM/DD
<b>Southeast Pennsylvania Air Basin</b>												
Bristol	P01	207	97.4	2	.088	05/12	.088	07/22	.084	07/21	.082	06/08
Chester	P11	209	98.9	2	.090	07/21	.087	04/18	.084	07/02	.081	09/04
Norristown	P21	209	98.3	1	.085	07/02	.084	06/09	.084	07/21	.083	04/18
New Garden (Toughkenamon)	P30	202	95.6	5	.095	06/09	.088	05/11	.087	05/12	.085	04/18
<b>Allentown-Bethlehem-Easton Air Basin</b>												
Allentown	A19	212	98.7	3	.095	05/12	.091	07/22	.089	07/04	.083	07/01
Easton	A20	214	99.9	1	.101	07/22	.084	06/16	.084	06/24	.083	07/01
Freemansburg	A25	214	99.9	6	.105	07/22	.090	07/01	.088	06/16	.088	06/24
<b>Scranton-Wilkes-Barre Air Basin</b>												
Scranton	S01	212	99.1	0	.080	04/18	.080	07/04	.077	05/13	.073	07/22
Nanticoke	S26	213	99.4	0	.073	04/18	.073	05/13	.072	07/04	.068	06/24
Wilkes-Barre	S28	210	98.4	0	.081	04/18	.077	07/04	.074	05/13	.073	06/16
Peckville	S29	214	99.8	0	.079	07/04	.078	05/13	.077	04/18	.071	06/24
<b>Reading Air Basin</b>												
Reading	R01	211	99.3	1	.086	05/12	.080	07/02	.079	06/08	.076	04/18
<b>Harrisburg Air Basin</b>												
Harrisburg	H11	205	97.0	1	.085	07/02	.079	07/21	.078	04/18	.076	09/04
<b>Lancaster Air Basin</b>												
Lancaster	L01	212	99.1	1	.098	07/02	.084	05/12	.083	04/18	.081	06/09
<b>York Air Basin</b>												
York	Y01	214	99.9	1	.086	07/02	.078	07/22	.077	05/12	.077	08/03
<b>Southcentral Region Non-Air Basin</b>												
Perry County	305	196	95.5	0	.073	04/18	.072	07/02	.070	09/22	.069	04/30
Hershey	306	211	99.1	0	.084	07/02	.074	07/21	.073	05/12	.072	05/13
Methodist Hill	313	195	94.3	0	.076	07/21	.072	04/17	.072	09/22	.071	04/18
Biglerville	D14	209	98.1	0	.074	07/22	.073	04/18	.073	05/12	.072	04/17
Altoona	308	213	99.6	0	.075	04/17	.075	04/30	.074	07/02	.073	07/01

Primary 8 Hour National Ambient Air Quality Standard  
0.08 parts per million for 4th daily maximum averaged over 3 years

Appendix A: Table A-13b

Ozone Summary (8- hour)  
(Units: parts per million)

Year: 2004 (April – October)

Site Name	PA Site Code	Number of Valid Days	Percent Data Complete	Days > 0.84	1 <sup>st</sup> Daily Max		2 <sup>nd</sup> Daily Max		3rd Daily Max		4 <sup>th</sup> Daily Max	
					8 HR Mean	Date MM/DD	8 HR Mean	Date MM/DD	8 HR Mean	Date MM/DD	8 HR Mean	Date MM/DD
<b>Northcentral Region Non-Air Basin</b>												
Montoursville	410	205	95.8	0	.083	05/13	.080	04/18	.080	04/30	.074	06/24
State College	409	210	98.8	0	.079	07/02	.076	06/08	.074	04/17	.074	05/11
Moshannon (Elliott State Park)	D09	211	99.1	0	.079	04/17	.074	04/18	.074	04/30	.074	05/12
Tiadaghton	D10	196	92.1	0	.077	04/17	.077	04/30	.075	04/18	.073	06/24
Penn Nursery	D11	208	97.8	0	.075	04/17	.070	04/18	.070	07/02	.069	09/22
Tioga County	D13	203	95.2	0	.081	04/17	.080	04/30	.079	04/18	.079	05/13
<b>Johnstown Air Basin</b>												
Johnstown	J01	214	99.8	0	.077	04/17	.073	05/09	.072	04/30	.071	07/21
<b>Monongahela Valley Air Basin</b>												
Charleroi	M01	213	99.7	0	.080	08/02	.077	07/21	.075	07/01	.072	04/17
<b>Lower Beaver Valley Air Basin</b>												
Beaver Falls	B11	214	99.7	0	.072	07/03	.071	07/02	.069	07/29	.069	08/24
Hookstown	B23	211	98.9	0	.084	09/23	.082	09/22	.081	07/03	.081	09/13
Brighton Township	B27	213	99.7	0	.081	07/03	.079	09/22	.078	07/02	.074	09/13
<b>Allegheny County Air Basin</b>												
Pittsburgh	D12	213	99.7	0	.084	07/03	.080	08/02	.073	06/07	.072	07/21
<b>Southwest Region Non-Air Basin</b>												
Florence	504	202	95.3	0	.076	07/03	.076	08/02	.074	04/17	.073	07/01
Washington	508	213	99.8	0	.081	08/02	.076	07/03	.072	07/21	.071	07/01
Murrysville	510	211	99.3	0	.075	07/10	.071	07/02	.070	05/12	.070	08/02
Kittanning	512	213	99.7	1	.085	06/07	.084	07/01	.083	06/08	.082	05/13
Greensburg	513	208	97.9	0	.084	07/02	.080	08/03	.076	07/01	.073	07/10
Holbrook	514	205	97.0	0	.082	08/02	.076	09/22	.075	05/06	.075	05/09
<b>Upper Beaver Valley Air Basin</b>												
New Castle	B21	212	99.5	0	.078	07/03	.073	08/24	.070	07/02	.068	09/03
<b>Erie Air Basin</b>												
Erie	E10	213	99.4	0	.083	06/07	.079	05/12	.076	07/01	.074	05/13
<b>Northwest Region Non-Air Basin</b>												
Farrell	606	214	99.8	1	.086	07/01	.082	07/03	.076	04/17	.076	06/07

Primary 8 Hour National Ambient Air Quality Standard  
0.08 parts per million for 4th daily maximum averaged over 3 years

Table A-14. Ozone 1-Hour Exceedance Days in Pennsylvania – 2004

Date of Occurrence	Monitoring Site	County	Daily 1-Hour Concentration (ppb*)
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No sites exceeded the 1-Hour Ozone National Ambient Air Quality Standard in 2004

- 1-Hour Ozone National Ambient Air Quality Standard is 0.12 ppm or 125 ppb

Table A-15. One-Hour Ozone Exceedances and Maximums Summary (2002 – 2004)  
(Units: parts per billion)

Station	Design Value	2002					2003					2004				
		Days > 124	Daily Maximums				Days > 124	Daily Maximums				Days > 124	Daily Maximums			
			1st 1-Hr	2nd 1-Hr	3rd 1-Hr	4th 1-Hr		1st 1-Hr	2nd 1-Hr	3rd 1-Hr	4th 1-Hr		1st 1-Hr	2nd 1-Hr	3rd 1-Hr	4th 1-Hr
Bristol	125	4	143	135	126	125	0	121	121	119	103	0	99	98	95	93
Chester	123	2	131	125	124	123	0	119	118	99	96	0	109	109	93	92
Norristown	113	1	144	122	113	108	0	114	111	100	99	0	95	94	94	91
New Garden (Airport)	124	2	149	139	124	124	0	120	115	100	99	0	113	102	97	96
Northwest (Rox)	116	1	146	118	117	116	0	111	108	102	91	0	98	92	91	91
Northeast (Airport)	127	4	140	135	132	127	0	110	105	101	100	0	110	108	107	105
Southwest (Elm)	113	1	126	122	119	113	0	107	97	86	85	0	96	88	86	81
Frankford (Lab)	96	0	110	105	96	96	0	99	95	94	81	0	77	73	73	69
Allentown	110	0	117	114	110	107	0	112	109	97	94	0	103	101	100	100
Freemansburg	112	0	114	112	105	102	0	114	112	106	99	0	118	104	102	97
Easton	111	0	121	113	111	106	0	108	107	105	95	0	111	104	95	94
Reading	113	0	116	113	113	111	1	125	94	91	88	0	98	89	87	85
Scranton	99	1	134	122	99	98	0	101	99	88	86	0	92	88	85	79
Peckville	104	1	137	122	106	104	0	100	97	91	83	0	88	85	83	79
Nanticoke	108	0	117	112	112	108	0	100	97	96	91	0	81	79	78	77
Wilkes-Barre	106	0	121	119	107	106	0	102	98	89	86	0	90	88	84	82
Harrisburg	111	2	128	126	113	111	0	109	89	88	84	0	98	92	90	88
Hershey	109	2	138	132	109	109	0	122	99	91	90	0	94	84	84	84
Perry County	98	0	118	110	106	98	0	97	95	94	92	0	88	81	80	78
Lancaster	115	0	124	115	112	110	1	135	115	94	93	0	107	97	96	94
York	114	1	134	124	114	112	0	115	114	101	93	0	100	91	91	90
Biglerville (PSU)	103	0	117	104	103	102	0	103	102	81	81	0	91	79	79	78
Methodist Hill	114	0	115	115	114	114	0	110	101	85	85	0	78	78	78	77
Montoursville	103	0	118	112	103	102	0	112	102	95	95	0	98	91	86	85
Tiadaghton (PSU)	98	0	103	101	99	95	0	98	94	90	83	0	81	80	80	79
Tioga County (PSU)	102	0	119	118	98	97	0	111	102	94	86	0	88	85	84	84
State College (PSU)	105	0	109	108	106	104	0	105	100	96	88	0	83	81	80	79
Penn Nursery (PSU)	109	0	114	113	105	102	0	111	109	99	97	0	81	78	75	74
Altoona	102	0	117	102	102	100	1	127	104	92	91	0	83	83	81	80
Johnstown	104	0	107	106	104	101	0	113	98	93	89	0	82	81	80	79
Moshannon (PSU)	104	0	107	106	104	102	0	107	103	97	91	0	83	82	81	79
Greensburg	115	0	120	119	107	106	1	126	115	110	100	0	100	94	91	85
Murrysville	108	0	113	110	108	105	1	125	100	95	94	0	96	92	82	80
Kittanning	116	0	122	122	116	110	0	120	109	103	93	0	96	93	93	91
Brighton Twp	117	0	120	118	117	114	1	126	107	100	94	0	94	85	85	83
Beaver Falls	111	0	115	112	111	109	1	133	107	100	89	0	86	85	83	79
Hookstown	115	0	116	115	115	113	1	125	111	111	96	0	94	90	89	87
Florence	107	0	116	114	107	107	1	133	107	98	91	0	87	83	83	82
Charleroi	119	1	125	119	106	105	1	135	124	110	101	0	89	85	82	81
Washington	112	1	126	112	104	103	0	122	118	102	95	0	94	86	81	79
Holbrook	107	0	118	113	107	100	0	117	106	91	86	0	89	82	81	80
Pittsburgh (Carnegie SC)	115	0	119	119	115	114	1	135	110	105	101	0	95	94	85	80
Harrison Twp	118	0	123	120	118	116	0	122	114	91	89	0	94	91	88	87
Lawrenceville	110	0	115	114	110	109	1	130	109	104	102	0	89	86	83	81
South Fayette	109	0	109	106	104	104	1	132	112	109	103	0	102	93	82	80
New Castle	103	0	113	103	101	99	1	131	106	97	88	0	85	83	81	77
Farrell	117	0	120	118	117	114	0	120	116	109	96	0	91	88	87	82
Erie	110	0	122	114	110	107	0	116	108	105	99	0	91	89	87	84



Table A-16. Eight-Hour Ozone Days Greater Than 84 ppb and Maximums Summary (2002 – 2004)  
(Units: parts per billion)

Station	Design Value	2002					2003					2004				
		Days > 84	1st 8-Hr	2nd 8-Hr	3rd 8-Hr	4th 8-Hr	Days > 84	1st 8-Hr	2nd 8-Hr	3rd 8-Hr	4th 8-Hr	Days > 84	1st 8-Hr	2nd 8-Hr	3rd 8-Hr	4th 8-Hr
Bristol	93	17	124	113	113	111	9	110	109	97	87	2	88	88	84	82
Chester	86	16	108	106	105	103	3	108	106	89	80	2	90	87	84	77
Norristown	88	12	102	101	98	96	4	107	103	90	85	1	85	84	84	83
New Garden (Airport)	91	23	123	112	111	104	4	112	112	88	85	5	95	88	87	85
Northwest (Rox)	86	13	104	103	99	98	2	102	101	84	84	0	83	83	78	77
Northeast (Airport)	95	22	117	116	114	110	4	104	96	87	86	6	94	92	91	91
Southwest (Elm)	79	13	101	98	95	94	2	98	92	75	70	0	80	79	79	73
Frankford (Lab)	69	0	84	82	82	82	2	92	85	77	69	0	64	62	59	57
Allentown	88	16	108	108	97	94	4	107	102	89	87	3	95	91	89	83
Freemansburg	88	12	106	105	91	90	4	108	106	89	87	6	105	90	88	88
Easton	86	13	106	99	94	92	3	100	99	86	83	1	101	84	84	83
Reading	83	13	104	102	97	95	3	106	91	85	80	1	86	80	79	76
Scranton	79	8	106	95	95	89	2	94	88	76	75	0	80	80	77	73
Peckville	80	14	117	104	101	94	2	93	88	79	75	0	79	78	77	71
Nanticoke	78	6	108	104	94	89	3	90	88	85	77	0	73	73	72	68
Wilkes-Barre	81	7	111	109	96	92	2	94	93	80	78	0	81	77	74	73
Harrisburg	82	11	112	108	99	98	2	96	86	80	74	1	85	79	78	76
Hershey	81	13	120	116	97	94	2	108	93	82	79	0	84	74	73	72
Perry County	80	7	110	103	90	88	3	92	88	86	84	0	73	72	70	69
Lancaster	86	18	118	104	97	96	3	121	109	88	83	1	98	84	83	81
York	86	12	106	106	103	101	3	107	104	91	81	1	86	78	77	77
Methodist Hill	85	27	108	106	104	104	3	95	90	85	80	0	76	72	72	71
Biglerville (PSU)	80	7	106	99	94	93	2	99	98	78	76	0	74	73	73	72
Montoursville	82	7	110	99	93	91	3	100	90	87	83	0	83	80	80	74
Tiadaghton (PSU)	77	3	92	88	85	84	2	91	87	81	76	0	77	77	75	73
Tioga County (PSU)	85	8	105	99	97	93	3	99	94	85	84	0	81	80	79	79
State College (PSU)	82	8	101	100	92	90	3	99	96	89	82	0	79	76	74	74
Penn Nursery (PSU)	84	12	106	103	92	91	4	107	106	93	93	0	75	70	70	69
Altoona	81	9	108	93	89	89	3	104	96	87	83	0	75	75	74	73
Johnstown	80	6	97	90	89	88	2	101	90	84	83	0	77	73	72	71
Moshannon (PSU)	85	13	100	97	95	95	4	102	97	87	87	0	79	74	74	74
Greensburg	87	10	107	100	100	98	4	110	102	92	91	0	84	80	76	73
Murrysville	81	9	100	97	92	91	2	110	90	84	83	0	75	71	70	70
Kittanning	88	15	115	104	103	97	5	113	103	87	86	1	85	84	83	82
Brighton Twp	87	23	107	107	106	104	3	120	100	94	83	0	81	79	78	74
Beaver Falls	81	9	100	99	99	96	3	121	92	92	78	0	72	71	69	69
Hookstown	90	19	107	105	105	103	6	121	106	100	87	0	84	82	81	81
Florence	82	17	109	98	97	96	3	121	98	91	78	0	76	76	74	73
Charleroi	84	14	108	97	97	93	4	107	101	90	88	0	80	77	75	72
Washington	82	9	107	99	91	88	5	114	104	90	88	0	81	76	72	71
Holbrook	84	9	108	99	99	94	3	105	100	87	83	0	82	76	75	75
Pittsburgh (Carnegie SC)	86	25	114	108	105	100	5	122	103	90	88	0	84	80	73	72
Harrison Twp	87	14	110	106	105	105	2	111	107	83	81	0	81	79	78	76
Lawrenceville	87	16	107	102	100	100	5	122	105	92	90	0	77	74	73	72
South Fayette	87	17	105	99	99	98	4	121	105	94	89	1	89	80	75	74
New Castle	77	6	97	95	89	87	2	122	85	83	77	0	78	73	70	68
Farrell	88	20	106	105	105	103	6	112	105	90	87	1	86	82	76	76
Erie	87	17	103	102	101	98	4	109	103	100	91	0	83	79	76	74

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Appendix A: Table A-17

Ozone Historical Trend  
(Units: parts per million)

Station / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b>Southeast Pennsylvania Air Basin</b>											
Bristol P01	0.137 5 0.111 23	0.120 1 0.093 10	0.119 1 0.102 14	0.115 0 0.096 17	0.145 6 0.112 24	0.121 1 0.099 14	0.131 2 0.104 16	0.135 4 0.111 17	0.121 0 0.087 9	0.098 0 0.082 2	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
Chester P11	0.126 2 0.108 15	0.117 0 0.091 7	0.127 3 0.101 19	0.125 2 0.099 17	0.130 3 0.100 19	0.117 0 0.091 7	0.108 1 0.093 12	0.125 2 0.103 16	0.118 0 0.080 3	0.109 0 0.081 2	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
Norristown P21	0.114 1 0.096 13	0.118 0 0.090 8	0.131 2 0.107 19	0.126 2 0.103 17	0.126 2 0.104 20	0.125 2 0.100 11	0.120 1 0.096 18	0.122 1 0.096 12	0.111 0 0.085 4	0.094 0 0.083 1	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
New Garden P30	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	0.095 0 0.077 1	0.122 0 0.105 17	0.139 2 0.104 23	0.115 0 0.085 4	0.102 0 0.085 5	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
West Chester P32	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	0.117 0 0.103 20	0.113 1 0.097 19	0.110 0 0.085 4	*** *** *** ***	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
<b>Allentown-Bethlehem-Easton Air Basin</b>											
Allentown A19	0.109 0 0.091 7	0.114 0 0.094 6	0.116 1 0.101 12	0.106 0 0.095 18	0.125 2 0.105 19	0.112 0 0.091 5	0.126 2 0.094 9	0.114 0 0.094 16	0.109 0 0.087 4	0.101 0 0.083 3	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
Easton A20	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	0.100 0 0.083 2	0.113 0 0.092 11	0.113 0 0.092 13	0.107 0 0.083 3	0.104 0 0.083 1	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
Freemansburg A25	*** *** *** ***	*** *** *** ***	*** *** *** ***	0.104 0 0.087 5	0.126 2 0.107 22	0.114 1 0.092 6	0.113 0 0.094 14	0.112 0 0.090 12	0.112 0 0.087 4	0.104 0 0.088 6	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm

? indicates less than 75 percent valid data for year  
\*\*\* indicates less than 50 percent valid data for year

Appendix A: Table A-17

Ozone Historical Trend  
(Units: parts per million)

Station / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b>Scranton-Wilkes-Barre Air Basin</b>											
Scranton S01	0.105	0.108	0.095	0.108	0.107	0.082	0.097	0.122	0.099	0.088	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm
	0	0	0	0	0	0	0	1	0	0	4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
	0.091	0.083	0.085	0.088	0.093	0.073	0.088	0.089	0.075	0.073	
	8	3	4	5	11	1	5	8	2	0	
Nanticoke S26	0.100	0.087	0.091	0.098	0.102	0.093	0.104	0.112	0.097	0.079	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm
	0	0	0	0	0	0	0	0	0	0	4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
	0.081	0.075	0.079	0.081	0.086	0.076	0.086	0.089	0.077	0.068	
	3	0	0	2	4	1	5	6	3	0	
Wilkes-Barre S28	0.105	0.105	0.111	0.102	0.111	0.086	0.100	0.119	0.098	0.088	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm
	0	0	0	0	0	0	0	0	0	0	4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
	0.089	0.085	0.096	0.088	0.093	0.073	0.088	0.092	0.087	0.073	
	10	4	8	7	9	1	7	7	2	0	
Peckville S29	0.110	0.113	0.106	0.105	0.115	0.090	0.099	0.122	0.097	0.085	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm
	0	0	0	0	0	0	0	1	0	0	4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
	0.089	0.082	0.087	0.089	0.096	0.077	0.086	0.094	0.075	0.071	
	6	3	6	5	11	1	5	14	2	0	
<b>Reading Air Basin</b>											
Reading R01	0.116	0.110	0.120	0.106	0.123	0.105	0.125	0.113	0.094	0.089	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm
	0	0	1	0	1	0	2	0	1	0	4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
	0.095	0.088	0.095	0.092	0.102	0.084	0.099	0.095	0.080	0.076	
	11	4	10	16	14	3	8	13	3	1	
<b>Harrisburg Air Basin</b>											
Harrisburg H11	0.099	0.096	0.112	0.116	0.114	0.101	0.099	0.126	0.089	0.092	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm
	0	0	0	0	0	0	0	2	0	0	4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
	0.084	0.078	0.084	0.097	0.095	0.079	0.086	0.098	0.074	0.076	
	3	3	3	22	15	3	7	11	2	1	
<b>Lancaster Air Basin</b>											
Lancaster L01	0.124	0.101	0.133	0.119	0.127	0.107	0.127	0.115	0.115	0.097	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm
	1	0	3	0	2	0	2	0	1	0	4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
	0.102	0.085	0.102	0.101	0.102	0.090	0.097	0.096	0.083	0.081	
	18	4	21	27	18	5	15	18	3	1	
<b>York Air Basin</b>											
York Y01	0.097	0.098	0.109	0.112	0.121	0.112	0.104	0.124	0.114	0.091	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm
	0	0	0	0	1	0	0	1	0	0	4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
	0.086	0.081	0.094	0.095	0.094	0.090	0.087	0.101	0.081	0.077	
	6	3	13	18	10	6	8	12	3	1	

? indicates less than 75 percent valid data for year  
\*\*\* indicates less than 50 percent valid data for year

Appendix A: Table A-17

Ozone Historical Trend  
(Units: parts per million)

Station / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b>Southcentral Region Non-Air Basin</b>											
Perry County 305	0.103 0 0.085 4	0.090 0 0.077 1	0.103 0 0.090 7	0.110 0 0.092 8	0.106 0 0.090 13	0.099 0 0.073 2	0.102 0 0.089 10	0.110 0 0.088 7	0.095 0 0.084 3	0.081 0 0.069 0	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
Hershey 306	0.113 0 0.090 9	0.104 0 0.084 3	0.116 0 0.092 9	0.111 0 0.088 9	0.126 2 0.104 15	0.110 0 0.088 5	0.105 0 0.091 12	0.132 2 0.094 13	0.099 0 0.079 2	0.084 0 0.072 0	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
Kutztown 310	0.107 0 0.091 7	0.100 0 0.083 2	0.109 0 0.089 6	0.104 0 0.090 14	0.128 2 0.099 12	0.101 0 0.075 2	0.119 0 0.091 7	0.106 0 0.091 11	0.084 0 0.072 1		2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
Methodist Hill 313	*** *** *** ***	0.096 0 0.082 3	0.114 0 0.091 7	0.120 0 0.104 22	0.115 0 0.098 20	0.100 0 0.085 4	0.104 0 0.095 15	0.115 0 0.104 27	0.085 0 0.080 3	0.078 0 0.071 0	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
Biglerville D14	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	0.096 0 0.088 7	0.104 0 0.093 7	0.102 0 0.076 2	0.079 0 0.072 0	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
Altoona 308	0.112 0 0.091 8	0.101 0 0.083 2	0.114 0 0.096 7	0.114 0 0.098 17	0.111 0 0.091 6	0.104 0 0.080 2	0.107 0 0.083 3	0.102 0 0.089 9	0.104 1 0.083 3	0.083 0 0.073 0	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
<b>Northcentral Region Non-Air Basin</b>											
Montoursville 410	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	0.112 0 0.091 7	0.102 0 0.083 3	0.091 0 0.074 0	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
State College 409	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	*** *** *** ***	0.102 0 0.079 2	0.101 0 0.086 5	0.108 0 0.090 8	0.100 0 0.082 3	0.081 0 0.074 0	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm
Moshannon (Elliott State Park) D09	*** *** *** ***	0.079? 0 0.070? 0	0.117 0 0.098 12	0.116 1 0.101 16	0.092 0 0.081 1	0.105 0 0.079 2	0.102 0 0.089 8	0.106 0 0.095 13	0.103 0 0.087 4	0.082 0 0.074 0	2 <sup>nd</sup> Max Daily 1 Hour Average Number Days 1-Hr > 0.124 ppm 4 <sup>th</sup> Max Daily 8 Hour Average Number Days 8-Hr > 0.084 ppm

? indicates less than 75 percent valid data for year  
\*\*\* indicates less than 50 percent valid data for year

Appendix A: Table A-17

Ozone Historical Trend  
(Units: parts per million)

Station / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
Tiadaghton D10	***	***	0.075	0.099	0.091	0.092	0.089	0.101	0.094	0.080	2 <sup>nd</sup> Max Daily 1 Hour Average
	***	***	0	0	0	0	0	0	0	0	Number Days 1-Hr > 0.124 ppm
	***	***	0.060	0.084	0.076	0.073	0.080	0.084	0.076	0.073	4 <sup>th</sup> Max Daily 8 Hour Average
	***	***	0	3	0	1	1	3	2	0	Number Days 8-Hr > 0.084 ppm
Penn Nursery D11	***	0.102?	0.124	0.113	0.099	0.109	0.091	0.113	0.109	0.078	2 <sup>nd</sup> Max Daily 1 Hour Average
	***	0	1	0	0	0	0	0	0	0	Number Days 1-Hr > 0.124 ppm
	***	0.073?	0.094	0.092	0.085	0.075	0.082	0.091	0.093	0.069	4 <sup>th</sup> Max Daily 8 Hour Average
	***	1	7	8	4	2	1	12	4	0	Number Days 8-Hr > 0.084 ppm
Tioga County D13	***	***	***	***	0.093?	0.103	0.094	0.118	0.102	0.085	2 <sup>nd</sup> Max Daily 1 Hour Average
	***	***	***	***	0	0	0	0	0	0	Number Days 1-Hr > 0.124 ppm
	***	***	***	***	0.082?	0.078	0.083	0.093	0.084	0.079	4 <sup>th</sup> Max Daily 8 Hour Average
	***	***	***	***	2	2	3	8	3	0	Number Days 8-Hr > 0.084 ppm
<b>Johnstown Air Basin</b>											
Johnstown J01	0.104	0.124	0.107	0.104	0.106	0.106	0.106	0.098	0.098	0.081	2 <sup>nd</sup> Max Daily 1 Hour Average
	1	1	0	0	0	0	0	0	0	0	Number Days 1-Hr > 0.124 ppm
	0.092	0.098	0.090	0.086	0.090	0.088	0.088	0.083	0.083	0.071	4 <sup>th</sup> Max Daily 8 Hour Average
	7	13	11	5	5	6	6	2	2	0	Number Days 8-Hr > 0.084 ppm
<b>Monongahela Valley Air Basin</b>											
Charleroi M01	0.116	0.102	0.118	0.127	0.115	0.110	0.112	0.119	0.124	0.085	2 <sup>nd</sup> Max Daily 1 Hour Average
	0	0	0	3	0	0	0	1	1	0	Number Days 1-Hr > 0.124 ppm
	0.096	0.090	0.099	0.108	0.096	0.080	0.087	0.093	0.088	0.072	4 <sup>th</sup> Max Daily 8 Hour Average
	16	5	14	34	11	3	7	14	4	0	Number Days 8-Hr > 0.084 ppm
<b>Lower Beaver Valley Air Basin</b>											
Beaver Falls B11	0.106	0.105	0.101	0.116	0.131	0.099	0.109	0.112	0.107	0.085	2 <sup>nd</sup> Max Daily 1 Hour Average
	0	0	0	0	2	0	0	0	1	0	Number Days 1-Hr > 0.124 ppm
	0.084	0.085	0.085	0.098	0.087	0.084	0.086	0.096	0.078	0.069	4 <sup>th</sup> Max Daily 8 Hour Average
	3	4	5	6	3	14	4	9	3	0	Number Days 8-Hr > 0.084 ppm
Hookstown B23	0.102?	0.104	0.098	0.113	0.116	0.095	0.101	0.115	0.111	0.090	2 <sup>nd</sup> Max Daily 1 Hour Average
	0	0	0	0	0	0	0	0	1	0	Number Days 1-Hr > 0.124 ppm
	0.085?	0.090	0.086	0.095	0.095	0.077	0.092	0.103	0.087	0.081	4 <sup>th</sup> Max Daily 8 Hour Average
	4	6	4	11	9	1	9	19	6	0	Number Days 8-Hr > 0.084 ppm
Brighton Township B27	0.098	0.099	0.096	0.113	0.132	0.096	0.103	0.118	0.107	0.085	2 <sup>nd</sup> Max Daily 1 Hour Average
	0	0	0	0	2	0	0	0	1	0	Number Days 1-Hr > 0.124 ppm
	0.089	0.083	0.082	0.092	0.101	0.077	0.089	0.104	0.083	0.074	4 <sup>th</sup> Max Daily 8 Hour Average
	5	3	3	15	11	1	8	23	3	0	Number Days 8-Hr > 0.084 ppm

? indicates less than 75 percent valid data for year  
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Appendix A: Table A-17

Ozone Historical Trend  
(Units: parts per million)

Station / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b>Allegheny County Air Basin</b>											
Pittsburgh	***	***	***	0.105	0.120	0.111	0.112	0.119	0.110	0.094	2 <sup>nd</sup> Max Daily 1 Hour Average
D12	***	***	***	0	1	0	0	0	1	0	Number Days 1-Hr > 0.124 ppm
	***	***	***	0.089	0.099	0.086	0.093	0.100	0.088	0.072	4 <sup>th</sup> Max Daily 8 Hour Average
	***	***	***	6	16	4	9	25	5	0	Number Days 8-Hr > 0.084 ppm
<b>Southwest Region Non-Air Basin</b>											
Florence	0.104	0.092	0.111	0.109	0.110	0.098	0.106	0.114	0.107	0.083	2 <sup>nd</sup> Max Daily 1 Hour Average
504	0	0	0	0	0	0	0	0	1	0	Number Days 1-Hr > 0.124 ppm
	0.085	0.084	0.085	0.094	0.096	0.080	0.089	0.096	0.078	0.073	4 <sup>th</sup> Max Daily 8 Hour Average
	6	2	4	11	9	2	7	17	3	0	Number Days 8-Hr > 0.084 ppm
Washington	0.111	0.103	0.107	0.112	0.106	0.105	0.109	0.112	0.118	0.086	2 <sup>nd</sup> Max Daily 1 Hour Average
508	0	0	0	0	0	0	0	1	0	0	Number Days 1-Hr > 0.124 ppm
	0.088	0.084	0.088	0.095	0.090	0.080	0.090	0.088	0.088	0.071	4 <sup>th</sup> Max Daily 8 Hour Average
	6	3	6	15	11	3	6	9	5	0	Number Days 8-Hr > 0.084 ppm
Murrysville	0.127	0.104	0.123	0.101	0.115	0.103	0.097	0.110	0.100	0.092	2 <sup>nd</sup> Max Daily 1 Hour Average
510	3	0	1	0	1	0	0	0	1	0	Number Days 1-Hr > 0.124 ppm
	0.096	0.081	0.088	0.082	0.087	0.076	0.078	0.091	0.083	0.070	4 <sup>th</sup> Max Daily 8 Hour Average
	7	2	4	3	5	2	1	9	2	0	Number Days 8-Hr > 0.084 ppm
Kittanning	***	***	***	0.113	0.121	0.103	0.119	0.122	0.109	0.093	2 <sup>nd</sup> Max Daily 1 Hour Average
512	***	***	***	0	1	0	1	0	0	0	Number Days 1-Hr > 0.124 ppm
	***	***	***	0.100	0.100	0.079	0.098	0.097	0.086	0.082	4 <sup>th</sup> Max Daily 8 Hour Average
	***	***	***	21	18	2	16	15	5	1	Number Days 8-Hr > 0.084 ppm
Greensburg	***	***	***	***	0.125	0.097	0.100	0.119	0.115	0.094	2 <sup>nd</sup> Max Daily 1 Hour Average
513	***	***	***	***	2	0	0	0	1	0	Number Days 1-Hr > 0.124 ppm
	***	***	***	***	0.099	0.076	0.084	0.098	0.091	0.073	4 <sup>th</sup> Max Daily 8 Hour Average
	***	***	***	***	16	3	3	10	4	0	Number Days 8-Hr > 0.084 ppm
Holbrook	***	***	0.123?	0.110?	0.116	0.106	0.099	0.113	0.106	0.082	2 <sup>nd</sup> Max Daily 1 Hour Average
514	***	***	0	0	0	0	0	0	0	0	Number Days 1-Hr > 0.124 ppm
	***	***	0.092?	0.100?	0.101	0.087	0.090	0.094	0.083	0.075	4 <sup>th</sup> Max Daily 8 Hour Average
	***	***	10	16	21	6	12	9	3	0	Number Days 8-Hr > 0.084 ppm
<b>Upper Beaver Valley Air Basin</b>											
New Castle	0.101	0.097	0.109	0.096	0.105	0.090	0.099	0.103	0.106	0.083	2 <sup>nd</sup> Max Daily 1 Hour Average
B21	0	0	0	0	1	0	0	0	1	0	Number Days 1-Hr > 0.124 ppm
	0.083	0.084	0.086	0.077	0.088	0.069	0.079	0.087	0.077	0.068	4 <sup>th</sup> Max Daily 8 Hour Average
	3	2	4	2	5	0	1	6	2	0	Number Days 8-Hr > 0.084 ppm

? indicates less than 75 percent valid data for year  
 \*\*\* indicates less than 50 percent valid data for year

Appendix A: Table A-17

Ozone Historical Trend  
(Units: parts per million)

Station / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b><i>Erie Air Basin</i></b>											
Erie	0.105	0.100	0.103	0.122	0.112	0.095	0.104	0.114	0.108	0.089	2 <sup>nd</sup> Max Daily 1 Hour Average
E10	0	0	0	1	0	0	0	0	0	0	Number Days 1-Hr > 0.124 ppm
	0.088	0.083	0.087	0.098	0.096	0.078	0.089	0.098	0.091	0.074	4 <sup>th</sup> Max Daily 8 Hour Average
	8	3	6	12	13	2	4	17	4	0	Number Days 8-Hr > 0.084 ppm
<b><i>Northwest Region Non-Air Basin</i></b>											
Farrell	0.113	0.103	0.111	0.121	0.108	0.098	0.113	0.118	0.116	0.088	2 <sup>nd</sup> Max Daily 1 Hour Average
606	0	0	0	1	0	0	0	0	0	0	Number Days 1-Hr > 0.124 ppm
	0.095	0.090	0.092	0.106	0.091	0.081	0.094	0.103	0.087	0.076	4 <sup>th</sup> Max Daily 8 Hour Average
	9	9	9	24	8	2	15	20	6	1	Number Days 8-Hr > 0.084 ppm

? indicates less than 75 percent valid data for year  
 \*\*\* indicates less than 50 percent valid data for year



Appendix A: Table A-18

Nitrogen Dioxide Summary  
(Units: parts per million)

Year: 2004

Site Name	PA Site Code	Percent Valid Data	Annual Mean	1 <sup>st</sup> Max		2 <sup>nd</sup> Max		3 <sup>rd</sup> Max		4 <sup>th</sup> Max	
				1 HR Mean	Date MM/DD	1 HR Mean	Date MM/DD	1 HR Mean	Date MM/DD	1 HR Mean	Date MM/DD
<b>Southeast Pennsylvania Air Basin</b>											
Bristol	P01	97.3	0.016	0.061	09/13	0.054	09/23	0.052	09/13	0.051	02/17
Chester	P11	98.5	0.018	0.061	04/19	0.061	09/23	0.060	03/01	0.058	03/01
Norristown	P21	97.7	0.014	0.070	12/30	0.060	10/08	0.059	12/22	0.058	03/01
<b>Allentown-Bethlehem-Easton Air Basin</b>											
Allentown	A19	98.8	0.013	0.052	02/20	0.052	02/24	0.052	03/01	0.051	03/01
Freemansburg	A25	96.2	0.014	0.052	03/26	0.049	02/02	0.049	05/11	0.049	09/22
<b>Scranton-Wilkes-Barre Air Basin</b>											
Scranton	S01	98.4	0.012	0.052	03/01	0.050	05/06	0.049	05/06	0.049	12/22
Wilkes-Barre	S28	97.6	0.012	0.052	03/30	0.050	04/02	0.047	04/17	0.046	04/17
<b>Reading Air Basin</b>											
Reading	R01	98.1	0.017	0.069	03/01	0.067	02/10	0.067	03/01	0.063	04/17
<b>Harrisburg Air Basin</b>											
Harrisburg	H11	99.3	0.015	0.071	03/01	0.070	03/01	0.067	02/17	0.066	03/01
<b>Lancaster Air Basin</b>											
Lancaster	L01	96.0	0.014	0.058	02/02	0.056	10/08	0.053	10/08	0.051	02/10
<b>York Air Basin</b>											
York	Y01	99.3	0.016	0.075	11/15	0.074	02/10	0.065	02/10	0.064	02/02
<b>Southcentral Region Non-Air Basin</b>											
Perry County	305	98.7	0.005	0.034	02/02	0.034	03/01	0.032	02/02	0.032	02/17
Arendtsville	314	55.7	0.004?	0.030	04/09	0.028	04/09	0.027	04/09	0.026	04/13
Altoona	308	99.0	0.012	0.077	02/18	0.063	02/02	0.062	03/01	0.062	08/08
<b>Northcentral Region Non-Air Basin</b>											
State College	408	98.7	0.009	0.054	02/02	0.052	02/17	0.051	02/17	0.049	03/19
<b>Johnstown Air Basin</b>											
Johnstown	J01	98.7	0.013	0.049	02/06	0.049	02/06	0.049	03/01	0.049	04/07
<b>Monogahela Valley Air Basin</b>											
Charleroi	M01	99.1	0.012	0.048	02/02	0.045	02/02	0.045	03/25	0.045	12/22
<b>Lower Beaver Valley Air Basin</b>											
Beaver Falls	B11	99.0	0.015	0.063	03/01	0.063	11/16	0.061	03/01	0.059	02/20

Primary Annual National Ambient Air Quality Standard of 0.053 parts per million

? indicates that the annual mean does not meet the summary criteria for completeness

Appendix A: Table A-18

Nitrogen Dioxide Summary  
(Units: parts per million)

Year: 2004

Site Name	PA Site Code	Percent Valid Data	Annual Mean	1 <sup>st</sup> Max		2 <sup>nd</sup> Max		3 <sup>rd</sup> Max		4 <sup>th</sup> Max		
				1 HR Mean	Date MM/DD	1 HR Mean	Date MM/DD	1 HR Mean	Date MM/DD	1 HR Mean	Date MM/DD	
<b><i>Allegheny County Air Basin</i></b>												
Pittsburgh	D12	98.4	0.021	0.084	07/02	0.081	11/15	0.078	03/01	0.078	11/15	
<b><i>Southwest Region Non-Air Basin</i></b>												
Florence	504	98.0	0.006	0.036	03/14	0.035	03/04	0.034	03/14	0.033	12/09	
Washington	508	98.7	0.013	0.057	03/25	0.056	02/02	0.054	03/25	0.053	02/02	
Greensburg	513	96.4	0.013	0.054	02/20	0.053	03/25	0.049	02/12	0.048	03/25	
<b><i>Upper Beaver Valley Air Basin</i></b>												
New Castle	B21	99.2	0.016	0.052	02/06	0.051	02/02	0.050	04/29	0.049	02/02	
<b><i>Erie Air Basin</i></b>												
Erie	E10	96.9	0.012	0.067	09/22	0.064	09/22	0.062	09/22	0.058	02/20	

Primary Annual National Ambient Air Quality Standard of 0.053 parts per million

? indicates that the annual mean does not meet the summary criteria for completeness

Appendix A: Table A-19

Nitrogen Dioxide Historical Trend  
Annual Means  
(Units: Parts Per Million)

Site Name	PA Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
<b>Southeast Pennsylvania Air Basin</b>											
Bristol	P01	0.020	0.021	0.020	0.018	0.018	0.017	0.018	0.016	0.016	0.016
Chester	P11	0.020	0.021	0.020	0.019	0.017	0.019	0.019	0.018	0.018	0.018
Norristown	P21	0.020	0.021	0.019	0.019	0.016	0.018	0.017	0.015	0.017	0.014
<b>Allentown-Bethlehem-Easton Air Basin</b>											
Allentown	A19	0.018	0.018	0.016	0.016	0.015	0.013	0.017	0.014	0.015	0.013
Freemansburg	A25	***	***	***	0.017	0.017	0.017	0.016	0.013	0.013	0.014
<b>Scranton-Wilkes-Barre Air Basin</b>											
Scranton	S01	0.018	0.018	0.018	0.016	0.014	0.015	0.015	0.014	0.014	0.012
Wilkes-Barre	S28	0.014	0.018	0.015	0.015	0.015	0.014	0.014	0.013	0.013	0.012
<b>Reading Air Basin</b>											
Reading	R01	0.021	0.022	0.021	0.021	0.021	0.020	0.020	0.019	0.018	0.017
<b>Harrisburg Air Basin</b>											
Harrisburg	H11	0.020	0.021	0.019	0.019	0.018	0.017	0.018	0.016	0.016	0.015
<b>Lancaster Air Basin</b>											
Lancaster	L01	0.016	0.017	0.016	0.015	0.015	0.014	0.014	0.013	0.015	0.014
<b>York Air Basin</b>											
York	Y01	0.021	0.021	0.019	0.019	0.019	0.018	0.020	0.017	0.017	0.016
<b>Southcentral Region Non-Air Basin</b>											
Perry County	305	0.007	0.009	0.007	0.006	0.006	0.007	0.006	0.006	0.006	0.005
Arendtsville	314	***	***	***	***	***	0.004?	0.004?	0.004?	0.004?	0.004?
Altoona	308	0.013	0.014	0.014	0.013	0.013	0.014	0.014	0.013	0.013	0.012
<b>Northcentral Region Non-Air Basin</b>											
State College	408	***	***	***	***	***	***	***	0.008	0.008	0.009
<b>Johnstown Air Basin</b>											
Johnstown	J01	0.015	0.018	0.016	0.015	0.015	0.015	0.014	0.012	0.013	0.013
<b>Monogahela Valley Air Basin</b>											
Charleroi	M01	0.017	0.017	0.016	0.016	0.015	0.014	0.013	0.013	0.012	0.012

Primary Annual National Ambient Air Quality Standard of 0.053 parts per million

? indicates that the annual mean does not meet the summary criteria for completeness

\*\*\* indicates less than 50 percent valid data for year

Appendix A: Table A-19

Nitrogen Dioxide Historical Trend  
Annual Means  
(Units: Parts Per Million)

Site Name	PA Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004
<b>Lower Beaver Valley Air Basin</b>											
Beaver Falls	B11	0.018	0.018	0.017	0.019	0.019	0.017	0.017	0.016	0.015	0.015
<b>Allegheny County Air Basin</b>											
Pittsburgh	D12	***	***	***	0.021	0.023	0.022	0.021	0.020	0.021	0.021
<b>Southwest Region Non-Air Basin</b>											
Florence	504	***	***	***	***	0.008	0.008	0.008	0.006	0.013	0.006
Washington	508	0.016	0.015	0.018	0.017	0.016	0.015	0.015	0.012	0.012	0.013
Greensburg	513	***	***	***	0.018	0.018	0.017	0.017	0.016	0.015	0.013
<b>Upper Beaver Valley Air Basin</b>											
New Castle	B21	0.019	0.024	0.020	0.019	0.020	0.019	0.017	0.016	0.016	0.016
<b>Erie Air Basin</b>											
Erie	E10	0.015	0.015	0.015	0.014	0.015	0.012	0.012	0.012	0.012	0.012

Primary Annual National Ambient Air Quality Standard of 0.053 parts per million

? indicates that the annual mean does not meet the summary criteria for completeness

\*\*\* indicates less than 50 percent valid data for year

## Appendix A: Table A-20

Oxides of Nitrogen Summary  
(Units: Parts Per Million)

Year: 2004

Site Name	PA Site Code	Percent Valid Data	Annual Mean	1 <sup>st</sup> Max		2 <sup>nd</sup> Max		3 <sup>rd</sup> Max		4 <sup>th</sup> Max	
				1 HR Mean	Date MM/DD	1 HR Mean	Date MM/DD	1 HR Mean	Date MM/DD	1 HR Mean	Date MM/DD
<b><i>Southeast Pennsylvania Air Basin</i></b>											
Bristol	P01	97.3	0.032	0.439	12/09	0.427	12/09	0.411	12/03	0.409	11/17
Chester	P11	98.5	0.031	0.424	12/22	0.368	12/22	0.342	12/22	0.333	03/24
Norristown	P21	97.7	0.025	0.437	12/22	0.436	12/22	0.413	12/30	0.362	12/29
<b><i>Allentown-Bethlehem-Easton Air Basin</i></b>											
Allentown	A19	99.2	0.022	0.269	12/22	0.268	12/22	0.265	12/22	0.240	12/22
Freemansburg	A25	96.2	0.026	0.325	12/22	0.314	12/22	0.275	12/22	0.257	12/22
<b><i>Scranton-Wilkes-Barre Air Basin</i></b>											
Scranton	S01	98.0	0.020	0.315	12/22	0.266	11/15	0.243	11/16	0.225	11/15
Wilkes-Barre	S28	97.6	0.023	0.252	12/22	0.241	12/22	0.215	11/16	0.214	11/16
<b><i>Reading Air Basin</i></b>											
Reading	R01	98.1	0.034	0.524	02/10	0.430	12/03	0.418	11/17	0.416	11/17
<b><i>Harrisburg Air Basin</i></b>											
Harrisburg	H11	99.3	0.029	0.438	12/30	0.430	12/30	0.427	11/19	0.402	11/19
<b><i>Lancaster Air Basin</i></b>											
Lancaster	L01	96.0	0.024	0.368	02/10	0.338	02/10	0.312	11/16	0.309	11/16
<b><i>York Air Basin</i></b>											
York	Y01	99.3	0.032	0.532	02/10	0.459	11/15	0.388	02/10	0.384	11/16
<b><i>Southcentral Region Non-Air Basin</i></b>											
Perry County	305	98.7	0.006	0.062	12/22	0.061	12/22	0.056	12/22	0.055	12/22
Arendtsville	314	55.7	0.004?	0.040	07/14	0.032	04/09	0.030	04/09	0.028	04/09
Altoona	308	99.0	0.021	0.348	02/18	0.243	02/18	0.226	11/15	0.224	11/16
<b><i>Northcentral Region Non-Air Basin</i></b>											
State College	408	98.4	0.012	0.203	12/02	0.142	02/17	0.142	12/09	0.130	12/02
<b><i>Johnstown Air Basin</i></b>											
Johnstown	J01	99.0	0.020	0.286	02/06	0.283	02/06	0.283	02/06	0.276	02/06
<b><i>Monogahela Valley Air Basin</i></b>											
Charleroi	M01	99.2	0.021	0.330	12/22	0.300	12/22	0.261	12/22	0.254	12/30

No Long- or Short-Term Air Quality Standards

? indicates that the annual mean does not meet the summary criteria for completeness

Appendix A: Table A-20

Oxides of Nitrogen Summary  
(Units: Parts Per Million)

Year: 2004

Site Name	PA Site Code	Percent Valid Data	Annual Mean	1 <sup>st</sup> Max		2 <sup>nd</sup> Max		3 <sup>rd</sup> Max		4 <sup>th</sup> Max	
				1 HR Mean	Date MM/DD	1 HR Mean	Date MM/DD	1 HR Mean	Date MM/DD	1 HR Mean	Date MM/DD
<b>Lower Beaver Valley Air Basin</b>											
Beaver Falls	B11	99.0	0.030	0.293	02/06	0.269	02/20	0.266	12/07	0.262	02/20
<b>Allegheny County Air Basin</b>											
Pittsburgh	D12	98.4	0.041	0.438	12/22	0.425	11/15	0.407	12/22	0.378	11/16
<b>Southwest Region Non-Air Basin</b>											
Florence	504	98.0	0.008	0.058	03/03	0.057	11/23	0.055	11/23	0.054	11/23
Washington	508	98.7	0.025	0.316	10/26	0.245	04/16	0.240	10/26	0.236	02/02
Greensburg	513	96.1	0.024	0.293	02/20	0.242	09/22	0.235	11/15	0.233	10/08
<b>Upper Beaver Valley Air Basin</b>											
New Castle	B21	99.4	0.028	0.492	02/06	0.473	02/06	0.469	02/06	0.399	02/06
<b>Erie Air Basin</b>											
Erie	E10	96.9	0.018	0.262	02/26	0.217	02/25	0.213	02/25	0.198	02/18

No Long- or Short-Term Air Quality Standards

? indicates that the annual mean does not meet the summary criteria for completeness

Appendix A: Table A-21

Carbon Monoxide Summary  
(Units: Parts Per Million)

Year: 2004

Site Name	PA Site Code	Percent Valid Data	Number 1 HR > 35	1 <sup>st</sup> Max		2 <sup>nd</sup> Max		Number 8 HR > 9	Running Average			
				1 HR Mean	Date MM/DD	1 HR Mean	Date MM/DD		8 HR Mean	Date MM/DD	8 HR Mean	Date MM/DD
<b>Southeast Pennsylvania Air Basin</b>												
Bristol	P01	98.0	0	3.3	11/17	3.2	11/15	0	2.4	12/03	2.2	11/17
Norristown	P21	97.6	0	2.1	12/22	1.9	08/28	0	1.5	12/29	1.4	08/29
<b>Allentown-Bethlehem-Easton Air Basin</b>												
Freemansburg	A25	98.8	0	2.6	11/16	2.4	11/17	0	1.8	11/10	1.7	11/10
<b>Scranton-Wilkes-Barre Air Basin</b>												
Scranton	S01	98.7	0	2.9	11/15	2.9	11/23	0	1.8	11/16	1.8	11/17
Wilkes-Barre	S27	96.5	0	2.7	11/15	2.4	11/17	0	1.8	11/18	1.8	12/22
<b>Northeast Region Non-Air Basin</b>												
Shenandoah	211	98.4	0	1.9	12/22	1.5	03/26	0	0.8	02/29	0.8	11/19
<b>Reading Air Basin</b>												
Reading	R01	99.2	0	3.4	02/10	2.5	02/29	0	2.1	02/29	1.8	12/29
<b>Harrisburg Air Basin</b>												
Harrisburg	H16	98.9	0	2.7	01/12	2.3	02/10	0	1.4	12/29	1.3	01/12
<b>Lancaster Air Basin</b>												
Lancaster	L01	99.0	0	3.7	12/10	3.2	12/07	0	1.9	11/17	1.6	12/08
<b>York Air Basin</b>												
York	Y01	96.0	0	3.4	11/16	2.8	11/19	0	2.0	11/17	1.8	11/19
<b>Southcentral Region Non-Air Basin</b>												
Arendtsville	314	58.1	0	2.0	10/18	1.7	10/31	0	1.7	10/18	1.6	10/31
Altoona	308	99.4	0	2.5	02/18	2.3	02/27	0	1.0	02/06	0.9	01/02
<b>Johnstown Air Basin</b>												
Johnstown	J01	98.7	0	3.4	02/06	2.0	12/30	0	3.2	02/06	2.1	02/06
<b>Monogahela Valley Air Basin</b>												
Charleroi	M01	97.6	0	1.8	02/02	1.8	03/31	0	1.6	03/28	1.4	02/02

Primary National Ambient Air Quality Standards  
1 Hour Mean = 35 parts per million  
8 Hour Running Mean = 9 parts per million

Appendix A: Table A-21

Carbon Monoxide Summary  
(Units: Parts Per Million)

Year: 2004

Site Name	PA Site Code	Percent Valid Data	Number 1 HR > 35	1 <sup>st</sup> Max		2 <sup>nd</sup> Max		Number 8 HR > 9	Running Average		2 <sup>nd</sup> Max	
				1 HR Mean	Date MM/DD	1 HR Mean	Date MM/DD		8 HR Mean	Date MM/DD	8 HR Mean	Date MM/DD
<b>Lower Beaver Valley Air Basin</b>												
Beaver Falls	B11	99.0	0	1.8	02/08	1.7	02/02	0	1.3	01/21	1.2	12/07
<b>Allegheny County Air Basin</b>												
Pittsburgh	D12	93.6	0	2.1	11/15	2.0	03/26	0	1.9	11/16	1.7	09/22
<b>Southwest Region Non-Air Basin</b>												
Greensburg	513	97.9	0	2.7	02/04	2.1	02/28	0	1.4	02/29	1.4	12/30
Holbrook	514	55.5	0	0.7	04/30	0.6	06/09	0	0.3	04/01	0.3	04/01
<b>Upper Beaver Valley Air Basin</b>												
New Castle	B21	99.4	0	5.1	02/06	2.8	02/20	0	3.2	02/06	1.8	12/22
<b>Erie Air Basin</b>												
Erie	E12	92.1	0	1.9	02/25	1.8	02/02	0	1.4	02/02	1.3	02/26

Primary National Ambient Air Quality Standards  
1 Hour Mean = 35 parts per million  
8 Hour Running Mean = 9 parts per million



Appendix A: Table A-22

Carbon Monoxide Historical Trend  
(Units: Parts Per Million)

Station / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b>Southeast Pennsylvania Air Basin</b>											
Bristol	9.2	6.3	6.8	5.2	6.6	4.3	4.0	4.3	4.5	3.2	2nd Maximum 1 Hour Mean
P01	5.0	4.7	3.8	3.5	3.7	3.6	3.1	2.4	2.8	2.2	2nd Maximum 8 Hour Mean
Norristown	4.8	3.5	3.2	2.9	3.1	2.8	2.5	2.7	2.4	1.9	2nd Maximum 1 Hour Mean
P21	4.1	2.9	2.2	1.8	1.9	1.7	1.7	2.3	1.8	1.4	2nd Maximum 8 Hour Mean
<b>Allentown-Bethlehem-Easton Air Basin</b>											
Freemansburg	***	***	***	3.4	4.4	5.5	3.1	2.3	2.3	2.4	2nd Maximum 1 Hour Mean
A25	***	***	***	2.4	3.0	2.4	2.4	1.8	1.4	1.7	2nd Maximum 8 Hour Mean
Allentown	7.3	5.3	4.8	5.0	5.5	4.1	4.0	4.4	***	***	2nd Maximum 1 Hour Mean
A51	4.8	3.2	2.7	2.9	3.2	2.6	3.3	2.3	***	***	2nd Maximum 8 Hour Mean
<b>Scranton-Wilkes-Barre Air Basin</b>											
Scranton	5.2	7.0	4.7	3.4	3.5	4.4	2.9	2.7	2.4	2.9	2nd Maximum 1 Hour Mean
S01	2.6	3.5	2.8	1.9	1.7	2.1	1.8	1.6	1.5	1.8	2nd Maximum 8 Hour Mean
Wilkes-Barre	5.7	7.4	4.6	7.0	4.2	3.8	2.8	5.1	3.2	2.4	2nd Maximum 1 Hour Mean
S27	3.0	4.1	3.3	3.1	3.0	2.2	2.3	2.6	2.3	1.8	2nd Maximum 8 Hour Mean
<b>Northeast Region Non-Air Basin</b>											
Shenandoah	***	***	2.3	3.7	2.9	2.6	2.0	2.3	2.8	1.5	2nd Maximum 1 Hour Mean
211	***	***	1.3	1.4	1.6	1.3	0.9	1.2	1.4	0.8	2nd Maximum 8 Hour Mean
<b>Reading Air Basin</b>											
Reading	***	***	***	4.7	4.6	3.8	3.8	4.1	3.2	2.5	2nd Maximum 1 Hour Mean
R01	***	***	***	3.2	2.8	2.3	2.2	2.2	2.0	1.8	2nd Maximum 8 Hour Mean
<b>Harrisburg Air Basin</b>											
Harrisburg	***	4.2	5.2	4.1	4.9	3.5	4.4	3.6	3.0	2.3	2nd Maximum 1 Hour Mean
H16	***	2.5	3.3	3.0	4.3	2.1	2.8	2.3	2.0	1.3	2nd Maximum 8 Hour Mean
<b>Lancaster Air Basin</b>											
Lancaster	4.4	3.6	5.1	3.4	3.1	3.0	2.9	3.0	2.7	3.2	2nd Maximum 1 Hour Mean
L01	2.4	2.6	3.3	1.9	2.5	1.9	2.2	2.2	1.7	1.6	2nd Maximum 8 Hour Mean
<b>York Air Basin</b>											
York	5.5	5.0	5.7	5.0	5.3	3.7	3.8	4.3	2.6	2.8	2nd Maximum 1 Hour Mean
Y01	2.7	2.8	3.4	2.4	2.4	1.8	2.2	2.2	1.7	1.8	2nd Maximum 8 Hour Mean
<b>Southcentral Region Non-Air Basin</b>											
Arendtsville	***	***	***	0.7	1.2	1.4	1.4	1.0	0.7	1.7	2nd Maximum 1 Hour Mean
314	***	***	***	0.6	1.1	1.2	1.2	0.6	0.4	1.6	2nd Maximum 8 Hour Mean
Altoona	3.1	2.7	2.7	2.0	2.6	1.7	2.4	1.5	1.6	2.3	2nd Maximum 1 Hour Mean
308	1.7	1.9	1.5	1.2	1.6	1.0	1.1	0.7	1.2	0.9	2nd Maximum 8 Hour Mean

## Appendix A: Table A-22

Carbon Monoxide Historical Trend  
(Units: Parts Per Million)

Station / Site Code	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	
<b>Johnstown Air Basin</b>											
Johnstown	5.4	7.0	4.7	4.2	4.4	2.8	2.8	3.9	3.0	2.0	2nd Maximum 1 Hour Mean
J01	3.5	4.8	2.7	3.1	2.8	2.0	2.1	2.6	2.2	2.1	2nd Maximum 8 Hour Mean
<b>Monongahela Valley Air Basin</b>											
Charleroi	3.5	2.8	1.8	3.0	2.0	1.8	1.4	1.7	1.6	1.8	2nd Maximum 1 Hour Mean
M01	2.8	2.5	1.6	1.9	1.6	1.1	1.1	1.0	1.0	1.4	2nd Maximum 8 Hour Mean
<b>Lower Beaver Valley Air Basin</b>											
Beaver Falls	3.2	3.2	2.6	2.2	2.5	1.7	2.4	2.1	1.6	1.7	2nd Maximum 1 Hour Mean
B11	2.5	2.1	1.9	1.5	1.5	1.2	1.5	1.6	1.1	1.2	2nd Maximum 8 Hour Mean
<b>Allegheny County Air Basin</b>											
Pittsburgh	***	***	***	3.5	3.3	3.2	3.0	2.5	2.4	2.0	2nd Maximum 1 Hour Mean
D12	***	***	***	2.7	2.5	2.4	2.5	2.0	2.0	1.7	2nd Maximum 8 Hour Mean
<b>Southwest Region Non-Air Basin</b>											
Greensburg	***	***	***	3.3	3.2	2.6	3.0	2.1	3.1	2.1	2nd Maximum 1 Hour Mean
513	***	***	***	2.3	2.4	1.8	1.8	1.2	2.1	1.4	2nd Maximum 8 Hour Mean
Holbrook	***	***	***	***	1.7	0.6	1.3	0.25	0.6	0.6	2nd Maximum 1 Hour Mean
514	***	***	***	***	1.5	0.3	1.1	0.3	0.3	0.3	2nd Maximum 8 Hour Mean
<b>Upper Beaver Valley Air Basin</b>											
New Castle	6.1	6.5	4.6	7.2	5.5	3.5	3.0	4.1	3.3	2.8	2nd Maximum 1 Hour Mean
B21	4.3	3.5	3.0	2.4	3.8	1.9	2.0	1.8	1.8	1.8	2nd Maximum 8 Hour Mean
<b>Erie Air Basin</b>											
Erie	***	***	9.3	9.5	10.6	11.9	7.2	7.5	7.6	1.8	2nd Maximum 1 Hour Mean
E12	***	***	4.9	5.1	5.6	6.0	4.4	4.5	3.4	1.3	2nd Maximum 8 Hour Mean

Appendix A: Table A-23

Arendtsville, Pennsylvania  
 Photochemical Assessment Monitoring Station (PAMS) Compounds  
 Units: parts per billion Carbon (ppbC)

[The concentration in ppbC for a compound can be divided by the number of carbon atoms for that target compound to estimate the concentration in parts per billion volume (ppbv).]

Year 2004 (May-October)

Compound	1 Hour Max	Date/Time of Max	Mean
Acetylene	2.95	8/3/2004 7:00	0.32
Ethylene	4.97	8/3/2004 7:00	0.69
Ethane	19	8/18/2004 11:00	3.98
Propylene	5.98	9/5/2004 23:00	0.41
Propane	31.66	9/27/2004 12:00	3.21
Isobutane	7.2	10/9/2004 8:00	0.64
Butene-1	3.71	10/15/2004 5:00	0.12
n-Butane	21.6	10/9/2004 8:00	1.29
t-Butene-2	3.32	10/15/2004 5:00	0.37
c-Butene-2	4.18	10/15/2004 5:00	0.11
Isopentane	20.12	10/9/2004 8:00	1.49
Pentene-1	2.52	10/15/2004 5:00	0.03
n-Pentane	8.1	10/9/2004 8:00	0.76
Isoprene	20.12	10/9/2004 8:00	1.49
trans-2-Pentene	2.83	10/15/2004 5:00	0.06
c-2-Pentene	3.7	10/15/2004 5:00	0.01
2,2-Dimethylbutane	4.5	10/15/2004 5:00	0.03
cyclopentane	2.32	10/15/2004 5:00	0.14
2,3-Dimethylbutane	1.04	10/9/2004 8:00	0.08
2-Methylpentane	5.64	10/15/2004 5:00	0.3
3-Methylpentane	2.39	10/9/2004 8:00	0.2
n-Hexane	3.75	8/30/2004 7:00	0.29
Methylcyclopentane	2.46	10/15/2004 5:00	0.09
2,4-Dimethylpentane	4.1	10/15/2004 5:00	0
Benzene	3.06	10/26/2004 7:00	0.59
Cyclohexane	4.01	10/15/2004 5:00	0.02
2-Methylhexane	2.83	8/30/2004 7:00	0.05
2,3-Dimethylpentane	5.52	10/15/2004 5:00	0.01
3-Methylhexane	2.88	8/30/2004 7:00	0.1
2,2,4-Trimethylpentane	3.04	10/15/2004 5:00	0.4
n-Heptane	7.64	8/30/2004 7:00	0.09
Methylcyclohexane	10.81	8/29/2004 2:00	0.06
2,3,4-Trimethylpentane	2.49	10/15/2004 5:00	0.04
Toluene	6.44	10/9/2004 8:00	1.02

\*Total Nonmethane Organic Compounds

\*\*PAMS Hydrocarbons

VOCs refer to gaseous aliphatic and aromatic nonmethane organic compounds that have a vapor pressure greater than 0.14 mmHg at 25C and generally have a carbon number in the range of C2-C12.

Appendix A: Table A-23

Arendtsville, Pennsylvania  
 Photochemical Assessment Monitoring Station (PAMS) Compounds  
 Units: parts per billion Carbon (ppbC)

[The concentration in ppbC for a compound can be divided by the number of carbon atoms for that target compound to estimate the concentration in parts per billion volume (ppbv).]

Year 2004 (May-October)

Compound	1 Hour Max	Date/Time of Max	Mean
2-Methylheptane	2.72	10/15/2004 5:00	0.03
3-Methylheptane	2.69	10/15/2004 5:00	0.03
n-Octane	4.77	8/30/2004 7:00	0.04
Ethylbenzene	2.53	10/15/2004 5:00	0.16
m/p-Xylene	4.04	10/15/2004 5:00	0.39
Styrene	2.28	10/15/2004 5:00	0.03
o-Xylene	2.39	10/15/2004 5:00	0.15
n-Nonane	2.3	10/15/2004 5:00	0.05
Isopropylbenzene	2.9	10/15/2004 5:00	0.01
n-Propylbenzene	2.56	10/15/2004 5:00	0.02
1,3,5-Trimethylbenzene	2.3	10/15/2004 5:00	0.03
1,2,4-Trimethylbenzene	3.19	10/15/2004 5:00	0.15
o-Ethyltoluene	2.57	10/15/2004 5:00	0.13
m-Ethyltoluene	1.95	10/15/2004 5:00	0.26
p-Ethyltoluene	3.11	10/15/2004 5:00	0.01
m-Diethylbenzene	2.48	10/15/2004 5:00	0.01
p-Diethylbenzene	3.17	8/24/2004 14:00	0.01
1,2,3-Trimethylbenzene	3.25	7/20/2004 13:00	0.19
n-Decane	2.82	10/15/2004 5:00	0.05
Undecane	3.48	7/27/2004 12:00	0.05
tnmoc*	167.18	10/15/2004 5:00	22.15
pamshc**	160.75	10/15/2004 5:00	19.44
Unidentified VOC	47.26	7/16/2004 13:00	1.99

\*Total Nonmethane Organic Compounds

\*\*PAMS Hydrocarbons

VOCs refer to gaseous aliphatic and aromatic nonmethane organic compounds that have a vapor pressure greater than 0.14 mmHg at 25C and generally have a carbon number in the range of C2-C12.

## ELEMENTAL MERCURY VAPOR SUMMARY

YEAR 2004

Instrumental Method: Tekran 2537A Analyzer (Cold Vapor Atomic Fluorescence Spectrometry)

Site Location: Lancaster, Lincoln Junior High School

Monitoring for Mercury Vapor Started June 21, 1999

Valid Hours: 8430 (96% Data Availability)

Units: nanograms per cubic meter (ng/m<sup>3</sup>)

Annual Average (Mean)	1.7	
1 <sup>st</sup> Maximum Hour Average	26.0	07/15/2004 01:00
2 <sup>nd</sup> Maximum Hour Average	12.4	09/30/2004 04:00
3 <sup>rd</sup> Maximum Hour Average	8.1	03/27/2004 13:00
Maximum 5-minute Sample	32.4	07/15/2004 01:25

Number of 1-Hour Average Values in Ranges

0 to 1	1 to 2	2 to 4	4 to 6	6 or more
0.13%	88.24%	11.44%	0.12%	0.07%

**Mercury Vapor Historical Trend**

	1999*	2000	2001	2002	2003	2004
<b>Annual Mean</b>	1.8	1.8	1.8	1.8	1.8	1.7
<b>1<sup>st</sup> Maximum Hour Average</b>	7.9	37.2	7.4	16.7	6.95	26.0
<b>2<sup>nd</sup> Maximum Hour Average</b>	7.6	32.3	7.3	14.5	5.78	12.4

\* June 21, 1999 through December 31, 1999

There are no national or Pennsylvania Ambient Air Quality Standards

Other Standards or guidelines:

Agency for Toxic Substances and Disease Registry of the U. S. Dept. of Health and Human Services (ATSDR)  
 Minimal Risk Level for Hazardous Substances, Inhalation Chronic 0.0002 mg/m<sup>3</sup> (200 ng/m<sup>3</sup>) Neurol. Final  
 03/99 007439-97-6

EPA Integrated Risk Information System (IRIS) Reference Concentration: 0.0003 mg/m<sup>3</sup> (300 ng/m<sup>3</sup>)

The risk to human health from direct exposure by inhalation to elemental mercury vapor in ambient air is believed to be well below any level of concern. Mercury deposited to surface waters is concentrated in the food chain and may reach levels in fish that are unsafe for consumption.

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