

Monthly Matrix SO2 (PA16)

Station/Facility: PA16
 Parameter: SO2 (PPB) Sulfur Dioxide
 Month/Year: Jun 2009

HOUR BEGINNING (Local Standard Time)

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Min	Max
01	18	23	7	6	10	12	15	33P	33	18	7	2	9995c	2	1	0	0	0	0C	9995c	1C	4	12	20	0	33
02	32	39	20	38	69	61	82	105P	68	35	40	13P	2	9995c	2	1	0	0	9995c	9995c	6	3	10	12	2	105
03	30	52	29	124	244	113	51	57P	58	27	2	1	9995c	2	1	1	0	0	0	9995c	2	9980b	9980b	9980b	0	244
04	16	13	16	41	73	43	43	45	63	18	25	6	9995c	3	1	1	2	3	8	19	47	44	38	44	1	73
05	53	56	35	23	68	91	74	66P	21	161	17	34	9995c	7	4	3	4	4	12	47	76	108	84	50	3	161
06	58	56	73	47	48	79	65	98P	109	36	30	34	9995c	10	12	11	24	9	24	80	323	200	241	167	9	323
07	60	36	40	60	114	85	91	122P	81	99	29	10	9995c	3	2	1	1	1	2	6	49	84	67	47	1	122
08	71	122	141	172	233	303	352	411P	252	174	143	20	9995c	4	3	2	1	1	1	1	2	7	12	19	1	411
09	13	18	43	52	46	41	35	76P	86	53	54	81D	9995c	11P	7C	2C	2	1	1	2	3	6	11	12	1	86
10	12	9	5	7	15	14	14	32P	36	100	14	5	9995c	2	1	1	1	0	0	2	1	3	7	7	0	100
11	8	15	14	24	41	30	37	96	116	63	19	5	9995c	2	1	1	1	1	1	3	2	4	73	20	1	116
12	8	33	21	28	33	16	4	18P	49	44	14	2	9995c	1	1	0	0	0	0	3	13	24	52	102	0	102
13	46	36	35	20	81	125	137	125P	124	78	19	3	9995c	2	1	1	1	1	0	1	5	29	70	39	0	137
14	30	26	18	16	21	20	59	47P	93	38	4	2	9995c	2	1	1	0	0	0	0	1	2	15	54	0	93
15	52	36	24	18	18	19	25	35P	66	46	24	3	9995c	2	1	1	1	0	1	7	7	8	19	17	0	66
16	26	34	42	33	37	25	26	14P	26	42	5	1	9995c	2	9995c	9979d	9978p	9995c	2C	8	70	45	30	1	70	157
17	30	30	28	57	37	157	150	105P	74	52	38	15	9995c	3	2	1	8	9	16	38	36	42	61	64	1	157
18	40	75	73	85	58	56	69	49	62	64	65	14	9995c	18	15	21	35	44	57	88	93	57	87	91	14	93
19	62	30	185	52	64	81	129	67P	97	79	62	11	9995c	30	6	2	3	5	12	50	65	46	52	53	2	185
20	54	66	58	60	111	221	164	104P	105	68	23	19	9995c	7	6	10	13	27	31	22	61	153	61	97	6	221
21	116	116	125	106	14	96	420	193P	36	148	18	22	9995c	22	64	41	33	65	68	103	181	196	211	53	14	420
22	12	14	55	291	448	89	58	71P	41	47	34	35	9995c	45	35	7	24	73	114	9980b	9980b	9980b	9980b	9980b	7	448
23	82	69	65	43	57	64	65	137P	258	57	71	33	9995c	12	6C	6C	13	9980b	9980b	9980b	9980b	9980b	9980b	9980b	6	258
24	335	30	13	35	62	211	307	75P	54	104	169	26	9995c	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	13	335
25	50	107	312	214	100	172	112	111	82	76	48	27	9995c	6	4	1	1P	1	9980b	9980b	9980b	9980b	9980b	9980b	1	312
26	105	124	85	42	70	49	80	49P	32	75	23	20	9995c	18	2	1	1	2	3	30	18	28	57	35	1	124
27	28	255	108	63	72	80	73	60P	115	70	63	36	9995c	3	4	9	9	5	15	11	25	82	251	316	3	316
28	149	91	60	46	96	190	143	190P	230	94	28	3	9995c	3	2	2	1	1	1	3	29	57	24	44	1	230
29	49	73	84	58	48	83	116	80P	51	63	53	49	9995c	4	2	1	1	1	3	12	12	32	57	73	1	116
30	100	131	159	198	305	300	263	194P	176	86	16	9	9995c	3	2C	1C	1	4	43	86	41				1	305

Flags: Monthly: 52 Ave 0 448 Max

- b = Bad Condition - Invalid Hour (9980)
- C = Calibration - Valid Hour
- c = Calibration - Invalid Hour (9995)
- D = Off-Line Part of Hour - Valid Hour
- d = Off-Line Part of Hour - Invalid Hour (9979)
- P = Power Failure - Valid Hour
- p = Power Failure - Invalid Hour (9978)

Monthly Matrix PM2.5 (PA16)

Station/Facility: PA16
 Parameter: PM2.5 (ug/m3) Particulate Matter 2.5 ug/m3
 Month/Year: Jun 2009

Day	HOUR BEGINNING (Local Standard Time)																														Min	Max
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29		
01	16	14	18	7	6	7	7	OP	3	17	14	9	3	3	3	4	3	3	1	3	1	1	1	2	7	0	18					
02	18	17	21	19	15	16	25	OP	12	9	9	17	4	4	3	2	9979d	4	7	5	3	6	10	12	0	25						
03	11	10	10	12	22	23	13	OP	9	21	15	9	4	2	-1	2	2	1	2	2	0	9980b	9980b	9980b	-1	23						
04	9	7	5	6	5	6	10	13	13	21	7	10	10	8	6	5	4	3	5	8	16	21	18	17	3	21						
05	19	15	14	13	11	8	7	OP	13	10	5	7	11	13	12	10	9	8	16	3	9	21	17	16	0	21						
06	13	20	18	12	10	8	9	OP	31	15	16	11	13	13	11	19	11	16	11	10	21	15	13	9	0	31						
07	10	9	10	12	7	6	9	OP	11	22	33	15	10	5	4	3	9	13	11	17	10	21	33	29	0	33						
08	21	18	20	16	12	19	21	OP	21	15	16	17	5	8	7	2	0	0	0	0	-1	-1	3	8	-1	21						
09	12	11	10	11	10	11	10	OP	11	12	13	19	49	OP	10	3	1	0	-1	-2	-3	0	5	5	-3	49						
10	3	2	7	10	11	13	12	OP	20	15	4	3	4	3	2	-1	0	3	3	1	1	0	1	2	-1	41						
11	5	3	3	4	4	5	8	11	12	33	23	12	9	4	3	2	1	-1	0	7	17	3	3	33	-1	33						
12	12	10	17	5	8	8	6	OP	8	10	28	14	12	7	3	3	4	2	2	4	19	13	13	14	0	28						
13	13	12	13	10	4	5	10	OP	13	31	28	13	9	4	5	6	3	1	2	2	3	9	19	10	0	31						
14	13	11	8	8	6	5	4	OP	8	34	21	11	6	4	5	3	3	0	-1	-1	2	0	17	12	-1	34						
15	23	21	21	15	13	13	14	OP	17	32	21	15	13	7	5	5	5	6	3	5	7	5	5	8	0	32						
16	10	12	13	11	12	14	11	OP	10	6	22	6	4	0	9979d	9979d	3	OP	3	3	8	11	30	16	0	30						
17	11	5	5	4	7	8	9	OP	7	7	26	20	15	15	11	4	5	17	13	11	17	18	9	12	0	26						
18	20	13	24	16	14	9	3	4	8	5	24	18	2	4	6	8	10	12	19	14	17	13	9	10	2	24						
19	18	13	10	8	9	10	19	OP	4	3	11	24	11	18	18	1	2	8	14	18	30	31	22	24	0	31						
20	23	23	23	15	14	14	10	OP	9	7	16	15	15	11	9	10	10	13	18	16	7	21	24	6	0	24						
21	6	16	26	20	9	6	4	OP	6	3	2	5	9	25	7	22	15	14	24	21	21	22	17	12	0	26						
22	10	6	3	4	8	11	6	OP	10	12	10	6	6	9	11	12	6	3	21	9980b	9980b	9980b	9980b	9980b	0	21						
23	23	19	13	14	12	17	26	OP	50	9	7	27	18	17	10	12	12	9980b	9980b	9980b	9980b	9980b	9980b	9980b	0	21						
24	10	10	5	-3	1	7	10	OP	0	23	18	7	17	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	-3	23						
25	3	5	7	8	11	8	7	8	7	28	23	10	13	14	8	4	5	6	9980b	9980b	9980b	9980b	9980b	9980b	3	28						
26	10	35	21	8	9	11	8	OP	10	10	21	10	8	10	12	9	6	6	10	13	14	12	12	9	0	35						
27	4	5	7	10	8	12	13	OP	5	2	4	17	15	16	11	7	11	12	8	9	11	19	25	18	0	25						
28	14	11	10	12	9	5	6	OP	6	8	19	8	8	6	4	7	8	6	3	6	7	7	9	6	0	19						
29	3	3	1	0	1	0	3	OP	7	9	25	28	19	2	1	0	0	-1	0	0	3	6	9	28	-1	28						
30	30	27	19	21	19	28	20	OP	20	55	26	3	2	3	3	0	1	-2	-1	2	10	2	10	-2	55							
31																																

Flags: Monthly: 10 Ave -3 55 Max
 b = Bad Condition - Invalid Hour (9980)
 d = Off-Line Part of Hour - Invalid Hour (9979)
 P = Power Failure - Valid Hour

Wind Speed (PA16)

Station/Facility: PA16
 Parameter: WS (MPH) Wind Speed
 Month/Year: Jun 2009

Day	HOUR BEGINNING (Local Standard Time)																														Min	Max
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23								
01	1.3	1.9	2.4	2.2	3.7	4.8	3.2	2.4P	1.4	5.1	7.3	7.0	5.7	5.8	3.9	3.3	2.8	2.8	2.6	2.4	3.4	1.6	1.9	2.7	1.3	7.3						
02	2.9	1.8	3.3	2.3	3.1	4.8	2.7	3.0P	2.8	3.3	6.7	7.8P	6.0	5.7	6.8	5.8	5.6	2.9	2.0	1.6	1.3	1.2	2.6	4.2	1.2	7.8						
03	3.8	3.6	4.3	4.4	4.0	3.7	3.9	1.6P	1.9	7.5	8.3	7.7	7.6	6.8	4.6	4.6	4.5	2.1	1.9	3.1	3.3	9980b	9980b	9980b	1.6	8.3						
04	3.6	3.4	3.9	4.3	2.8	3.7	3.0	2.9	4.2	6.1	7.1	7.4	8.1	7.5	7.0	6.4	5.1	4.5	4.0	2.4	2.2	2.6	2.8	5.1	2.2	8.1						
05	4.2	4.4	4.5	3.9	4.8	3.3	3.5	2.5P	3.2	4.5	9.6	8.2	8.2	7.5	8.7	6.8	6.5	4.1	3.5	4.1	3.6	4.6	4.7	4.5	2.5	9.6						
06	3.9	3.3	4.3	4.7	4.3	3.3	3.4	3.4P	5.0	8.9	9.9	10.3	12.8	9.3	7.1	5.9	5.3	4.3	3.3	3.5	3.2	3.0	3.3	3.9	3.0	12.8						
07	4.1	3.7	3.6	4.9	4.4	5.4	5.2	3.4P	6.0	6.7	6.6	8.1	7.7	5.8	4.5	4.2	3.5	4.7	4.0	3.4	2.6	1.9	3.1	3.6	1.9	8.1						
08	3.7	3.9	4.5	5.0	4.8	4.9	3.5	2.3P	3.5	4.5	4.2	6.6	6.5	6.3	4.9	4.0	3.1	3.2	4.6	2.0	2.7	1.9	1.7	2.1	1.7	6.6						
09	2.3	3.6	3.8	4.7	5.0	5.0	3.6	1.5P	2.3	3.9	4.4	4.9D	5.2D	6.5P	4.5	3.5	3.5	1.9	1.8	3.1	1.9	1.0	0.5	1.0	0.5	6.5						
10	0.8	1.3	1.3	2.0	1.8	2.3	1.9	1.2P	2.9	4.8	5.5	4.9	4.3	3.7	3.2	2.7	4.6	6.0	6.7	3.5	3.6	4.0	2.6	3.1	0.8	6.7						
11	3.5	4.2	5.0	4.6	5.0	3.7	4.1	3.0	3.0	5.8	7.0	7.0	7.3	7.7	7.8	8.9	7.4	5.4	3.4	2.6	3.9	3.7	3.9	4.2	2.6	8.9						
12	3.5	3.2	4.1	4.4	3.5	3.5	4.9	2.8P	1.9	5.5	7.0	6.9	6.8	6.7	6.3	3.0	1.8	1.3	1.6	1.4	2.9	3.5	4.6	3.5	1.3	7.0						
13	4.5	3.6	3.8	5.4	5.0	4.1	4.0	2.8P	4.1	5.5	7.5	8.5	7.8	7.5	5.0	4.0	1.9	2.1	2.2	4.1	2.4	3.3	3.8	3.9	1.9	8.5						
14	4.2	4.1	3.8	3.9	4.1	3.6	4.2	2.3P	1.8	6.8	7.6	5.7	4.0	2.9	2.8	3.1	2.6	3.0	2.7	1.8	3.6	4.2	4.5	4.1	1.8	7.6						
15	3.3	3.1	3.8	3.4	2.4	3.8	2.7	2.1P	2.6	4.5	7.9	7.9	7.0	4.7	4.3	3.5	3.3	4.2	4.1	3.7	2.7	3.2	2.5	2.5	2.1	7.9						
16	2.4	2.7	2.3	2.5	3.0	2.6	3.2	3.6P	2.7	3.3	6.6	6.3	5.5	6.1	5.8	5.2	5.8	2.9P	3.1	3.3	3.9	3.8	4.1	4.5	2.3	6.6						
17	5.1	5.5	4.6	4.3	3.8	3.8	4.7	1.6P	1.5	4.8	6.1	7.0	5.6	5.6	5.0	4.6	3.9	3.2	2.7	2.8	2.7	3.4	2.3	2.4	1.5	7.0						
18	2.8	2.8	2.4	3.9	4.7	4.8	4.2	3.9	3.7	7.4	8.4	10.1	10.8	9.5	8.5	8.5	5.7	5.3	3.4	2.9	4.6	3.7	2.6	4.6	2.4	10.8						
19	3.4	2.0	2.2	3.8	2.8	2.5	5.1	4.1P	2.4	5.6	10.0	9.3	8.0	5.7	5.9	6.9	3.6	4.0	3.1	2.3	2.3	3.5	3.5	3.9	2.0	10.0						
20	3.6	3.4	3.5	4.8	5.5	5.1	3.4	2.1P	4.4	4.5	8.8	8.3	7.3	7.1	9.1	7.4	6.5	6.7	5.1	3.3	3.7	2.7	3.9	4.1	2.1	9.1						
21	2.9	2.5	4.1	5.6	5.5	3.6	6.3	2.7P	7.5	7.2	10.8	10.4	9.5	6.3	7.9	9.0	7.5	5.5	4.3	4.4	4.5	4.0	4.4	5.9	2.5	10.8						
22	6.3	6.3	2.6	3.9	3.8	3.2	2.6	3.4P	7.0	7.6	7.7	8.7	9.0	9.0	10.1	9.3	8.6	6.0	6.8	9980b	9980b	9980b	9980b	9980b	2.6	10.1						
23	2.6	2.4	3.1	3.0	4.4	3.9	2.9	3.9P	6.4	8.0	12.2	14.1	12.6	9.9	7.8	7.4	8.4	9980b	9980b	9980b	9980b	9980b	9980b	9980b	2.4	14.1						
24	4.6	5.1	3.5	4.3	3.1	3.2	3.6	5.0P	4.2	4.9	6.1	9.2	9.7	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	3.1	9.7						
25	3.1	4.2	4.0	4.9	5.6	3.7	3.5	3.0	5.3	5.4	5.6	6.9	6.5	7.4	6.4	6.5	5.6P	6.4	9980b	9980b	9980b	9980b	9980b	9980b	3.0	7.4						
26	4.4	3.8	2.9	3.2	3.1	3.3	3.4	3.8P	2.5	1.7	4.1	2.0	4.0	2.7	3.8	3.1	4.1	4.3	3.5	2.6	3.1	3.1	2.7	2.4	1.7	4.4						
27	2.9	2.7	2.8	2.7	3.5	3.6	3.5	1.3P	1.5	2.1	7.8	8.6	7.1	5.2	5.1	4.3	4.4	3.1	3.3	4.1	3.3	4.0	4.0	3.5	1.3	8.6						
28	4.6	5.7	4.3	5.3	5.1	4.2	3.5	4.5P	3.7	7.7	6.9	8.1	7.8	4.2	3.8	2.1	2.5	1.9	2.8	3.6	4.3	4.6	4.9	5.0	1.9	8.1						
29	5.1	4.1	4.1	4.3	5.3	5.2	4.2	1.9P	1.9	4.4	4.9	6.5	7.9	6.2	3.8	1.7	3.0	2.9	3.7	2.6	1.5	1.8	2.9	3.8	1.5	7.9						
30	4.4	5.2	5.8	5.0	5.9	6.3	5.0	1.8P	2.7	6.1	6.7	6.9	7.6	4.8	5.2	5.8	5.8	3.4	1.5	3.4	3.8	3.8	3.8	3.8	1.5	7.6						

Flags: Monthly: Ave 4.5 Min 0.5 Max 14.1

b = Bad Condition - Invalid Hour (9980)
 D = Off-Line Part of Hour - Valid Hour
 P = Power Failure - Valid Hour

Wind Direction (PA16)

Station/Facility: PA16
 Parameter: WD (DEG) Wind Direction
 Month/Year: Jun 2009

Day	HOUR BEGINNING (Local Standard Time)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	249	122	78	242	313	321	250	96P	181	102	106	112	106	108	160	259	215	173	262	296	243	179	311	278
02	278	265	256	198	291	271	266	235P	187	158	108	107P	113	136	119	122	119	108	90	65	160	167	256	311
03	310	314	320	291	321	295	330	174P	97	104	111	111	113	108	104	106	99	95	88	98	95	9980b	9980b	9980b
04	319	316	116	199	257	264	182	111	118	101	105	108	105	104	99	99	100	94	184	226	261	285	277	
05	176	258	242	232	241	239	305	233P	169	102	108	101	106	107	106	105	104	100	179	277	280	315	271	307
06	295	307	313	281	321	270	178	130P	92	106	106	101	104	108	105	103	107	118	166	117	86	109	278	314
07	217	269	298	321	253	210	320	151P	104	104	106	106	108	102	93	98	103	99	93	124	197	219	290	302
08	314	306	320	322	321	322	308	222P	182	169	143	113	118	119	133	168	163	181	232	232	259	227	207	278
09	318	321	322	328	327	325	322	216P	159	162	175	148D	139D	115P	136	124	119	113	254	280	215	243	171	264
10	228	220	255	310	242	269	310	259P	137	129	112	107	119	150	173	221	264	242	274	296	287	330	318	322
11	305	322	332	323	314	324	263	102	94	98	108	110	107	116	109	107	105	101	102	87	84	130	195	183
12	171	236	262	311	320	268	282	123P	166	134	110	109	110	106	108	97	79	89	119	184	287	282	315	82
13	244	250	157	325	299	312	309	156P	92	97	106	106	106	106	103	99	96	172	195	100	142	214	288	315
14	283	288	326	321	303	316	316	294P	197	127	104	100	97	86	81	85	85	118	101	167	67	239	283	226
15	205	213	184	266	203	328	234	180P	254	100	104	109	108	102	101	95	97	104	106	86	98	92	178	142
16	258	217	225	137	234	299	135	69P	102	114	100	106	98	102	106	102	104	104P	91	99	122	220	303	313
17	308	332	287	280	303	317	307	195P	229	113	95	107	98	99	96	104	115	187	259	262	222	276	208	215
18	227	166	245	298	307	319	295	234	208	101	109	105	104	109	113	106	110	106	189	227	192	190	197	74
19	122	206	184	138	275	242	259	225P	164	140	105	111	101	105	118	121	131	134	195	167	220	313	309	318
20	310	300	309	321	326	324	297	271P	173	172	110	105	111	113	105	106	106	103	99	162	104	251	122	104
21	127	149	243	127	101	195	185	153P	100	100	111	103	105	118	114	112	110	111	213	237	274	281	270	134
22	143	255	231	205	206	179	163	106P	101	102	98	98	101	103	104	102	102	104	104	9980b	9980b	9980b	9980b	9980b
23	169	158	201	118	222	169	150	93P	77	106	115	110	104	110	119	116	112	9980b	9980b	9980b	9980b	9980b	9980b	9980b
24	90	108	177	149	232	225	190	102P	100	93	100	103	105	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
25	287	194	97	185	140	135	169	89	102	100	103	110	114	108	104	109	98P	101	9980b	9980b	9980b	9980b	9980b	9980b
26	115	112	74	169	74	243	119	131P	113	101	95	178	101	93	97	110	97	97	86	144	108	254	262	257
27	291	185	252	283	273	287	158	241P	227	178	118	110	120	141	153	106	107	132	247	285	299	306	287	267
28	270	283	290	228	322	274	290	135P	139	103	116	118	102	126	157	251	149	232	276	291	319	303	310	325
29	323	311	319	320	320	317	320	186P	166	136	149	136	119	112	95	262	177	217	231	253	263	283	305	322
30	325	323	325	326	322	322	307	86P	121	124	115	123	115	92	235	312	203	135	144	193	326			
31																								

Flags: Monthly Ave: 184
 b = Bad Condition - Invalid Hour (9980)
 D = Off-Line Part of Hour - Valid Hour
 P = Power Failure - Valid Hour

Monthly Matrix SO2 (MV17)

Station/Facility: MV17
 Parameter: SO2 (PPB) Sulfur Dioxide
 Month/Year: Jun 2009

HOUR BEGINNING (Local Standard Time)																														
Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Min	Max				
01	0	0	0	0	0	0	0P	0	0 9995c 1C	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	1		
02	0	0	0	0	0	0	0P	0	0 9995c 9978p 9979d	6	0	0	0	3C 9995c 9995c	1	0	0	0	0	0	0	0	0	0	0	0	0	6		
03	0	0	0	0	0	0	0P	0	0 9995c 9979d 9979d	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
04	0	0	0	0	0	0	0P	0	0 9995c 3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3		
05	0	0	0	0	0	0	0P	0	0 9995c 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
06	0	0	0	0	0	0	0P	0	0 9995c 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
07	0	0	0	0	0	0	0P	0	0 9995c 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
08	0	0	0	0	0	0	0P	0	0 9995c 1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
09	0	0	0	0	0	0	0P	0	0 9995c 1	9995c 0C	0	0	0	0	2	1	0	9978p 9995c 9995c	0	0	0	0	0	0	0	0	0	2		
10	0	0	0	0	0	0	0P	0	0 9979d 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
11	0	0	0	0	0	0	0P	0	0 9995c 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
12	0	0	0	0	0	0	0P	0	0 9995c 0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
13	0	0	0	0	0	0	0P	0	0 9995c 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
14	0	0	0	0	0	0	0P	0	0 9995c 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
15	0	0	0	0	0	0	0P	0	0 9995c 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
16	0	0	0	0	0	0	0P	0	0 9995c 2	9995c 0C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
17	0	0	0	0	0	0	0P	0	0 9995c 9995c	0	9978p 1C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
18	0	0	0	0	0	0	0P	0	0 9995c 8	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	8		
19	0	0	0	0	0	0	0P	0	0 9995c 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
20	0	0	0	0	0	0	0P	0	0 9995c 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
21	0	0	0	0	0	0	0P	0	0 9995c 1	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1		
22	0	0	0	0	0	0	0P	0	0 9995c 2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2		
23	0	0	0	0	0	0	0P	0	0 9995c 1	9995c 0C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
24	0	0	0	0	0	0	0P	0	0 9995c 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
25	0	0	0	0	0	0	0P	0	0 9995c 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
26	0	0	0	0	0	0	0P	0	0 9995c 2	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2	
27	0	0	0	0	0	0	0P	0	0 9995c 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
28	0	0	0	0	0	0	0P	0	0 9995c 1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
29	0	0	0	0	0	0	0P	0	0 9995c 1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
30	0	0	0	0	0	0	0P	0	0 9995c 1	9995c 0C	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1		
31																														

Flags: Monthly: Ave 0 8
 Min Max

C = Calibration - Valid Hour
 c = Calibration - Invalid Hour (9995)
 d = Off-Line Part of Hour - Invalid Hour (9979)
 P = Power Failure - Valid Hour
 p = Power Failure - Invalid Hour (9978)

Monthly Matrix PM2.5 (MV17)

Station/Facility: MV17
 Parameter: PM2.5 (ug/m3) Particulate Matter 2.5 ug/m3
 Month/Year: Jun 2009

Day	HOUR BEGINNING (Local Standard Time)																														Min	Max
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23								
01	6	5	3	3	5	4	5	4	2	3	5	7	6	6	7	6	6	7	7	9	8	8	9	7	7	2	9					
02	5	6	10	10	9	6	7	10	8	7	7	6	6	9	10	9	8	10	8	8	7	6	6	7	6	5	10					
03	3	4	5	8	10	7	6	5	5	6	6	6	8	8	6	5	8	9	7	6	6	6	6	6	6	3	10					
04	4	4	3	4	6	5	6	8	7	4	6	8	6	9	10	10	11	12	8	11	13	12	11	10	3	13						
05	10	10	10	7	9	7	6	8	4	5	9	7	5	7	6	7	8	6	8	10	9	8	6	8	4	10						
06	7	5	4	6	8	7	7	8	8	9	9	10	9	6	6	7	6	6	5	5	7	7	7	12	4	12						
07	10	7	6	7	9	7	6	5	4	6	8	5	8	11	7	7	12	13	10	7	9	10	7	5	4	13						
08	6	8	9	7	7	7	8	8	7	7	7	7	7	4	4	8	6	6	7	7	8	10	7	5	4	10						
09	6	6	5	5	6	6	6	6	4	5	5	6	6	3	4	6	6	OP	3	3	4	4	6	6	0	6						
10	4	5	7	6	7	10	7	3	3	5	9	9979d	2	3	6	5	5	6	7	8	7	6	6	6	2	10						
11	6	6	5	3	4	3	2	5	6	4	5	5	5	5	3	4	5	5	8	8	7	6	6	6	2	8						
12	10	10	8	9	10	8	8	8	9	9	9	11	12	12	10	10	12	12	8	6	7	9	8	8	6	12						
13	8	6	5	7	7	6	8	7	7	10	10	8	6	9	11	10	9	10	9	6	7	9	10	8	5	11						
14	6	7	7	6	6	7	6	6	5	5	6	8	6	5	7	6	6	7	7	6	6	7	9	8	5	9						
15	7	9	8	6	7	10	7	6	7	10	10	9	10	10	10	9	9	8	9	8	7	8	6	5	5	10						
16	7	9	7	5	6	6	7	7	7	8	2	3	9	13	9	7	8	8	8	8	10	13	13	10	2	13						
17	10	11	9	6	8	9	6	7	8	7	8	8	8	8	8	49	6	5	5	5	5	10	6	3	3	49						
18	3	4	5	6	3	5	7	6	4	3	8	11	10	9	9	7	5	1	3	3	5	1	4	5	-1	11						
19	2	4	7	8	5	7	10	8	8	10	10	13	12	10	12	13	10	8	7	10	11	8	6	5	2	13						
20	3	5	8	10	9	9	10	6	6	10	11	10	8	7	9	9	9	8	8	7	9	10	7	7	3	11						
21	5	5	9	9	9	10	10	7	5	7	8	8	7	5	6	7	10	8	6	7	6	5	7	8	5	10						
22	4	4	5	6	5	3	6	6	7	6	7	7	9	6	6	2	5	9	9	6	3	5	6	7	2	9						
23	8	5	3	6	9	7	7	8	9	8	8	9	9	9	8	9	10	10	12	11	8	7	6	6	3	12						
24	7	8	7	7	7	6	7	5	4	5	6	6	6	9	9	6	9	10	9	8	5	6	8	6	4	10						
25	4	3	5	4	5	10	10	6	6	6	6	4	5	9	7	7	6	8	6	8	9	4	3	2	2	10						
26	4	5	4	3	3	7	8	6	7	10	9	10	10	10	13	10	11	9	5	9	10	8	8	8	3	13						
27	8	9	8	7	6	6	6	6	5	4	9	10	8	10	10	10	9	9	11	9	7	7	8	6	4	11						
28	6	8	8	6	6	5	4	7	8	6	6	7	5	6	9	6	5	8	9	7	6	6	7	7	4	9						
29	7	6	8	7	6	6	5	6	6	8	8	9	9	8	6	3	3	6	10	10	6	6	10	9	3	10						
30	7	6	6	6	6	6	4	5	5	7	6	3	6	8	7	6	10	9	3	5	8	8	5	5	3	10						
31																																

Flags: Monthly: Ave 7 -1 Min 49
 d = Off-Line Part of Hour - Invalid Hour (9979)
 P = Power Failure - Valid Hour

Wind Speed (MV17)

Station/Facility: MV17
 Parameter: WS (MPH) Wind Speed
 Month/Year: Jun 2009

HOUR BEGINNING (Local Standard Time)

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Min	Max
01	1.9	1.0	0.7	1.3	1.7	1.6	1.3P	1.7	2.2	3.7	4.3	4.2	5.3	5.2	4.9	4.8	4.6	4.3	3.6	2.3	1.4	1.2	1.9	1.8	0.7	5.3
02	1.3	1.3	1.2	2.0	1.7	3.0	3.1P	1.9	2.4	4.3	3.8P	3.1	4.0	5.8	5.7	4.7	3.6	3.0	2.5	1.1	1.3	2.4	2.3	2.8	1.1	5.8
03	3.7	2.5	2.4	3.6	2.7	2.3	2.0P	2.9	2.8	3.2	6.0	6.5	6.9	7.9	5.9	5.3	4.8	3.9	2.7	2.3	1.9	1.4	1.4	2.7	1.4	7.9
04	3.8	3.2	1.9	2.7	2.7	2.6	2.5P	2.2	2.0	1.9	3.4	3.9	4.4	4.2	4.0	5.1	4.0	3.7	2.5	1.7	1.8	1.5	1.5	1.7	1.5	5.1
05	2.5	2.6	4.5	4.2	3.2	1.7	2.5P	2.8	3.0	4.0	3.7	3.3	4.0	4.9	5.3	4.9	4.5	3.5	2.8	2.0	2.0	1.6	2.1	2.5	1.6	5.3
06	2.3	1.8	1.8	1.8	1.9	2.0	2.0P	2.3	3.3	4.0	4.4	4.3	5.5	5.0	5.0	4.0	4.2	2.3	3.0	2.8	1.5	2.5	2.8	2.5	1.5	5.5
07	3.0	4.2	3.5	3.7	3.2	3.8	4.0P	3.4	3.2	4.0	2.8	4.0	3.9	3.6	4.5	4.2	4.1	3.7	2.2	1.8	1.6	1.3	1.4	1.4	1.3	4.5
08	1.4	2.6	2.6	3.2	2.3	3.3	2.9P	2.7	4.3	3.7	3.7	3.9	4.7	4.6	4.6	4.2	3.8	3.4	3.2	1.1	1.1	1.2	2.2	2.7	1.1	4.7
09	3.4	2.5	2.0	3.8	3.5	3.0	2.7P	2.8	3.1	3.8	3.7	2.9	3.0	3.9	3.8	4.6	4.1	3.6P	2.8	1.7	0.8	0.9	1.2	0.6	0.6	4.6
10	1.5	1.8	2.0	2.6	3.5	2.5	2.4P	2.1	2.5	3.8	4.7	4.9	4.8	4.8	4.5	2.9	3.5	3.0	2.5	1.1	2.3	3.6	4.5	3.6	1.1	4.9
11	3.6	3.1	3.0	3.4	2.9	4.4	4.1P	2.4	3.7	2.7	3.7	4.9	5.4	4.1	2.8	4.3	3.8	3.1	2.9	3.0	2.2	1.5	1.6	1.4	1.4	5.4
12	1.0	1.7	2.1	2.6	3.9	4.4	3.6P	1.7	2.0	2.2	3.0	5.5	5.5	5.6	4.8	5.2	4.3	3.5	1.7	1.0	1.2	1.4	1.5	2.0	1.0	5.6
13	2.8	3.0	2.5	3.1	2.8	2.8	2.8P	1.3	1.5	3.5	4.2	3.9	3.5	4.4	4.5	4.8	4.0	3.8	2.6	1.3	1.4	2.1	2.4	3.5	1.3	4.8
14	3.0	3.7	2.8	3.3	2.4	4.1	3.3P	3.2	1.5	2.8	4.4	4.2	5.2	4.3	4.6	5.3	4.9	3.4	2.2	1.5	1.8	1.9	1.6	0.7	0.7	5.3
15	0.7	0.6	0.7	0.5	0.9	1.2	1.2P	1.0	2.7	3.0	4.0	4.0	5.8	5.3	4.9	4.9	4.9	4.4	3.5	2.1	3.6	1.8	3.0	2.0	0.5	5.8
16	2.4	2.4	3.0	2.8	1.8	1.6	1.9P	1.7	1.9	2.9	4.2	4.1	5.2	5.3	5.2	4.5	3.9	4.3	2.9	1.5	1.1	2.2	1.8	2.6	1.1	5.3
17	3.5	3.6	3.6	3.4	3.3	2.4	2.1P	1.7	2.0	2.6	2.9	4.4	4.7P	4.8	5.2	3.5	3.4	3.6	2.1	1.9	2.5	2.4	1.9	2.7	1.7	5.2
18	1.8	1.8	1.5	1.6	2.0	1.7	2.1P	3.6	1.9	3.4	4.8	4.0	4.6	5.8	5.4	4.2	4.8	4.1	4.1	4.1	3.2	2.3	2.4	2.5	1.5	5.8
19	1.8	1.8	2.1	2.0	3.2	1.9	1.7P	2.2	4.3	3.6	4.1	4.9	4.4	4.6	4.9	4.6	4.3	3.8	2.5	1.6	2.0	1.4	1.5	1.2	1.2	4.9
20	1.4	2.2	3.1	2.9	3.7	2.2	2.8P	1.6	3.6	3.0	3.2	3.9	5.4	3.2	3.5	3.9	4.9	4.0	2.8	1.7	1.7	2.1	1.7	2.0	1.4	5.4
21	2.4	2.3	2.0	3.0	2.3	3.3	3.1P	3.2	3.7	4.3	3.9	4.3	5.8	4.0	4.0	4.6	4.9	3.8	3.5	2.2	2.6	2.5	2.4	2.0	2.0	5.8
22	1.3	2.0	3.1	2.6	2.1	1.7	2.2P	2.2	3.8	3.2	3.1	5.8	6.3	5.6	5.8	4.9	5.3	3.6	4.4	3.7	2.5	3.6	2.1	3.2	1.3	6.3
23	2.9	2.2	2.7	2.9	2.2	3.1	2.9P	3.0	4.1	3.6	4.2	3.4	5.1	5.5	5.3	4.5	5.6	4.3	4.3	2.1	1.7	2.0	3.1	2.7	1.7	5.6
24	2.2	2.7	1.7	2.0	3.6	3.7	3.0P	2.3	2.6	3.7	4.0	3.7	5.1	5.6	4.8	5.1	4.5	3.1	2.3	2.4	1.9	1.9	1.8	2.9	1.7	5.6
25	4.2	4.3	4.1	4.4	4.6	3.8	3.6P	2.9	3.9	1.8	2.3	2.9	2.8	4.1	6.4	3.8	2.1	4.6	2.6	3.3	5.2	3.8	3.9	4.5	1.8	6.4
26	3.4	3.2	3.3	3.6	3.2	3.9	3.8P	2.6	3.2	3.5	2.3	2.5	4.4	5.4	4.9	4.3	4.4	4.8	3.9	3.9	2.5	2.4	1.5	1.1	1.1	5.4
27	2.4	2.6	2.7	4.2	3.0	3.2	2.8P	2.5	3.5	4.3	3.0	3.3	4.0	5.5	4.5	4.8	4.7	4.1	2.2	1.1	1.5	1.7	1.5	1.7	1.1	5.5
28	1.7	2.1	2.4	2.2	3.3	2.1	2.6P	2.6	3.1	3.4	4.0	5.5	4.8	4.1	4.2	3.7	3.7	3.4	2.5	1.2	1.6	2.2	2.0	2.0	1.2	5.5
29	2.8	3.7	2.9	4.0	3.6	4.3	3.7P	1.7	1.9	3.3	4.3	5.1	5.3	5.0	4.7	4.3	4.1	3.8	3.0	1.6	1.1	1.6	1.6	2.4	1.1	5.3
30	2.9	3.2	3.7	4.9	5.4	5.5	4.7P	2.4	2.4	2.8	4.4	4.4	4.8	4.7	2.9	3.4	2.3	1.2	0.8	0.9	1.7	2.5	3.2	3.2	0.8	5.5

Flags: P = Power Failure - Valid Hour
 Monthly: Ave 3.1 Min 0.5 Max 7.9

Wind Direction (MV17)

Station/Facility: MV17
 Parameter: WD (DEG) Wind Direction
 Month/Year: Jun 2009

Day	HOUR BEGINNING (Local Standard Time)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	243	233	302	287	288	286	290P	159	64	79	89	78	72	66	80	73	67	62	55	146	275	271	224	276
02	277	282	277	268	249	257	244P	205	257	101	89P	139	90	90	76	78	65	77	71	182	259	257	248	252
03	250	247	248	261	273	259	268P	231	212	170	95	97	91	97	85	85	77	71	77	88	62	123	248	155
04	83	102	262	282	265	274	273P	280	109	221	61	66	78	67	76	72	71	60	66	243	264	250	312	278
05	217	226	265	273	231	251	264P	278	106	148	149	114	79	74	69	66	65	81	62	202	270	227	211	220
06	224	306	279	272	264	258	259P	199	139	163	82	79	77	76	81	83	89	136	277	283	287	272	268	265
07	231	260	272	272	226	262	265P	275	220	75	72	87	69	75	92	81	79	72	68	147	300	298	305	287
08	288	269	265	267	259	261	264P	278	206	197	101	90	74	86	75	81	75	67	68	124	308	293	257	252
09	259	256	251	259	253	249	249P	229	139	147	91	71	92	81	71	90	82	64P	67	135	295	292	259	243
10	252	247	251	255	254	258	267P	256	138	91	75	82	68	68	82	83	71	63	57	197	269	209	263	268
11	245	246	247	242	241	259	259P	217	261	169	119	96	69	73	88	74	78	87	77	85	198	284	277	118
12	231	283	280	263	259	255	249P	237	92	145	99	74	88	90	89	83	78	69	68	215	260	280	256	270
13	254	257	265	267	242	266	259P	270	138	95	82	134	104	81	77	79	70	75	76	156	301	278	271	267
14	271	268	240	272	246	279	277P	274	233	110	80	71	100	82	85	87	89	80	92	148	161	192	245	239
15	205	147	223	216	260	263	267P	215	95	86	85	78	93	85	75	76	80	87	91	107	113	180	271	200
16	261	241	272	271	209	268	267P	287	146	68	70	76	85	88	86	82	81	81	83	83	285	274	267	276
17	247	239	265	272	268	265	260P	250	123	86	97	73	77P	69	73	103	114	113	251	223	281	221	223	280
18	162	262	288	276	254	166	199P	280	240	149	90	69	75	67	66	82	60	69	83	72	166	254	202	245
19	244	267	227	276	276	204	235P	246	161	104	101	68	87	73	72	64	61	66	112	300	313	299	282	279
20	293	266	266	264	261	257	262P	252	203	99	85	107	77	124	99	98	68	73	57	123	223	222	277	289
21	244	263	264	268	190	256	248P	273	265	150	70	123	145	98	103	64	65	76	115	256	249	261	273	260
22	262	197	259	271	271	236	240P	230	122	176	221	80	68	67	73	76	75	121	101	74	182	173	263	271
23	287	234	205	164	182	105	129P	281	136	157	133	202	123	75	75	103	71	62	80	260	283	258	210	275
24	270	255	182	284	250	269	257P	217	272	202	100	147	85	66	70	63	108	119	225	279	289	280	257	237
25	259	270	278	271	263	260	264P	216	270	182	186	181	274	205	97	133	131	93	179	148	233	257	266	267
26	245	259	238	275	273	252	256P	285	224	236	173	206	67	67	69	69	63	61	55	61	118	202	263	287
27	262	268	244	272	264	272	271P	249	210	105	168	219	96	67	69	69	72	62	134	270	260	262	278	279
28	272	264	258	257	258	237	257P	276	166	107	78	78	86	96	74	94	71	70	50	282	257	252	258	254
29	256	268	266	256	259	255	252P	168	113	262	158	106	79	78	67	74	65	71	61	181	281	267	272	265
30	258	257	254	255	254	253	248P	193	98	102	82	77	83	88	128	243	289	268	208	241	240	250	247	253
31																								

Flags: P = Power Failure - Valid Hour Monthly Ave: 180

Monthly Matrix SO2 (HL11)

Station/Facility: HL11
 Parameter: SO2 (PPB) Sulfur Dioxide
 Month/Year: Jun 2009

Day	HOUR BEGINNING (Local Standard Time)																														Min	Max
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23								
01	2	2	2	1	1	1	1	1P	3	4	3	2	2	2	1C 9995C	3C 9995C	3C 9995C	9995C	3	2	2	2	2	2	2	1	4					
02	2	2	1	1	1	1	1	2P	2	2	4	3	9995C	2C	2C 9995C	3C	2	2	2	2	2	2	2	2	2	1	4					
03	2	1	1	2	1	1	1	2P	2	3	2	2	2	2	2C 9995C	4C	3	3	3	3	2	2	2	2	2	1	4					
04	2	2	2	1	1	1	1	1P	2	1	2	2	2	2	2C 9995C	4C	2	2	2	2	2	2	2	2	2	1	4					
05	1	1	1	1	1	1	1	1P	1	2	2	2	2	1	1C 9995C	3C	2	2	2	2	3	3	3	2	1	3						
06	2	2	1	1	1	1	1	1P	2	2	2	1	1	1	1C 9995C	4C	3	2	2	2	2	2	1	1	1	4						
07	1	1	1	1	1	1	1	1P	1	1	2	2	1	1	1C 9995C	6C	3	2	2	2	2	2	2	2	1	6						
08	2	2	1	1	1	1	1	1P	2	2	1	2	1	2	2C 9995C	3C	2	2	2	2	2	2	2	2	1	3						
09	2	1	1	1	1	1	1	1P	2	1	2	1	9995C	2C	2C 9995C	3C	2	2	2	2	2	2	2	1	1	3						
10	1	1	1	1	1	1	1	1P	1	2	2	2	2	2	1C 9995C	4C	2	2	2	2	2	1	1	1	1	4						
11	1	1	1	1	1	1	1	1P	1	1	2	2	2	2	2C 9995C	6C	3	2	2	2	2	2	2	2	1	6						
12	2	2	2	2	1	1	1	1P	1	5	4	3	3	2	2C 9995C	4C	3	2	2	2	2	2	2	2	1	5						
13	1	2	1	1	1	1	1	1P	1	2	2	2	2	2	2C 9995C	4C	2	2	2	2	2	2	1	1	1	4						
14	1	1	1	1	1	1	1	1P	1	1	2	2	3	2	2C 9995C	6C	4	3	2	2	2	2	2	2	1	6						
15	1	2	1	1	1	1	1	1P	2	3	2	2	2	2	2C 9995C	5C	3	2	2	2	2	2	2	2	1	5						
16	2	2	1	1	1	1	1	1P	1	2C 9995C	9979d	9995C	7P	4C 9995C	6C	4	3	2	2	2	2	2	2	2	1	7						
17	2	2	2	2	2	2	2	2P	2	3	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	2	3						
18	2	1	1	1	1	1	1	1P	1	1	2	1	2	2	1C 9995C	8C	4	3	2	2	2	2	2	2	1	8						
19	2	2	1	1	1	1	1	1P	2	2	1	2	2	2	1C 9995C	4C	3	2	2	2	2	2	2	2	1	4						
20	1	1	1	1	1	1	1	1P	1	1	2	1	1	1	1C 9995C	5C	3	2	2	2	2	2	2	1	1	5						
21	2	1	1	1	1	1	1	1P	2	1	1	2	2	2	2C 9995C	4C	2	2	2	2	2	2	2	2	1	4						
22	2	1	1	2	1	1	1	1P	2	2	1	2	2	2	2C 9995C	4C	3	2	2	2	2	2	2	1	1	4						
23	1	1	1	1	1	1	1	1P	2	2	2	2	9995C	2C	4C 9995C	3C	2	2	2	2	2	2	2	2	1	4						
24	2	1	1	1	1	1	1	1P	1	1	1	1	1	2	2C 9995C	4C	3	2	2	2	2	2	2	2	1	4						
25	1	1	1	1	1	1	1	1P	1	1	1	2	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	1	2						
26	1	1	1	1	1	1	1	1P	2	2	2	2	2	2	2C 9995C	4C	3	2	2	2	2	2	1	1	1	4						
27	1	1	1	1	1	1	1	1P	1	1	1	2	1	2	2C 9995C	4C	2	2	2	2	2	2	2	2	1	4						
28	1	1	1	1	1	1	1	2P	2	2	2	2	2	2	2C 9995C	3C	2	2	2	2	2	2	2	1	3							
29	2	2	2	2	1	1	1	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	1	2						
30	2	1	2	1	1	2	2	2P	2P	3P	3	2	9995C	2C	2C 9995C	4C	2	2	2	2	2	2	2	2	1	4						
31																																

Flags: Monthly: 2 Ave 1 Min 8 Max

b = Bad Condition - Invalid Hour (9980)
 C = Calibration - Valid Hour
 c = Calibration - Invalid Hour (9995)
 d = Off-Line Part of Hour - Invalid Hour (9979)
 P = Power Failure - Valid Hour

Monthly Matrix PM2.5 (HL11)

Station/Facility: HL11
 Parameter: PM2.5 (ug/m3) Particulate Matter 2.5 ug/m3
 Month/Year: Jun 2009

Day	HOUR BEGINNING (Local Standard Time)																								Min	Max	
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
01	9	7	6	6	6	1	2	7	4	3	5	6	6	4	4	8	8	8	5	8	6	2	3	5	4	1	9
02	4	6	7	7	9	8	6	5	6	7	5	5	7	4	6	8	5	7	7	6	6	7	9	9	4	4	9
03	5	9	6	6	9	8	10	10	7	7	5	3	5	7	5	5	6	5	5	5	5	5	7	7	6	3	10
04	7	5	4	6	3	1	2	4	4	3	5	6	3	4	6	7	5	7	10	10	10	8	9	10	1	1	10
05	10	10	8	8	6	6	7	6	5	6	9	10	5	3	4	4	4	4	7	8	9	9	7	8	7	3	10
06	8	10	8	6	3	2	3	5	6	7	6	5	4	1	2	6	7	6	4	4	5	3	2	3	6	1	10
07	8	5	4	6	5	5	6	8	6	4	3	4	6	8	7	7	7	10	12	10	10	7	6	5	7	3	12
08	8	6	4	4	7	6	5	6	5	5	4	4	5	4	6	6	3	6	6	5	4	4	6	6	5	3	8
09	7	4	5	4	6	8	5	4	5	5	3	2	3	2	-2	2	5	2	3	4	2	4	4	4	6	-2	8
10	6	3	6	8	4	4	8	8	6	4	2	0	1	3	0	0	4	4	4	4	5	6	6	9	10	0	10
11	8	6	4	5	4	3	4	4	4	6	2	0	5	4	2	4	3	6	8	7	8	10	9	7	0	10	
12	5	8	9	9	10	10	7	8	6	5	7	7	9	10	7	7	10	11	9	6	6	8	11	12	8	5	12
13	6	7	6	6	6	7	6	6	6	5	4	9	8	6	9	11	9	7	8	8	10	11	7	7	4	11	
14	9	6	6	7	6	6	6	4	6	8	6	8	8	4	4	6	6	8	10	11	8	7	10	11	4	11	
15	8	7	9	10	10	8	7	10	9	5	8	5	5	9	8	8	7	5	4	8	11	11	10	7	4	11	
16	4	4	6	7	8	5	4	4	4	3	9979d	5	8	0P	4	4	1	1	4	6	5	8	7	5	0	8	
17	4	5	6	8	8	4	3	5	3	0	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	0	8
18	1	-1	2	3	4	4	1	1	3	0	0	3	2	2	2	2	1	3	2	2	4	3	2	1	-1	4	
19	-1	-1	-1	-2	-1	2	3	2	4	6	8	9	9	8	6	7	7	6	6	4	4	4	4	2	-2	9	
20	1	3	3	3	2	3	5	4	2	3	3	1	3	2	0	0	1	4	6	6	7	8	7	5	0	8	
21	3	1	1	4	6	5	4	2	3	4	5	5	3	1	1	3	4	3	4	6	7	4	4	5	1	7	
22	4	0	1	4	5	3	0	0	2	1	1	3	5	5	3	2	0	-1	1	1	2	2	4	5	-1	5	
23	2	3	2	0	0	0	2	3	3	5	4	1	0	3	6	4	4	4	4	4	5	6	7	2	0	7	
24	0	2	5	5	2	0	1	2	2	1	0	1	0	-1	2	2	0	2	2	3	5	2	1	2	-1	5	
25	2	2	1	1	0	0	-1	0	0	2	1	1	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	-1	2	
26	0	-1	-1	-2	-1	0	1	2	3	1	3	5	5	6	6	7	6	3	4	4	4	6	4	2	-2	7	
27	2	4	3	4	6	4	2	2	2	3	7	5	2	5	7	7	6	7	4	1	3	3	4	4	1	7	
28	3	1	-1	2	3	2	2	0	0	2	3	-2	-4	0	-1	-2	-2	-1	0	0	1	2	3	4	-4	4	
29	4	3	2	4	4	1	0	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	0	4	
30	2	2	0	-1	1	1	1	2	0P	0P	0	3	4	5	4	0	1	3	4	3	4	7	5	3	-1	7	
31																											

Flags: b = Bad Condition - Invalid Hour (9980)
 d = Off-Line Part of Hour - Invalid Hour (9979)
 P = Power Failure - Valid Hour

Monthly: Ave Min Max

Wind Speed (HL11)

Station/Facility: HL11
 Parameter: WS (MPH) Wind Speed
 Month/Year: Jun 2009

Day	HOUR BEGINNING (Local Standard Time)																														Min	Max
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23								
01	2.8	2.7	2.5	2.4	2.5	2.7	3.0	1.7P	2.7	3.2	3.7	4.7	6.2	6.5	5.6	5.3	4.4	3.9	2.5	2.5	3.4	3.6	3.2	2.7	2.7	1.7	6.5					
02	2.8	2.7	3.1	2.9	2.8	3.2	2.9	1.4P	1.9	3.7	4.8	3.5	5.4	5.6	5.7	4.8	3.9	2.9	2.1	1.2	1.9	2.7	2.6	2.3	1.2	5.7						
03	2.6	2.1	2.6	2.2	2.5	2.2	2.5	2.0P	2.8	4.6	5.3	5.5	6.6	6.9	6.5	4.6	4.3	4.3	3.6	2.8	1.4	1.3	1.8	2.5	1.3	6.9						
04	3.2	2.7	3.9	3.4	2.7	3.0	2.4	1.3P	2.9	2.1	3.1	2.5	2.3	2.4	4.1	4.3	3.8	2.2	1.8	1.7	1.9	2.1	2.6	2.8	1.3	4.3						
05	3.0	3.1	4.5	4.4	2.2	2.7	3.4	3.9P	2.7	3.1	3.1	3.8	4.5	5.5	3.4	5.1	3.8	3.8	2.8	1.3	2.1	1.2	2.5	2.9	1.2	5.5						
06	3.2	3.2	3.0	3.2	5.5	3.5	2.8	3.0P	2.0	2.9	5.3	6.3	6.3	5.1	5.4	3.8	3.6	2.7	3.8	3.2	2.9	2.9	3.0	3.2	2.0	6.3						
07	3.0	3.3	2.8	2.3	4.3	4.6	3.2	3.7P	2.8	1.7	2.4	3.8	2.3	3.1	2.0	2.2	1.9	2.4	1.4	2.1	2.5	2.5	2.6	2.6	1.4	4.6						
08	3.0	3.4	4.2	4.1	4.2	3.3	4.4	3.3P	2.0	2.5	4.4	5.1	5.5	5.5	5.3	4.8	3.9	4.1	2.7	1.8	1.7	1.3	1.7	2.9	1.3	5.5						
09	2.6	2.8	3.2	3.3	3.1	3.6	3.3	2.0P	2.5	3.3	4.2	4.5	4.9	5.2	4.7	4.5	5.1	3.7	1.6	2.0	2.3	2.3	2.5	2.4	1.6	5.2						
10	2.5	2.6	3.3	3.3	3.3	1.8	2.6	1.8P	2.9	4.7	4.9	5.0	4.7	5.2	5.2	4.2	3.5	2.4	1.7	1.1	2.0	2.5	2.2	3.3	1.1	5.2						
11	3.4	2.8	2.9	3.0	3.0	3.5	5.0	2.2P	3.4	3.0	4.8	4.7	5.2	4.6	3.4	4.6	3.7	2.6	2.7	2.6	2.7	3.0	2.5	2.4	2.2	5.2						
12	2.3	2.6	2.4	2.5	3.4	3.4	3.5	2.6P	2.6	2.2	4.3	5.1	5.9	6.9	4.3	3.8	3.4	2.5	1.3	1.9	1.9	2.9	2.6	3.0	1.3	6.9						
13	3.1	2.9	2.6	2.6	3.0	3.3	3.7	2.9P	1.6	2.1	2.8	3.6	4.1	4.2	3.3	3.6	2.5	2.0	1.7	2.4	3.0	4.3	3.4	3.4	1.6	4.3						
14	3.9	2.7	3.1	2.8	3.2	2.5	3.9	4.1P	2.7	3.0	4.7	3.7	5.1	4.3	2.6	3.7	4.2	4.6	3.9	2.1	1.7	2.3	3.2	2.7	1.7	5.1						
15	2.5	2.2	2.4	2.4	2.5	2.7	2.6	1.9P	2.0	2.7	3.0	2.4	3.4	3.4	4.6	4.6	4.8	4.4	2.0	0.8	1.7	2.5	2.6	3.0	0.8	4.8						
16	3.1	3.3	2.1	3.1	2.3	2.8	2.5	2.7P	2.5	2.0	2.6	3.0	2.2	2.6P	3.9	4.5	4.2	4.2	2.6	1.6	1.6	2.2	2.5	2.8	1.6	4.5						
17	2.6	3.3	3.9	3.2	3.4	3.5	3.1	3.4P	1.7	2.2	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	1.7	3.9						
18	2.3	2.6	2.4	2.3	3.0	1.9	4.7	3.5P	2.5	1.2	3.1	3.3	5.6	5.3	4.2	3.4	4.0	3.3	4.8	3.7	2.8	3.2	3.7	3.5	1.2	5.6						
19	2.8	2.9	3.6	4.3	2.3	2.5	3.8	1.9P	2.9	4.0	4.8	3.9	5.1	4.7	5.1	5.3	4.7	3.4	2.3	1.7	2.6	2.7	2.7	2.8	1.7	5.3						
20	3.1	3.3	4.0	4.1	4.1	3.7	3.4	4.2P	2.6	3.7	4.2	5.0	5.9	5.7	2.7	3.6	4.9	4.9	2.3	2.9	2.3	2.7	2.6	2.4	2.3	5.9						
21	2.8	3.4	3.6	3.4	3.3	5.1	3.6	3.4P	1.8	2.9	5.0	5.7	2.7	4.3	4.2	4.2	3.7	3.3	2.3	3.5	4.1	5.4	3.0	3.8	1.8	5.7						
22	3.5	2.3	2.2	3.6	2.9	2.3	2.2	2.6P	3.1	3.7	2.9	4.3	5.3	5.0	7.5	4.0	4.0	2.9	1.8	2.1	2.7	3.0	3.6	3.7	1.8	7.5						
23	3.1	3.2	2.7	2.9	2.5	2.2	2.8	4.0P	2.0	2.9	4.9	5.3	5.1	4.9	3.3	3.9	3.0	2.7	3.2	2.5	3.7	3.5	3.1	4.3	2.0	5.3						
24	3.3	3.2	3.2	2.0	3.6	4.3	4.8	4.7P	3.3	2.3	3.1	4.0	4.4	4.2	6.0	3.9	1.7	3.2	3.5	3.7	3.9	3.0	2.4	3.2	1.7	6.0						
25	3.2	4.2	4.5	4.2	3.5	3.7	3.3	3.6P	4.7	3.5	2.6	2.3	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	2.3	4.7						
26	4.2	4.1	3.6	2.4	3.2	4.3	5.4	3.8P	3.0	3.8	2.4	3.5	4.8	4.9	5.3	5.7	3.7	3.4	3.9	4.1	2.0	2.5	2.5	2.6	2.0	5.7						
27	2.5	3.2	5.1	5.0	4.4	3.9	3.8	2.8P	2.3	1.8	2.8	4.1	4.9	5.5	4.4	5.2	4.5	4.2	2.4	4.1	3.2	2.7	2.6	3.2	1.8	5.5						
28	3.4	3.5	3.8	3.8	3.6	2.5	3.5	2.1P	1.6	4.3	4.0	5.9	3.9	4.4	4.8	3.8	5.0	2.5	1.9	2.9	3.2	2.9	3.5	3.3	1.6	5.9						
29	3.6	3.4	3.5	3.5	4.0	4.2	4.2	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	3.4	4.2						
30	4.0	3.9	3.5	3.7	4.0	4.1	3.9	2.0P	2.4P	4.3P	4.5	4.6	4.8	3.6	2.6	2.1	1.9	2.8	2.6	2.4	2.8	2.7	2.7	2.7	1.9	4.8						

Flags: Monthly: 3.3 Ave 0.8 Min 7.5 Max
 b = Bad Condition - Invalid Hour (9980)
 P = Power Failure - Valid Hour

Wind Direction (HL11)

Station/Facility: HL11
 Parameter: WD (DEG) Wind Direction
 Month/Year: Jun 2009

		HOUR BEGINNING (Local Standard Time)																							
Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	
01	274	256	263	260	262	261	260	250P	117	111	53	35	53	63	52	64	57	56	34	311	279	283	297	284	
02	278	275	274	263	261	265	265	305P	269	69	101	97	64	47	52	55	51	42	52	155	243	250	247	251	
03	262	265	265	258	229	260	262	187P	147	119	117	126	106	110	107	96	100	104	111	143	135	262	268	263	
04	251	241	268	265	253	264	268	282P	78	199	110	62	24	15	49	56	63	42	22	261	252	261	261	260	
05	268	241	270	271	280	250	244	275P	91	50	94	74	57	61	44	64	52	61	70	282	246	246	257	258	
06	250	266	261	268	281	269	268	302P	336	29	68	63	65	57	63	41	92	159	262	271	271	263	258	255	
07	257	265	260	250	273	273	237	262P	266	277	37	55	278	285	303	265	99	107	93	262	262	261	262	266	
08	261	260	257	259	258	265	274	284P	43	23	67	62	61	44	62	66	51	59	50	293	263	312	268	257	
09	260	266	256	258	263	256	269	298P	83	63	47	54	69	62	59	46	61	57	26	324	281	269	270	258	
10	263	255	254	258	258	267	253	220P	79	64	55	59	52	57	58	41	44	51	54	279	261	255	247	259	
11	254	260	261	261	253	259	272	234P	256	131	94	47	71	65	72	111	98	358	20	12	273	264	264	262	
12	260	263	262	257	252	256	257	253P	109	321	80	65	100	106	115	76	65	92	46	301	277	272	268	259	
13	257	260	265	264	260	264	273	270P	240	125	98	60	77	63	65	53	63	256	260	265	271	281	273	262	
14	261	268	261	266	260	236	262	270P	227	122	106	31	102	108	184	95	107	115	116	138	196	242	240	254	
15	261	268	265	266	273	268	262	256P	67	54	26	340	116	77	91	82	97	116	140	176	183	146	248	244	
16	248	286	233	272	267	266	266	263P	287	168	263	282	233	103P	111	120	116	111	119	120	250	263	257	263	
17	264	261	256	258	259	259	259	268P	134	77	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
18	257	269	263	266	262	270	277	256P	8	319	49	63	57	58	47	32	60	52	63	70	342	255	282	269	
19	241	272	325	277	251	251	274	314P	24	41	60	37	60	52	59	75	64	54	49	306	268	263	271	257	
20	258	260	256	259	256	252	270	282P	1	71	79	62	53	60	23	42	61	69	40	272	264	269	265	263	
21	267	276	268	266	236	267	273	267P	239	65	68	69	36	63	46	21	49	44	357	291	283	282	269	257	
22	267	297	265	272	266	273	245	285P	254	281	331	71	60	61	66	42	24	320	270	260	256	230	271	282	
23	279	272	282	270	325	288	267	281P	336	57	347	356	65	61	65	54	43	50	60	258	273	281	265	276	
24	267	297	295	269	266	275	287	298P	266	296	92	67	32	45	54	55	35	50	282	270	273	264	284	287	
25	255	245	265	266	267	251	258	277P	239	244	263	22	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
26	262	266	266	249	254	268	279	279P	281	273	343	44	64	61	54	65	44	50	64	61	338	280	269	263	
27	263	298	278	277	274	271	272	301P	345	26	6	42	59	62	52	59	52	60	352	276	269	259	268	258	
28	258	261	259	257	258	251	260	260P	194	76	67	60	66	54	53	58	62	47	40	281	272	266	264	262	
29	256	262	261	260	259	259	260	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
30	258	259	263	261	262	260	261	202P	126P	89P	51	53	53	48	36	30	20	275	264	253	260	266	260	263	
31																									

Flags: Monthly Ave: 189
 b = Bad Condition - Invalid Hour (9980)
 P = Power Failure - Valid Hour

Monthly Matrix SO2 (KN12)

Station/Facility: KN12
Parameter: SO2 (PPB) Sulfur Dioxide
Month/Year: Jun 2009

		HOUR BEGINNING (Local Standard Time)																								Min	Max							
Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31		
01	0	0	0	0	0	0	0	0P	1	1	9995C	2	2	3	2	1	2C 9995C	5C	2	2	1	0	0	0	0	0	0	0	0	0	0	5		
02	0	0	-1	-1	-1	-1	-1	0P	2	3	9995C	5	1	9995C	7	9	8	5	6	5	4	3	3	1	-1	-1	9							
03	1	0	0	0	0	0	0	0P	1	1	9995C	2	1	1	2	2	2	3	2	1	9978p	9978p	9978p	9978p	9978p	0	3							
04	9978p	9978p	9978p	9978p	9978p	9978p	9978p	2P	4	3	9995C	5	6	7	13	14	11	3	3	1	1	1	1	1	1	1	14							
05	0	0	0	0	0	1	0	0P	1	1	9995C	1	2	3	1	1	2	2	4	4	2	2	2	1	2	0	4							
06	2	2	1	2	1	1	0	2P	11	13	9995C	20	21	19	20	20	19	16	14	7	4	5	7	7	0	21								
07	5	4	4	3	3	2	1	2P	6	9	9995C	11	3	14	12	9	13	12	8	4	3	4	3	2	1	14								
08	1	0	1	0	0	0	0	0P	3	7	9995C	14	10	5	15	22	25	16	10	8	8	8	6	5	0	25								
09	5	3	3	3	1	0	0	1P	3	2	9995C	3	2	9995C	1	0	0	0	0	0	0	0	0	0	0	5								
10	0	0	0	0	-1	0	0	0P	3	3	9995C	3	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	3								
11	9978p	9978p	9978p	9978p	9978p	9978p	9978p	0P	0	1	9995C	4	2	0	1	1	0	0	0	0	0	-1	-1	0	-1	4								
12	3	2	5	3	2	1	3	3P	3	3	9995C	5	6	13	2	1	1	1	0	-1	-1	-1	-1	0	-1	13								
13	0	0	0	0	0	0	0	0P	0	1	9995C	2	2	2	2	1	1	4	2	1	3	3	2	2	0	4								
14	3	1	1	1	0	0	0	0P	1	2	9995C	4	4	4	2	1	5	7	6	6	4	3	3	3	0	7								
15	2	2	1	1	1	1	1	1P	1	2	9995C	4	4	3	1	1	0	0	0	0	2	4	5	2	0	5								
16	2	1	1	0	0	0	0	0P	3	3	9995C	4	2	9995C	5	4	3	3	1	0	1	0	2	4	0	5								
17	5	3	2	1	0	0	0	0P	2	4	9995C	5	5	5	6	9	9	12	12	11	11	7	10	11	0	12								
18	5	2	2	1	0	0	0	1P	5	9	9995C	15	14	11	12	14	16	14	13	12	8	5	2	1	0	16								
19	1	2	1	1	1	0	0	0P	2	5	9995C	14	11	14	13	12	14	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	14								
20	9978p	9978p	9978p	9978p	9978p	9978p	9978p	2P	5	2	9995C	3	2	5	12	16	15	12	9	7	4	3	1	1	1	16								
21	1	0	0	0	0	0	0	1P	5	10	9995C	12	12	12	16	18	13	9	5	3	2	1	2	2	0	18								
22	2	2	1	2	2	2	2	2P	3	4	9995C	6	6	5	4	2	4	3	3	1	0	0	0	1	0	6								
23	1	1	1	1	1	2	1	2P	7	12	9995C	19	15	9995C	10	10	6	6	5	4	1	1	1	0	0	19								
24	0	0	0	0	0	0	0	0P	1	2	9995C	10	10	13	12	12	11	10	13	11	6	4	3	2	0	13								
25	2	2	2	1	1	1	1	3P	7	2	9995C	2	3	11	14	16	18	19	22	11	6	1	1	2	1	22								
26	2	2	3	2	1	0	1	1P	4	4	9995C	5	4	4	4	5	4	6	9	11	7	4	3	4	0	11								
27	7	6	4	3	2	1	2	4P	9	12	9995C	32	3	2	1	0	0	1	1	0	0	0	1	1	0	32								
28	0	0	0	1	0	0	0	0P	3	7	9995C	9	17	14	13	20	12	3	2	1	1	1	1	1	0	20								
29	2	2	1	0	0	0	0	1P	9	9	9995C	9	5	2	3	3	4	11	12	11	7	4	5	8	0	12								
30	15	11	10	8	3	5	4	6P	9	7	9995C	4	3	9995C	3	2	2	3	5	3	1	3	7	6	1	15								
31																																		

Flags:
 C = Calibration - Valid Hour
 c = Calibration - Invalid Hour (9995)
 P = Power Failure - Valid Hour
 p = Power Failure - Invalid Hour (9978)

Monthly: 4 -1 32
 Ave Min Max

Monthly Matrix PM2.5 (KN12)

Station/Facility: KN12
 Parameter: PM2.5 (ug/m3) Particulate Matter 2.5 ug/m3
 Month/Year: Jun 2009

HOUR BEGINNING (Local Standard Time)

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Min	Max
01	24	25	20	21	17	17	12	12	13	17	18	17	12	28	22	26	17	22	22	24	14	17	22	22	12	28
02	19	11	14	8	8	9	10	10	9	9	11	14	12	12	12	17	23	20	26	17	22	13	18	22	8	26
03	21	20	22	18	22	17	16	18	16	15	15	18	18	13	17	16	14	9	15	9978p	9978p	9978p	9978p	9978p	9	22
04	9978p	9978p	9978p	9978p	9978p	9978p	9978p	14	19	19	15	18	19	23	20	23	29	27	25	21	29	21	26	22	14	29
05	25	25	27	20	17	17	19	12	15	19	16	16	12	15	20	12	18	10	17	22	17	18	16	19	10	27
06	21	24	24	24	22	26	18	19	22	24	24	22	26	28	30	33	36	36	34	31	29	23	24	27	18	36
07	29	25	29	30	28	29	24	26	14	14	16	17	21	14	26	28	30	34	34	25	19	19	17	20	14	34
08	27	24	18	16	20	15	10	17	16	17	23	24	28	26	21	27	34	35	33	28	30	30	27	25	10	35
09	19	28	27	28	18	21	15	12	14	9	9	9	11	11	8	6	8	11	18	19	15	20	15	16	6	28
10	13	14	15	17	14	2	4	7	7	7	7	6	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	2	17	
11	9978p	9978p	9978p	9978p	9978p	9978p	9978p	7	6	6	6	5	8	10	6	4	7	9	10	9	8	5	7	9	4	10
12	10	15	11	12	15	10	10	11	10	9	9	9	10	11	22	11	9	14	7	8	10	10	7	9	7	22
13	11	7	8	10	9	11	13	11	8	15	14	6	10	13	19	19	12	20	25	19	21	20	16	6	25	
14	15	24	20	20	19	17	16	16	10	11	13	16	18	19	21	19	24	32	32	34	29	27	28	19	10	34
15	16	20	24	19	24	20	18	16	14	14	11	14	14	18	19	16	18	17	19	15	22	22	22	28	11	28
16	22	22	17	20	23	19	14	15	19	14	18	20	13	15	14	16	17	21	25	20	15	18	14	20	13	25
17	24	25	22	17	17	18	14	13	20	16	22	21	19	21	25	25	34	30	37	30	32	30	26	30	13	37
18	31	21	23	17	16	19	21	18	16	22	22	29	24	26	25	27	34	32	31	25	27	30	22	18	16	34
19	19	19	18	21	18	18	12	13	14	8	14	10	16	19	22	25	27	9978p	9978p	9978p	9978p	9978p	9978p	9978p	8	27
20	9978p	9978p	9978p	9978p	9978p	9978p	9978p	19	18	21	10	15	15	21	23	33	36	33	35	30	26	26	28	22	10	36
21	25	20	17	27	24	21	19	22	25	29	23	20	23	28	30	33	36	29	25	25	17	20	18	19	17	36
22	20	20	20	19	20	24	20	23	17	21	21	21	20	22	20	19	15	21	20	21	17	23	22	19	15	24
23	21	17	20	15	15	18	24	22	20	22	18	20	15	18	13	32	29	17	18	23	15	12	12	10	10	32
24	7	6	6	7	10	11	11	9	9	11	11	11	17	16	19	17	18	22	21	29	30	25	23	20	6	30
25	19	16	17	20	17	16	15	14	15	7	5	2	5	11	17	20	24	25	28	29	25	21	14	2	29	
26	13	13	13	13	16	16	7	8	10	12	15	19	17	14	21	18	22	21	20	27	30	32	24	20	7	32
27	20	24	26	24	23	16	12	15	16	17	16	16	28	5	7	8	7	7	14	11	10	8	9	10	5	28
28	10	9	7	17	15	17	15	14	14	15	14	12	12	25	21	24	26	26	24	19	21	17	16	14	7	26
29	13	16	14	7	9	9	10	12	9	10	13	10	9	10	7	9	13	12	18	14	19	17	19	22	7	22
30	24	32	25	25	19	15	16	18	20	20	14	5	15	6	8	17	10	14	20	23	17	20	26	21	5	32

Flags: p = Power Failure - Invalid Hour (9978) Monthly: Ave 18 2 37 Min Max

Wind Speed (KN12)

Station/Facility: KN12
 Parameter: WS (MPH) Wind Speed
 Month/Year: Jun 2009

HOUR BEGINNING (Local Standard Time)

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Min	Max
01	1.2	3.9	4.1	5.2	4.9	5.5	5.4	3.8P	2.7	4.1	5.4	5.9	5.3	4.1	3.3	2.4	3.0	3.0	3.2	2.3	1.8	3.2	2.6	2.4	1.2	5.9
02	2.8	4.4	6.2	5.6	5.7	6.5	5.3	3.7P	3.6	4.5	4.3	4.4	4.5	3.1	3.2	3.5	2.7	1.8	2.8	1.5	0.9	1.5	1.3	2.3	0.9	6.5
03	3.8	3.0	5.2	4.5	4.4	4.0	4.3	3.1P	2.3	4.2	4.5	5.2	5.8	5.0	4.2	4.6	5.0	4.1	1.7	1.8	9978p	9978p	9978p	9978p	1.7	5.8
04	9978p	9978p	9978p	9978p	9978p	9978p	9978p	2.8P	2.7	4.4	3.8	4.8	5.1	6.4	6.7	6.0	5.2	4.2	2.0	3.1	3.9	4.1	5.1	3.9	2.0	6.7
05	4.8	4.3	4.3	4.7	3.3	4.1	3.1	2.4P	2.5	4.1	5.2	5.0	4.9	5.6	3.3	6.1	5.4	4.5	3.0	1.6	1.5	1.5	2.3	2.7	1.5	6.1
06	2.3	2.4	2.1	2.1	3.7	3.3	2.7	2.2P	2.3	4.9	4.9	4.8	3.7	3.8	4.0	4.6	5.3	4.8	2.4	2.6	2.3	3.3	3.3	3.8	2.1	5.3
07	3.5	3.0	4.1	4.4	4.3	4.7	3.5	2.6P	3.1	3.6	4.6	5.4	4.0	3.0	2.2	2.4	3.2	2.4	1.2	1.4	1.4	1.5	2.6	3.4	1.2	5.4
08	4.7	4.1	4.4	6.1	6.3	5.7	5.5	3.4P	3.5	4.2	6.0	5.8	4.5	4.2	3.5	3.5	4.2	2.3	3.2	3.0	2.9	2.6	1.4	2.5	1.4	6.3
09	3.3	3.3	4.1	3.4	4.1	4.7	3.4	2.4P	2.3	4.0	4.0	4.9	6.5	4.7	4.5	4.3	3.1	3.3	3.9	4.5	4.5	3.0	2.9	2.7	2.3	6.5
10	2.4	2.1	2.0	2.7	4.7	3.6	2.5	1.9P	3.3	4.5	4.5	3.9	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	1.9	4.7
11	9978p	9978p	9978p	9978p	9978p	9978p	9978p	1.3P	3.4	3.6	5.2	5.5	3.7	3.0	4.1	3.4	2.6	1.3	1.0	1.1	2.4	3.4	3.5	4.0	1.0	5.5
12	2.6	4.2	3.5	3.0	4.5	4.8	1.6	1.2P	3.9	4.8	4.3	5.3	5.5	5.6	4.0	2.8	2.2	2.1	3.9	3.4	3.7	2.9	3.5	4.0	1.2	5.6
13	4.1	4.4	4.8	4.0	4.2	5.6	5.6	4.4P	2.5	3.3	4.0	3.9	5.4	5.2	3.9	2.9	3.0	1.8	1.1	1.6	2.4	2.5	2.7	3.1	1.1	5.6
14	4.3	4.1	4.0	5.2	4.7	4.2	3.8	2.6P	1.8	3.8	4.4	4.5	4.5	4.5	3.7	2.0	3.2	1.4	1.7	3.6	3.0	2.8	2.7	2.4	1.4	5.2
15	2.4	3.5	4.3	4.9	5.7	6.5	5.5	4.1P	4.0	4.7	4.1	4.8	4.6	4.2	1.7	2.0	2.3	1.9	1.1	2.9	3.4	3.6	4.0	4.6	1.1	6.5
16	4.7	4.7	4.3	4.1	4.6	5.6	4.2	3.1P	2.5	2.0	4.7	4.4	5.6	6.3	4.9	3.3	2.5	1.9	3.0	3.7	2.9	3.2	2.6	2.0	1.9	6.3
17	3.1	3.5	2.6	2.4	3.2	2.9	3.7	3.1P	3.7	4.3	5.2	5.2	5.9	5.1	4.0	4.6	3.7	2.9	2.8	1.3	1.0	1.3	1.8	1.7	1.0	5.9
18	1.2	1.4	1.5	1.7	3.0	4.6	4.1	3.0P	2.4	3.3	3.8	4.4	5.1	6.4	5.2	4.8	3.8	3.9	3.2	2.4	1.7	2.0	3.2	4.6	1.2	6.4
19	3.9	3.1	3.0	2.4	2.7	3.0	3.2	2.4P	2.8	2.6	3.8	3.4	2.2	2.0	2.2	2.7	3.1	9978p	9978p	9978p	9978p	9978p	9978p	9978p	2.0	3.9
20	9978p	9978p	9978p	9978p	9978p	9978p	9978p	2.4P	2.9	3.6	4.4	5.3	5.4	5.3	5.5	5.3	5.1	4.5	2.0	1.0	2.2	1.3	2.3	3.7	1.0	5.5
21	3.3	3.2	4.0	4.2	4.6	3.9	3.8	2.8P	2.7	4.8	4.4	4.6	4.9	5.2	4.3	2.2	1.3	1.6	1.6	2.1	2.7	3.3	2.9	3.4	1.3	5.2
22	3.7	3.3	3.1	3.4	3.6	4.8	3.8	2.5P	3.4	4.6	4.6	4.3	4.2	4.1	2.1	2.1	1.2	1.4	0.9	2.5	3.2	3.6	3.0	3.4	0.9	4.8
23	3.5	4.6	4.2	4.6	5.9	5.6	5.2	3.6P	2.1	4.4	4.8	5.3	6.9	4.6	4.4	4.0	3.4	1.9	2.6	2.6	1.9	2.3	1.7	4.0	1.7	6.9
24	3.8	5.3	4.7	5.2	5.2	4.2	6.3	5.3P	2.8	3.8	3.8	2.5	3.9	2.3	3.4	3.1	2.6	1.6	3.5	2.8	3.3	3.4	4.2	4.6	1.6	6.3
25	4.7	4.8	4.8	4.0	3.6	4.4	2.9	2.0P	4.4	4.0	4.4	4.1	4.3	4.5	3.1	2.8	2.6	2.5	2.0	3.0	3.1	4.9	3.1	3.6	2.0	4.9
26	4.7	3.1	3.0	3.5	3.9	5.5	5.0	3.9P	2.8	3.8	4.0	4.7	5.0	5.3	4.4	4.5	3.8	2.3	1.3	1.3	2.5	2.9	2.9	2.3	1.3	5.5
27	2.8	3.2	3.7	4.6	5.1	6.4	6.0	4.6P	4.1	3.9	4.7	5.4	4.9	3.5	3.6	3.6	4.9	4.2	2.5	2.1	2.7	1.8	3.9	2.7	1.8	6.4
28	3.2	3.7	4.1	5.5	5.5	5.1	5.6	4.7P	4.1	5.1	5.1	3.7	5.4	4.6	3.6	3.2	2.1	4.0	5.9	5.8	4.5	4.2	3.4	2.9	2.1	5.9
29	2.7	3.6	4.2	5.3	4.7	4.6	3.4	4.2P	3.6	4.9	5.1	4.6	5.1	3.7	2.7	1.9	1.4	2.8	1.3	0.7	1.7	2.6	2.8	2.4	0.7	5.3
30	3.3	4.4	5.7	3.5	5.1	5.4	4.3	4.0P	3.0	3.9	4.5	5.1	5.7	3.7	3.6	2.9	1.3	0.8	1.2	2.1	4.5	2.1	2.7	3.0	0.8	5.7

Flags: P = Power Failure - Valid Hour
 p = Power Failure - Invalid Hour (9978)

Monthly: 3.6 Ave 0.7 Min 6.9 Max

Wind Direction (KN12)

Station/Facility: KN12
 Parameter: WD (DEG) Wind Direction
 Month/Year: Jun 2009

Day	HOUR BEGINNING (Local Standard Time)																							
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23
01	64	78	77	71	71	65	69	44P	270	257	265	282	296	310	307	336	284	248	217	179	90	66	70	94
02	72	77	67	78	77	76	67	36P	269	243	234	246	261	260	264	285	296	3	298	324	356	8	10	57
03	55	58	55	63	63	70	77	102P	227	242	256	251	266	289	292	292	284	307	68	103	9978p	9978p	9978p	9978p
04	9978p	9978p	9978p	9978p	9978p	9978p	9978p	109P	237	260	263	259	271	280	283	286	287	288	342	93	97	83	89	73
05	81	74	81	86	75	78	75	71P	313	294	258	290	310	292	296	301	317	323	340	351	53	56	81	83
06	66	52	73	50	67	67	63	55P	277	293	284	261	266	273	281	301	311	311	345	49	43	61	72	73
07	67	67	71	67	70	68	71	62P	253	260	256	266	288	330	336	342	333	353	348	29	44	55	56	49
08	66	68	70	73	71	71	71	80P	288	274	267	273	271	278	270	293	292	16	81	73	67	60	55	69
09	70	66	77	71	69	69	48	17P	321	266	279	277	274	280	267	279	32	33	80	98	95	85	86	80
10	68	54	77	69	80	67	60	41P	280	272	280	281	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p
11	9978p	9978p	9978p	9978p	9978p	9978p	9978p	110P	248	262	267	272	274	250	275	268	307	197	354	102	75	96	95	106
12	86	85	90	80	88	97	32	35P	180	173	186	219	253	258	284	331	18	23	72	56	61	66	77	81
13	94	99	91	77	71	73	81	77P	297	236	256	255	271	261	288	286	301	353	339	41	55	64	64	65
14	74	62	69	75	73	72	72	63P	326	278	267	261	267	277	271	327	314	6	25	54	64	60	63	65
15	61	65	73	74	75	73	73	63P	269	293	279	266	279	298	350	23	66	43	44	81	71	74	72	70
16	73	72	61	69	75	81	76	63P	254	289	264	258	282	287	297	308	302	304	48	75	63	56	43	46
17	49	41	31	41	58	56	69	46P	311	305	285	284	297	291	294	299	304	296	259	228	184	317	217	253
18	86	55	39	64	68	82	81	69P	201	241	257	272	277	285	269	274	268	284	266	271	91	107	95	97
19	101	98	98	100	71	72	82	59P	250	214	235	226	232	276	357	30	8	9978p	9978p	9978p	9978p	9978p	9978p	9978p
20	9978p	9978p	9978p	9978p	9978p	9978p	9978p	108P	212	246	254	259	258	282	285	272	266	261	236	173	105	88	76	89
21	81	85	89	86	81	74	76	54P	331	283	281	273	265	270	291	284	290	287	28	63	76	90	94	82
22	85	75	72	65	61	87	89	101P	212	251	269	288	311	322	34	52	66	131	154	89	71	60	62	71
23	77	85	77	78	84	78	79	64P	308	272	285	272	267	275	277	269	275	326	331	32	349	278	311	91
24	104	93	92	86	86	76	84	95P	159	210	260	266	273	281	194	177	169	172	84	75	85	91	90	86
25	82	82	90	94	92	93	74	59P	255	266	251	289	296	275	288	275	271	244	264	89	81	81	70	70
26	74	55	58	60	71	80	79	102P	195	225	229	239	240	257	280	292	274	355	353	30	63	84	93	74
27	79	82	79	82	79	88	88	107P	195	203	206	198	178	151	122	134	189	200	154	115	95	44	109	117
28	101	89	90	89	89	86	97	107P	182	211	205	219	260	275	262	272	274	52	75	81	80	76	70	58
29	59	71	79	84	83	81	96	94P	172	190	195	207	206	198	181	183	186	232	203	325	44	56	69	51
30	70	87	84	83	71	75	76	79P	233	260	264	257	252	216	208	193	155	165	175	85	92	110	103	94
31																								

Flags: P = Power Failure - Valid Hour
 p = Power Failure - Invalid Hour (9978)
 Monthly Ave: 161

Monthly Matrix SO2 (PE10)

Station/Facility: PE10
 Parameter: SO2 (PPB) Sulfur Dioxide
 Month/Year: Jun 2009

HOUR BEGINNING (Local Standard Time)

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Min	Max		
01	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	
02	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9995c	1C	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	1
03	-1	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	-1P	-1	9979d	9979d	9979d	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1
04	-1	0	-1	-1	-1	-1	-1	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	0
05	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	0	-1	9995c	0C	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0
06	-1	0	-1	-1	-1	-1	-1	-1P	9995c	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	
07	-1	0	-1	-1	-1	-1	-1	-1P	9995c	-1	-1P	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	
08	-1	0	-1	-1	-1	-1	-1	-1P	9995c	0	-1P	-1	-1P	-1	-1P	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	
09	-1	0	-1	-1	-1	-1	-1	-1P	9995c	0C	9995c	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	
10	-1	0	-1	-1	-1	-1	-1	0P	9995c	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	
11	-1	0	-1	-1	-1	-1	-1	-1P	9995c	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	
12	-1	0	-1	-1	-1	-1	-1	-1P	9995c	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	
13	-1	0	-1	-1	-1	-1	-1	-1P	9995c	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	
14	-1	0	-1	-1	-1	-1	-1	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	0	
15	9978p	9978p	9978p	9978p	9978p	9978p	9978p	-1P	9995c	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	0
16	9978p	9978p	9978p	9978p	9978p	9978p	9978p	-1P	9995c	0C	9995c	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	-1
17	-1	0	-1	-1	-1	-1	-1	-1P	9995c	-1	0	-1	9995c	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	
18	0	0	0	0	0	0	0	0P	9995c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
19	0P	1	0	0	0	0	0	0P	9995c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
20	0	1	0	0	0	0	0	0P	9995c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
21	0	1	0	0	0	0	0	0P	9995c	0	0	0	0	0P	0	0	0	0	0	0	0	0	0	0	0	0	1	
22	0	1	0	0	0	0	0	0P	9995c	0	0	0	0	0	0P	0	0	0	0	0	0	0	0	0	0	0	1	
23	0	1	0	0	0	0	0	0P	9995c	0C	9995c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
24	0	1	0	0	0	0	0	0P	9995c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
25	0	1	0	0	0	0	0	0P	9978p	2	2P	1P	1P	1	1	1	1	1	1	1	1	1	1	1	1	1	2	
26	1	393	2	1	1	1	1	1P	9995c	0	0	0	0	0	0	0	0	0P	0	0	0	0	0	0	0	0	393	
27	0	1	0	0	0	0	0	0P	9995c	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
28	0	1	1	1	0	0	0	0P	9995c	1	1	0	0	0	0	0	0	0	0P	0	0P	0	0	0	0	0	1	
29	0	1	0	0	0	0	0	0P	9995c	1D	1	1P	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
30	0	1	0	0	0	0	0	0P	9995c	0C	9995c	0	0	1P	0	0	0	0	0	0	0	0	0	0	0	0	1	
31																												

Flags: C = Calibration - Valid Hour
 c = Calibration - Invalid Hour (9995)
 D = Off-Line Part of Hour - Valid Hour
 d = Off-Line Part of Hour - Invalid Hour (9979)
 P = Power Failure - Valid Hour
 p = Power Failure - Invalid Hour (9978)