

# Monthly Matrix SO2 (HL11)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: HL11  
Parameter: SO2 (PPB) Sulfur Dioxide  
Month/Year: Sep 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	2	2	2	2	2	2	2	2	2	2	2	2	9995c	2	2C 9995c	3C 9995c	9995c	4	3	2	2	2	2	2	2	2	4
02	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2C 9995c	10C	4	3	2	2	2	2	2	2	2	2	10
03	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2C 9995c	4C	2	2	2	2	2	2	2	2	2	2	4
04	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	4C	2	2	2	2	2	2	2	2	2	2	4
05	2	2	2	2	2	2	2	2P	2	2	2	2	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	2	2
06	9979p	9979p	9979p	9979p	9979p	9979p	9979p	2P	2	2	2	2	2	2	2C 9995c	5C	3	2	2	2	2	2	2	2	2	2	5
07	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2C 9995c	4C	2	2	2	2	2	2	2	2	2	2	4
08	2	2	2	2	2	2	2	2P	2	2	2	2	9995c	2	2C 9995c	4C	3	2	2	2	2	2	2	2	2	2	4
09	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	5C	3	2	2	2	2	2	2	2	2	2	5
10	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2C 9995c	7C	3	2	2	2	2	2	2	2	2	2	7
11	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	5C	3	2	2	2	2	2	2	2	2	2	5
12	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	5C	3	2	2	2	2	2	2	2	2	2	5
13	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	5C	3	2	2	2	2	2	2	2	2	2	5
14	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	5C	3	2	2	2	2	2	2	2	2	2	5
15	2	2	2	2	2	2	2	2P	2	2	2	2	9995c	2	2C 9995c	2C	2	2	2	2	2	2	2	2	2	2	5
16	2	2	2	2	2	2	2	2P	2	2	2	2	9979d	9979d	2C 9995c	3C	2	2	2	2	2	2	2	2	2	2	3
17	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	5C	3	2	2	2	2	2	2	2	2	2	5
18	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	5C	3	2	2	2	2	2	2	2	2	2	5
19	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	5C	3	2	2	2	2	2	2	2	2	2	5
20	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	4C	2	2	2	2	2	2	2	2	2	2	4
21	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	4C	3	2	2	2	2	2	2	2	2	2	4
22	2	2	2	2	2	2	2	2	2	2	2	2	9995c	2C	2C 9995c	6C	3	2	2	2	2	2	2	2	2	2	6
23	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2C 9995c	6C	3	2	2	2	2	2	2	2	2	2	6
24	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	9979p	9995c	3	2	2	2	2	2	2	2	2	2	3
25	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	5C	3	2	2	2	2	2	2	2	2	2	5
26	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	9C	4	3	2	2	2	2	2	2	2	2	9
27	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	4C	2	2	2	2	2	2	2	2	2	2	4
28	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	5C	3	2	2	2	2	2	2	2	2	2	5
29	2	2	2	2	2	2	2	2P	2	2	2	2	9995c	2	2C 9995c	4C	2	2	2	2	2	2	2	2	2	2	4
30	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C 9995c	5C	3	2	2	2	2	2	2	2	2	2	5

Flags: Monthly: Ave 2 Min Max

C = Calibration - Valid Hour  
c = BD-Calibration Auto- Invalid Hour (9995)  
d = AM-Misc Void (9979)  
P = Power Failure - Valid Hour  
p = Power Failure - Invalid Hour (9979)

# Monthly Matrix PM2.5 (HL11)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: HL11  
 Parameter: PM2.5 (ug/m3) Particulate Matter 2.5 ug/m3  
 Month/Year: Sep 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	3	3	2	0	1	2	2	3	1	0	5	4	1	1	2	2	0	5	7	2	3	5	5	6	0	7						
02	7	4	4	4	4	4	2	2	2	4	6	7	5	4	0	0	2	5	4	2	5	5	5	4	0	7						
03	2	1	2	5	4	2	-2	0	0	5	4	4	3	2	5	3	3	4	7	6	4	2	3	2	-2	7						
04	3	5	3	2	5	5	2	4	4	1	0	0	4	5	2	4	5	2	2	2	4	3	2	3	0	5						
05	3	2	3	3	4	3	3	3	1	2	2	1	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	1	4						
06	9979p	9979p	9979p	9979p	9979p	9979p	9979p	0	0	2	3	5	3	1	-1	2	5	4	3	2	2	3	2	2	-1	5						
07	2	2	4	4	6	7	5	3	4	4	3	4	4	3	4	2	0	2	4	4	4	5	3	2	0	7						
08	2	6	7	5	5	4	1	1	4	2	2	1	3	3	6	9979d	1	-1	4	5	5	5	5	4	-1	7						
09	2	3	7	6	5	4	4	5	2	4	5	6	8	7	3	2	4	5	3	3	1	3	5	7	1	8						
10	6	3	1	0	0	1	0	2	3	0	-2	0	2	5	6	4	2	2	2	2	2	3	4	4	-2	6						
11	3	3	5	4	1	3	6	6	4	4	4	1	1	4	0	-1	1	3	4	2	4	4	5	6	-1	6						
12	3	1	2	3	5	4	3	6	4	1	3	3	0	3	4	3	3	4	5	3	2	3	4	5	0	6						
13	5	1	-1	-1	0	1	2	1	-1	2	5	3	4	1	2	4	3	5	6	4	4	5	6	6	-1	6						
14	6	3	2	3	3	6	7	3	1	3	6	4	1	2	2	0	1	3	4	6	8	8	6	5	0	8						
15	5	5	4	2	1	2	3	3	3	2	4	5	0	0	3	2	0	1	1	1	5	4	4	6	0	6						
16	3	0	-1	1	3	2	2	1	2	2	1	3	1	1	4	3	4	4	6	6	3	3	3	4	-1	6						
17	3	2	0	1	4	4	4	5	6	6	5	4	2	4	6	9	6	2	4	4	4	5	6	2	0	9						
18	-1	0	1	3	2	3	2	4	3	1	1	4	6	5	6	8	6	6	8	8	6	5	6	7	-1	8						
19	6	3	1	2	3	3	5	6	4	5	5	4	5	6	4	2	3	8	7	5	5	6	5	4	1	8						
20	4	4	1	-1	1	1	-1	-2	1	3	1	3	3	1	4	6	6	4	4	6	8	7	4	3	-2	8						
21	5	4	3	1	0	3	3	0	0	1	6	8	6	4	3	1	-1	1	3	4	4	5	7	6	-1	8						
22	7	10	11	7	6	4	5	9	7	3	3	5	6	4	3	2	1	3	2	3	5	3	2	3	1	11						
23	2	3	4	4	6	9	9	7	7	7	4	3	2	1	1	2	2	3	4	5	7	7	5	3	1	9						
24	4	4	3	3	3	4	3	4	3	2	1	0	-1	2	4	3	4	6	6	3	2	2	3	1	-1	6						
25	0	2	-1	2	6	3	1	3	4	3	0	0	2	5	3	-1	0	2	2	1	2	6	6	4	-1	6						
26	3	5	4	0	2	3	1	1	3	5	5	5	5	4	3	3	7	7	5	6	7	5	4	0	7							
27	2	4	2	0	3	3	3	5	4	3	3	4	3	1	2	3	3	4	6	8	8	6	6	4	0	8						
28	3	5	7	6	5	4	1	3	6	4	3	6	9	7	6	8	6	6	8	9	7	5	4	5	1	9						
29	4	2	4	5	8	8	3	3	4	2	3	4	5	5	1	3	5	4	5	7	8	2	1	5	1	8						
30	6	5	2	2	2	3	4	5	4	4	6	4	4	5	8	8	6	7	6	6	7	6	5	5	2	8						
31																																

Flags: Monthly: Ave 4 -2 11 Max  
 d = AM-Misc Void (9979)  
 p = Power Failure - Invalid Hour (9979)

# Wind Direction (HL11)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: HL11  
Parameter: WD (DEG) Wind Direction  
Month/Year: Sep 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	282	283	266	254	289	280	283	264	337	33	43	2	1	62	58	58	78	306	262	261	266	271	276	275
02	272	269	261	265	265	259	260	257	38	69	46	42	66	43	64	59	60	49	327	313	288	287	265	268
03	265	265	266	259	258	259	263	280	27	53	90	335	63	45	62	38	32	254	282	253	287	280	262	274
04	266	255	268	270	263	278	280	278P	285	22	37	52	58	60	57	59	59	18	321	239	276	239	263	263
05	250	256	261	259	256	267	261	250P	264	279	291	52	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p
06	9979p	9979p	9979p	9979p	9979p	9979p	9979p	261P	109	68	126	278	284	268	250	246	266	326	273	267	271	264	263	261
07	262	261	261	261	252	273	273	276	27	19	66	66	67	67	52	58	59	25	310	276	266	263	269	266
08	259	262	259	259	262	278	279	275P	239	295	339	63	88	52	54	52	59	264	270	263	260	264	263	262
09	261	269	266	260	258	261	262	258P	268	47	75	69	63	44	47	45	40	290	276	272	276	270	267	254
10	262	271	268	270	280	277	259	245	261	223	240	209	282	41	271	303	295	256	266	261	262	265	262	261
11	264	265	266	264	261	266	259	267P	308	70	59	76	60	62	62	54	44	11	326	279	261	273	269	263
12	268	268	269	261	258	258	265	280P	70	53	60	65	67	63	58	61	50	46	313	314	289	279	277	258
13	257	257	259	263	260	265	260	259P	275	51	58	70	68	65	59	60	51	355	302	275	274	270	267	266
14	260	265	257	260	259	256	260	260P	232	53	65	61	62	46	38	16	28	0	283	277	265	259	262	263
15	261	265	264	266	262	262	260	263P	150	86	64	61	64	65	67	63	55	356	276	274	274	263	262	259
16	260	262	259	258	259	257	262	223P	263	45	58	68	21	50	49	55	52	70	295	275	275	274	268	260
17	267	272	262	263	263	265	261	282P	339	57	277	107	86	62	60	67	98	55	295	267	257	210	244	259
18	265	268	262	275	255	250	263	270P	223	252	317	91	101	84	64	54	46	16	274	265	264	258	260	260
19	265	263	262	275	267	262	275	231P	267	339	50	59	60	64	63	42	44	24	304	280	266	261	255	270
20	253	264	290	278	273	296	265	244P	264	303	44	244	66	151	103	57	54	34	279	264	260	257	261	258
21	262	262	260	258	261	260	259	264P	73	65	73	67	50	54	51	43	52	46	354	248	259	257	275	264
22	260	263	262	261	259	260	261	256	163	111	67	57	61	52	48	45	64	283	305	275	254	263	232	283
23	271	262	266	261	262	260	262	261	253	75	85	67	128	59	268	30	358	293	279	275	275	272	275	274
24	274	263	262	261	255	259	262	270P	18	52	62	61	63	56	46P	48	53	359	312	267	272	274	284	294
25	263	261	263	263	261	265	268	253P	234	271	261	243	204	162	123	131	124	11	228	234	276	259	264	265
26	254	264	308	276	274	265	262	277P	339	340	346	28	58	56	58	60	32	77	77	36	81	254	255	266
27	258	283	272	264	262	331	261	271P	268	302	49	52	53	63	68	64	59	21	284	264	268	273	262	263
28	265	253	262	263	260	267	257	275P	319	139	77	46	59	52	57	70	53	13	285	265	281	273	273	281
29	277	275	264	264	261	261	286	271P	273	283	41	64	333	182	249	248	278	279	276	274	277	274	264	263
30	266	268	271	267	256	288	277	265P	269	292	279	347	56	71	55	8	52	358	288	274	284	265	267	285
31																								

Flags: P = Power Failure - Valid Hour  
p = Power Failure - Invalid Hour (9979)

Monthly Ave: 203

# Wind Speed (HL11)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: HL11  
Parameter: WS (MPH) Wind Speed  
Month/Year: Sep 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	3.4	6.7	3.8	2.8	2.9	2.9	3.6	2.8	2.0	3.8	4.8	3.6	4.5	3.7	3.6	2.5	2.6	2.9	2.8	2.0	2.7	4.3	4.5	4.5	2.0	6.7						
02	3.7	3.6	3.9	3.6	3.7	3.7	3.5	3.0	1.7	4.3	4.4	5.2	6.1	5.0	5.9	4.4	4.1	2.7	2.6	3.1	2.5	3.7	3.0	3.8	1.7	6.1						
03	3.2	3.5	3.1	3.0	3.2	3.8	3.7	2.7	2.4	3.7	4.9	2.4	5.4	3.8	5.6	3.2	3.3	3.5	3.4	2.6	3.4	3.8	3.2	4.8	2.4	5.6						
04	3.8	3.7	4.5	4.1	3.0	5.4	5.8	4.4P	3.1	3.2	3.8	4.3	5.7	5.2	4.9	5.4	4.6	3.0	2.9	2.4	2.9	2.1	1.7	2.3	1.7	5.8						
05	2.6	1.9	2.3	2.2	2.5	3.3	3.6	4.1P	4.0	4.9	4.4	3.2	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	1.9	4.9						
06	9979p	9979p	9979p	9979p	9979p	9979p	2.7P	2.0	4.5	3.3	3.8	4.0	3.4	2.4	3.2	3.1	3.0	3.1	3.6	2.9	2.8	2.9	2.7	2.0	4.5							
07	2.9	3.2	3.1	2.7	2.9	4.5	3.6	4.0	2.9	2.7	4.5	5.2	5.5	5.4	4.7	3.7	2.5	2.2	3.2	2.7	3.0	3.8	3.6	2.2	5.5							
08	2.8	2.7	2.7	2.4	3.1	5.5	5.9	4.6P	2.4	3.3	2.9	5.3	4.2	3.2	3.4	3.8	3.2	2.9	2.7	2.8	2.9	2.4	2.4	2.6	2.4	5.9						
09	2.5	2.6	3.0	3.3	3.7	3.7	3.8	3.2P	1.4	2.3	4.3	4.3	3.7	2.1	3.0	3.2	2.1	1.8	3.6	3.3	3.4	3.2	2.8	2.5	1.4	4.3						
10	2.5	3.3	3.1	3.7	5.1	4.7	2.9	3.2	2.1	3.3	3.3	2.9	4.2	3.1	4.2	3.0	3.3	2.8	2.5	2.5	2.0	2.4	2.8	3.1	2.0	5.1						
11	2.9	3.1	3.0	3.3	3.1	3.2	3.8	3.1P	1.6	3.9	4.6	6.0	5.0	4.9	4.7	3.9	2.9	2.4	2.4	3.5	3.4	3.7	3.5	3.0	1.6	6.0						
12	3.1	3.2	3.1	3.2	3.3	3.5	2.9	4.4P	2.4	3.4	4.5	5.8	5.3	5.7	5.4	4.0	3.1	2.8	2.6	3.3	2.9	2.9	2.1	2.1	5.8							
13	2.7	2.6	2.6	2.4	2.6	2.5	3.1	2.7P	3.2	4.1	4.7	5.1	5.5	4.8	5.0	4.0	2.3	2.5	3.2	3.2	3.0	2.7	2.7	2.3	5.5							
14	2.9	3.1	3.4	3.2	3.2	3.5	3.0	2.6P	1.6	3.6	5.0	5.2	5.0	4.3	3.2	2.6	2.2	1.5	3.1	4.2	2.9	2.8	2.8	3.1	1.5	5.2						
15	3.5	3.5	3.6	3.6	4.0	4.2	4.3	3.1P	2.2	4.1	4.4	5.2	5.8	5.3	5.7	5.3	3.5	2.1	3.6	4.3	3.7	3.2	3.8	4.3	2.1	5.8						
16	4.2	4.2	4.2	4.3	4.0	3.8	3.3	2.0P	2.9	2.9	3.9	6.4	3.9	4.1	4.9	3.8	3.2	3.8	4.3	4.7	3.6	3.3	2.6	3.6	2.0	6.4						
17	4.6	4.7	3.0	2.7	2.3	2.4	3.3	2.8P	3.2	2.9	3.3	3.6	3.9	3.9	4.7	5.6	2.8	2.8	1.9	1.5	2.2	2.3	3.1	4.4	1.5	5.6						
18	4.7	3.8	3.5	4.4	3.0	4.1	3.6	4.1P	3.6	3.0	2.3	3.1	4.9	5.3	4.5	4.4	2.7	2.0	2.2	2.2	2.3	3.2	3.7	3.7	2.0	5.3						
19	4.0	3.5	3.4	3.7	3.5	3.1	2.7	1.5P	4.5	3.4	3.9	5.9	6.1	6.0	5.1	4.3	3.5	2.5	2.0	3.3	2.7	2.7	3.0	3.0	1.5	6.1						
20	1.7	2.7	4.1	3.5	3.4	4.0	3.2	1.7P	3.2	2.1	2.6	1.7	2.4	2.4	2.6	4.1	3.3	2.3	1.7	2.2	2.8	3.5	3.3	3.4	1.7	4.1						
21	3.5	3.3	3.3	3.3	3.2	3.2	3.5	2.3P	2.5	3.5	4.0	4.8	5.0	5.0	4.3	2.9	2.6	2.0	0.9	1.9	1.9	2.1	2.4	2.6	0.9	5.0						
22	2.8	3.1	3.2	3.5	3.7	3.6	3.5	2.8	2.0	3.0	5.0	5.3	5.7	4.5	3.6	2.9	3.2	2.4	3.5	4.4	3.9	3.6	2.9	5.0	2.0	5.7						
23	3.1	2.2	2.4	2.7	2.5	2.6	2.7	2.4	2.0	3.9	5.9	3.2	3.1	3.1	3.3	2.6	3.0	5.2	3.6	3.3	3.5	2.9	4.4	4.4	2.0	5.9						
24	4.7	2.9	3.3	3.6	4.0	3.5	3.0	2.6P	2.7	3.5	4.2	5.7	5.8	5.3	3.7P	2.9	2.9	2.3	3.5	2.7	3.2	3.8	2.6	4.6	2.3	5.8						
25	3.2	3.2	2.7	2.9	2.8	3.1	2.6	1.7P	2.6	4.5	3.5	3.3	2.4	2.1	2.0	2.0	2.2	2.3	2.2	3.2	3.7	4.0	2.6	2.2	1.7	4.5						
26	2.5	2.8	2.9	3.0	3.7	2.7	2.4	1.5P	2.1	2.2	4.5	3.3	4.6	5.0	5.7	5.2	2.8	3.1	4.1	2.0	3.0	3.3	3.5	2.8	1.5	5.7						
27	2.6	5.3	3.9	2.7	2.9	2.2	3.5	4.6P	4.6	2.3	3.3	3.5	4.8	5.8	5.9	4.6	3.6	2.3	1.7	2.2	2.8	3.3	2.7	3.0	1.7	5.9						
28	3.6	3.1	3.3	3.2	3.5	2.8	3.3	3.7P	2.9	2.6	4.0	4.2	4.2	4.3	4.6	4.1	3.4	1.1	1.9	2.1	3.6	4.3	4.0	4.3	1.1	4.6						
29	5.1	4.4	2.5	2.7	2.7	2.9	4.9	4.5P	4.1	2.1	2.6	2.7	2.8	3.7	2.7	2.5	4.6	4.0	3.7	4.1	4.7	3.8	3.4	3.0	2.1	5.1						
30	3.2	2.7	4.0	3.2	3.7	5.5	4.8	3.8P	4.1	3.5	3.6	4.0	4.7	6.7	4.2	3.2	2.6	1.6	3.2	2.8	4.1	3.7	3.2	4.0	1.6	6.7						

Flags: Monthly: 3.4 Ave 0.9 Min 6.7 Max

P = Power Failure - Valid Hour  
p = Power Failure - Invalid Hour (9979)



# Monthly Matrix PM2.5 (KN12)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: KN12  
 Parameter: PM2.5 (ug/m3) Particulate Matter 2.5 ug/m3  
 Month/Year: Sep 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	5	7	9	8	8	5	9	10	7	5	5	5	7	9	9	7	8	6	6	8	10	8	9	11	5	11						
02	15	21	15	17	18	12	10	8	8	9	13	13	10	8	7	8	9	6	6	9	12	11	15	13	6	21						
03	11	10	11	12	11	17	10	10	10	9	11	12	11	10	9	6	9	6	6	9	11	17	22	19	4	22						
04	21	14	13	15	15	17	13	14	10	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	21						
05	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9						
06	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9						
07	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9						
08	9	9	9	9	9	9	9	9	9	12	18	19	17	15	16	8	9	12	7	25	17	16	16	16	7	25						
09	15	11	17	12	15	17	14	12	9	9	15	10	9	9	16	22	14	9	8	6	6	5	8	11	5	22						
10	14	11	11	12	11	11	10	6	9	12	11	16	13	16	14	9	10	14	10	14	15	17	19	6	19							
11	12	13	15	18	10	10	10	10	7	9	13	13	24	15	18	20	19	23	22	20	14	12	11	7	24							
12	9	4	3	6	6	15	8	10	9	6	6	4	6	28	26	29	33	32	30	18	26	23	23	3	33							
13	25	19	18	19	18	19	18	15	15	12	11	11	13	20	20	16	18	23	24	19	14	16	15	11	25							
14	18	18	11	15	9	11	14	13	14	11	12	24	11	14	11	11	11	10	16	12	17	21	21	9	24							
15	17	13	18	16	12	16	13	14	10	10	16	15	15	17	12	20	16	17	18	19	18	21	25	27	10	27						
16	24	24	25	20	19	19	19	9979p	9979p	9979p	0P	15	14	14	13	20	22	15	10	10	10	15	13	18	0	25						
17	17	23	25	16	16	10	14	11	19	20	15	16	18	19	22	23	18	22	23	25	21	20	24	23	10	25						
18	22	13	18	16	12	12	9	6	10	15	13	13	14	15	18	19	12	21	21	11	15	12	11	18	6	22						
19	10	15	16	10	18	16	17	19	18	14	21	11	17	10	11	12	22	22	30	23	28	22	23	24	10	30						
20	21	18	19	23	22	21	26	18	17	15	14	16	11	12	8	6	5	4	10	12	20	21	18	16	4	26						
21	17	17	14	9	11	10	9	8	6	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	6	17							
22	9979p	9979p	9979p	9979p	9979p	9979p	9979p	13	13	14	11	11	11	11	11	11	11	11	11	11	11	11	11	11	11	14						
23	11	11	11	11	11	11	11	11	0P	11	11	11	11	11	9979d	9979d	12	19	13	17	17	19	29	21	0	29						
24	23	7	7	9	14	12	13	13	14	13	13	20	21	22	24	25	26	20	23	19	27	23	19	27	7	27						
25	21	17	15	13	12	14	11	9	16	19	14	14	17	21	21	20	21	21	21	19	22	21	13	17	9	22						
26	18	17	13	16	12	12	12	13	11	16	17	22	21	20	25	25	27	27	21	19	24	23	27	27	11	27						
27	26	21	23	17	23	20	20	18	15	16	14	13	10	10	16	9	8	7	9	12	12	12	13	7	26							
28	15	14	13	12	11	12	11	12	13	11	11	9	6	6	7	10	14	17	16	18	18	7	16	17	6	18						
29	7	8	6	8	9	6	8	10	17	13	12	11	11	11	11	11	11	8	8	7	6	8	10	8	6	17						
30	10	10	6	5	8	9	9	10	11	10	11	11	10	9	8	14	14	3	4	6	8	7	8	8	3	14						
31																																

Flags: Monthly: 13 Ave 0 33  
 d = AM-Misc Void (9979)  
 P = Power Failure - Valid Hour  
 p = Power Failure - Invalid Hour (9979)

# Wind Direction (KN12)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: KN12  
Parameter: WD (DEG) Wind Direction  
Month/Year: Sep 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	147	188	109	64	69	79	81	85P	247	257	261	272	276	269	288	292	296	289	332	319	44	92	124	92	
02	84	83	77	77	76	72	77	83P	203	250	250	254	261	261	266	264	271	276	297	309	333	71	75	74	
03	77	71	71	73	70	78	82	91P	220	232	243	257	289	290	290	293	340	95	106	95	101	100	100	91	105
04	88	77	86	89	88	85	82	85P	195	260	274	267	278	267	265	255	275	202	136	100	100	101	99	82	
05	83	79	80	75	80	86	88	107P	191	221	264	264	284	286	289	290	295	290	333	72	78	79	76	71	
06	73	80	74	72	71	75	72	66P	323	308	309	288	296	288	288	276	287	293	325	352	56	71	71	66	
07	61	59	56	68	62	68	83	69P	265	269	251	256	260	282	320	294	299	314	2	86	65	79	94	76	
08	71	71	89	78	82	76	82	74P	286	247	242	263	242	256	232	264	274	322	72	76	74	72	67	92	
09	92	94	93	85	81	83	77	90P	218	234	263	245	233	237	227	228	259	281	283	143	101	66	80	75	
10	65	66	72	83	80	73	80	95P	248	265	265	244	253	258	251	280	281	343	46	66	47	78	117	90	
11	90	108	107	97	86	79	87	89P	203	238	266	268	263	306	290	309	77	43	346	13	2	51	49	59	
12	65	77	69	74	87	83	85	100P	147	167	226	255	265	264	264	283	293	310	340	61	77	72	75	87	
13	85	75	80	77	73	74	79	86P	224	251	264	260	231	234	235	224	66	107	82	89	86	90	88	85	
14	80	85	78	77	68	73	75	87P	279	279	269P	269	297	292	282	285	282	278	269	91	89	88	86	81	
15	72	70	71	69	72	68	69	64P	285	265	254	257	262	269	265	259	279	273	299	3	66	64	71	74	
16	63	70	63	78	83	82	84	9979p	9979p	9979p	9979p	9979p	250	269	261	270	288	305	18	73	75	75	86	82	
17	80	80	72	82	76	75	77	81P	219	262	281	267	264	252	260	274	259	298	350	349	62	57	77	73	
18	77	81	76	77	81	77	79	82P	192	235	260	279	286	277	287	286	276	311	314	323	17	29	77	66	
19	61	77	82	60	62	67	78	74P	246	219	249	261	249	226	264	256	263	220	136	24	40	64	86	93	
20	115	96	78	81	79	81	80	89P	168	201	220	255	295	310	331	313	322	7	72	85	85	90	85	76	
21	72	65	67	70	67	71	89	94P	265	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	
22	9979p	9979p	9979p	9979p	9979p	9979p	9979p	102P	288	284	281	294	290	288	299	298	300	290	317	19	77	80	86	85	
23	88	78	81	77	81	76	72	82P	244P	268	267	253	262	281	274	290	302	13	92	61	69	89	57	89	
24	80	73	89	77	88	84	88	90P	192	271	270	271	281	286	287	280	292	225	106	77	80	81	75	78	
25	80	75	73	72	80	81	80	86P	168	208	227	245	271	277	279	290	287	310	46	69	86	80	72	71	
26	75	73	74	77	80	76	83	86P	232	279	294	309	303	291	292	262	245	200	197	201	175	62	40	53	
27	46	43	82	99	104	107	107	115P	139	198	273	299	312	326	348	327	24	136	137	107	114	71	53	41	
28	50	76	65	80	83	81	73	76P	222	257	228	227P	242	260	266	273	296	321	337	184	237	136	72	74	
29	73	71	71	82	79	67	75	95	169	239	273	245	254	286	293	301	246	212	140	116	95	64	68	81	
30	65	64	86	93	91	83	83	88P	209	213	262	256	264	265	254	275	200	149	128	110	103	98	85	80	
31																									

Flags: Monthly Ave: 161

P = Power Failure - Valid Hour  
p = Power Failure - Invalid Hour (9979)

# Wind Speed (KN12)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: KN12  
Parameter: WS (MPH) Wind Speed  
Month/Year: Sep 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	3.1	2.4	3.3	2.4	3.5	4.5	3.9	3.3P	1.3	3.2	4.5	4.9	4.7	5.4	5.7	5.0	4.1	3.9	1.7	1.3	1.2	0.6	1.2	4.0	0.6	5.7
02	3.4	5.4	5.0	5.6	5.8	6.1	5.8	5.3P	1.5	3.9	4.7	5.9	5.7	6.1	5.3	4.6	5.5	4.2	3.3	1.8	0.7	1.9	3.2	3.3	0.7	6.1
03	3.3	3.0	3.4	4.3	4.4	5.6	6.4	4.9P	2.7	3.1	4.4	5.5	6.1	6.5	5.2	5.8	2.6	2.0	3.6	5.1	4.8	1.1	3.3	3.0	2.0	6.5
04	3.0	3.2	5.1	5.6	6.6	5.8	5.7	5.0P	2.0	2.5	4.3	5.3	5.4	5.2	5.1	4.9	4.0	1.1	2.0	3.3	5.0	5.3	4.5	3.5	1.1	6.6
05	4.3	4.6	4.4	4.3	5.2	5.4	4.7	4.1P	4.2	2.9	5.1	5.0	5.4	6.5	6.1	4.9	4.0	3.8	1.9	2.6	3.3	3.9	4.4	4.2	1.9	6.5
06	4.5	5.4	4.9	4.9	4.9	5.9	5.8	4.9P	3.5	4.4	4.9	6.6	6.2	7.1	5.9	4.6	4.2	4.0	2.1	1.0	2.0	2.7	3.3	3.1	1.0	7.1
07	3.0	3.5	2.7	2.9	2.7	4.1	4.5	2.9P	3.2	3.5	2.5	3.7	5.9	5.1	3.0	3.5	3.0	1.9	1.1	2.2	1.6	3.1	3.9	4.1	1.1	5.9
08	3.7	3.4	4.5	4.2	5.0	5.4	5.4	4.0P	2.2	3.9	4.8	5.1	4.8	3.5	3.1	5.5	3.8	3.2	3.9	5.8	4.5	3.1	3.3	4.5	2.2	5.8
09	6.0	5.5	4.8	4.6	5.0	5.7	5.4	4.1P	2.0	3.7	4.3	5.3	5.2	5.8	5.5	4.8	3.6	3.6	1.6	1.4	2.1	1.5	3.4	1.4	1.4	6.0
10	2.2	3.8	4.4	5.5	5.3	4.2	5.1	3.6P	2.4	3.5	4.5	4.9	6.2	5.4	5.1	4.8	3.8	3.2	2.3	2.8	1.6	2.8	2.8	5.2	1.6	6.2
11	5.9	4.4	5.4	5.0	5.8	4.9	6.3	4.7P	1.8	3.3	4.4	4.7	4.6	4.0	3.0	3.2	1.3	1.9	1.1	1.4	2.6	2.0	3.4	3.8	1.1	6.3
12	4.8	5.1	3.1	4.4	6.0	5.1	6.0	4.8P	3.8	4.1	4.7	5.8	5.7	6.1	5.8	5.6	4.9	3.2	1.8	2.4	3.1	2.7	3.4	4.0	1.8	6.1
13	3.8	4.0	4.9	4.9	3.9	4.8	5.2	4.3P	3.2	4.2	3.8	4.8	3.9	3.1	3.2	2.0	1.6	2.2	4.7	4.5	4.6	5.4	5.0	5.5	1.6	5.5
14	5.0	5.4	5.0	4.9	3.7	4.5	4.5	3.5P	1.6	4.1	4.4P	5.8	5.3	6.3	6.2	6.4	5.9	3.8	1.7	1.4	3.7	5.9	5.4	4.8	1.4	6.4
15	5.2	5.2	6.5	6.6	7.2	6.1	6.9	5.5P	2.8	3.5	4.5	5.5	6.0	6.0	6.3	5.7	5.1	3.5	2.1	1.2	2.7	3.4	4.1	3.9	1.2	7.2
16	3.2	4.3	3.5	4.8	6.1	6.0	6.9	9979p	9979p	9979p	9979p	9979p	4.9	5.9	6.1	5.9	5.2	4.9	2.2	3.9	4.3	4.1	5.4	4.3	2.2	6.9
17	4.6	5.3	4.6	6.0	5.4	5.1	5.8	5.2P	1.7	4.1	5.0	5.6	5.4	5.3	5.0	5.0	4.9	4.0	1.5	1.1	1.3	3.8	4.2	4.1	1.1	6.0
18	5.1	5.4	6.5	5.7	6.0	6.0	5.9	5.1P	2.9	3.9	4.7	5.5	6.8	7.1	6.7	6.2	5.2	3.0	2.4	1.4	0.9	1.2	0.6	1.3	0.6	7.1
19	1.4	2.4	3.8	1.8	2.4	3.0	4.2	3.3P	2.8	3.6	5.9	5.0	5.0	3.0	3.8	4.8	4.3	2.7	1.3	0.9	1.0	2.6	3.1	4.2	0.9	5.9
20	2.6	3.9	5.6	5.3	5.3	5.9	5.8	4.7P	3.5	4.3	4.6	5.2	5.1	5.0	3.6	3.3	3.4	1.1	2.6	4.0	4.3	5.0	5.8	4.3	1.1	5.9
21	2.9	3.6	5.1	3.9	3.9	4.2	5.8	4.6P	2.2	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	9979p	2.2	5.8
22	9979p	9979p	9979p	9979p	9979p	9979p	9979p	3.4P	1.6	3.0	5.4	6.1	7.0	6.4	5.2	4.6	3.7	3.0	1.1	1.3	3.6	3.5	4.5	5.0	1.1	7.0
23	4.6	3.6	4.5	5.6	6.0	5.7	6.1	4.6P	1.2P	4.2	4.4	4.7	5.5	4.8	4.6	4.3	4.7	1.5	1.7	2.4	1.7	3.0	2.2	4.1	1.2	6.1
24	3.7	3.9	4.9	5.0	5.3	5.6	6.5	5.5P	2.4	4.1	4.5	5.4	6.6	6.7	6.2	4.7	3.6	1.1	1.2	3.7	4.8	5.8	5.0	5.0	1.1	6.7
25	5.0	5.7	6.8	5.2	5.8	6.0	4.9	4.5P	3.7	3.9	4.7	4.5	4.9	5.6	4.4	4.3	4.0	3.5	2.2	2.7	2.8	4.5	4.7	4.8	2.2	6.8
26	5.1	4.5	4.9	4.8	5.6	4.9	5.9	4.8P	2.0	4.1	5.7	5.9	6.7	5.8	5.5	3.9	4.5	3.4	2.3	2.1	1.4	1.3	2.2	2.7	1.3	6.7
27	2.4	2.5	4.4	5.2	4.8	4.9	5.4	4.7P	3.2	3.1	5.9	6.6	6.7	4.8	3.8	3.4	2.9	2.9	2.2	3.1	3.4	4.5	3.0	3.6	2.2	6.7
28	3.6	3.8	3.0	3.7	3.5	4.7	3.6	3.9P	2.5	3.7	5.6	5.4P	5.6	5.5	5.6	4.9	5.2	4.5	2.1	1.3	1.4	1.6	3.0	4.0	1.3	5.6
29	4.2	4.1	4.0	4.8	5.1	3.8	4.7	4.0	2.2	3.6	4.7	5.4	4.6	3.8	3.0	2.1	1.9	1.3	1.2	1.9	1.7	2.2	3.0	2.3	1.2	5.4
30	3.8	2.5	2.7	3.4	5.1	4.4	5.0	4.6P	2.9	3.2	5.2	4.5	4.8	3.4	3.7	3.0	2.0	1.6	2.1	3.0	4.2	4.6	4.3	4.3	1.6	5.2

Flags: Monthly: Ave 4.1 Min 0.6 Max 7.2

P = Power Failure - Valid Hour  
p = Power Failure - Invalid Hour (9979)

# Monthly Matrix SO2 (MV17)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

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

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

Flags: Monthly: Ave 0 Min 0 Max 2

C = Calibration - Valid Hour  
c = BD-Calibration Auto- Invalid Hour (9995)  
D = Off-Line Part of Hour - Valid Hour  
d = AM-Misc Void (9979)  
P = Power Failure - Valid Hour

# Monthly Matrix PM2.5 (MV17)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: MV17  
Parameter: PM2.5 (ug/m3) Particulate Matter 2.5 ug/m3  
Month/Year: Sep 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	4	5	5	5	7	6	6	5	7	8	6	7	7	11	11	11	8	9	9	7	7	4	4	7	8	4	11
02	8	7	9	9	9	9	6	7	10	10	6	6	10	10	10	8	8	6	6	6	8	10	7	4	5	4	10
03	6	6	3	5	5	6	7	7	8	5	5	0	8	7	11	10	7	6	4	5	5	5	5	6	6	0	11
04	6	6	6	6	8	8	5	4	0P	8	8	8	7	7	4	5	5	9	9	9	9	5	4	4	4	0	9
05	6	7	7	4	3	3	2	3	3	5	6	6	7	10	10	10	10	13	12	7	7	4	5	7	2	13	
06	8	7	8	9	5	7	8	5	9	11	10	8	8	9	9	10	7	7	7	7	7	6	5	6	4	11	
07	7	10	10	8	8	9	6	6	7	8	8	8	8	9	9	9	10	9	8	8	7	7	8	7	6	10	
08	7	6	9	11	7	6	7	6	4	5	8	10	10	10	10	11	14	13	9	6	9	7	6	6	4	14	
09	6	7	7	7	9	7	7	7	6	7	7	9	12	9	7	6	4	5	6	6	6	5	4	4	7	12	
10	10	10	6	4	5	5	5	8	9	9	8	5	5	3	3	7	10	7	8	9	3	3	6	6	3	10	
11	6	5	4	5	6	6	5	6	10	10	8	9	7	6	6	5	5	3	3	3	3	6	9	8	3	10	
12	8	10	7	4	5	5	5	4	5	8	8	9	8	4	7	9	6	8	7	5	4	1	3	6	1	10	
13	6	7	7	6	5	1	1	7	10	9	8	10	10	5	6	8	8	7	5	6	9	8	5	5	1	10	
14	6	7	7	4	4	8	7	5	5	5	7	9	10	9	3	2	4	4	4	4	3	3	5	7	2	10	
15	5	4	4	4	7	8	6	3	3	3	5	4	4	6	4	5	6	4	4	5	4	4	6	6	3	8	
16	7	7	5	6	4	5	8	6	7	7	7	5	5	8	10	5	2	1	1	1	1	2	5	6	1	10	
17	6	4	6	7	4	4	6	7	4	4	6	4	3	5	4	5	7	6	7	10	7	4	4	5	3	10	
18	6	8	8	10	5	5	4	6	6	7	10	10	10	10	10	9	9	9	9	9	11	11	9	6	4	11	
19	6	6	6	6	8	6	5	5	4	4	6	7	7	6	6	6	6	11	11	13	9	9	4	4	4	13	
20	1	3	7	5	6	10	9	8	7	3	3	6	6	5	7	7	7	7	5	4	6	6	3	6	1	10	
21	10	9	6	6	6	6	9	7	7	8	8	8	9	10	10	13	11	7	6	5	6	7	9	10	5	13	
22	9	10	10	9	11	13	10	10	13	11	7	10	13	13	10	7	3	5	3	3	3	5	8	5	2	2	13
23	4	6	8	8	6	5	5	7	9	5	5	10	8	5	4	5	6	6	6	5	2	2	6	5	2	10	
24	4	6	5	3	6	8	7	8	7	6	9	7	6	11	9	7	6	8	11	11	8	6	7	7	3	11	
25	7	5	4	8	8	6	6	7	8	8	9	7	3	3	5	7	8	6	6	5	3	3	4	3	3	9	
26	4	4	6	7	5	4	2	5	7	5	6	6	2	2	5	5	6	7	5	4	4	5	4	3	2	7	
27	4	4	3	3	5	6	7	9	11	10	10	12	10	6	7	11	14	11	7	9	8	6	6	6	3	14	
28	6	7	8	7	5	3	4	6	10	10	7	8	10	11	10	10	11	11	10	10	10	10	9	8	7	11	
29	6	7	10	9	7	8	7	8	9	7	5	6	17	6	8	8	9	8	5	6	7	8	6	5	5	17	
30	6	5	5	6	9	8	7	9	10	10	11	11	10	10	8	7	9	8	9	10	9	7	5	5	5	11	
31																											

Flags: P = Power Failure - Valid Hour  
Monthly: 7 Ave 0 Min Max

# Wind Direction (MV17)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: MV17  
Parameter: WD (DEG) Wind Direction  
Month/Year: Sep 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	248	272	245	287	262	265	270P	252	227	167	64	89	219	197	81	60	64	67	199	290	263	291	283	275	
02	264	256	259	252	252	251	254P	271	154	100	71	80	74	75	73	67	67	83	59	86	275	260	251	254	
03	271	272	251	262	262	250	254P	259	203	110	63	0	117P	132	73	87	134	279	251	278	273	277	260	263	
04	249	244	237	267	269	262	264P	260	262P	119	168	105	99	73	63	87	67	68	91	199	200	161	189	277	
05	281	206	248	265	274	273	278P	264	281	273	257	145	129	209	140	78	72	194	241	219	260	258	252	244	
06	228	230	259	262	259	255	257P	242	126	87	87	120	176	113	210	188	264	269	222	278	280	277	253	261	
07	294	280	262	218	246	273	264P	225	132	141	103	202	135	105	71	68	67	83	198	263	266	260	259	267	
08	264	265	207	257	235	272	270P	267	267	202	276	96	70	78	58	65	71	64	145	270	275	304	307	293	
09	277	265	261	256	254	256	255P	248	264	225	87	76	63	129	86	98	61	109	254	235	245	260	275	276	
10	278	273	264	259	248	265	270P	254	202	276	229	139	247	158	255	270	227	252	244	265	265	257	261	271	
11	259	254	269	253	254	251	248P	258	156	107	67	75	71	64	66	71	54	73	103	253	262	252	270	275	
12	264	266	259	250	248	253	250P	268	201	142	119	70	79	71	73	70	73	62	122	186	248	262	269	252	
13	257	266	262	255	256	255	254P	253	234	99	80	70	84	78	82	67	92	71	175	284	267	253	259	249	
14	250	257	250	255	256	252	254P	272	224	118	68	68	71	70	83	75	85	241	275	279	257	259	256	258	
15	258	257	260	255	250	252	251P	267	119	83	96	81	79	67	79	72	66	60	186	269	251	256	257	253	
16	262	262	257	257	260	254	254P	197	242	177	146	126	198	148	86	121	75	90	230	273	268	265	250	223	
17	241	270	267	258	184	226	242P	258	187	182	134	98	80	87	89	79	78	67	209	262	246	252	229	248	
18	265	236	261	208	258	231	249P	265	253	254	119	79	84	78	73	75	70	74	149	296	284	267	280	264	
19	264	263	263	256	260	251	222P	220	278	245	143	78	76	71	72	81	80	108	241	269	230	266	221	264	
20	241	273	274	269	274	279	280P	235	275	194	83	214	98	71	58	99	86	60	287	261	266	257	256	248	
21	255	263	262	260	255	250	251P	267	108	91	84	92	70	67	68	68	60	180	247	252	198	255	248	244	
22	249	243	246	243	247	248	245P	236	156	88	83	69	65	73	67	67	65	161	160	276	251	241	224	250	
23	261	248	261	258	245	252	248P	273	176	119	118	105	139	76	236	210	239	237	262	272	256	269	265	258	
24	257	249	255	249	251	255	256P	143	139	123	74	94	92	113	96	148	123	213	262	249	259	258	240	252	
25	291	263	261	252	256	255	255P	242	226	273	226	230	206	164	123	90	89	205	204	265	251	274	268	264	
26	253	242	264	229	273	270	268P	253	215	155	176	232	221	73	80	81	77	94	81	188	170	269	257	252	
27	262	266	265	262	259	235	209P	260	230	195	100	73	67	69	69	72	57	57	205	294	287	256	291	269	
28	254	258	266	258	261	254	258P	280	200	125	80	67	73	74	73	80	66	106	313	297	271	267	265	270	
29	270	269	262	255	250	259	266P	276	268	262	125	137	278	221	275	276	280	276	242	273	272	260	270	275	
30	247	242	278	268	264	270	267P	201	265	227	212	161	77	74	71	86	83	129	211	259	243	265	267	256	
31																									

Flags: P = Power Failure - Valid Hour Monthly Ave: 200

# Wind Speed (MV17)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: MV17  
Parameter: WS (MPH) Wind Speed  
Month/Year: Sep 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	2.3	3.9	3.0	3.6	2.3	2.8	2.4P	1.9	2.1	3.2	4.0	3.4	3.2	4.0	4.2	4.7	4.2	2.5	1.7	1.7	1.7	1.6	1.7	1.3	1.7	1.3	1.7	1.3	4.7			
02	2.8	3.2	3.8	3.2	3.0	2.2	2.4P	2.4	2.9	4.4	4.2	4.5	4.9	5.0	5.2	4.9	4.5	4.4	2.7	2.4	2.4	1.4	1.9	1.7	1.8	1.4	1.4	5.2	4.8			
03	3.2	3.1	2.3	2.0	2.1	2.9	2.8P	1.8	3.3	3.7	4.7	0.0	4.0P	4.6	4.3	4.6	4.8	2.9	2.6	2.7	2.7	1.8	1.7	1.6	2.0	0.0	4.8	4.8				
04	2.0	3.4	3.9	3.8	4.0	3.3	3.4P	1.5	2.5P	3.7	4.0	5.6	4.8	4.9	5.5	4.0	3.9	3.7	2.8	2.7	2.8	1.9	2.6	1.8	1.8	1.5	5.6	5.6				
05	1.5	1.7	2.7	2.7	1.8	3.0	3.3P	3.0	3.9	3.3	3.0	4.5	2.7	2.8	3.5	4.3	3.9	1.7	1.1	1.4	1.4	3.1	4.0	4.2	3.5	1.1	4.5	5.1				
06	1.7	1.8	3.8	5.1	4.4	4.3	4.4P	2.4	2.7	2.4	3.1	2.6	2.9	3.1	1.8	2.4	2.6	2.2	2.2	2.1	1.9	2.0	1.7	1.6	1.6	1.6	5.1	4.7				
07	1.6	1.7	2.0	1.7	2.6	3.0	2.3P	2.5	4.4	4.5	3.9	2.9	3.9	3.8	4.7	4.4	4.0	3.3	2.3	1.5	1.8	2.6	2.9	3.1	1.5	4.7	4.7	4.8				
08	3.2	3.5	3.4	4.1	3.9	3.9	4.0P	4.4	3.4	2.3	2.6	3.1	4.8	4.0	4.7	4.2	3.8	2.7	1.5	1.7	1.7	1.7	1.7	1.7	1.8	1.5	4.8	4.8				
09	2.0	2.6	3.6	3.9	3.7	4.5	4.6P	2.8	1.3	2.5	3.4	3.9	3.0	3.3	3.4	2.9	2.8	2.3	1.9	2.3	2.4	3.1	4.0	2.8	1.3	4.6	4.6					
10	3.0	2.3	2.9	4.3	3.5	4.1	3.4P	3.3	2.5	3.0	1.9	2.8	2.2	3.7	3.5	3.0	3.2	3.3	3.2	2.9	2.4	2.4	2.1	1.7	1.7	4.3	4.3					
11	1.9	2.1	1.6	2.1	2.0	2.1	2.3P	2.0	3.2	3.8	4.2	4.4	4.1	5.2	4.4	4.0	5.0	4.0	2.6	1.6	1.6	1.3	1.7	2.2	1.5	1.3	5.2	5.0				
12	1.5	1.6	2.0	2.8	2.9	2.4	2.6P	1.4	2.4	3.9	4.8	5.0	4.7	4.9	4.7	5.0	3.8	2.9	2.1	2.2	2.1	1.5	2.5	2.3	1.4	5.0	5.0					
13	1.9	2.0	2.7	2.4	2.9	2.9	3.1P	1.9	1.8	3.1	3.9	3.9	4.5	4.1	4.4	3.9	3.9	3.3	1.5	1.1	1.1	1.7	1.5	1.9	2.0	1.1	4.5	4.5				
14	1.5	2.1	2.6	3.0	3.5	3.1	3.0P	1.6	1.8	3.8	4.7	4.1	3.4	4.1	3.2	3.6	2.8	1.4	1.2	1.1	1.6	2.0	2.5	3.4	1.1	4.7	4.7					
15	3.9	4.3	4.3	4.3	3.8	3.6	3.2P	2.4	3.3	3.2	4.1	4.0	5.0	5.2	4.7	4.2	3.7	2.9	1.8	1.6	1.6	2.6	3.2	3.5	1.6	5.2	5.2					
16	4.7	5.1	4.8	3.7	2.7	3.6	3.5P	2.0	2.6	4.2	4.5	3.5	3.9	4.1	3.9	5.0	3.9	4.1	2.6	3.1	1.9	1.9	1.7	2.9	2.0	1.7	5.1	5.1				
17	3.2	4.1	3.9	3.4	1.2	2.8	3.5P	2.5	1.9	2.6	2.5	3.4	4.1	3.7	4.2	4.7	3.9	2.7	1.4	0.7	1.9	1.9	1.8	3.9	3.7	0.7	4.7	4.7				
18	4.3	3.3	5.0	3.8	3.6	2.9	3.6P	3.2	2.0	2.3	3.2	5.3	6.4	5.6	4.8	4.5	4.8	3.0	1.9	1.3	1.5	1.7	1.7	2.2	1.3	6.4	6.4					
19	3.8	3.8	1.7	2.2	3.4	2.4	2.3P	3.3	4.0	3.9	4.9	5.5	5.1	5.0	4.7	4.5	4.8	3.0	2.4	1.9	3.6	2.2	2.7	2.9	1.7	5.5	5.5					
20	2.5	3.5	3.0	2.6	3.0	2.0	2.2P	2.6	2.7	3.4	2.9	2.6	3.3	3.9	3.7	3.6	2.7	2.4	1.5	1.7	1.9	3.0	3.5	3.0	1.5	3.9	3.9					
21	3.6	3.0	4.5	4.7	4.1	4.0	4.1P	2.6	2.5	2.8	3.4	4.3	4.7	4.7	4.5	3.5	2.8	2.2	2.5	2.9	2.1	2.8	2.1	1.8	1.8	4.7	4.7					
22	2.5	3.3	3.7	4.3	3.9	3.9	4.2P	3.2	1.4	2.8	4.0	4.7	4.6	4.2	4.0	3.5	2.9	2.1	2.1	2.1	3.5	3.1	3.1	2.7	1.4	4.7	4.7					
23	2.9	2.5	2.4	2.7	2.4	2.1	2.2P	2.1	1.9	2.3	4.3	2.3	2.0	3.6	2.3	2.4	2.7	2.4	1.4	1.7	1.3	1.3	1.5	1.5	1.3	4.3	4.3					
24	2.4	2.9	3.8	3.6	1.9	3.2	3.3P	2.1	3.3	4.7	4.6	3.7	4.6	5.2	5.0	3.9	3.8	2.3	2.1	2.3	2.8	4.4	2.9	3.9	1.9	5.2	5.2					
25	2.0	3.2	3.2	3.0	3.1	3.7	3.7P	2.9	3.1	3.6	2.6	4.4	1.9	1.1	1.0	2.0	2.5	1.6	1.8	4.3	2.7	3.6	3.8	2.9	1.0	4.4	4.4					
26	3.1	2.6	3.1	2.2	3.2	2.9	2.4P	1.5	2.3	2.2	2.6	2.6	3.5	4.0	4.5	4.1	2.5	2.1	2.9	1.1	2.5	2.8	2.9	1.5	1.1	4.5	4.5					
27	2.3	3.1	3.1	3.5	4.1	2.3	2.2P	3.5	3.1	2.9	3.2	4.4	5.2	5.0	5.0	4.4	4.5	3.1	2.4	1.5	1.4	1.9	1.8	3.5	1.4	5.2	5.2					
28	3.6	3.8	5.0	4.8	4.3	3.5	3.3P	2.6	2.2	3.8	3.9	4.3	4.9	3.9	4.0	3.9	3.8	2.1	1.5	2.4	2.7	3.8	4.2	3.7	1.5	5.0	5.0					
29	4.2	3.4	1.9	2.6	2.4	2.5	2.6P	3.9	3.4	2.8	3.5	2.9	2.6	3.1	2.7	2.7	2.5	3.4	2.3	3.1	2.8	2.7	2.5	2.0	1.9	4.2	4.2					
30	1.8	2.5	3.1	3.5	3.5	3.1	2.9P	2.4	3.9	3.0	3.2	3.7	4.1	5.1	4.5	4.0	2.8	3.0	1.4	1.9	2.2	3.0	4.1	3.3	1.4	5.1	5.1					

Flags: P = Power Failure - Valid Hour  
Monthly: 3.1 Ave 0.0 Min 6.4 Max

# Monthly Matrix SO2 (PA16)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: PA16  
Parameter: SO2 (PPB) Sulfur Dioxide  
Month/Year: Sep 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	27	57	41	42	80	122	144	223P	142	41	27	24	10	2	2	1	1	3	36	9995c	93	162	191	201	1	223
02	321	213	72	9979d	30	12	56	27	66	26	12	9	5	3	3	4	8	11	17	96	68	55	47	54	3	321
03	53	100	97	148	54	9	72	165P	191	38	26	10P	39	20	8C	22C	28	4	9	7	19	52	101	121	4	191
04	99	99	58	118	266	76	12	43P	262	481	95	14	7	7	12	8	9	5	10	239	144	92	158	249	5	481
05	198	180	150	26	99	79	212	152P	333	178	44	27	20	9	4	2	1	2	2	8	20	85	197	108	1	333
06	135	170	122	100	114	233	310	101P	75	75	52	17	3	2	2	5	6	5	11	45	46	24	58	98	2	310
07	125	154	341	325	260	96	172	372P	472	442	15	16	10	22	13C	10C	17	18	18	16	18	29	92	112	10	472
08	147	167	128	162	185	279	115	70P	34	23	28	18	7	5	2	2	5	21	62	53	76	119	144	217	2	279
09	196	58	57	125	35	29	30	85	165	129	43	14	4	2	1	9979d	6	4	12	19	45	100	58	42	1	196
10	35	47	65	69	70	65	57	167P	125	43	43	4	3	2	2C	3C	2	5	19	43	36	42	43	33	2	167
11	43	60	98	145	188	229	223	272P	300	173	23	8	4	2	2	2	2	3	4	6	12	31	55	83	2	300
12	34	56	37	433	368	230	52	138P	264	30	27	8	3	2	2	4	5	7	6	4	6	8	41	202	2	433
13	249	297	179	173	190	274	227	189P	155	69	13	4	3	3	2	1	1	1	2	1	3	11	107	227	1	297
14	202	151	228	230	294	214	200	202P	225	134	66	22	13	7	9C	10C	8	10	7	11	12	18	19	23	7	294
15	29	29	55	70	66	87	254	276P	363	285	88	9979d	9979d	9979d	3	3	2	2	2	2	108	176	212	157	2	363
16	134	140	156	146	81	36	23	37P	19	14	12	20	14	11	27	9979d	10	8	36	44	198	212	20	86	8	212
17	276	242	220	270	165	104	73	307P	225	45	38	4	3	2	2C	2C	2	2	3	14	43	60	65	106	2	307
18	264	421	328	271	184	191	444	774P	154	45	22	7	4	3	2	2	2	2	6	85	103	99	107	331	2	774
19	510	124	28	12	10	6	4	20P	28	16	2	3	7	3	4	6	11	72	64	17	31	154	139	79	2	510
20	144	190	148	75	200	86	76	46P	30	168	7	4	5	2	1	2	1	1	1	2	42	205	135	84	1	205
21	86	120	168	521	359	228	158	329P	368	87	15	14	5	2	2C	2C	2	2	2	3	2	3	4	11	2	521
22	20	35	62	161	335	394	378	242P	364	148	32	10	3	3	3	2	2	2	2	1	1	2	2	1	1	394
23	21	26	41	37	40	99	71	35P	25	46	19	5	2	4	2	9979d	14	28	48	419	366	177	159	233	2	419
24	158	117	168	147	74	31	87	73P	38	20	48	26	20	6	4C	8C	5	12	16	646	285	132	365	238	4	646
25	280	240	132	71	245	272	179	166P	21	140	236	11	4	12	64	28	35	13	11	28	50	196	184	240	4	280
26	51	24	55	444	117	112	94	298P	186	43	44	19	4	2	2	2	2	2	3	62	42	23	27	2	444	
27	171	58	116	98	17	5	14	32P	22	10	24	23	6	4	3	5	3	10	17	49	88	93	73	32	3	171
28	48	5	24	9	12	11	3	43P	205	29	15	5	5	1	1C	2C	2	3	24	169	70	81	55	56	1	205
29	87	156	139	87	64	26	15	35P	39	23	15	13	4	5	6	22	12	30	24	45	31	59	77	78	4	156
30	77	45	36	30	64	96	39	29	32	32	9	24	6	6	2	9979d	14	14	8	12	15	10	108	53	2	108

Flags: Monthly: 81 Ave 1 Min 774 Max

C = Calibration - Valid Hour  
c = BD-Calibration Auto-Invalid Hour (9995)  
d = AM-Misc Void (9979)  
P = Power Failure - Valid Hour

# Monthly Matrix PM2.5 (PA16)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: PA16  
Parameter: PM2.5 (ug/m3) Particulate Matter 2.5 ug/m3  
Month/Year: Sep 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	10	6	6	5	6	12	14	OP	18	36	7	7	7	6	5	4	1	-1	3	8	18	22	30	31	-1	36						
02	29	36	25	8	6	4	3	3	3	2	1	4	7	7	6	5	4	4	6	8	10	10	7	6	1	36						
03	5	6	6	6	4	3	0	OP	6	6	6	9979p	13	17	7	8	12	15	7	0	1	4	5	4	0	17						
04	6	6	6	6	7	8	6	OP	4	9	12	9	8	8	7	8	10	11	8	5	6	5	3	5	0	12						
05	6	6	5	5	2	1	5	OP	7	7	6	7	10	10	7	5	7	3	0	3	4	3	9	12	0	12						
06	13	13	11	11	10	10	14	OP	6	10	13	14	10	9	11	8	7	11	12	8	7	9	8	4	0	14						
07	6	12	13	32	31	25	13	OP	35	35	32	7	9	8	7	9	9	10	8	7	9	8	8	8	0	35						
08	7	7	7	7	7	7	9	OP	5	4	4	4	7	6	4	3	3	7	11	14	13	12	17	21	0	21						
09	23	18	10	8	6	3	3	3	7	7	13	10	5	4	4	4	4	7	12	11	10	13	14	11	3	23						
10	10	8	8	11	17	14	18	OP	21	18	4	6	4	0	1	4	6	6	4	10	12	10	9	9	0	21						
11	9	9	13	15	25	31	37	OP	31	36	22	7	6	6	4	0	0	3	3	4	11	13	12	17	0	37						
12	18	11	11	11	51	31	25	OP	11	18	6	8	8	5	5	5	3	3	3	2	2	3	6	5	0	51						
13	7	17	17	12	13	11	11	OP	9	11	12	8	5	4	3	1	2	3	2	3	4	5	9	18	0	18						
14	18	14	12	12	13	18	10	OP	13	18	17	17	7	6	5	3	2	3	4	5	9	13	12	9	0	18						
15	10	11	13	14	12	12	13	OP	15	15	28	15	10	5	7	6	3	4	1	1	5	18	22	18	0	28						
16	16	15	15	15	12	9	5	OP	5	5	5	4	4	5	6	7	9	5	4	8	8	17	10	8	0	17						
17	6	26	19	14	25	14	11	OP	19	15	12	10	10	7	3	3	5	5	6	10	10	8	10	9	0	26						
18	8	20	18	17	9	8	7	OP	42	11	10	7	8	9	5	3	4	5	10	10	19	13	13	14	0	42						
19	33	42	11	8	3	3	3	OP	3	5	5	0	1	6	7	7	8	8	10	9	6	5	5	9	0	42						
20	8	6	11	13	8	17	3	OP	6	1	9	8	1	2	1	0	3	5	5	5	5	6	28	19	0	28						
21	15	14	13	13	48	22	15	OP	28	28	18	12	12	6	1	3	3	3	4	4	5	3	6	11	0	48						
22	9	20	20	21	26	38	39	OP	31	61	34	13	7	3	3	0	1	-1	-2	1	2	1	3	1	-2	61						
23	-1	2	8	17	12	14	20	9979p	14	12	10	10	8	5	7	5	1	0	4	11	38	21	16	17	-1	38						
24	16	15	13	13	12	8	5	OP	5	7	6	7	9	6	6	8	9	8	19	6	32	14	12	17	0	32						
25	17	18	14	10	6	19	22	OP	11	11	4	4	6	1	3	5	5	6	6	5	7	7	10	15	0	22						
26	17	2	2	4	35	3	6	OP	11	11	10	12	9	6	6	3	0	4	11	11	9	18	5	6	0	35						
27	6	17	8	8	7	6	3	OP	3	1	0	5	10	7	3	4	6	5	5	6	8	8	7	7	0	17						
28	5	4	3	5	6	5	2	OP	7	7	10	13	11	7	3	4	8	10	8	7	20	5	8	10	0	20						
29	7	7	11	12	8	5	4	OP	3	6	8	7	6	5	7	8	8	6	5	6	6	5	6	9	0	12						
30	6	6	8	4	4	7	10	10	8	9	9	7	6	6	3	3	3	6	6	4	5	3	2	3	2	10						

Flags: Monthly: Ave 9 -2 61  
 P = Power Failure - Valid Hour  
 p = Power Failure - Invalid Hour (9979)

# Wind Direction (PA16)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: PA16  
Parameter: WD (DEG) Wind Direction  
Month/Year: Sep 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	285	323	310	310	276	154	143	118P	100	104	106	102	109	125	126	109	116	136	146	281	279	252	240	274	
02	271	309	309	294	279	270	284	184	178	110	107	113	107	107	130	177	163	118	265	187	205	251	262	253	
03	293	311	301	315	317	300	317	262P	182	153	116	109P	114	113	113	111	102	111	194	272	269	259	233	285	
04	237	265	282	266	191	257	99	78P	91	75	103	108	103	104	106	104	103	101	133	143	239	153	202	219	
05	186	234	302	311	316	187	171	298P	269	160	109	111	118	127	145	126	129	122	237	277	311	326	265	310	
06	320	302	322	171	283	228	116	67P	106	108	104	100	104	100	97	89	103	108	215	143	212	223	279	271	
07	282	280	290	307	312	296	257	214P	235	153	96	117	109	110	109	151	179	229	258	277	222	325	277	305	
08	324	297	328	317	279	327	239	223P	198	102	107	109	131	102	99	114	100	106	78	82	150	252	300	304	
09	317	323	306	321	322	321	321	305	212	169	109	105	107	96	113	141	240	250	254	174	141	232	212	92	
10	279	324	254	173	204	243	156	83P	80	80	97	111	106	101	104	100	153	168	156	290	313	307	310	282	
11	272	278	301	321	329	328	314	247P	160	136	111	109	119	135	122	129	179	246	271	264	284	295	303	309	
12	321	327	317	283	310	304	314	237P	107	128	114	110	114	120	123	119	139	209	244	257	262	319	327	316	
13	331	335	325	326	324	321	321	247P	135	130	107	116	124	131	144	143	134	201	258	298	243	328	308	321	
14	319	317	325	327	318	327	322	252P	198	180	214	119	120	114	125	129	126	163	277	282	304	264	268	286	
15	308	325	322	322	323	326	320	250P	104	146	136	123	117	123	133	125	132	225	288	319	216	312	322	324	
16	321	325	318	309	297	285	288	197P	163	151	104	102	104	110	102	111	120	135	159	245	108	71	191	268	
17	311	287	296	209	136	260	291	112P	115	107	112	128	134	103	109	93	90	73	266	285	243	219	168	187	
18	152	150	77	119	191	174	96	147P	89	97	102	97	96	90	94	95	122	97	95	221	231	254	238	276	
19	162	190	230	217	265	177	175	193P	117	112	106	114	113	119	156	112	114	132	67	216	269	263	251	256	
20	216	190	262	306	302	317	286	239P	208	125	93	84	109	110	113	128	236	190	223	291	312	322	313	312	
21	316	322	329	316	322	311	309	269P	203	148	119	115	130	129	131	113	112	109	153	307	140	80	322	322	
22	327	322	323	324	320	320	322	215P	103	129	130	136	130	126	133	133	114	110	116	300	237	256	116	243	
23	249	293	304	259	287	322	295	219P	111	144	110	106	96	93	111	245	305	304	280	231	322	310	308	306	
24	300	309	308	220	297	297	319	118P	115	149	110	107	110	104	105	106	113	124	190	136	277	203	303	283	
25	315	315	310	320	319	312	311	139P	177	147	75	79	112	257	132	77	113	110	107	72	83	190	144	133	
26	155	260	320	261	317	284	218	166P	160	108	100	96	101	116	103	100	101	92	68	80	243	280	212	206	
27	280	292	277	197	151	247	279	248P	93	98	100	101	101	102	101	102	106	102	161	115	238	276	214	216	
28	102	93	201	86	133	308	189	140P	100	104	100	104	101	102	109	106	96	95	101	97	240	279	275	300	
29	276	285	252	310	261	249	297	262P	177	123	110	114	111	110	105	103	108	122	169	234	268	259	293	220	
30	247	132	236	283	159	255	202	124	95	92	99	100	104	104	102	103	98	194	270	278	297	298	144	116	
31																									

Flags: P = Power Failure - Valid Hour Monthly Ave: 198

# Wind Speed (PA16)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: PA16  
Parameter: WS (MPH) Wind Speed  
Month/Year: Sep 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	3.7	4.4	3.2	4.3	4.0	4.5	4.5	2.2P	3.6	6.5	9.6	7.9	5.8	6.4	5.2	5.8	5.1	3.3	2.9	3.1	3.5	3.9	4.0	2.9	2.2	9.6
02	3.6	4.6	4.9	4.7	5.5	5.2	5.0	2.4	2.7	8.9	9.7	7.5	6.8	6.2	6.7	5.4	4.9	5.0	4.1	3.7	3.7	3.8	3.5	3.3	2.4	9.7
03	3.8	3.8	4.6	4.3	4.6	4.9	4.3	2.4P	2.4	6.0	7.4	7.8P	8.3	10.0	8.8	9.2	8.0	3.0	2.9	3.9	4.2	3.1	2.5	4.5	2.4	10.0
04	4.3	4.5	4.6	6.0	4.9	5.9	4.3	3.9P	4.7	5.9	10.0	13.4	9.8	10.0	9.7	5.9	5.5	5.9	3.4	3.0	4.0	2.0	3.9	2.3	2.0	13.4
05	3.8	2.1	4.0	3.5	4.3	3.8	3.4	1.4P	1.8	4.9	8.6	9.7	8.9	6.8	4.8	3.9	4.8	3.7	3.2	3.6	4.2	5.3	5.2	4.9	1.4	9.7
06	4.3	3.5	4.3	4.4	4.0	4.1	3.1	2.5P	3.5	5.5	7.6	4.9	5.8	5.5	5.3	3.9	5.2	3.6	3.1	2.5	1.5	1.9	3.2	2.9	1.5	7.6
07	3.6	3.4	4.5	5.5	4.0	3.2	3.0	3.3P	2.9	3.8	7.8	9.9	10.1	8.6	7.2	4.6	4.1	3.9	4.9	3.3	4.6	4.7	3.2	4.2	2.9	10.1
08	4.6	3.4	4.8	3.7	3.8	4.8	3.3	1.4P	2.4	7.5	8.7	7.4	6.8	6.3	6.3	4.2	6.0	3.8	4.0	3.2	2.0	2.3	3.8	3.8	1.4	8.7
09	4.6	4.9	5.1	5.2	5.8	6.1	5.3	2.6	2.5	3.8	9.4	8.8	8.7	4.6	4.5	3.1	2.2	2.1	1.7	1.4	2.2	3.7	3.4	1.8	1.4	9.4
10	2.5	3.4	3.1	3.1	4.5	2.6	2.7	2.9P	2.5	3.0	4.8	7.2	6.6	5.5	3.8	3.5	2.2	2.8	2.0	2.0	2.3	2.7	2.8	3.4	2.0	7.2
11	3.6	3.3	2.5	3.5	4.8	5.6	4.7	2.3P	2.1	4.2	8.9	8.2	6.9	6.4	6.1	4.8	3.7	4.8	4.6	3.2	2.8	3.6	3.7	4.3	2.1	8.9
12	5.0	5.9	5.6	5.1	4.4	5.3	4.0	2.1P	3.6	4.2	6.0	8.3	7.3	6.3	6.2	6.1	5.7	4.1	4.4	4.6	4.3	3.3	4.6	3.9	2.1	8.3
13	5.2	4.6	3.9	4.9	5.4	4.3	4.4	2.0P	2.9	3.9	8.8	8.0	7.3	6.9	6.4	5.5	4.0	2.4	2.8	2.5	3.9	4.0	3.9	4.2	2.0	8.8
14	4.1	4.3	5.5	5.1	4.4	4.9	5.0	2.1P	2.0	4.3	3.2	4.9	7.6	7.3	6.9	6.1	5.4	3.2	2.9	2.7	2.5	2.7	1.3	2.7	1.3	7.6
15	3.1	4.3	3.8	4.5	5.0	5.1	4.4	1.0P	1.7	4.0	5.3	7.5	8.0	6.7	6.3	5.1	2.7	2.9	3.4	4.9	4.9	4.8	4.5	5.2	1.0	8.0
16	5.3	6.8	6.8	5.9	5.4	5.0	4.3	2.1P	3.3	5.8	10.1	7.2	5.9	7.4	9.7	7.8	5.3	3.3	3.0	2.8	3.9	5.6	3.7	4.6	2.1	10.1
17	4.3	4.3	4.7	5.7	4.1	3.9	4.8	3.8P	3.4	7.9	8.0	5.9	4.1	4.9	7.5	4.9	4.3	2.5	3.1	4.1	4.3	2.6	2.6	3.5	2.5	8.0
18	4.7	5.7	3.6	3.7	3.6	4.4	3.9	3.9P	3.5	7.1	7.4	5.5	6.0	4.7	5.3	4.6	3.6	4.2	3.9	2.9	4.5	4.1	4.2	5.0	2.9	7.4
19	4.8	6.1	5.6	4.1	4.7	6.3	5.9	3.2P	3.7	7.5	11.6	12.4	9.0	7.4	5.1	8.8	6.7	5.0	4.3	4.4	3.6	3.8	3.4	3.3	3.2	12.4
20	3.5	3.8	4.5	3.7	4.1	3.7	3.7	3.7P	2.2	4.6	5.9	4.8	4.5	5.9	5.0	4.3	1.3	2.0	2.1	2.9	3.4	4.0	4.0	3.9	1.3	5.9
21	4.2	4.5	5.6	5.5	5.0	5.7	4.2	2.0P	1.7	5.7	8.0	6.2	7.1	7.2	6.4	5.5	4.7	4.2	1.7	2.2	1.7	2.2	2.6	4.2	1.7	8.0
22	5.3	4.7	5.2	6.3	4.8	5.4	5.1	2.9P	2.4	5.4	6.2	6.7	6.8	6.6	5.2	5.0	4.5	4.0	2.2	4.4	4.6	3.0	1.4	2.0	1.4	6.8
23	1.5	3.6	4.0	4.5	3.0	5.0	4.3	2.0P	2.4	2.8	6.2	6.9	5.5	3.5	1.9	3.2	2.8	2.7	2.6	4.1	4.6	4.2	4.3	4.9	1.5	6.9
24	5.5	5.5	4.5	5.6	6.4	5.0	4.8	3.9P	5.6	5.0	8.9	11.4	10.1	9.2	8.1	8.5	5.5	3.6	4.7	2.8	2.5	3.0	3.3	3.6	2.5	11.4
25	4.2	3.9	4.3	4.4	4.7	4.9	4.5	3.5P	7.9	5.6	4.2	4.7	3.3	12.8	6.1	3.7	2.2	2.7	4.2	2.5	2.6	5.3	6.2	3.9	2.2	12.8
26	3.4	3.8	4.8	4.3	4.4	3.1	3.8	2.1P	1.9	6.5	6.8	5.9	5.1	6.7	6.8	4.5	4.7	4.0	4.0	3.4	5.2	4.1	3.4	4.7	1.9	6.8
27	4.2	2.9	3.1	5.0	4.0	5.2	3.2	2.7P	3.8	7.1	9.5	10.4	10.3	9.8	8.2	6.4	5.6	4.9	3.3	3.9	3.6	4.4	2.7	5.2	2.7	10.4
28	5.5	4.9	5.5	4.1	3.5	5.0	4.7	2.5P	3.0	9.7	10.3	10.7	8.8	8.6	7.8	6.6	3.5	4.0	4.1	3.5	1.7	3.0	3.0	3.1	1.7	10.7
29	4.3	3.2	2.6	3.7	5.1	4.7	3.9	3.1P	3.0	5.9	10.8	9.8	8.5	7.9	6.7	7.1	7.0	4.6	4.2	3.3	3.2	2.7	4.1	2.7	2.6	10.8
30	2.3	2.7	2.0	2.5	3.3	3.8	1.8	2.2	4.9	4.8	4.8	5.8	8.4	7.9	7.0	6.5	5.9	3.0	3.2	2.7	3.8	5.2	7.0	4.6	1.8	8.4

Flags: P = Power Failure - Valid Hour  
Monthly: Ave 4.7 Min 1.0 Max 13.4

# Monthly Matrix SO2 (PE10)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: PE10  
Parameter: SO2 (PPB) Sulfur Dioxide  
Month/Year: Sep 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	1	1	1	1	1	0	1	9995c	1C 9995c	ID	1	1	1	1	9995c 9995c	1	1	1	1	1	1	0	1	1	0	1						
02	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1						
03	1	1	0	1	0	1	1	1	9995c	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0	0	1	1						
04	1	1	1	1	0	0	0	0	9995c	1	1	1	1	0	1	1	1	0	1	1	1	0	1	0	1	0	1						
05	0	1	1	1	0	1	0	0	9995c	1	1	1	0	0	1	1	1	1	0	0	0	1	0	1	0	1	1						
06	0	1	0	1P	0	1	0	1	9995c	1	0	0	1	1	1	0	1	1	1	1	0	1	1	0	0	1	1						
07	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	1	1						
08	1	1	1	1	1	1	1	0	9995c	1C 9995c	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1						
09	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1						
10	1	1	1	1	1	1	1	1	9995c	1	0	0	1	0	1	0	1	1	0	0	1	1	0	1	0	1	1						
11	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1						
12	0	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1						
13	0	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1						
14	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
15	1	1	1	1	1	1	1	1	9995c	1C 9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
16	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	9979d 9979d	1	1	1	1	1	1	1	1	1	1						
17	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
18	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
19	1	1	1	1	1	1	1	1	9979p	800	802	802	803	804	805	806	804	804	805	805	805	805	804	805	1	806							
20	805	423	4	2	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1P	1	805							
21	1P	1	1	1	1	1	1	1	9995c	1	1	1	1	1P	1P	1	1	1	1	1	1	1	1	1	1	1	1						
22	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
23	1	1	1	1	1	1	1	1	9995c	1	1	9979p 9979p	1	1	1	1	1	1	9979p	1P	1	1	1	1	1	1	1						
24	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
25	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
26	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
27	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
28	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1P	1	1	1	1	1	1						
29	1	1	1	1	1	1	1	1	9995c	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
30	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1						
31																																	

		Monthly:																									
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	Ave	Min	Max
01	1	1	1	1	1	1	0	1	9995c	1C 9995c	ID	1	1	1	1	9995c 9995c	1	1	1	1	1	1	0	1	1	0	1
02	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	0	1	1	1	1	1	1	0	1
03	1	1	0	1	0	1	1	1	9995c	1	1	1	1	1	0	1	1	1	1	0	1	1	1	0	0	1	1
04	1	1	1	1	0	0	0	0	9995c	1	1	1	1	0	1	1	1	0	1	1	1	0	1	0	1	0	1
05	0	1	1	1	0	1	0	0	9995c	1	1	1	0	0	1	1	1	1	0	0	0	1	0	1	0	1	1
06	0	1	0	1P	0	1	0	1	9995c	1	0	0	1	1	1	0	1	1	1	1	0	1	1	0	0	1	1
07	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	0	0	1	1	1	1	0	1	1
08	1	1	1	1	1	1	1	0	9995c	1C 9995c	1	1	1	1	1	1	1	1	0	1	1	1	1	1	0	1	1
09	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	0	1	1	1	1	1	1	1	1	1	0	1	1
10	1	1	1	1	1	1	1	1	9995c	1	0	0	1	0	1	0	1	1	0	0	1	1	0	1	0	1	1
11	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	0	1	1	1	0	1	1
12	0	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
13	0	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	0	1	1
14	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
15	1	1	1	1	1	1	1	1	9995c	1C 9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
16	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	9979d 9979d	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
19	1	1	1	1	1	1	1	1	9979p	800	802	802	803	804	805	806	804	804	805	805	805	805	804	805	1	806	
20	805	423	4	2	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	1P	1	1	1	1	1	1	1	9995c	1	1	1	1	1P	1P	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
23	1	1	1	1	1	1	1	1	9995c	1	1	9979p 9979p	1	1	1	1	1	1	9979p	1P	1	1	1	1	1	1	1
24	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
26	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
27	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
28	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1P	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	9995c	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	9995c	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31																											