

Monthly Matrix SO2 (HL11)

Station/Facility: HL11
 Parameter: SO2 (PPB) Sulfur Dioxide
 Month/Year: Jul 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	5	9	15P	20	9	7	4	3	3	3C	9985c	6C	9985c	9985c	9985c	4	3	2	2	2	2	2	20									
02	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b								
03	2	1	2	2	1	1	1	1P	2	2	2	2	2	2	2C	9985c	5C	3	2	2	2	2	2	2	1	1	5										
04	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b								
05	2	2	2	2	1	1	2	1P	2	1	1	2	1	2	2C	9985c	4C	2	2	2	2	2	2	2	1	1	4										
06	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b							
07	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b						
08	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b						
09	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b					
10	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b				
11	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b			
12	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b			
13	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b		
14	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
15	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
16	2	2	5	4	3	2	2	2P	2	2	2	2	2	2	2C	9985c	5C	3	2	2	2	2	2	2	2	2	2	5									
17	2	2	2	1	2	1	1	2P	1	2	2	2P	1	2	2C	9985c	9C	4	2	2	2	2	2	2	2	2	1	9									
18	2	2	1	2	1	2	2	1P	2	2	1	1	2	1	2C	9985c	9C	4	3	2	2	2	2	2	2	1	9										
19	2	2	2	2	2	1	2	1P	2	2	2	2	2	2	2C	9985c	5C	3	2	2	2	2	2	2	2	1	5										
20	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C	9985c	4C	2	2	2	2	2	2	2	2	2	4										
21	2	2	1	2	2	2	2	2P	2	2	2	2	2	2	2C	9985c	4C	3	2	2	2	2	2	2	2	1	4										
22	2	2	2	2	2	2	2	2P	2	2	2	2	2	1	1C	9985c	9C	5	3	2	2	2	2	2	2	1	9										
23	2	7	7	5	3	2	2	2P	2	2P	9978p	9985c	12C	6	4	3	2	4	5	3	2	2	2	2	2	2	12										
24	2	2	2	2	2	2	2	2P	2	2	2	2	4	5	3C	9985c	7C	5	4	3	2	2	2	2	2	2	7										
25	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C	9985c	9C	4	3	2	2	2	2	2	2	2	9										
26	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	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p		
27	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	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	
28	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	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p
29	3	2	2	2	2	2	2	2P	2	2P	2	2	2	2	2C	9985c	4C	2	2	2	2	2	2	2	2	2	2	8									
30	2	2	2	2	2	2	2	2P	2	2	2	2	2	2	2C	9985c	5C	3	2	2	2	2	2	2	2	2	2	4									
31	2	2	2	1	1	1	1	2	2	2	2	2	2	2	2C	9985c	6C	3	2	2	2	2	2	2	2	1	6										

Flags: Monthly: Ave Min Max

b = Bad Condition - Invalid Hour (9980)
 C = Calibration - Valid Hour
 c = Calibration Auto- Invalid Hour (9985)
 P = Power Failure - Valid Hour
 p = Power Failure - Invalid Hour (9978)

Monthly Matrix PM2.5 (HL11)

Station/Facility: HL11
Parameter: PM2.5 (ug/m3) Particulate Matter 2.5 ug/m3
Month/Year: Jul 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	1	0	1	1	1	4	5	3	4	9	8	3	2	6	7	3	1	0	2	2	0	3	2	0	9
02	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
03	3	4	2	-1	1	2	1	2	1	2	3	1	2	4	3	2	0	0	0	1	3	1	-1	0	-1	4
04	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
05	3	5	5	4	4	5	5	4	3	3	2	3	2	-1	1	2	3	3	3	6	6	7	9	5	-1	9
06	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
07	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
08	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
09	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
10	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
11	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
12	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
13	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
14	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
15	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
16	3	2	-1	1	3	0	2	1	3	1	2	2	3	2	1	1	2	3	3	3	6	6	3	1	-1	6
17	0	1	3	3	2	1	1	3	3	3	5	0	0	8	6	4	6	5	1	1	2	0	1	0	0	8
18	-2	1	3	0	-3	0	3	4	3	1	-1	-1	4	6	4	3	7	12	8	6	6	7	7	5	-3	12
19	5	4	5	4	4	3	1	2	4	2	2	1	1	4	5	6	5	4	6	5	4	5	8	7	1	8
20	5	5	4	3	4	4	3	5	3	1	3	4	4	4	4	2	2	2	3	2	4	6	3	3	1	6
21	3	3	3	3	5	5	3	3	2	2	3	3	5	6	4	6	8	6	4	6	8	7	7	7	2	8
22	6	9	8	7	7	4	3	1	-1	-1	-1	-5	-5	1	2	1	0	2	0	1	-1	-2	2	3	-5	9
23	1	3	10	11	7	2	1	3	4	0P	0P	11	11	10	8	8	10	9	10	12	11	8	7	6	0	12
24	6	6	5	8	9	9	10	8	6	6	6	7	6	2	2	3	1	1	2	3	4	5	4	3	1	10
25	5	6	5	5	8	10	6	2	2	4	4	4	4	4	2	0	1	2	5	7	8	6	3	4	0	10
26	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
27	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
28	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
29	-1	2	2	3	4	4	4	4	3	5	4	3	2	1	2	3	1	1	3	3	3	3	3	2	-1	9
30	1	3	4	4	3	1	1	1	2	4	3	-1	0	3	5	5	5	2	1	3	3	3	3	2	-1	5
31	1	1	4	4	4	4	4	5	2	2	5	4	1	2	1	3	1	0	3	4	4	4	-1	-1	-1	5

Flags:

- b = Bad Condition - Invalid Hour (9980)
- P = Power Failure - Valid Hour
- p = Power Failure - Invalid Hour (9978)

Monthly: 3 Ave Min Max
 -5 -1 12

Wind Direction (HL11)

Station/Facility: HL11
 Parameter: WD (DEG) Wind Direction
 Month/Year: Jul 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	259	257	257	256	261	263	263	253P	108	101	59	61	50	30	57	51	292	275	270	259	257	274	268	247
02	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
03	268	270	266	267	258	255	253	265P	70	7	73	122	170	81	83	56	57	58	359	220	264	269	266	261
04	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
05	289	276	277	277	269	266	263	281P	27	290	312	287	41	42	68	65	61	58	314	278	273	264	265	260
06	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
07	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
08	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
09	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
10	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
11	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
12	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
13	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
14	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
15	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
16	261	263	249	266	247	261	244	270P	259	321	51	54	55	53	67	45	47	45	13	309	255	261	264	260
17	259	264	266	263	256	257	259	280P	56	52	43	36P	343	57	76	11	26	61	64	67	23	322	123	63
18	150	270	160	251	277	250	240	172P	50	351	301	359	40	62	126	91	82	230	271	261	264	263	266	264
19	263	264	262	261	260	261	263	278P	82	61	60	67	76	58	66	56	51	60	54	22	279	275	274	276
20	276	273	268	267	271	275	280	345P	38	51	52	57	62	64	56	48	41	19	353	290	277	278	277	263
21	276	269	272	269	274	260	264	283P	347	41	76	53	78	56	58	60	43	53	46	310	269	268	267	273
22	273	272	310	261	278	259	253	242P	327	356	357	41	61	75	165	159	134	174	174	234	245	247	240	246
23	252	259	269	256	262	264	256	166P	141	122P	86P	107	109	114	113	110	119	103	113	149	171	180	189	223
24	242	258	254	250	252	250	252	250P	157	132	108	108	114	89	105	120	114	117	133	216	257	199	245	244
25	254	261	260	263	261	259	260	256P	244	133	97	52	50	50	52	57	58	62	10	294	263	264	260	262
26	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p
27	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p
28	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p
29	271	256	243	263	262	264	266	257P	206	38P	295	36	52	56	66	60	58	60	55	59	64	253	359	276
30	271	278	262	266	266	286	278	281P	281	239	71	160	74	59	63	70	64	324	281	257	270	260	69	263
31	264	270	268	262	260	263	265	268	70	63	56	55	61	52	57	62	355	2	20	322	204	313	276	291

Flags:

- b = Bad Condition - Invalid Hour (9980)
- P = Power Failure - Valid Hour
- p = Power Failure - Invalid Hour (9978)

Monthly Ave: 186

Wind Speed (HL11)

Station/Facility: HL11
 Parameter: WS (MPH) Wind Speed
 Month/Year: Jul 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	3.2	3.1	3.9	3.6	3.5	3.9	3.7	1.9P	3.1	3.2	4.7	6.0	5.1	3.9	4.3	3.1	4.4	4.9	4.0	3.2	2.8	4.4	3.7	2.7	1.9	6.0
02	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b
03	3.9	4.2	3.6	3.5	3.3	2.7	2.2	1.6P	2.7	1.5	2.6	3.3	2.7	2.4	3.2	4.0	2.7	3.2	2.1	2.6	3.0	3.2	3.5	3.2	1.5	4.2
04	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b
05	5.0	4.1	4.5	4.5	3.4	3.4	3.8	3.5P	3.7	3.4	3.2	4.4	3.5	4.0	4.5	4.5	3.8	2.8	2.0	3.9	4.1	3.3	3.5	3.9	2.0	5.0
06	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b
07	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b
08	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b
09	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b
10	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b
11	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b
12	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b
13	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b
14	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b
15	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b	980b
16	3.9	3.2	2.8	3.1	2.5	4.2	4.3	4.9P	3.1	2.7	2.0	2.9	3.5	4.3	5.1	3.6	3.6	3.4	1.8	1.4	2.5	2.4	2.4	2.2	1.4	5.1
17	2.8	2.7	2.8	2.9	2.5	3.1	2.6	2.1P	2.1	1.9	3.4	3.0P	3.5	3.5	6.9	2.9	1.8	4.7	4.9	4.9	2.8	2.2	2.2	1.5	1.5	6.9
18	1.5	1.9	1.7	1.3	1.9	2.1	1.7	1.4P	3.5	3.1	3.5	2.1	3.5	3.7	2.8	3.5	3.9	1.5	2.5	2.1	2.5	2.8	2.8	2.8	1.3	3.9
19	2.6	3.2	3.5	3.5	3.7	3.7	3.7	2.6P	2.3	3.6	4.6	6.0	6.8	4.7	5.2	4.6	4.1	3.6	2.6	1.6	2.7	3.7	3.6	4.9	1.6	6.8
20	5.6	3.8	3.8	3.7	3.6	3.5	3.8	3.4P	3.4	3.8	5.4	5.7	5.5	6.1	5.9	4.7	4.3	3.3	2.3	3.7	4.7	5.5	4.5	3.8	6.1	6.1
21	5.0	4.4	4.4	4.0	4.8	3.9	3.9	2.1P	2.6	5.2	4.6	3.9	5.1	5.7	5.2	5.3	3.6	2.8	2.2	1.9	2.5	2.4	2.4	2.0	1.9	5.7
22	1.4	0.9	1.3	1.5	1.1	1.7	1.7	1.0P	1.6	1.6	2.0	2.5	4.1	5.7	1.7	2.6	3.5	1.8	2.0	2.2	1.5	1.1	1.8	2.5	0.9	5.7
23	2.4	2.2	2.4	3.1	2.4	2.5	2.4	1.6P	3.6	5.0P	9878p	5.9	6.7	6.3	5.1	4.7	4.1	3.9	3.3	1.8	1.2	1.0	1.7	1.8	1.0	6.7
24	2.2	2.3	3.5	4.2	4.2	4.6	4.0	3.0P	3.1	3.7	5.1	5.7	4.9	4.5	4.6	3.0	3.8	3.5	2.5	0.9	2.0	2.1	2.2	2.3	0.9	5.7
25	2.5	2.6	2.8	2.9	3.1	3.8	4.2	4.3P	3.3	2.6	4.1	4.7	4.5	5.1	4.1	4.4	4.7	2.9	1.3	1.7	2.4	2.8	3.3	3.4	1.3	5.1
26	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p
27	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p
28	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p	9878p
29	0.8	1.3	1.0	2.0	2.4	2.4	3.0	2.6P	0.9	2.5P	4.8	3.8	4.4	5.3	5.6	4.5	4.6	3.8	2.6	3.5	2.7	2.3	3.7	5.5	0.8	5.6
30	4.6	4.8	2.7	3.8	3.4	4.7	5.2	3.6P	4.0	1.8	3.7	1.7	3.7	3.7	5.0	5.5	5.1	3.5	3.1	3.3	2.8	1.1	0.7	1.3	0.7	5.5
31	2.1	2.7	2.8	2.8	3.3	3.8	3.5	3.1	2.3	3.8	4.0	4.7	4.9	4.7	4.7	5.8	2.8	1.9	1.5	3.4	2.8	1.9	4.2	3.1	1.5	5.8

Flags: Monthly: 3.3 Ave 0.3 Min 6.9 Max
 b = Bad Condition - Invalid Hour (9880)
 P = Power Failure - Valid Hour
 p = Power Failure - Invalid Hour (9878)

Monthly Matrix SO2 (KN12)

Station/Facility: KN12
 Parameter: SO2 (PPB) Sulfur Dioxide
 Month/Year: Jul 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	8	15	7	4	4	3	4P	4	5	9985c	5	4	4	5	6	3C	9985c	4C	2	1	1	3	3	1	15
02	3	3	2	3	2	1	2	2P	4	2	9985c	2	2	3	4	5	7	5	4	3	1	1	1	0	0	7
03	0	1	0	0	0	0	0	0P	1	1	9985c	2	1	4	6	5	5	4	3	3	2	1	0	0	0	6
04	0	0	0	0	0	0	0	0P	0	0	9985c	2	2	2	1	1	1	0	0	0	0	0	0	0	0	2
05	0	-1	-1	-1	-1	-1	-1	-1P	0	0	9985c	2	2	5	7	7	4	4	2	1	1	1	0	0	-1	7
06	1	0	0	0	0	0	0	0P	1	1	9985c	3	2	1	0	0	1	1	0	0	0	0	0	0	0	3
07	0	0	0	0	0	0	0	0P	0	0	9985c	5	1	9985c	2	6	6	3	1	1	1	1	1	0	0	6
08	1	0	1	1	0	0	0	1P	2	2	9985c	3	2	2	3	4	4	3	2	0	1	1	1	0	4	
09	1	1	0	0	1	0	0	0P	1	1	9985c	9979d	9979d	4	3	3	2	0	0	1	0	0	1	1	4	
10	1	1	1	0	0	0	0	0P	1	1	9985c	2	2	4	5	1	1	1	0	0	0	0	0	0	5	
11	0	0	0	0	0	-1	0	0P	1	1	9985c	2	1	4	6	3	2	2	2	1	0	0	0	0	-1	6
12	-1	0	0	0	0	0	0	0P	0	0	9985c	3	0	0	-1	-1	-1	0	0	0	0	0	0	0	-1	3
13	0	0	0	0	0	0	0	0P	0	1	9985c	2	1	1	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	2
14	-1	-1	-1	-1	-1	-1	-1	-1P	0	0	9985c	1	0	9985c	0	-1	-1	-1	-1	-1	-1	-1	0	0	-1	1
15	-1	0	0	-1	-1	0	0	0P	1	0	9985c	3	3	1	1	2	1	0	-1	0	0	0	0	0	-1	3
16	0	-1	-1	-1	-1	0	0	0P	0	0	9985c	1	0P	0	0	1	1	1	1	1	1	1	0	0	-1	1
17	0	0	-1	-1	-1	-1	-1	-1P	0	0	9985c	2	1	1	0	0	0	0	0	0	0	-1	-1	-1	-1	2
18	-1	-1	0	0	0	0	0	0P	1	1	9985c	3	2	2	1	1	0	0	0	0	0	0	0	0	-1	3
19	0	0	-1	0	0	-1	0	-1P	0	0	9985c	3	1	1	3	4	4	7	3	2	1	1	1	1	-1	7
20	0	0	0	0	0	0	0	0P	0	0	9985c	2	1	5	3	1	2	4	5	2	1	0	0	-1	-1	5
21	-1	0	0	-1	-1	-1	-1	-1P	0	0	9985c	3	2	9985c	3	3	3	2	1	0	0	0	0	0	-1	3
22	0	0	0	0	0	0	0	0P	1	0	9985c	3	3	5	5	6	5	4	3	4	2	1	1	2	0	6
23	3	1	1	1	1	0	0	0P	0	0	9985c	2	1	1	0	0	0	0	0	-1	-1	-1	-1	-1	-1	3
24	-1	-1	-1	-1	-1	-1	-1	-1P	0	0	9985c	3	2	2	2	1	1	2	1	1	1	1	0	0	-1	3
25	0	0	0	-1	-1	-1	-1	-1P	0	1	9985c	3	1	1	1	2	3	3	1	1	1	1	1	1	-1	3
26	0	0	0	0	0	-1	0	0P	0	0	9985c	1	0	0	1	1	1	1	1	1	1	0	0	0	-1	1
27	1	1	0	0	0	0	0	0P	0	0	9985c	2	0	12	11	23	16	8	4	5	4	2	1	1	0	23
28	2	2	1	0	0	0	0	1P	4	4	9985c	3	2	9985c	2	1	1	0	0	0	0	0	0	0	0	4
29	0	0	0	0	0	0	0	0P	1	1	9985c	6	7	8	6	4	3	2	1	1	1	1	0	0	0	8
30	0	0	0	0	0	0	0	0P	0	0	9985c	5	8	12	17	14	7	4	4	3	1	0	1	1	0	17
31	1	2	1	1	1	1	0	2P	4	4	9985c	4	4	4	7	9	4	1	1	0	0	0	0	0	0	9

Flags: Monthly: Ave 1 -1 Max

C = Calibration - Valid Hour
 c = Calibration Auto- Invalid Hour (9985)
 d = Off-Line Part of Hour - Invalid Hour (9979)
 P = Power Failure - Valid Hour

Monthly Matrix PM2.5 (KN12)

Station/Facility: KN12
 Parameter: PM2.5 (ug/m3) Particulate Matter 2.5 ug/m3
 Month/Year: Jul 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	23	27	27	30	23	20	18	19	16	13	16	18	14	15	12	14	8	9	11	10	7	15	25	7	30									
02	30	29	23	27	23	21	19	17	16	23	10	11	8	7	11	12	17	21	9	19	11	12	15	7	30									
03	14	18	19	15	12	12	12	12	8	4	4	7	7	11	15	18	16	22	15	19	13	17	20	4	22									
04	16	14	16	11	12	13	11	10	10	7	4	7	10	11	15	12	10	7	7	10	12	9	6	7	4	16								
05	10	8	5	2	-1	2	4	4	2	0	3	2	5	16	13	13	12	10	8	8	11	12	10	-1	16									
06	9	11	11	12	8	5	7	10	10	16	13	13	14	9	7	6	6	7	7	7	6	6	5	5	16									
07	3	5	7	8	8	10	11	15	6	7	5	10	10	9	11	20	17	17	10	14	15	14	12	3	20									
08	12	13	14	16	12	17	13	10	10	12	11	10	12	15	19	16	18	18	20	18	10	14	17	14	10	20								
09	16	9	11	16	12	13	14	9	11	8	7	12	13	17	12	11	12	9	7	11	12	12	13	7	17									
10	15	12	12	14	10	15	10	12	9	9	7	9	11	16	14	14	14	13	12	9	14	4	6	4	16									
11	9	11	10	8	15	9	8	9	10	10	9	10	8	16	13	13	13	14	12	12	10	9	8	8	16									
12	9	10	14	10	11	15	15	13	12	8	6	8	5	4	6	3	0	2	3	3	7	11	15	13	0	15								
13	12	11	9	10	12	13	11	11	11	9	9	10	8	8	5	0	1	3	5	4	4	5	7	8	0	13								
14	5	5	4	4	2	3	6	6	5	5	4	2	2	3	1	4	5	4	5	4	4	4	6	7	1	7								
15	8	10	9	8	7	8	8	7	5	7	8	10	12	12	10	8	6	6	8	8	8	9	12	11	5	12								
16	8	9	9	6	4	5	4	2	4	7	7	8	9	6	5	8	9	9	10	9	6	7	10	2	10	10								
17	9	9	9	8	7	7	6	6	4	3	3	6	8	9	9	8	7	7	9	8	8	8	9	3	9									
18	12	11	8	8	8	8	8	10	8	16	7	7	10	12	11	14	10	9	10	12	15	19	12	11	7	19								
19	10	11	11	8	8	10	9	6	7	11	13	15	12	13	15	26	20	26	17	21	17	14	15	6	26									
20	15	14	14	16	17	16	17	15	13	13	12	8	8	15	12	11	14	20	20	20	9	10	11	8	8	20								
21	7	5	4	7	8	4	5	8	12	10	6	8	8	8	10	13	12	10	10	10	12	12	11	10	4	13								
22	15	11	12	12	9	8	10	9	7	8	11	12	14	13	12	13	14	12	11	11	9	9	10	7	15									
23	10	11	9	10	13	12	9	7	7	7	7	8	7	6	7	8	8	9	7	7	5	5	6	5	13									
24	8	9	9	9	6	5	8	10	10	12	13	19	18	19	16	16	21	22	19	21	20	16	9	5	22									
25	10	9	9	11	12	10	9	10	10	11	10	10	12	15	13	16	17	16	18	20	20	17	17	9	20									
26	12	12	11	16	15	11	11	8	7	11	12	11	10	7	10	9	8	8	10	11	12	11	20	7	20									
27	11	16	12	11	11	13	14	7	9	11	12	16	7	7	20	19	32	27	22	10	19	13	14	7	32									
28	14	18	16	20	16	18	18	14	15	18	18	9	10	11	12	13	9	9	7	11	10	9	9	7	20									
29	9	11	18	14	13	11	12	13	16	17	11	14	13	16	18	18	17	17	10	11	11	12	10	9	18									
30	7	7	6	9	12	17	9	10	10	10	6	7	16	16	23	23	10	9	9	10	10	11	15	6	23									
31	13	19	16	19	18	18	17	16	22	17	22	20	15	17	12	21	26	13	13	10	8	9	11	13	8	26								

Flags: None
 Monthly: 11 Ave -1 32 Min Max

Wind Direction (KN12)

Station/Facility: KN12
Parameter: WD (DEG) Wind Direction
Month/Year: Jul 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	88	66	67	59	72	71	72	52P	320	307	308	298	294	293	306	280	282	290	280	249	72	84	75	84
02	76	74	82	73	76	79	74	64P	318	290	286	287	278	291	274	294	279	291	299	3	91	96	99	82
03	60	68	59	61	73	84	91	112P	191	224	236	247	251	230	220	213	211	208	262	292	39	59	20	61
04	74	78	61	71	70	78	80	96P	181	206	217	226	255	266	268	249	257	234	348	345	304	123	128	136
05	110	94	73	90	83	73	79	77P	296	275	281	290	309	298	306	302	318	267	151	115	94	99	86	59
06	154	108	94	88	85	83	85	100P	194	209	266	263	258	253	255	271	250	244	217	137	83	101	101	99
07	87	89	89	89	89	86	83	109P	178	220	261	269	281	340	313	313	345	26	46	65	74	73	78	68
08	81	101	89	74	67	78	92	97P	241	265	260	249	283	265	266	285	327	1	55	71	87	91	91	92
09	89	83	82	85	74	72	76	61P	271	275	288D	232D	285	265	262	274	297	349	52	76	82	90	92	95
10	92	83	81	74	81	68	76	75P	269	262	268	282	286	282	281	347	37	50	74	64	62	74	71	83
11	69	62	67	79	85	84	81	91P	190	213	221	234	260	265	303	317	348	5	2	26	43	71	81	85
12	88	90	82	83	69	67	69	38P	251	235	253	223	206	219	261	285	41	128	108	87	94	90	84	73
13	81	84	89	67	76	84	81	97P	199	200	209	207	207	215	257	224	75	53	148	130	109	106	109	100
14	85	87	90	83	84	78	72	92P	180	209	194	195	209	203	250	216	121	99	81	69	75	72	73	69
15	79	82	88	84	81	82	78	85P	166	209	185	218	217	219	226	240	259	237	97	68	48	76	65	72
16	81	72	70	71	74	78	76	79P	244	235	200	262	267P	266	270	285	300	305	319	5	13	64	32	69
17	94	100	79	82	77	77	87	107P	230	268	299	278	278	292	264	246	251	218	101	73	84	73	81	75
18	77	77	74	73	72	72	67	51P	286	255	262	267	281	292	295	296	14	22	12	58	64	60	50	49
19	58	55	67	22	20	355	65	56P	293	277	272	268	259	272	291	292	307	292	357	129	91	357	83	72
20	101	79	89	79	82	79	75	78P	183	203	197	199	221	244	292	345	2	20	8	287	262	127	104	105
21	97	89	89	87	85	74	71	79P	223	246	238	282	281	313	302	288	276	288	311	91	86	83	81	77
22	76	81	73	75	62	84	67	101P	176	191	250	251	265	255	265	253	273	314	353	28	80	135	108	103
23	35	82	77	101	111	117	107	17P	278	280	290	288	311	332	309	310	329	314	15	354	12	131	143	62
24	58	47	4	320	25	58	51	39P	313	306	305	296	285	278	289	255	301	277	347	279	332	335	18	45
25	30	41	43	54	70	73	87	68P	331	248	259	262	255	250	287	296	300	301	352	0	331	354	22	3
26	16	106	73	80	86	68	79	95P	178	239	252	239	238	248	268	290	265	290	300	37	33	64	40	59
27	26	285	124	92	95	97	116	106P	179	222	259	259	286	282	297	298	277	227	248	334	75	97	89	103
28	76	81	85	89	79	89	82	142P	176	207	247	254	296	323	303	299	294	262	198	132	109	117	86	53
29	56	54	57	64	70	74	80	94P	218	238	261	262	270	295	338	330	321	8	64	96	103	117	91	92
30	87	89	81	71	72	74	73	66P	244	255	270	279	280	288	297	308	303	303	288	248	91	89	92	86
31	90	80	79	79	78	86	85	125P	252	257	269	273	291	319	317	311	301	308	53	113	108	116	103	100

Flags:
 D = Off-Line Part of Hour - Valid Hour
 P = Power Failure - Valid Hour
 Monthly Ave: 161

Wind Speed (KN12)

Station/Facility: KN12
 Parameter: WS (MPH) Wind Speed
 Month/Year: Jul 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	3.0	3.5	4.4	5.0	6.2	6.3	6.7	4.8P	3.6	3.9	5.5	6.2	4.8	4.5	4.2	5.1	5.0	4.3	2.3	1.0	1.3	3.3	3.4	3.4	3.4	1.0	6.7
02	3.7	4.1	5.1	4.7	4.0	4.8	4.1	3.1P	2.5	4.4	5.5	7.4	6.7	5.7	4.6	4.4	5.1	3.5	2.0	1.2	3.8	3.9	2.6	3.3	3.3	1.2	7.4
03	3.2	4.1	4.5	4.5	4.5	5.5	5.2	4.2P	3.9	4.3	4.7	4.9	4.6	5.3	5.3	4.9	3.5	2.7	1.4	1.5	2.3	2.9	2.6	3.8	1.4	5.5	
04	4.8	4.8	4.0	4.4	4.4	5.4	5.4	4.5P	3.2	3.9	4.5	5.1	5.5	5.4	4.0	3.0	3.0	1.0	1.4	1.1	1.6	2.9	2.5	2.2	1.0	5.5	
05	2.3	4.1	4.5	4.2	3.9	3.0	3.3	2.3P	2.1	4.1	4.2	5.4	4.5	5.4	3.8	2.8	2.3	2.1	1.2	1.7	2.5	2.7	3.3	1.7	1.2	5.4	
06	2.4	3.3	3.1	3.7	5.4	5.6	5.0	3.4P	2.1	3.3	4.3	4.4	3.2	3.6	4.1	3.4	4.6	2.8	2.0	1.3	2.8	2.4	2.2	2.7	1.3	5.6	
07	2.8	3.0	3.8	3.7	4.6	4.3	3.8	3.6P	5.1	4.4	5.0	4.3	3.6	2.0	3.3	4.0	2.7	3.1	3.6	3.0	2.8	2.5	2.6	2.1	2.0	5.1	
08	3.1	3.0	3.1	2.3	2.4	3.2	3.6	2.3P	2.3	3.9	4.0	4.3	2.7	2.7	2.6	2.6	2.5	1.5	3.5	3.5	4.0	4.9	5.2	4.8	1.5	5.2	
09	5.1	5.3	4.6	4.7	3.6	3.9	3.7	2.6P	1.7	3.7	6.4D	9979d	4.3	4.8	4.5	6.0	4.8	2.3	3.4	5.2	4.3	4.2	4.3	4.8	1.7	6.4	
10	4.0	3.5	4.0	3.7	4.4	4.3	4.8	3.8P	2.1	3.2	4.5	4.6	5.5	6.3	6.3	2.9	2.8	3.1	4.1	2.8	2.4	3.0	3.2	4.8	2.1	6.2	
11	3.7	3.0	3.1	3.5	4.2	4.8	4.9	3.8P	2.6	3.2	4.2	5.7	6.2	5.8	3.9	4.0	3.1	2.4	2.5	3.8	2.4	3.3	3.8	4.5	2.4	6.3	
12	4.8	4.2	3.5	4.1	2.7	2.5	2.7	1.9P	3.4	3.8	3.8	5.2	5.2	5.3	5.3	4.2	2.1	2.2	2.7	4.4	4.1	4.6	3.9	2.8	1.9	5.3	
13	3.6	4.3	4.7	2.8	4.4	5.5	4.6	3.9P	3.3	3.8	5.0	5.0	5.1	5.0	6.0	2.9	2.5	3.8	2.8	3.8	3.7	4.3	3.5	3.9	2.5	6.0	
14	4.8	4.1	4.5	5.4	6.2	5.0	4.2	3.8P	4.0	4.4	4.7	5.5	5.9	5.7	5.5	4.2	2.3	3.4	3.0	2.9	3.4	3.9	4.6	4.0	2.3	6.2	
15	5.5	6.7	7.3	7.1	6.6	7.2	5.5	5.2P	3.3	4.2	4.7	5.0	5.1	5.6	5.2	5.1	4.4	3.2	7.0	5.0	3.1	4.5	4.0	4.8	3.1	7.3	
16	4.4	5.8	5.8	7.6	9.3	8.2	6.9	6.5P	2.6	3.5	3.8	5.8	5.8P	5.2	5.8	5.3	6.9	4.6	3.5	2.3	1.6	2.3	2.0	2.3	1.6	9.3	
17	3.9	2.7	4.5	4.5	5.3	5.5	6.6	5.1P	3.0	4.5	4.8	4.6	4.6	5.7	6.0	4.7	3.5	3.0	1.0	3.5	3.8	3.2	5.0	5.1	1.0	6.6	
18	4.9	5.2	5.5	4.9	6.4	6.1	5.6	3.8P	3.0	4.0	4.1	4.4	5.5	4.9	5.0	4.7	2.1	1.1	1.6	3.4	4.3	3.9	2.2	2.1	1.1	6.4	
19	2.9	2.6	2.3	1.7	1.8	0.7	2.0	1.7P	1.6	3.5	3.5	3.4	3.0	3.0	3.8	4.4	3.5	3.3	1.5	1.2	0.6	0.7	1.2	1.2	0.6	4.4	
20	2.2	2.5	4.8	3.6	4.3	4.7	4.2	3.0P	3.0	3.8	4.5	5.6	5.2	3.6	3.3	2.2	1.9	2.0	2.3	4.1	3.7	3.3	6.0	6.0	1.9	6.0	
21	6.8	5.8	4.8	5.2	5.9	5.0	5.1	4.0P	1.7	3.6	4.1	4.5	5.1	4.0	4.7	4.4	5.0	4.0	1.8	4.0	4.5	5.1	5.4	4.8	1.7	6.8	
22	4.9	5.6	4.8	5.3	4.6	5.1	3.3	2.7P	3.1	4.4	4.8	5.2	5.3	5.4	5.3	5.1	4.4	3.8	3.1	4.0	2.3	1.9	4.1	5.1	1.9	5.6	
23	1.9	2.9	2.3	2.6	2.7	2.0	2.9	2.6P	3.1	3.4	4.1	6.0	5.0	4.5	7.2	6.3	4.7	4.3	1.9	1.5	1.0	0.5	0.6	1.4	0.5	7.2	
24	1.9	1.6	1.9	3.4	3.0	4.7	3.4	2.9P	3.9	4.6	5.1	4.6	5.8	5.6	4.4	2.0	2.7	3.1	1.3	4.1	2.0	2.4	2.3	3.4	1.3	5.8	
25	3.7	3.7	3.8	4.1	4.2	3.7	3.7	3.2P	1.2	2.5	3.9	4.4	5.0	5.6	3.1	3.4	3.6	3.3	1.5	2.3	1.7	1.8	1.8	1.9	1.2	5.6	
26	1.3	1.6	1.7	4.1	4.8	4.2	4.4	3.1P	2.1	3.0	4.4	4.5	4.1	4.6	4.0	3.8	3.4	3.1	2.6	1.0	1.2	3.0	2.4	1.8	1.0	4.8	
27	2.6	0.5	2.0	2.6	3.5	3.9	2.1	2.7P	1.7	2.4	4.9	5.2	4.4	5.4	6.3	4.9	3.6	2.9	3.2	1.3	1.8	1.9	2.2	1.9	0.5	6.3	
28	2.8	3.5	4.6	4.1	3.4	4.5	2.5	2.3P	3.7	3.7	4.7	5.4	4.5	3.8	5.6	5.2	4.1	4.5	2.4	1.7	3.0	2.2	3.2	2.9	1.7	5.6	
29	2.9	3.1	3.4	3.7	4.0	4.0	4.0	3.5P	3.9	3.3	4.1	4.6	4.5	3.6	3.7	3.6	3.4	3.0	1.0	3.5	3.6	3.3	4.7	4.4	1.0	4.7	
30	4.3	4.2	4.2	3.5	3.7	3.3	3.1	2.7P	2.3	3.4	4.4	5.8	5.6	6.7	6.3	6.0	5.8	4.5	3.0	1.4	2.0	3.2	2.8	3.1	1.4	6.7	
31	3.6	3.4	3.6	4.6	3.5	4.0	3.8	2.8P	3.5	3.5	4.6	5.4	6.5	5.4	5.6	6.0	5.9	4.1	1.5	2.8	3.2	2.5	3.5	3.7	1.5	6.5	

Flags:

- D = Off-Line Part of Hour - Valid Hour
- d = Off-Line Part of Hour - Invalid Hour (9979)
- P = Power Failure - Valid Hour

Monthly: Ave 3.8 Min 0.5 Max 9.3

Monthly Matrix SO2 (PA16)

Station/Facility: PA16
 Parameter: SO2 (PPB) Sulfur Dioxide
 Month/Year: Jul 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	30		
01	29	26	79	73	72	46	33	75P	102	47	37	3	9985c	2	1	1	1	1	1C	9985c	23C	51	87	90	1	102							
02	42	42	23	22	20	22	33	53P	78	34	23	10	9985c	2	1	1	1	1	0	1	1	7	25	15	0	78							
03	19	19	15	26	28	25	25	82P	101	72	21	13	9985c	5	2	1	1	3	3	6	6	21	26	23	1	101							
04	27	29	23	26	19	15	22	33P	41	76	74	11	9985c	3	2	2	2	3	8	28	30	36	29	29	2	76							
05	15	11	12	23	17	11	12	8P	11	44	57	74	9985c	15	6	6	20	59	59	40	31	24	31	19	6	74							
06	13	15	39	49	35	32	87	39P	20	5	4	21	9985c	15	12	20	15	14	18	22	27	18	26	32	4	87							
07	27	26	30	36	19	17	23	37P	38	20	15	29	9985c	27	34C	14C	14	23	29	35	35	34	30	34	14	38							
08	38	49	36	23	36	29	29	37P	48	9979d	9979d	9979d	9985c	36	12	21	4	8	25	61	78	65	37	46	4	78							
09	46	58	92	63	28	21	11	30P	31	24	54	17	9985c	29	39	61	34	18	59	113	61	45	31	32	11	113							
10	28	24	43	35	30	25	20	33P	43	44	60	24	9978p	9978p	5	3	2	3	7	41	41	160	69	59	2	160							
11	58	51	50	45	47	37	48	56P	79	96	75	8	9985c	3	2	1	1	1	7	28	6	20	28	27	1	96							
12	16	24	33	23	19	26	22	27P	70	61	24	3	9985c	3	1	1	1	2	8	11	22	25	36	30	1	70							
13	23	19	18	28	26	27	32	63P	85	83	9	2	9985c	2	2	1	2	10	12	25	36	41	64	66	1	85							
14	49	46	38	42	34	31	25	39P	66	49	9978p	9979d	9979d	7	2	1	1	1	3	83	39	21	45	22	1	83							
15	17	28	26	27	40	62	59	42P	72	85	46	8	9985c	2	1	1	1	4	9	20	32	8	6	7	1	85							
16	4	8	5	12	26	43	70	76P	76	10	3	2	9985c	2	1	1	1	5	15	8	20	102	48	38	1	102							
17	43	35	29	46	42	24	39	27P	25	36	43	57	9985c	23	6	19	33	61	81	120	72	64	72	58	6	120							
18	27	33	52	33	77	107	19	51P	76	61	21	4	9985c	5	5	6	3	3	5	6	11	28	60	61	3	107							
19	17	25	29	39	27	18	35	113P	90	42	55	45	9985c	6	3	2	9	12	22	30	16	16	17	22	2	113							
20	64	147	90	135	119	100	78	50P	81	47	45	33	9985c	11	5	6	10	17	47	43	45	41	41	28	5	147							
21	39	36	37	41	56	46	45	140P	32	18	9	28	9985c	4	4C	4C	2	5	1	5	23	31	36	27	1	140							
22	32	27	16	7	5	25	48	48P	37	32	31	27	9985c	3	2	1	3	4	3	1	1	1	0	0	0	48							
23	0	0	4	14	3	1	1	1P	0	1	2	2	9985c	1	1	0	0	0	0	0	0	1	3	17	0	17							
24	17	25	24	43	80	158	156	233P	193	50	5	3	9985c	2	1	1	1	1	1	2	4	47	30	15	1	233							
25	25	84	50	43	49	60	100	75P	63	26	10	4	9985c	1	1	1	1	1	2	3	2	12	200	220	1	220							
26	121	123	146	140	175	149	123	130P	178	110	39	25	9985c	5	2	4	9	7	3	3	6	7	8	28	2	178							
27	32	20	27	44	63	53	44	65P	69	31	35	30	9985c	4	3	2	2	6	23	40	40	35	29	42	2	69							
28	51	44	33	54	170	264	175	184P	51	13	42	14	9985c	8	2C	1C	1	1	5	7	8	20	46	50	1	264							
29	55	64	68	74	44	50	38	99P	117	59	12	37	9985c	3	2	3	5	27	36	35	34	34	30	40	2	117							
30	33	68	107	159	112	37	23	49P	55	17	18	14	9985c	20	18	20	5	36	141	14	57	58	92	99	5	159							
31	89	135	108	86	75	55	97	203P	89	10	45	23	9985c	4	2	1	1	5	17	39	42	46	50	100	1	203							

Flags: Monthly: 35 Ave 0 Min Max
 C = Calibration - Valid Hour
 c = Calibration Auto- Invalid Hour (9985)
 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: Jul 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	30		
01	11	15	12	12	21	17	7	OP	24	37	22	14	8	0	-2	0	1	-1	-1	1	5	10	19	29	-2	37							
02	31	14	14	11	4	2	4	OP	10	24	16	17	3	1	1	3	-1	-2	-1	0	3	5	7	9	-2	31							
03	12	11	10	11	11	8	6	OP	24	34	28	12	12	16	4	3	3	6	16	10	9	8	9	8	0	34							
04	8	7	4	5	5	3	2	OP	4	6	24	22	8	5	3	3	4	6	8	6	10	12	21	25	0	25							
05	6	4	6	7	8	8	5	OP	10	6	8	18	21	11	8	3	5	10	11	18	6	9	8	7	0	21							
06	6	2	-2	0	2	3	5	OP	3	1	-1	2	8	10	7	4	3	4	6	6	7	9	11	9	-2	11							
07	7	7	5	4	3	1	-1	OP	3	4	3	2	4	22	11	7	4	5	3	6	11	12	10	8	-1	22							
08	5	7	11	12	10	7	7	OP	5	6	6	6	6	17	9	9	8	10	8	5	11	15	14	8	0	17							
09	5	6	6	8	8	6	4	OP	3	5	1	1	9	8	8	9	10	12	10	17	23	18	15	11	0	23							
10	7	7	6	4	4	4	2	OP	0	5	5	7	9978p	7	7	3	3	6	8	8	9	14	34	16	0	34							
11	18	21	14	15	14	12	10	OP	9	17	17	17	8	4	1	-1	-1	-1	-1	3	7	8	5	8	-1	21							
12	10	6	6	11	10	6	5	OP	3	7	13	12	7	5	3	0	1	4	8	17	15	14	13	13	0	17							
13	11	7	4	4	6	3	2	OP	10	13	14	10	6	5	0	-1	1	2	2	3	5	9	9	8	-1	14							
14	13	11	6	4	0	0	5	OP	2	0	OP	9979d	6	6	5	3	2	1	3	6	23	7	7	7	0	23							
15	5	4	4	5	4	3	6	OP	7	8	19	18	9	8	4	3	3	3	3	4	9	10	7	1	0	19							
16	2	5	4	2	3	1	3	OP	12	14	9	2	2	3	3	3	1	-2	2	5	5	6	22	17	-2	22							
17	10	9	8	7	8	12	9	OP	6	7	7	10	17	17	3	6	8	8	11	14	21	15	17	21	0	21							
18	16	8	1	4	4	19	23	OP	3	17	11	4	3	12	14	11	10	12	11	8	6	7	11	19	0	23							
19	18	10	9	6	5	6	4	OP	2	6	12	15	17	15	13	8	6	8	9	9	8	18	17	11	0	18							
20	12	7	5	6	5	5	6	OP	5	6	4	4	9	10	9	5	2	3	5	10	13	13	13	13	0	13							
21	10	7	4	4	4	5	4	OP	5	3	4	4	6	7	3	4	7	7	6	4	6	10	12	13	0	13							
22	13	8	3	2	-1	-1	0	OP	6	8	5	7	8	4	-1	-5	-3	-2	1	1	-3	-5	-3	0	-5	13							
23	1	2	-1	1	5	-1	-2	OP	-3	1	7	10	9	6	7	8	5	4	4	5	5	7	12	14	-3	14							
24	13	10	21	16	23	28	28	OP	26	28	25	4	2	2	3	3	3	-1	-1	0	8	11	11	12	-1	28							
25	8	6	2	3	3	3	6	OP	6	8	8	10	5	1	3	2	3	3	3	8	13	11	8	8	0	13							
26	11	11	10	8	7	7	10	OP	12	17	20	11	10	7	5	6	8	7	6	4	4	6	4	5	0	20							
27	8	10	10	10	10	10	17	OP	8	8	8	6	8	8	6	6	7	8	6	6	10	11	9	9	0	17							
28	9	7	4	6	4	4	7	9978p	6	3	0	3	7	22	12	10	8	5	6	12	14	14	11	18	0	22							
29	18	17	12	18	14	10	9	OP	17	14	14	9	10	10	3	2	5	5	7	10	10	10	11	11	0	18							
30	10	7	4	4	5	5	2	OP	5	9	10	17	27	12	8	8	13	9	6	34	2	6	11	26	0	34							
31	31	29	35	25	13	17	13	OP	10	6	2	2	6	8	4	5	5	5	6	18	13	13	10	12	0	35							

Flags: Monthly: Ave 8 Min -5 Max 37

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

Wind Direction (PA16)

Station/Facility: PA16
 Parameter: WD (DEG) Wind Direction
 Month/Year: Jul 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	329	332	320	322	320	325	283	166P	91	107	119	118	122	109	121	124	127	113	190	253	286	236	251	219
02	233	104	271	286	302	328	332	208P	90	102	115	113	121	123	118	116	186	308	233	289	201	216	298	175
03	270	201	276	318	308	326	322	115P	253	190	97	97	108	103	105	114	254	122	91	274	302	317	298	317
04	321	310	322	324	323	327	324	204P	186	107	107	101	118	120	140	93	96	112	123	176	291	231	234	280
05	281	254	297	260	326	264	177	147P	131	108	106	101	108	109	115	146	132	112	203	252	226	286	263	242
06	254	299	295	300	306	294	274	245P	182	119	107	107	108	111	115	118	150	220	249	274	230	293	285	314
07	296	295	278	296	288	304	269	178P	172	95	101	106	108	105	106	111	106	103	93	284	226	176	275	312
08	294	288	188	246	292	305	304	251P	241	9979d	9979d	101	101	106	102	106	101	91	103	139	113	190	77	64
09	83	86	60	127	132	107	279	231P	148	85	98	103	106	107	118	130	117	120	141	259	268	321	320	298
10	297	280	226	200	288	295	291	290P	270	116	107	111	9978p	105P	114	113	122	143	189	115	181	95	249	146
11	283	310	259	318	325	308	312	177P	93	110	104	105	107	109	114	102	94	183	229	181	78	217	331	291
12	288	315	321	322	306	284	297	300P	162	107	107	111	115	108	114	110	103	97	90	102	204	283	311	315
13	316	317	321	329	323	308	320	157P	94	101	105	98	94	79	249	241	203	176	99	189	285	330	314	317
14	316	319	325	331	323	325	321	243P	197	178	157P	108	111	129	121	118	112	109	104	143	189	243	131	189
15	317	326	322	327	279	100	225	93P	93	107	111	109	105	122	150	146	105	103	239	294	323	321	321	316
16	278	280	318	317	288	289	266	149P	128	95	92	85	97	97	99	98	121	122	91	136	211	262	296	270
17	277	299	293	308	293	306	260	138P	137	108	105	108	104	104	111	184	112	145	216	153	213	278	280	158
18	88	126	92	138	104	173	141	147P	84	85	78	89	98	101	98	99	97	94	91	80	82	117	193	305
19	324	293	306	311	269	256	318	229P	123	102	108	104	103	103	111	103	97	116	178	257	199	292	306	309
20	293	306	315	326	321	323	317	240P	128	175	110	114	115	104	126	201	117	109	187	281	271	228	284	255
21	305	291	292	263	302	305	284	118P	63	87	101	106	105	104	101	98	98	96	126	314	316	280	298	326
22	279	243	294	305	310	306	314	184P	169	147	105	99	103	152	109	90	103	105	62	73	273	198	195	106
23	217	161	184	209	215	227	176	138P	79	100	112	113	127	151	131	107	125	100	83	110	64	93	88	155
24	257	326	318	321	317	223	317	137P	72	101	101	91	92	97	100	79	83	74	98	99	140	156	264	326
25	310	151	215	279	151	305	244	159P	106	93	102	101	103	102	93	77	83	83	122	260	306	319	310	320
26	323	318	304	302	290	294	291	184P	134	126	99	101	105	115	117	113	117	126	194	252	259	181	305	298
27	302	330	310	296	297	326	283	271P	265	205	117	122	137	142	143	169	204	176	165	174	250	260	249	298
28	278	275	302	315	299	300	285	185P	150	98	105	103	105	109	115	112	119	146	186	266	172	257	238	265
29	254	190	215	192	287	307	259	148P	104	98	103	103	106	110	115	155	204	116	149	200	280	246	314	286
30	296	283	300	267	278	270	253	250P	224	151	106	106	107	103	106	103	167	212	131	140	187	94	228	203
31	109	191	247	274	274	323	271	214P	84	107	102	107	108	111	118	129	139	200	222	187	271	180	263	253

Flags: Monthly Ave: 193
 d = Off-Line Part of Hour - Invalid Hour (9979)
 P = Power Failure - Valid Hour
 p = Power Failure - Invalid Hour (9978)

Wind Speed (PA16)

Station/Facility: PA16
 Parameter: WS (MPH) Wind Speed
 Month/Year: Jul 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	4.1	4.6	4.3	5.1	5.3	5.9	3.0	1.6P	2.7	2.8	4.0	6.2	5.8	5.0	5.4	5.1	4.5	4.2	5.2	4.9	4.6	4.2	3.7	3.5	1.6	6.2
02	4.2	2.7	5.0	4.2	4.5	4.6	4.9	2.5P	3.0	4.7	7.7	7.5	7.8	7.5	6.4	5.2	3.9	5.9	4.3	4.0	4.3	4.9	4.4	2.3	2.3	7.8
03	2.4	3.0	2.9	3.9	3.5	3.9	2.5	1.2P	1.6	2.6	3.1	4.3	7.5	6.5	6.2	3.5	2.1	5.0	3.4	2.1	2.8	3.8	4.5	4.1	1.2	7.5
04	4.4	3.9	4.4	5.2	5.5	5.9	4.7	0.8P	2.4	6.3	7.8	7.9	6.0	4.1	3.3	3.1	3.9	3.5	2.9	2.5	3.5	2.6	2.3	2.6	0.8	7.9
05	3.8	3.2	3.7	2.5	3.3	4.3	5.8	2.7P	3.4	7.1	7.1	6.7	8.9	10.1	7.0	3.8	4.8	4.0	3.3	3.4	2.9	4.1	4.3	4.4	2.5	10.1
06	4.7	4.3	4.1	4.0	4.6	6.5	4.2	2.6P	2.4	5.4	9.2	8.9	8.8	8.2	7.5	6.6	3.6	3.1	4.0	4.5	3.9	2.7	3.3	3.5	2.4	9.2
07	3.0	4.5	4.5	3.8	4.0	4.0	2.8	2.7P	2.5	4.9	6.7	9.3	8.3	12.2	9.3	9.3	6.4	4.7	3.0	1.5	1.6	2.8	3.4	3.6	1.5	12.2
08	3.7	2.5	1.6	2.1	2.1	3.4	2.9	2.3P	2.8	9.979d	10.8	11.0	11.7	8.7	9.7	9.7	8.9	6.3	3.7	4.3	3.2	3.2	5.3	4.8	1.6	11.7
09	4.8	4.9	5.5	3.9	3.6	3.8	3.1	2.4P	4.3	5.5	10.2	10.9	11.5	10.0	7.4	5.2	5.0	3.5	3.5	4.1	2.6	4.1	4.5	3.4	2.4	11.5
10	3.2	3.6	3.2	1.8	2.9	2.7	4.0	2.1P	2.4	6.9	8.6	7.8	9.978p	7.4P	7.4	6.5	3.9	2.6	2.5	1.4	1.5	2.4	2.0	2.3	1.4	8.6
11	1.6	2.4	2.9	3.0	3.4	3.6	2.7	1.7P	2.2	5.9	7.3	7.4	8.6	8.7	7.9	6.0	3.2	4.0	4.4	3.6	3.3	3.7	3.8	2.9	1.6	8.7
12	2.7	3.4	3.6	2.5	2.6	3.8	3.8	2.8P	2.2	3.1	4.7	6.8	7.1	6.6	5.3	6.3	5.9	4.4	3.2	2.2	1.1	1.8	2.9	3.5	1.1	7.1
13	2.5	3.0	3.7	4.6	4.8	4.2	3.6	1.8P	2.7	3.9	7.3	6.3	3.8	3.3	5.9	6.0	4.5	3.2	3.1	4.0	4.0	4.2	3.6	3.8	1.8	7.3
14	4.5	4.3	5.0	5.0	4.4	5.3	3.8	3.8P	2.7	3.0	5.3P	9.2	8.2	6.9	6.8	7.7	6.4	4.7	6.2	3.3	1.9	2.5	4.8	3.0	1.9	9.2
15	4.0	5.1	5.5	5.7	4.5	4.6	7.3	5.1P	5.2	7.2	8.5	8.3	7.6	5.7	4.4	6.3	6.6	4.7	2.6	3.7	5.0	4.5	4.5	4.6	2.6	8.5
16	3.8	3.8	4.7	4.6	4.2	3.7	4.4	3.3P	2.5	4.3	4.7	4.2	6.1	5.0	5.6	3.6	5.0	3.3	3.6	3.7	2.9	4.2	3.6	3.6	2.5	6.1
17	4.1	3.7	3.7	4.0	5.1	5.6	5.5	3.5P	3.2	8.0	9.0	7.4	7.9	7.5	6.9	4.2	4.2	2.7	1.6	2.7	1.8	2.0	1.9	2.4	1.6	9.0
18	5.6	5.0	4.7	5.7	4.2	5.0	4.2	3.2P	3.9	3.2	5.4	5.9	6.7	7.3	6.2	5.7	6.4	5.6	4.5	4.4	3.5	3.2	2.7	3.3	2.7	7.3
19	5.3	5.2	5.3	5.3	3.5	4.6	5.1	2.4P	2.2	7.1	8.1	9.0	6.8	8.2	7.6	5.1	3.7	5.1	3.4	3.7	2.2	3.2	3.5	4.5	2.2	9.0
20	4.8	4.2	4.2	5.3	5.4	5.1	4.1	1.9P	2.5	5.1	9.5	11.9	12.7	11.7	8.8	5.9	8.0	10.2	3.8	3.9	3.7	3.6	5.1	3.9	1.9	12.7
21	4.2	3.9	4.0	4.2	3.8	5.9	4.4	5.6P	5.9	5.8	8.6	10.9	11.3	9.7	7.5	6.1	5.2	4.0	1.9	2.5	3.8	3.7	3.3	3.4	1.9	11.3
22	2.8	4.1	2.8	3.3	2.6	3.4	3.1	2.7P	2.6	1.9	6.4	5.0	7.3	2.4	1.8	3.4	4.8	2.7	4.2	3.7	5.3	3.4	4.0	2.1	1.8	7.3
23	3.1	4.1	3.8	4.8	4.8	4.4	3.1	2.7P	2.3	3.4	5.3	5.2	4.0	4.5	5.4	3.4	4.1	3.6	2.8	2.2	2.0	1.6	2.6	2.6	1.6	5.4
24	2.1	4.1	4.0	4.3	4.8	5.7	4.2	3.3P	3.8	5.2	6.1	4.8	3.9	5.4	5.9	3.1	2.5	3.2	2.7	2.6	2.7	2.6	2.7	3.9	2.1	6.1
25	3.6	3.2	5.0	3.6	3.7	5.0	3.4	3.1P	3.3	4.5	6.7	6.5	6.1	5.4	4.2	2.6	2.9	2.4	2.1	2.4	3.3	4.0	4.3	5.2	2.1	6.7
26	5.2	4.9	4.5	5.1	4.3	4.1	3.5	1.6P	3.2	4.3	6.0	7.5	7.6	6.4	4.7	4.9	4.9	4.9	3.2	3.6	4.3	3.8	2.8	3.6	1.6	7.6
27	2.9	4.2	3.6	3.3	3.6	4.7	4.5	2.9P	3.3	4.3	9.2	9.5	6.3	5.3	5.3	4.2	3.7	3.5	3.2	2.3	2.8	2.5	3.2	3.6	2.3	9.5
28	2.9	3.0	3.6	4.4	3.5	3.8	4.1	2.5P	3.6	7.2	8.3	9.1	8.3	8.7	5.4	7.0	3.5	3.8	3.2	3.0	2.5	2.5	1.6	2.7	1.6	9.1
29	2.3	1.6	2.5	3.1	3.4	3.4	2.8	1.8P	1.6	6.1	7.4	7.7	8.3	6.4	5.9	4.1	4.0	4.3	2.4	2.3	2.7	3.1	4.1	4.1	1.6	8.3
30	3.3	3.2	4.0	3.6	4.1	4.7	4.5	2.7P	2.1	5.7	10.2	9.4	9.1	9.5	7.9	6.7	4.7	3.5	3.1	2.7	2.4	3.2	3.0	2.0	2.0	10.2
31	2.4	3.3	2.9	3.3	4.4	5.2	3.7	2.2P	4.0	8.2	6.5	8.0	8.2	8.8	6.8	5.2	4.7	3.8	3.3	2.3	2.7	1.5	3.4	3.2	1.5	8.8

Flags: Monthly: Ave 4.5 Min 0.8 Max 12.7
 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: Jul 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	6	9	9	18	177	64	38	18	9	11	14	10	10	14	10	3	4	6	6	7	7	6	7	3	177	
02	9	9	6	5	5	7	8	7	6	6	6	3	3	5	10	10	6	6	5	6	6	4	4	7	3	10	
03	8	9	10	5	4	5	6	6	5	6	9	7	7	9	10	10	9	10	9	9	8	5	4	5	4	10	
04	6	6	4	6	8	6	3	7	9	6	9	9	10	10	7	8	9	8	7	7	7	6	9	11	3	11	
05	5	5	8	7	6	4	7	9	7	6	5	6	5	5	6	5	6	9	10	10	9	7	7	9	4	10	
06	7	7	8	6	6	5	4	8	9	7	7	8	9	8	9	8	5	7	7	6	6	9	8	7	4	9	
07	6	4	10	13	9	3	4	6	7	8	8	9	10	10	8	8	12	11	7	10	12	11	10	8	3	13	
08	11	14	14	10	8	10	8	6	6	6	0P	5	10	12	9	10	12	9	8	8	8	8	4	4	0	14	
09	6	6	8	8	9	10	9	6	6	7	8	8	10	10	9	8	9	10	10	9	7	7	10	11	6	11	
10	10	6	6	6	5	6	6	5	4	6	7	7	6	9	10	8	8	4	4	6	6	7	9	10	4	10	
11	7	4	8	7	3	6	7	4	5	8	9	6	10	12	7	6	10	11	8	6	5	6	7	8	3	12	
12	8	7	7	7	7	6	5	4	6	9	11	9	7	11	10	7	8	7	10	13	10	8	8	7	4	13	
13	9	7	3	6	8	7	8	6	5	7	8	10	13	10	17	6	8	7	5	9	7	4	6	8	3	17	
14	7	5	6	8	6	5	6	9	6	0P	4	3	8	0P	11	9	7	8	7	8	10	8	5	6	0	11	
15	7	7	10	10	10	10	9	9	10	11	11	10	6	4	6	7	9	9	9	9	9	10	9	4	5	4	11
16	7	6	6	10	10	9	9	9	7	7	6	11	9	6	7	6	9	9	9	8	8	6	3	3	3	11	
17	5	8	7	5	5	5	6	9	7	6	6	10	8	5	6	3	1	4	5	6	5	4	3	5	1	10	
18	4	4	7	6	5	7	8	7	6	3	3	9	8	6	7	6	7	7	7	5	5	1	5	7	1	9	
19	6	6	8	8	6	7	8	9	8	7	9	8	8	10	9	8	8	9	9	11	10	7	5	4	4	11	
20	5	6	7	8	8	9	8	9	11	9	9	8	6	6	9	10	10	10	9	9	7	5	6	7	5	11	
21	9	12	10	9	8	7	7	7	7	9	8	9	10	10	11	9	9	9	10	11	10	10	7	7	7	12	
22	10	11	14	15	15	11	8	8	8	6	3	2	2	2	0	0P	2	2	4	4	3	3	6	6	0	15	
23	6	5	6	8	7	7	6	5	10	10	13	14	13	2	13	11	12	15	9	10	12	7	6	8	2	15	
24	7	6	8	9	7	8	10	10	11	11	11	19	8	5	5	4	3	9	9	8	13	9	6	10	3	19	
25	10	8	7	8	6	9	9	10	5	2	6	9	9	9	10	11	10	10	11	10	9	4	5	8	2	11	
26	6	7	8	8	7	6	7	10	10	9	9	8	8	11	11	10	9	9	9	10	7	6	8	10	6	11	
27	10	11	11	12	8	8	8	5	7	6	6	8	9	10	10	10	5	7	7	9	8	5	5	5	5	12	
28	11	9	6	6	5	6	8	9	9	9	6	6	19	9	9	6	10	11	11	7	7	6	8	7	5	19	
29	7	7	7	5	5	3	4	6	6	5	5	18	10	7	7	10	13	14	14	8	8	3	7	8	3	18	
30	4	5	5	7	8	10	10	9	10	11	12	9	6	8	11	11	9	9	7	5	9	11	9	8	4	12	
31	8	10	10	8	8	10	6	4	8	10	10	9	9	11	10	7	7	8	10	9	7	6	6	4	4	11	

Flags: P = Power Failure - Valid Hour
 Monthly: Ave 8 Min 0 Max 177

Wind Direction (MV17)

Station/Facility: MV17
 Parameter: WD (DEG) Wind Direction
 Month/Year: Jul 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	256	251	253	253	255	251	252P	200	153	164	106	93	100	90	106	270	193	263	257	266	256	265	262	252
02	254	255	253	250	252	249	241P	138	104	111	100	105	98	176	193	185	301	230	221	235	253	292	278	262
03	264	245	249	252	264	251	252P	270	85	87	123	167	223	180	83	75	155	282	122	197	269	266	267	265
04	259	250	259	261	260	254	258P	223	222	135	95	70	81	71	81	71	65	73	61	60	199	275	267	280
05	272	267	274	266	251	252	252P	267	124	135	261	260	119	87	69	81	76	63	196	262	266	262	265	263
06	257	256	274	268	257	256	256P	233	155	75	106	72	81	70	88	72	65	69	56	192	151	204	271	266
07	274	249	250	263	232	267	232P	191	275	9979R	114D	189	136	86	74	74	74	81	66	305	238	284	217	138
08	232	243	200	263	239	269	254P	230	279	211	86	101	176	153	196	155	63	59	87	136	191	210	278	273
09	275	280	262	270	283	288	263P	145	284	194	261	162	181	134	196	68	87	68	53	258	267	259	178	259
10	264	270	271	266	263	249	248P	267	235	157	84	68	118	96	119	214	280	285	182	262	258	275	143	274
11	254	210	287	279	279	271	273P	274	287	265	194	71	75	80	74	87	130	76	107	88	128	141	129	219
12	254	242	274	258	268	271	271P	277	160	177	167	203	157	100	74	65	60	61	154	261	268	262	244	255
13	255	269	258	278	267	268	242P	268	268	235	186	73	75	93	158	118	95	179	254	232	279	270	276	263
14	258	256	231	264	257	254	256P	253	256	261P	250	94	87	66P	71	67	67	60	85	303	277	269	270	262
15	213	221	250	245	260	256	258P	279	267	184	95	90	77	71	70	73	68	60	97	293	267	253	254	253
16	254	246	256	257	224	244	259P	266	164	93	82	77	67	75	80	77	70	66	111	214	140	212	201	290
17	260	280	291	276	265	241	257P	176	98	114	109	184	83	74	80	137	76	66	66	72	200	98	104	261
18	164	153	77	57	104	151	144P	178	81	154	202	69	75	74	69	73	69	80	64	153	167	294	284	274
19	262	258	273	265	281	285	278P	262	89	81	83	64	77	76	71	67	63	59	57	110	296	275	265	265
20	260	261	263	263	272	268	262P	160	116	113	82	88	106	107	79	109	66	98	128	229	272	268	273	269
21	268	266	264	260	258	260	260P	262	202	116	70	89	75	72	69	74	65	71	66	294	283	278	261	216
22	269	259	220	245	254	268	278P	268	238	240	96	104	67	80	0	9978P	100	115	150	226	227	210	186	199
23	258	237	223	234	232	232	236P	182	168	123	115	112	106	100	111	85	103	110	82	83	92	152	175	171
24	220	231	243	252	245	255	254P	233	157	138	91	80	81	77	91	83	78	77	80	202	224	226	198	232
25	256	255	249	249	224	247	245P	188	119	71	79	81	67	73	72	69	65	69	85	130	282	261	264	269
26	263	265	264	234	273	270	270P	256	144	77	222	95	94	83	73	72	73	77	72	50	105	150	241	183
27	235	215	239	272	265	263	264P	215	239	246	164	82	103	83	64	77	75	62	75	144	71	246	278	182
28	266	268	279	273	249	257	259P	258	285	239	147	74	75	84	67	64	65	66	60	88	234	291	211	120
29	60	73	240	310	308	272	276P	264	169	161	115	102	84	71	67	64	67	70	57	135	81	166	226	277
30	269	275	268	271	263	241	256P	278	228	208	84	66	138	108	83	113	72	207	281	275	225	231	102	90
31	192	264	277	230	237	276	272P	269	188	74	85	74	76	70	88	70	63	148	178	175	188	259	278	

Flags: Monthly Ave: 183
 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)

Wind Speed (MV17)

Station/Facility: MV17
 Parameter: WS (MPH) Wind Speed
 Month/Year: Jul 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	3.9	4.0	4.0	3.7	4.3	4.0	4.3P	1.5	2.0	2.0	3.3	6.6	7.2	5.1	2.4	2.4	2.8	3.8	3.7	4.1	4.0	4.1	3.5	1.7	1.5	7.2
02	3.3	3.7	3.8	3.4	3.6	3.5	2.9P	2.2	5.0	5.0	4.0	8.0	4.7	2.9	2.5	2.4	1.6	2.3	2.2	3.7	3.7	3.7	3.6	3.1	1.6	8.0
03	3.3	3.8	4.4	3.9	3.6	2.5	2.9P	1.3	2.0	2.7	2.9	1.9	2.0	2.3	3.8	3.4	2.4	1.9	2.6	3.4	4.4	3.7	3.7	3.3	1.3	4.4
04	2.9	3.0	3.2	2.8	2.7	2.9	3.0P	2.1	1.8	3.0	3.0	3.9	4.0	4.7	4.7	4.9	4.2	3.9	4.2	3.4	1.8	2.3	2.1	2.2	1.8	4.9
05	1.7	1.7	1.7	1.8	2.4	2.7	2.6P	2.4	3.8	3.7	3.2	3.3	4.6	4.3	4.9	4.7	4.1	3.8	3.0	1.1	1.5	1.7	3.0	2.4	1.1	4.9
06	2.0	1.8	1.8	2.1	2.5	3.1	3.0P	1.5	4.2	4.7	4.8	4.7	4.8	5.2	5.2	4.9	4.2	3.7	3.2	1.9	2.1	2.1	3.3	2.4	1.5	5.2
07	3.4	2.2	2.4	2.4	2.2	2.0	3.1P	2.4	2.8	9979d	5.3D	3.5	4.6	4.2	3.7	4.1	4.6	2.9	2.7	1.4	1.8	1.7	1.8	2.1	1.4	5.3
08	2.0	2.2	2.4	1.8	2.1	1.4	1.7P	3.6	3.3	3.4	3.7	2.6	4.2	4.0	3.1	3.8	4.3	4.5	3.4	3.0	2.7	3.0	3.5	2.3	1.4	4.5
09	2.4	2.7	2.0	2.1	1.8	2.4	2.5P	2.3	2.6	3.6	2.4	3.9	3.6	3.4	3.5	4.1	4.7	3.7	3.0	1.6	1.9	2.6	2.7	2.7	1.6	4.7
10	3.3	2.8	2.8	3.2	2.6	3.2	3.5P	4.2	2.8	2.8	3.6	3.9	5.6	5.3	2.7	2.7	2.7	1.9	1.6	2.4	1.7	2.3	2.1	2.3	1.6	5.6
11	2.9	1.4	1.4	2.7	3.0	3.7	3.0P	3.1	2.4	2.4	1.9	4.6	4.4	5.3	5.6	5.8	2.5	2.4	2.2	1.9	1.4	1.5	1.9	2.4	1.4	5.8
12	3.5	3.5	2.7	2.5	2.3	3.0	3.2P	2.1	2.2	3.2	2.6	3.2	2.2	3.9	3.5	4.3	4.4	3.2	2.3	2.8	2.1	2.3	2.2	2.1	2.1	4.4
13	1.9	1.9	2.2	1.7	1.1	2.3	2.1P	3.2	1.9	2.1	2.7	4.1	4.2	2.8	2.1	2.8	3.7	2.3	1.2	2.0	1.7	1.9	2.4	3.3	1.1	4.2
14	2.3	1.7	1.8	2.6	3.2	3.3	3.4P	3.3	3.1	2.8P	4.6	3.2	3.3	4.7P	5.0	4.8	4.3	3.9	2.3	1.2	1.4	2.6	3.3	3.0	1.2	5.0
15	2.8	1.4	3.6	4.2	5.1	4.6	4.4P	2.6	3.2	3.9	3.6	4.3	4.9	5.4	5.8	5.2	4.4	3.2	1.9	1.0	1.6	3.0	4.1	4.1	1.0	5.8
16	3.6	3.1	3.4	4.8	2.6	3.1	4.6P	3.9	3.2	4.9	4.2	5.0	5.0	4.7	5.6	5.3	4.2	3.9	2.3	1.5	2.1	2.0	1.8	2.4	1.5	5.6
17	1.8	1.5	1.8	1.7	3.2	3.0	2.3P	2.3	3.2	4.1	3.8	4.2	3.4	4.0	4.4	4.0	3.3	4.2	4.1	2.9	2.4	1.6	1.6	1.3	1.3	4.4
18	2.0	2.1	2.7	3.2	1.4	1.8	2.1P	2.1	2.4	3.5	2.0	3.7	4.0	3.8	4.0	3.8	3.7	2.6	2.4	1.6	1.5	1.7	2.0	2.2	1.4	4.0
19	2.2	3.0	2.2	1.9	1.5	1.1	1.5P	2.4	3.2	4.1	4.3	4.6	5.1	4.5	4.1	4.2	4.0	4.7	3.3	2.4	1.3	1.3	1.4	1.5	1.1	5.1
20	1.6	1.7	2.2	2.3	2.4	1.6	1.6P	5.2	5.8	5.7	6.9	6.1	6.6	6.4	6.4	6.8	5.9	5.4	4.2	2.3	1.4	1.6	2.4	2.8	1.4	6.9
21	2.5	2.1	2.2	1.7	3.1	3.1	3.2P	1.4	3.5	4.0	4.1	4.7	4.2	5.0	4.7	4.3	4.0	3.6	2.6	1.0	1.1	1.3	1.7	2.0	1.0	5.0
22	1.3	1.5	2.3	1.5	1.5	0.7	1.4P	2.1	2.8	3.2	3.2	4.3	4.4	5.7	0.0	9978p	6.7	4.6	3.7	4.0	3.0	2.5	2.2	2.4	0.0	6.7
23	2.9	1.9	3.5	2.6	2.6	9978p	2.1P	3.0	4.0	6.1	6.9	6.6	6.9	6.2	7.8	6.4	6.1	4.8	3.4	2.7	1.1	1.4	1.6	1.8	1.1	7.8
24	1.8	1.7	2.1	3.0	3.1	3.3	3.1P	2.6	2.6	3.0	4.9	4.9	4.6	4.5	5.5	4.5	4.1	3.4	2.3	0.6	1.9	1.7	1.7	2.3	0.6	5.5
25	2.6	2.6	2.6	2.1	1.6	1.0	1.6P	1.0	2.0	2.9	3.7	4.5	5.2	4.5	5.4	4.2	4.6	3.3	2.3	1.8	1.5	1.9	2.2	2.5	1.0	5.4
26	3.1	3.8	3.5	2.8	1.6	1.9	2.7P	2.1	3.1	3.2	2.7	3.9	4.7	4.0	4.4	4.4	4.2	3.5	3.7	2.5	2.0	2.7	1.9	1.4	1.4	4.7
27	2.1	2.5	2.7	1.6	2.1	2.0	2.2P	2.5	2.2	3.7	4.8	5.4	5.0	5.0	5.2	4.2	4.5	3.9	2.7	2.3	2.3	2.1	1.2	2.1	1.2	5.4
28	2.6	2.1	1.9	2.1	2.0	2.0	1.8P	1.8	2.8	2.8	3.8	4.0	4.8	5.6	5.0	4.8	4.3	4.3	3.5	2.4	1.0	1.6	2.0	2.2	1.0	5.6
29	2.6	2.1	0.8	2.0	1.5	1.1	1.3P	1.6	1.9	3.4	2.7	4.3	4.7	5.1	5.5	4.9	4.1	3.5	3.1	2.5	3.7	3.2	3.0	3.3	0.8	5.5
30	2.5	2.3	2.2	2.3	2.6	2.6	2.6P	1.9	2.3	2.7	3.4	3.4	3.7	3.6	4.2	3.9	4.3	1.7	1.6	2.3	2.1	1.7	2.7	2.7	1.6	4.3
31	2.1	1.8	1.5	1.6	1.4	1.9	2.8P	2.8	1.9	3.6	3.7	4.2	4.2	4.5	4.5	4.6	3.9	2.1	1.8	1.3	1.9	1.9	1.9	1.9	1.3	4.6

Flags:

- 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: 3.1 Ave 0.0 Min 8.0 Max

Monthly Matrix SO2 (PE10)

Station/Facility: PE10
 Parameter: SO2 (PPB) Sulfur Dioxide
 Month/Year: Jul 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	1	0	0	0	0	0	0P	9985c	1C	9985c	1	9985c	9985c	0P	0	0	0	0	0	0	0	0	0	0	0	1	
02	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
03	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
04	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
05	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
06	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
07	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
08	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
09	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
10	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
11	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
12	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
13	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
14	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
15	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
16	0	1	0	0	0	0	0	0P	9985c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	
17	0	1	0	0	0	0	0	0P	9985c	1	0	0	0	0	0	0	0	0	0	0	1	0P	0	0	0	0	1	
18	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	
19	791	498	3	2P	1	1	1	1P	9985c	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	791	
20	1	1	1	1	1	1	1	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	1	1	
21	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	
22	0	1	1	1	1	1	1	1P	9985c	1	0	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	
23	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9985c	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9978p	
24	0	0	0	0	0	0	0	0P	9985c	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1	
25	1	1	0	0	0	0	0	0P	9985c	1	1	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	1	
26	0	1	0	1	0	0	0	0P	9985c	1	0	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	
27	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	
28	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	
29	0	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	
30	0	0	0	0	0	0	1	0	9978p	1P	1C	9978p	1C	1	1	0	0	0	0	0	0	0	0	0	0	0	0	1
31	0	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	

Flags: Monthly: Ave 5 Min Max
 b = Bad Condition - Invalid Hour (9980)
 C = Calibration - Valid Hour
 c = Calibration Auto- Invalid Hour (9985)
 P = Power Failure - Valid Hour
 p = Power Failure - Invalid Hour (9978)

Wind Direction (PE10)

Station/Facility: PE10
 Parameter: WD (DEG) Wind Direction
 Month/Year: Jul 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	189	250	266	263	267	254	253	196P	165	127	127	123	122	111	114P	115	121	112	104	104	281	218	275	262
02	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
03	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
04	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
05	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
06	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
07	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
08	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
09	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
10	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
11	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
12	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
13	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
14	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
15	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
16	189	299	289	264	267	269	292	265P	119	92	95	92	92	90	86	86	81	83	85	114	213	145	259	256
17	250	281	303	288	313	281	297	267P	187	143	133	94	81	94	123	81	86	104	107	138	105	107P	199	88
18	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
19	283	227	291	182P	245	266	305	296P	122	106	100	87	82	84	82	83	99	90	80	108	166	254	307	295
20	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p
21	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p
22	311	306	314	309	311	310	312	311P	307	271	217	155	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p
23	9978p	9978p	9978p	9978p	9978p	9978p	9978p	140P	145	138	145	144	136	144	139	126	113	104	89	82	87	238	249	253
24	209	252	249	252	257	276	268	260P	160	110	119	117	104	105	110	99	105	95	87	282	120	97	76	83
25	111	165	103	73	80	94	99	93P	93	90	90	95	93	103	96	97	81	109	133	195	299	290	311	317
26	314	238	289	320	321	312	262	282P	150	245	135	107	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p
27	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p
28	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p
29	83	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p
30	315	309	297	296	302	304	312	300	9978p	219P	90	93P	96	105	104	130	254	308	289	241	221	205	79	78
31	82	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	296P	268P	168	118	144	120	118	134	87	142					

Flags: Monthly Ave: 177
 b = Bad Condition - Invalid Hour (9980)
 P = Power Failure - Valid Hour
 p = Power Failure - Invalid Hour (9978)

Wind Speed (PE10)

Station/Facility: PE10
 Parameter: WS (MPH) Wind Speed
 Month/Year: Jul 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	0.7	0.5	0.3	0.3	0.3	0.3	0.3	0.8P	1.7	2.4	4.7	4.5	4.8	4.5	4.6P	4.8	4.2	3.3	1.8	0.8	0.9	1.5	1.7	1.3	0.3	4.8
02	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
03	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
04	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
05	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
06	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
07	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
08	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
09	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
10	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
11	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
12	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
13	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
14	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
15	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
16	0.7	2.1	2.5	1.6	1.9	1.8	0.6	1.1P	1.9	3.7	4.2	4.2	4.8	5.2	5.4	5.2	4.7	3.9	3.4	3.0	2.0	3.3	2.1	1.9	0.6	5.4
17	1.4	1.7	3.3	2.7	4.4	4.3	5.0	4.4P	4.2	5.2	5.3	5.1	5.8	4.5	4.4	4.6	4.6	4.7	4.5	4.1	2.9	2.6P	1.7	2.6	1.4	5.8
18	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b	9980b
19	1.8	1.5	2.4	2.3P	1.4	2.1	3.0	3.3P	3.9	5.0	5.0	5.4	4.7	4.8	5.4	4.9	5.3	4.8	4.3	3.5	2.8	2.8	5.5	5.6	1.4	5.6
20	5.0	6.0	6.5	6.7	4.6	3.6	3.3	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	6.7
21	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	6.7
22	6.6	7.0	6.7	7.1	6.0	6.9	7.0	6.6P	6.7	3.4	3.6	4.4	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	5.6
23	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	7.1
24	0.3	0.3	0.3	0.4	0.4	0.3	0.3	0.7P	2.1	3.6	4.5	4.0	4.3	4.1	4.3	3.9	3.8	2.8	1.3	0.3	0.8	0.9	1.2	1.1	0.3	4.5
25	0.6	0.4	1.5	1.2	0.9	0.7	1.0	1.2P	3.0	3.5	4.3	3.9	4.9	5.5	4.2	4.7	4.9	3.9	3.5	2.6	3.3	3.4	4.7	4.2	0.4	5.5
26	4.5	2.7	2.7	3.1	3.0	2.7	2.9	3.7P	3.2	3.9	4.5	4.3	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	4.5
27	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	4.5
28	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	5.4
29	2.4	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	6.0
30	4.0	4.0	3.4	3.7	3.9	4.0	4.2	3.7	9978p	4.5P	4.9	5.4P	5.3	5.8	5.7	5.6	5.0	3.9	2.4	2.5	2.1	3.4	2.9	2.1	5.8	5.8
31	3.3	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	5.1P	4.3P	4.5	4.8	4.1	5.2	4.8	3.8	3.4	3.1							5.2

Flags: Monthly: 3.5 Ave 0.3 Min 7.1 Max

b = Bad Condition - Invalid Hour (9980)
 P = Power Failure - Invalid Hour
 p = Power Failure - Invalid Hour (9978)