

# Monthly Matrix PM2.5 (HL11)

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

Day	HOUR BEGINNING (Local Standard Time)																								Min	Max	
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23			
01	1	3	5	3	3	3	2	5	5	2	4	5	1	1	4	5	5	3	4	6	4	1	2	4	1	6	
02	4	2	1	-1	2	4	2	2	1	1	2	4	4	3	3	5	5	5	3	4	6	5	2	-1	0	-1	6
03	1	2	4	3	1	4	6	4	-2	-5	0	3	5	2	2	7	7	7	7	6	5	5	4	3	-5	7	
04	1	-2	-2	1	9979	9979	9979	2	0	0	3	3	2	2	2	4	4	4	1	1	4	4	4	2	-2	4	
05	2	3	4	7	5	2	3	5	5	3	3	3	2	4	7	5	3	3	4	2	2	0	-1	-2	-2	7	
06	-2	-2	1	3	1	2	3	4	6	7	5	3	3	2	1	4	6	4	5	6	4	5	7	5	-2	7	
07	5	5	5	3	1	3	5	3	3	1	0	2	4	4	2	3	3	3	3	5	5	6	2	4	0	6	
08	2	6	6	3	5	4	1	1	2	2	2	4	4	2	4	5	5	4	6	6	4	5	3	3	1	6	
09	4	3	3	3	4	2	2	2	2	2	3	4	4	5	6	4	4	2	-1	1	1	0	3	2	-1	6	
10	3	3	1	3	5	6	7	4	1	2	1	3	0	1	3	2	1	-1	2	4	1	2	3	3	-1	7	
11	6	8	8	6	7	59	85	45	22	19	13	26	36	38	16	16	9	18	15	14	14	14	13	17	6	85	
12	10	18	21	15	14	13	17	19	14	19	27	9	34	10	0	2	4	4	1	4	4	2	1	4	0	34	
13	5	2	2	1	-1	2	4	2	-1	1	3	3	0	0	1	-1	2	6	6	0	-1	2	2	2	-1	6	
14	1	1	2	2	1	2	3	8	12	9	4	3	5	4	3	5	8	6	3	5	7	5	6	3	1	12	
15	2	5	7	7	4	5	6	5	3	7	6	2	5	4	2	6	5	1	3	4	4	4	4	3	1	7	
16	1	2	3	2	1	0	-1	-1	0	-1	1	4	2	1	0	1	2	2	4	3	3	2	1	3	-1	4	
17	3	0	-1	-1	2	3	4	3	4	2	1	1	0	3	4	7	5	2	1	0	3	4	3	1	-1	7	
18	2	2	-1	1	4	3	4	4	3	3	3	3	3	5	5	4	5	7	5	2	2	3	4	2	-1	7	
19	1	2	2	1	5	5	2	4	3	0	3	9	7	4	6	7	7	6	7	7	7	5	2	4	0	9	
20	3	3	6	6	4	4	4	4	5	5	5	7	6	3	6	4	2	4	3	3	3	5	4	3	2	7	
21	4	2	1	1	3	4	4	4	3	1	3	4	3	4	4	5	3	2	4	5	4	4	4	3	1	5	
22	1	-1	1	3	2	3	4	4	2	1	2	5	3	0	2	4	7	9	4	1	0	1	-3	-1	-3	9	
23	1	1	3	1	2	5	4	4	4	3	2	0	8	9	5	6	5	5	8	6	4	4	4	4	0	9	
24	4	1	0	4	3	2	3	3	4	5	5	6	5	5	6	6	8	9	7	5	5	4	5	7	0	9	
25	3	3	2	1	4	5	3	2	5	5	2	1	3	6	2	-1	2	2	4	5	1	-1	1	3	-1	6	
26	7	5	1	0	1	1	1	3	4	5	5	5	4	4	6	5	4	6	7	9979	9979	9979	9979	9979	0	7	
27	9979	9979	9979	9979	9979	9979	9979	3	4	5	7	7	5	5	4	5	3	1	4	3	2	3	3	3	1	7	
28	4	3	3	5	4	2	2	1	1	1	0	1	4	7	6	5	5	4	4	5	6	6	3	1	0	7	
29	9979	9979	9979	9979	9979	9979	9979	2	1	2	2	0	2	6	4	1	3	6	6	4	3	3	4	4	0	6	
30	3	1	3	4	3	2	3	4	2	3	4	8	8	3	3	6	5	4	5	6	6	7	6	4	1	8	
31																											

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

Monthly: Ave 4 Min -5 Max 85

# Monthly Matrix SO2 (HL11)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

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

		HOUR BEGINNING (Local Standard Time)																								26	2	915
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	2	2	CAL	9995	CAL	9995	9995	4	3	2	2	2	2	2	2	5
02	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	3	2	2	2	2	2	2	2	2	2	6
03	2	2	2	2	2	2	2	2	2	2	2	2	9995	3	CAL	9995	CAL	2	2	2	2	2	2	2	2	2	2	3
04	2	2	2	2	9979	9979	9979	2	2	2	2	2	2	2	CAL	9995	CAL	2	2	2	2	2	2	2	2	2	2	4
05	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	2	2	2	2	2	2	2	2	2	2	3
06	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	3	2	2	2	2	2	2	2	2	2	6
07	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	3	2	2	2	2	2	2	2	2	2	5
08	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	3	2	2	2	2	2	2	2	2	2	5
09	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	3	2	2	2	2	2	2	2	2	2	5
10	2	2	2	2	2	2	2	2	2	2	2	2	9995	CAL	CAL	9995	CAL	3	2	2	2	2	2	2	2	2	2	5
11	2	2	2	3	88	95	47	21	19	26	85	84	60	34	CAL	9995	CAL	12	8	5	4	4	4	4	4	2	95	
12	14	16	16	17	29	44	51	50	51	81	25	67	38	7	109	796	792	795	791	792	793	790	787	787	7	796		
13	889	895	897	886	880	915	888	853	234	5	5	4	3	3	CAL	9995	CAL	3	3	2	2	2	2	2	2	2	915	
14	4	3	4	4	4	10	18	12	9	4	3	3	2	2	CAL	9995	CAL	3	3	2	2	2	2	2	2	2	18	
15	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	4	3	2	2	2	2	2	2	2	7	
16	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	4	3	2	2	2	2	2	2	2	6	
17	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	4	3	2	2	2	2	2	2	2	6	
18	2	2	2	2	2	2	2	2	2	2	2	2	2	3	CAL	9995	CAL	3	3	2	2	2	2	2	2	2	6	
19	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	3	3	2	2	2	2	2	2	2	6	
20	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	3	3	2	2	2	2	2	2	2	6	
21	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	3	3	2	2	2	2	2	2	2	6	
22	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	3	2	2	2	2	2	2	2	2	5	
23	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	3	2	2	2	2	2	2	2	2	6	
24	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	3	2	2	2	2	2	2	2	2	2	5	
25	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	3	2	2	2	2	2	2	2	2	6	
26	2	2	2	2	2	2	2	2	2	2	2	2	2	3	CAL	9995	CAL	4	3	2	2	2	2	2	2	2	7	
27	9979	9979	9979	9979	9979	9979	9979	2	2	2	2	2	2	2	CAL	9995	CAL	3	3	2	9979	9979	9979	9979	2	2	6	
28	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	3	2	2	2	2	2	2	2	2	6	
29	9979	9979	9979	9979	9979	9979	9979	2	2	2	2	2	2	2	CAL	9995	CAL	3	2	2	2	2	2	2	2	2	6	
30	2	2	2	2	2	2	2	2	2	2	2	2	2	2	CAL	9995	CAL	3	2	2	2	2	2	2	2	2	5	
31																												

Flags:

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

Monthly: Ave 26 Min 2 Max 915

# Wind Direction (HL11)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: HL11  
Parameter: WD (DEG) Wind Direction  
Month/Year: Nov 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	262	260	262	290	275	268	259	260	100	68	334	66	64	51	42	48	50	26	269	268	266	260	257	263
02	260	258	257	257	260	258	258	257	209	91	70	51	61	60	58	38	54	334	273	260	262	277	269	266
03	259	258	259	259	257	257	258	260	289	50	105	253	267	245	316	71	40	303	275	262	279	264	251	256
04	260	266	263	271	9979	9979	9979	277	336	1	42	61	56	57	53	53	37	333	281	271	273	260	272	267
05	258	268	262	262	260	258	252	273	6	278	354	343	117	271	13	75	75	243	282	279	278	269	268	272
06	265	265	269	271	280	268	252	267	276	263	255	74	78	230	29	56	28	274	263	262	261	260	261	266
07	267	269	261	254	241	233	251	266	139	77	71	67	49	69	51	48	48	333	264	267	261	250	260	269
08	249	257	266	267	207	260	264	270	192	116	85	64	66	56	57	59	46	71	258	264	265	261	258	257
09	257	258	258	257	270	269	283	265	259	285	329	52	67	72	25	56	39	117	259	276	252	267	219	305
10	264	247	259	292	344	19	257	242	274	45	47	72	69	68	77	112	13	293	267	247	253	260	261	264
11	261	260	264	260	260	256	259	260	244	89	82	81	48	42	95	114	265	272	265	258	257	258	261	258
12	279	270	262	258	254	259	259	256	263	230	158	134	110	146	245	242	269	266	8	21	354	335	320	294
13	278	308	294	315	44	59	285	283	276	272	287	304	173	213	251	253	242	252	247	243	253	217	228	246
14	259	263	253	255	234	264	261	350	7	331	48	9	254	225	210	241	260	265	263	264	238	254	261	269
15	268	277	273	264	241	263	275	260	259	281	272	264	277	284	264	342	69	267	194	258	260	265	261	268
16	258	271	265	268	278	289	266	263	267	264	276	15	212	273	280	264	274	275	281	273	294	276	274	276
17	255	283	269	278	273	291	358	296	294	313	328	312	24	42	58	68	47	357	293	274	288	297	272	285
18	263	283	332	272	246	278	271	290	272	282	35	52	270	353	352	359	305	272	273	253	268	266	267	260
19	260	271	288	257	268	278	291	250	268	343	335	338	45	51	36	11	359	293	282	294	273	272	285	255
20	266	260	255	262	258	270	243	262	275	3	315	280	5	351	271	299	270	266	271	264	276	269	274	259
21	259	264	264	270	269	265	255	271	269	268	270	14	28	25	39	356	3	278	267	261	261	261	262	265
22	264	248	257	279	273	265	257	260	250	86	224	289	322	65	60	52	67	249	269	272	257	260	275	272
23	266	265	268	263	272	275	271	272	276	283	72	68	76	61	62	53	35	307	267	266	262	262	265	265
24	263	258	258	259	257	268	261	258	272	27	62	53	54	55	57	60	31	315	276	276	267	258	257	261
25	257	259	259	261	267	280	263	263	266	106	114	78	228	50	303	118	312	163	66	20	271	261	285	277
26	276	278	269	261	269	263	264	267	264	274	62	281	303	347	28	55	325	301	272	301	9979	9979	9979	9979
27	9979	9979	9979	9979	9979	9979	9979	265	273	246	270	238	256	340	291	284	274	292	264	41	58	12	270	270
28	277	270	269	261	270	276	264	271	263	269	287	43	65	53	48	53	2	313	292	291	284	300	280	288
29	9979	9979	9979	9979	9979	9979	9979	280	210	168	357	355	344	16	34	25	358	345	19	266	281	271	242	354
30	355	315	265	275	274	280	272	273	276	15	53	43	24	41	10	5	270	282	279	286	282	284	287	278
31																								

Flags:

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

Monthly Ave: 222

# Wind Speed (HL11)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: HL11  
Parameter: WS (MPH) Wind Speed  
Month/Year: Nov 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	2.9	2.6	2.7	4.7	3.6	2.9	2.8	2.3	2.5	2.9	4.2	4.3	4.5	3.6	3.4	3.0	2.6	2.2	1.9	2.7	3.0	3.7	4.0	3.6	1.9	4.7	
02	3.6	4.0	3.8	4.1	3.7	3.9	4.0	3.3	2.0	3.1	4.0	4.3	4.5	4.5	4.8	3.9	3.4	1.7	1.8	2.7	2.1	2.7	2.4	2.8	1.7	4.8	
03	2.9	2.8	2.8	3.2	3.8	3.9	3.9	3.1	2.0	3.0	3.3	3.6	3.7	1.9	2.4	3.9	3.1	2.4	3.4	3.2	4.9	3.9	2.9	3.5	1.9	4.9	
04	3.1	3.2	3.1	4.0	9979	9979	9979	4.3	3.0	4.3	4.6	5.0	5.8	5.9	5.1	4.5	2.6	2.2	2.8	2.8	2.9	3.6	4.0	2.8	2.2	5.9	
05	2.7	2.9	2.7	2.1	2.8	3.5	2.6	2.4	1.1	4.5	2.5	3.3	1.8	2.1	2.4	3.3	3.3	2.0	1.9	3.3	1.5	2.2	2.5	3.0	1.1	4.5	
06	2.5	2.3	2.2	3.3	2.3	2.9	2.7	2.4	3.0	3.1	3.2	4.0	4.8	2.1	2.3	2.4	1.8	1.6	2.0	2.3	2.5	2.8	2.2	3.1	1.6	4.8	
07	3.6	3.8	3.9	3.6	3.2	2.8	3.1	1.6	1.2	3.2	4.1	3.0	3.5	4.1	3.5	3.4	2.3	1.4	1.8	1.8	1.7	2.2	3.1	2.5	1.2	4.1	
08	2.2	2.6	2.5	2.3	2.4	3.0	2.7	2.8	1.7	2.9	3.5	3.6	4.1	3.6	3.6	3.9	2.4	1.4	1.9	1.9	2.4	2.4	3.0	3.5	1.4	4.1	
09	3.5	3.7	3.6	3.3	1.9	2.0	5.3	2.9	4.0	3.1	3.5	3.1	4.5	3.7	2.0	2.6	1.3	1.1	1.7	2.4	1.3	1.2	1.6	1.8	1.1	5.3	
10	2.2	1.7	1.9	1.4	1.8	2.5	2.6	2.4	2.6	2.3	3.2	3.4	4.7	5.7	4.5	2.6	1.4	1.8	2.2	1.7	1.5	1.9	2.3	2.2	1.4	5.7	
11	1.9	2.6	2.7	2.3	2.8	2.5	2.6	2.3	1.5	2.3	2.8	2.8	4.2	3.9	3.3	2.5	2.4	2.5	1.3	1.7	1.9	2.1	2.6	2.7	1.3	4.2	
12	2.2	1.7	1.7	2.0	2.1	2.9	3.1	2.8	1.8	2.7	3.2	4.8	5.7	4.4	2.7	3.7	4.8	2.3	2.6	3.5	3.6	4.0	7.2	5.9	1.7	7.2	
13	3.2	1.8	5.4	5.7	3.8	5.4	4.1	5.3	3.1	2.9	2.6	2.5	2.0	2.1	2.7	3.1	2.8	2.0	4.2	2.9	5.2	3.1	2.8	2.9	1.8	5.7	
14	3.8	3.8	3.4	2.9	2.5	2.6	2.3	1.2	3.5	4.9	2.9	3.1	2.0	2.4	2.7	2.4	1.8	2.6	3.5	3.4	2.6	3.6	2.8	3.4	1.2	4.9	
15	4.0	3.6	3.4	3.3	2.3	2.5	2.8	2.3	2.9	4.0	2.4	3.8	3.7	3.0	2.5	2.8	2.3	2.0	1.9	1.3	2.4	2.8	2.2	2.8	1.3	4.0	
16	3.3	3.0	2.4	1.8	3.0	2.1	2.0	2.6	2.2	1.7	1.5	1.9	1.8	3.3	2.9	3.3	4.6	3.9	4.5	3.3	3.8	3.7	3.5	4.0	1.5	4.6	
17	3.0	3.5	2.8	3.4	2.9	2.7	3.1	3.7	3.2	3.4	5.6	4.3	3.6	3.1	4.2	5.9	3.3	4.0	4.3	3.6	2.5	3.3	2.2	2.3	2.2	5.9	
18	2.0	1.3	2.1	4.0	2.5	3.0	2.5	4.0	4.6	4.4	3.8	5.0	4.0	3.4	3.5	2.3	3.0	2.8	3.8	2.7	3.7	3.5	3.3	3.1	1.3	5.0	
19	2.4	2.9	4.0	3.2	2.9	3.4	4.2	3.0	2.7	2.2	3.9	3.5	3.4	3.9	3.8	3.1	2.2	2.6	2.8	2.6	2.8	3.0	3.5	3.0	2.2	4.2	
20	3.6	2.9	3.0	2.6	2.9	2.4	1.9	3.6	3.1	2.4	4.2	3.3	2.7	2.3	2.1	2.7	2.8	2.0	2.3	2.3	3.4	2.9	3.2	2.4	1.9	4.2	
21	3.1	2.8	2.8	5.0	3.8	3.4	2.7	3.5	2.8	1.9	1.7	1.8	1.9	2.2	2.2	1.7	2.6	2.1	2.5	2.8	2.8	2.8	3.3	3.2	1.7	5.0	
22	2.8	3.1	3.2	4.8	3.5	2.9	3.2	3.0	1.5	2.9	3.1	3.5	2.5	4.6	3.7	2.4	2.8	2.4	3.7	3.4	3.4	3.2	4.1	3.5	1.5	4.8	
23	3.5	3.3	2.8	2.8	3.2	3.2	2.6	2.9	2.7	2.5	3.4	5.0	4.7	4.2	3.6	2.8	1.6	1.8	2.0	1.7	1.8	2.0	2.7	3.1	1.6	5.0	
24	2.9	3.1	3.2	3.3	3.6	3.2	3.5	3.1	1.9	2.1	3.9	3.9	3.4	4.0	4.3	3.5	2.7	3.0	2.1	3.2	2.4	2.6	3.3	3.0	1.9	4.3	
25	3.4	3.5	3.6	3.5	3.7	3.7	2.5	2.6	2.2	1.9	2.8	3.1	2.3	3.1	2.9	1.7	1.7	1.7	2.8	1.8	2.0	1.9	1.6	2.1	1.6	3.7	
26	3.1	4.1	3.0	2.8	3.5	3.2	3.6	3.3	2.5	1.9	3.3	3.9	4.8	4.4	2.8	3.3	3.3	2.1	2.3	2.4	9979	9979	9979	9979	1.9	4.8	
27	9979	9979	9979	9979	9979	9979	9979	2.7	2.6	3.3	3.9	2.2	2.1	4.0	4.5	4.7	3.4	2.7	1.8	1.7	2.9	2.3	2.5	2.9	1.7	4.7	
28	4.4	3.0	2.9	3.5	4.0	4.6	3.3	3.4	2.1	2.8	4.0	3.5	4.4	4.6	3.8	3.3	1.9	2.7	4.5	5.3	4.9	5.8	4.4	3.9	1.9	5.8	
29	9979	9979	9979	9979	9979	9979	9979	3.5	1.7	2.6	5.1	5.9	7.7	4.7	4.0	4.2	2.8	2.1	2.1	3.2	4.2	3.3	1.7	5.4	1.7	7.7	
30	5.0	2.3	2.5	3.0	2.7	3.6	2.7	3.1	2.1	2.9	4.1	4.4	4.3	4.1	5.3	4.2	3.9	3.6	4.9	6.3	5.7	5.2	5.4	4.1	2.1	6.3	
31																											

Flags:

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

Monthly: 3.1 Ave 1.1 Min 7.7 Max

# 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: Nov 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	13	15	20	15	15	16	14	10	11	11	11	13	12	16	16	20	16	12	10	9	9	14	11	11	9	20
02	12	10	9	15	11	17	13	19	12	12	17	7	9	12	10	16	15	14	12	9	8	14	20	18	7	20
03	12	16	17	14	15	14	13	15	14	13	14	7	7	7	14	11	12	15	14	14	17	13	16	14	7	17
04	12	15	15	14	19	19	16	11	10	17	16	21	16	17	12	21	18	21	14	13	18	23	15	17	10	23
05	15	14	15	23	13	17	18	16	13	8	6	10	11	15	4	5	16	8	9	9	9	15	21	22	4	23
06	19	14	17	18	19	14	12	12	14	13	11	10	12	12	11	10	15	9	11	11	11	12	14	13	9	19
07	18	15	15	16	14	15	13	21	20	16	12	15	16	12	12	13	23	17	17	22	17	25	19	18	12	25
08	18	19	24	20	21	24	23	20	20	24	16	14	17	18	21	23	28	18	20	12	16	13	20	24	12	28
09	21	22	14	16	16	11	9	7	8	11	17	22	18	16	20	21	20	22	19	23	22	15	16	19	7	23
10	18	12	10	10	12	12	11	12	12	11	17	11	11	14	14	11	11	12	13	12	12	11	9	11	9	18
11	8	8	12	11	11	11	15	15	15	10	8	5	3	4	3	3	1	-1	1	3	3	2	2	3	-1	15
12	3	5	7	6	8	8	7	8	6	4	5	7	8	8	8	8	8	7	6	5	4	2	1	2	1	8
13	2	2	5	6	6	2	3	6	2	1	3	2	5	9	14	16	18	12	17	15	11	12	12	10	1	18
14	9	16	10	8	8	9	8	9	8	7	10	10	10	10	12	18	17	13	15	13	11	17	12	18	7	18
15	11	16	18	17	16	17	15	13	11	14	13	12	14	15	13	13	19	18	20	12	19	15	18	16	11	20
16	16	20	20	15	18	19	20	19	15	17	17	23	20	20	19	21	15	21	14	19	18	19	21	25	14	25
17	20	19	20	16	17	15	15	16	14	20	15	15	13	10	7	15	19	19	22	15	17	18	21	23	7	23
18	23	20	18	18	22	17	15	13	12	12	16	15	14	8	10	13	15	13	18	17	13	17	19	15	8	23
19	20	20	19	20	23	21	21	19	17	20	22	22	21	20	13	20	24	21	21	21	21	23	24	19	13	24
20	18	20	16	16	11	12	12	11	15	14	15	16	15	16	16	19	16	21	20	18	19	15	20	16	11	21
21	15	12	16	12	12	12	10	11	9	16	17	15	10	20	13	18	20	22	24	22	26	22	15	12	9	26
22	12	11	12	15	10	11	12	10	9	11	21	23	19	19	18	20	20	19	18	16	22	15	17	13	9	23
23	14	15	18	18	15	14	11	11	15	17	20	18	20	20	23	25	28	29	29	29	32	29	30	25	11	32
24	15	17	14	12	14	8	11	12	12	18	19	20	18	14	18	19	17	15	19	20	17	18	22	18	8	22
25	19	14	11	10	8	5	7	11	11	17	16	14	13	13	17	17	19	16	17	15	20	19	21	5	21	21
26	17	14	15	17	15	17	18	16	20	13	15	15	13	13	17	20	19	18	17	24	23	28	30	22	13	30
27	19	22	22	21	23	17	20	14	18	13	22	21	20	19	17	17	18	15	18	10	16	17	21	18	10	23
28	18	18	17	16	19	19	14	16	14	14	15	12	12	15	16	20	17	16	13	15	17	19	20	20	12	20
29	22	19	16	15	14	12	12	13	14	13	12	14	9	16	18	22	20	24	20	21	24	34	25	28	9	34
30	19	22	17	16	12	10	15	16	18	21	19	19	19	15	16	16	15	16	15	11	12	13	15	15	10	22

Flags:  
None

Monthly: 15 Ave -1 34 Min Max

# Monthly Matrix SO2 (KN12)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

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

Day	HOUR BEGINNING (Local Standard Time)																								Min	Max
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
01	1	1	1	1	1	0	0	1	1	9995	4	4	4	6	6	6	CAL	9995	CAL	3	1	0	0	0	0	6
02	1	0	0	0	0	1	1	3	4	3	3	3	5	5	5	3	3	3	2	1	3	3	2	1	0	5
03	1	1	1	1	2	1	1	4	4	3	3	4	9995	4	7	12	15	5	5	4	3	4	3	3	1	15
04	3	4	4	5	4	4	3	7	9	9995	8	8	7	5	3	4	3	2	2	1	0	1	1	2	0	9
05	3	4	3	3	3	4	4	3	4	5	5	8	6	1	2	3	1	0	0	0	0	2	2	2	0	8
06	1	1	1	1	1	1	1	4	5	6	7	7	7	4	3	2	2	2	2	1	0	0	0	0	7	
07	1	1	1	0	0	0	0	1	3	9995	6	4	4	6	7	7	4	2	2	1	1	1	1	1	0	7
08	1	1	1	1	1	1	0	2	2	2	2	3	3	4	5	4	3	1	1	1	1	2	2	0	5	
09	1	0	0	0	0	0	0	1	3	3	4	5	7	9	11	9	8	7	5	4	6	7	7	0	11	
10	6	5	5	7	13	13	22	23	42	38	9995	21	20	9995	9	7	6	3	3	2	2	2	1	1	42	
11	2	3	3	2	3	2	2	4	6	3	2	1	0	0	0	-1	-1	-1	-1	-1	-1	-1	0	0	-1	6
12	0	0	0	0	0	0	0	0	0	0	0	1	2	3	6	2	1	0	0	0	0	0	0	1	0	6
13	0	5	5	3	2	2	1	1	2	1	9995	5	10	16	15	15	17	15	13	10	7	7	5	6	0	17
14	5	3	2	2	2	2	1	2	5	5	6	10	10	11	11	8	8	8	4	4	5	7	6	4	1	11
15	3	4	4	3	3	2	3	3	5	6	7	9	9	7	7	7	5	5	5	4	2	1	2	1	1	9
16	3	1	2	4	2	1	1	1	8	10	9995	10	9	8	8	7	6	5	3	2	2	2	1	1	1	10
17	1	1	1	1	1	2	3	3	4	5	6	4	1	9995	10	18	13	7	3	3	6	10	10	8	1	18
18	10	7	6	4	3	4	3	3	9	11	9	8	7	7	5	5	6	6	3	3	3	3	2	3	2	11
19	3	4	3	4	4	3	3	3	9	12	9995	10	8	7	11	10	9	10	6	3	3	2	4	4	2	12
20	3	3	6	8	7	7	7	6	8	10	10	9	7	8	10	11	9	4	3	4	4	5	5	3	3	11
21	6	5	6	4	3	3	4	3	4	11	13	13	14	15	16	16	18	17	8	6	6	4	2	3	2	18
22	2	2	3	3	4	3	3	3	6	15	9995	14	13	10	8	8	6	4	4	4	3	4	6	6	2	15
23	5	6	6	6	8	8	6	6	12	17	17	16	18	24	22	33	39	31	18	25	28	25	19	17	5	39
24	13	11	9	7	7	5	6	8	18	33	31	24	14	9995	6	6	6	5	2	2	2	2	2	4	2	33
25	5	3	3	2	3	3	2	3	6	12	9995	15	33	27	28	26	29	22	17	15	10	11	10	10	2	33
26	10	12	11	9	10	13	18	17	14	12	12	11	13	12	12	11	8	8	7	15	10	11	10	2	33	
27	7	7	7	7	6	8	11	13	18	25	20	17	17	15	13	11	7	4	3	3	8	9	8	7	18	
28	3	2	1	1	1	2	2	2	6	13	9995	10	9	8	9	8	6	7	7	7	5	5	3	2	1	13
29	2	2	1	1	1	1	1	1	12	10	4	7	21	24	8	12	30	26	26	17	17	15	19	20	1	30
30	26	24	26	18	11	14	17	15	21	25	23	23	20	15	12	11	8	5	3	3	3	4	3	3	3	26
31																										

Flags: Monthly: Ave 6 -1 42  
 C = Calibration - Valid Hour  
 c = BD-Calibration Auto- Invalid Hour (9995)  
 P = Power Failure - Valid Hour

# Wind Direction (KN12)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: **KN12**  
Parameter: **WD (DEG) Wind Direction**  
Month/Year: **Nov 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	74	70	65	68	74	76	72	78	211	239	221	216	259	248	262	253	267	302	331	27	76	89	76	81	
02	91	62	81	68	72	76	78	75	299	289	288	287	284	286	283	294	294	291	12	59	69	71	81	72	
03	75	75	72	75	77	77	76	80	230	231	253	254	263	251	262	267	280	291	90	87	83	84	87	85	
04	86	84	72	83	76	75	79	83	160	206	247	246	249	267	275	304	320	319	49	91	87	87	101	107	
05	100	72	66	71	68	68	71	76	223	253	228	216	216	238	268	63	271	263	82	93	87	91	97	107	
06	96	70	81	61	57	70	78	72	199	265	265	267	265	289	317	324	314	305	48	55	37	88	79	85	
07	73	86	81	79	68	77	66	73	248	251	272	278	268	261	262	271	276	308	34	45	76	76	84	83	
08	87	81	82	86	89	81	70	69	269	256	274	266	261	267	272	303	293	302	312	356	12	64	72	71	
09	69	74	74	71	74	74	72	72	151	225	259	251	263	288	304	283	227	233	76	86	89	64	47	58	
10	49	64	63	67	82	86	86	86	145	171	215	218	235	239	258	286	291	342	23	84	97	85	80	84	
11	85	79	79	65	66	57	62	79	318	293	256	267	260	267	264	267	265	317	84	87	87	86	90	78	
12	88	80	78	75	72	61	73	71	27	311	269	252	275	6	330	28	89	70	46	60	61	70	72	69	
13	77	127	78	71	72	60	47	56	1	135	155	159	178	183	219	263	320	349	27	63	66	73	85	93	
14	80	81	65	70	60	70	81	93	155	208	199	196	210	225	238	290	316	346	348	90	116	117	98	89	
15	83	79	70	79	75	83	76	82	175	220	250	252	256	242	246	201	203	166	139	138	75	76	86	84	
16	77	90	100	104	88	93	58	73	180	275	256	268	279	281	266	251	246	238	66	78	82	96	95	89	
17	86	73	71	74	82	83	84	86	161	233	248	261	229	228	202	197	195	99	102	94	106	110	86	112	
18	84	82	79	76	83	77	86	85	129	243	224	265	267	256	270	241	212	114	83	88	86	93	85	77	
19	78	76	78	78	81	66	58	71	193	216	250	264	240	243	258	268	292	323	71	89	78	87	84	75	
20	72	73	74	70	71	73	73	72	124	253	259	248	238	260	264	275	300	317	73	89	87	83	85	84	
21	78	70	73	75	76	74	76	77	74	353	256	248	259	266	267	259	279	347	82	86	81	75	71	68	
22	76	76	72	67	75	76	81	81	132	280	274	265	284	298	300	292	297	344	69	68	77	69	74	75	
23	70	67	72	75	74	70	78	77	120	264	258	272	272	267	262	271	269	325	60	72	68	72	67	70	
24	70	71	72	84	79	79	83	92	140	193	225	225	252	268	252	252	276	233	90	90	78	86	82	70	
25	70	74	76	74	77	65	92	83	150	199	220	220	226	250	243	271	255	267	72	84	74	79	78	83	
26	79	73	75	76	83	98	110	112	168	195	231	257	249	259	322	262	239	102	81	67	76	70	72	78	
27	78	79	80	78	80	74	70	72	248	234	248	228	216	194	216	219	253	247	202	136	137	117	105	103	
28	107	88	74	78	84	79	81	83	141	245	256	260	266	269	271	258	233	197	139	91	95	91	76	74	
29	62	72	70	78	77	80	84	84	131	261	273	258	243	208	205	203	191	163	88	62	70	75	93	70	
30	77	101	78	84	64	94	86	82	151	191	202	211	221	227	212	216	184	155	105	87	78	70	81	87	
31																									

Flags: P = Power Failure - Valid Hour Monthly Ave: 148

# Wind Speed (KN12)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: KN12  
Parameter: WS (MPH) Wind Speed  
Month/Year: Nov 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	5.2	4.3	4.0	4.3	4.9	5.6	4.9	4.5	1.5	2.9	3.9	4.7	6.2	4.6	3.8	3.5	4.7	3.6	2.8	1.8	3.5	4.4	3.4	1.7	1.5	6.2
02	1.7	3.7	5.6	4.5	5.4	6.9	5.9	4.7	2.7	4.3	5.4	6.4	6.8	6.8	7.6	6.2	4.5	2.9	1.2	1.3	3.1	2.9	3.8	4.1	1.2	7.6
03	4.5	5.0	4.5	5.1	4.7	5.1	5.4	4.8	1.8	3.3	4.3	4.9	4.8	5.3	5.4	5.1	4.0	3.5	4.1	5.4	5.5	6.1	6.2	6.4	1.8	6.4
04	5.8	5.7	4.2	6.2	5.4	5.8	6.1	4.7	2.3	4.2	5.1	3.8	5.5	5.7	5.6	3.7	2.7	2.9	2.3	3.3	4.4	5.6	4.5	3.6	2.3	6.2
05	3.9	3.7	4.9	6.5	5.4	5.1	4.4	4.0	1.6	4.6	5.2	5.0	5.8	5.9	3.9	3.0	2.4	2.7	2.6	2.8	5.4	5.7	4.8	3.6	1.6	6.5
06	4.2	4.9	5.2	4.6	4.3	3.8	4.6	3.4	1.5	4.1	5.2	4.6	5.9	6.1	4.3	3.4	3.4	2.4	1.8	1.5	1.5	3.4	2.6	2.2	1.5	6.1
07	3.8	3.9	3.8	5.0	4.2	5.5	4.2	4.2	2.0	2.7	4.3	4.7	6.3	5.2	5.1	5.2	5.2	3.6	1.9	1.6	3.7	2.7	3.6	2.9	1.6	6.3
08	3.7	4.4	3.3	2.5	4.4	7.2	5.0	4.0	2.1	2.7	4.7	5.2	4.7	5.5	5.9	4.3	4.4	3.7	2.6	0.9	1.5	3.1	3.5	4.3	0.9	7.2
09	4.9	7.6	7.0	6.0	6.5	7.5	5.7	4.2	1.9	2.9	2.6	3.6	3.9	4.4	3.9	3.0	3.0	1.6	2.8	1.9	2.5	2.9	2.3	2.9	1.6	7.6
10	3.0	2.6	3.2	3.6	5.4	5.9	5.8	4.9	2.6	3.9	4.3	5.1	6.1	5.7	5.2	4.5	3.7	1.6	1.9	2.6	5.2	4.1	3.6	4.0	1.6	6.1
11	4.1	3.8	3.5	3.6	3.4	3.5	4.2	4.7	2.7	2.7	4.3	4.9	4.8	5.1	4.9	5.3	4.5	1.8	3.6	4.4	5.7	5.9	5.0	4.0	1.8	5.9
12	3.4	4.1	3.8	4.8	4.0	3.6	5.6	4.7	2.1	2.8	4.1	4.7	3.9	2.2	5.0	4.2	3.3	3.3	3.2	4.8	4.4	8.2	9.7	10.1	2.1	10.1
13	11.7	3.9	6.5	7.5	5.9	5.6	5.1	5.5	2.2	3.0	5.6	4.7	5.9	5.7	4.2	4.2	4.0	2.6	2.5	2.8	3.0	4.0	3.7	4.4	2.2	11.7
14	4.0	4.3	5.0	4.8	3.9	5.1	5.5	4.9	3.5	4.1	4.1	4.9	5.3	5.6	3.1	4.3	4.9	2.9	2.0	3.2	1.5	3.1	3.3	3.2	1.5	5.6
15	4.8	4.7	3.8	5.0	4.4	5.4	5.2	5.6	2.7	3.1	4.3	5.5	6.0	4.7	5.0	2.8	2.9	2.1	1.6	2.3	1.6	2.1	2.6	2.9	1.6	6.0
16	3.3	3.9	3.1	1.6	3.7	5.0	3.7	3.7	1.7	3.0	3.9	5.0	6.4	5.8	5.1	4.5	3.6	1.9	2.2	1.9	4.3	3.1	4.5	4.3	1.6	6.4
17	3.8	4.0	4.0	4.3	5.1	6.3	6.5	5.7	3.3	4.1	4.0	3.9	3.8	3.4	2.8	2.1	2.3	3.7	3.4	3.7	3.6	2.9	2.8	2.6	2.1	6.5
18	4.1	2.6	3.2	2.9	3.6	3.3	4.1	4.2	1.8	3.5	4.2	4.5	4.7	5.4	4.0	3.7	1.8	2.7	4.5	3.4	3.0	3.9	3.8	4.4	1.8	5.4
19	5.4	5.2	5.7	5.6	6.2	4.2	3.7	3.8	1.1	2.2	4.5	5.9	5.6	5.7	4.7	5.1	5.0	3.1	3.9	4.4	4.8	5.3	6.9	5.9	1.1	6.9
20	7.2	8.0	6.9	6.3	6.3	7.0	7.2	6.5	1.7	3.2	4.9	4.9	5.2	5.5	5.0	4.7	4.0	2.7	3.6	5.6	6.6	6.8	7.3	6.9	1.7	8.0
21	6.0	6.0	7.3	5.4	5.6	5.9	5.5	5.2	3.1	1.6	2.2	2.9	3.9	4.7	4.8	5.1	3.9	2.2	3.0	3.8	4.5	4.2	4.1	4.4	1.6	7.3
22	5.5	5.7	5.5	6.1	7.4	6.1	6.8	6.3	1.8	2.8	4.9	5.4	6.1	7.5	7.2	6.5	4.8	2.5	3.4	4.1	5.1	4.8	5.1	5.0	1.8	7.5
23	4.9	4.6	5.0	5.6	5.8	5.8	6.9	6.2	1.9	2.3	4.3	5.6	5.6	5.2	5.4	4.9	4.4	2.1	2.5	4.4	4.4	5.8	4.2	5.1	1.9	6.9
24	6.2	6.1	5.0	7.0	6.4	6.2	7.1	5.8	3.2	3.6	4.1	4.9	5.7	5.7	4.6	4.0	3.7	2.0	4.4	4.0	3.8	5.9	5.6	5.5	2.0	7.1
25	6.4	6.1	6.7	5.0	6.4	6.1	6.9	6.3	3.7	4.1	5.4	5.0	5.8	5.6	4.5	4.8	4.6	1.3	4.9	4.4	3.9	5.4	4.7	6.1	1.3	6.9
26	5.3	4.9	4.2	5.3	5.9	5.3	4.7	4.5	4.6	4.4	3.7	3.3	3.6	4.0	1.7	2.5	2.4	2.5	3.9	3.7	4.2	3.8	4.1	5.2	1.7	5.9
27	5.3	5.6	6.0	5.6	5.6	5.8	6.5	6.4	2.3	2.2	4.6	5.1	5.3	4.4	5.6	5.0	4.0	2.7	1.8	1.8	1.7	3.0	3.9	3.1	1.7	6.5
28	2.9	4.2	3.8	4.8	5.7	5.6	6.3	6.3	3.0	2.8	4.9	5.4	5.6	7.0	5.6	5.9	4.3	2.5	1.7	3.1	2.8	2.2	3.6	4.0	1.7	7.0
29	4.2	4.6	5.2	6.0	5.0	5.6	5.5	5.6	2.5	4.4	4.7	4.5	5.3	5.9	6.3	6.0	4.7	3.3	2.7	3.6	4.8	4.6	5.2	5.0	2.5	6.3
30	5.0	2.7	4.4	3.6	3.3	5.2	5.3	5.2	2.4	3.8	4.8	5.0	5.8	6.2	4.3	4.7	4.5	3.6	3.0	3.9	4.1	4.1	5.7	5.6	2.4	6.2

Flags:

P = Power Failure - Valid Hour

Monthly: 4.4 Ave 0.9 Min 11.7 Max



# 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: Nov 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	9	10	10	10	10	10	11	0	11	17	4	9	11	10	9	7	9	10	9	11	11	12	11	7	0	17
02	6	4	3	3	5	6	6	0	9	10	13	13	11	5	3	2	2	3	1	0	2	6	9	12	0	13
03	12	10	10	9	8	6	7	0	10	6	27	8	10	11	11	9	6	7	9	12	13	10	7	17	0	27
04	6	6	9	10	9	6	2	4	7	10	11	9	17	13	8	5	8	10	10	10	9	8	7	5	2	17
05	3	5	5	6	7	7	6	0	1	5	11	13	9	6	8	9	6	6	12	12	21	16	14	12	0	21
06	13	13	6	7	10	6	2	0	5	6	10	12	8	4	6	7	6	18	8	5	3	5	10	10	0	18
07	8	8	5	1	1	3	2	0	7	9	11	13	9	4	2	1	0	-1	0	6	18	17	13	10	-1	18
08	5	5	9	12	13	14	11	0	11	12	21	7	7	5	2	4	4	2	2	5	7	11	12	8	0	21
09	9	11	11	20	23	18	24	0	13	6	4	10	10	9	8	7	9	9	10	10	10	9	9	6	0	24
10	7	9	10	10	9	8	7	0	10	13	12	13	12	8	6	3	1	1	1	0	0	1	0	0	0	13
11	3	5	6	8	8	7	7	0	11	21	15	13	11	11	8	9	11	8	4	3	3	5	6	6	0	21
12	4	5	6	3	4	7	6	0	6	6	6	9979	9979	0	8	0	-1	0	5	4	2	3	0	0	-1	8
13	-1	5	5	1	0	4	6	0	6	10	9	1	3	5	0	-1	1	4	4	8	14	11	7	8	-1	14
14	9	6	3	3	4	0	4	0	11	7	4	0	2	7	7	4	4	5	6	6	8	8	9	0	0	11
15	10	13	12	34	14	21	10	0	23	16	13	13	15	13	10	10	12	13	12	17	18	14	18	17	0	34
16	2	2	2	3	5	6	5	0	3	6	8	9	10	6	2	-1	0	1	3	6	18	27	18	6	-1	27
17	7	5	7	11	11	10	10	0	17	11	8	10	10	6	27	10	8	5	24	18	20	17	27	3	0	27
18	6	7	17	8	8	21	51	9979	16	36	7	4	5	5	3	1	3	7	8	10	9	8	10	10	1	51
19	17	14	10	3	2	3	6	0	12	10	9	9	8	6	7	10	9	6	21	4	7	9	5	4	0	21
20	3	1	3	3	2	4	6	0	3	7	8	21	18	10	7	17	10	12	13	13	18	17	16	14	0	21
21	14	14	11	8	8	11	15	0	3	21	6	4	5	5	-1	2	6	6	9	10	7	8	7	2	-1	21
22	2	4	3	2	2	1	4	0	1	6	6	7	9	11	11	8	21	11	11	10	10	14	11	7	0	21
23	8	9	7	6	8	9	9	0	7	8	8	10	8	1	5	12	11	9	10	11	11	17	20	21	0	21
24	24	9	22	19	12	13	14	0	17	21	24	21	10	9	11	9	16	15	12	8	10	10	10	14	0	24
25	20	24	40	27	18	14	32	0	17	5	6	5	7	9	10	8	1	1	3	9	12	12	19	11	0	40
26	12	10	9	13	12	10	10	0	11	8	10	17	15	13	9	8	10	11	11	9	8	8	5	0	0	17
27	2	5	6	4	6	12	13	0	16	15	8	7	10	8	8	12	13	11	7	6	6	7	11	8	0	16
28	4	3	5	5	5	2	0	0	2	2	3	2	0	3	6	6	6	6	12	10	6	10	11	8	0	12
29	6	5	6	5	4	3	4	0	4	6	7	9	12	8	17	18	22	15	22	12	11	12	12	8	0	22
30	6	7	8	7	8	11	8																		6	11

Flags:

- d = AM-Misc Void (9979)
- P = Power Failure - Valid Hour
- p = Power Failure - Invalid Hour (9979)

Monthly: Ave 8 -1 51  
Min Max

# Monthly Matrix SO2 (PA16)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

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

Day	HOOR 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	176	161	133	227	287	274	323	264	464	156	59	39	17	11	10	9	10	37	28	9995	36	43	33	24	9	464						
02	16	20	53	90	147	233	259	429	367	76	46	6	3	2	CAL	CAL	2	2	2	2	2	12	57	121	1	429						
03	100	74	81	82	107	176	238	130	180	50	39	40	52	50	15	28	5	17	38	40	59	55	52	41	5	238						
04	28	141	178	110	60	101	187	203	324	188	95	98	33	19	16	9979	25	23	28	47	75	87	71	96	16	324						
05	156	153	197	126	77	89	31	37	45	67	41	47	21	17	CAL	CAL	23	71	69	118	117	79	112	235	7	235						
06	292	92	324	176	100	22	76	158	65	21	41	23	4	9	3	19	69	39	19	58	118	63	20	195	3	324						
07	241	142	44	33	75	59	111	224	260	71	28	4	3	2	2	2	1	3	27	71	60	61	47	48	1	260						
08	53	157	193	349	215	64	50	300	224	89	15	5	3	2	2	2	2	3	12	10	15	12	39	77	2	349						
09	143	285	475	461	543	636	524	308	146	60	68	23	25	11	CAL	CAL	23	45	43	36	135	153	118	130	5	636						
10	180	290	253	194	117	73	55	32	85	115	76	38	14	5	2	2	2	2	1	1	1	4	17	1	1	290						
11	20	20	39	34	31	26	38	31	121	90	39	26	19	9	7	9979	9	4	3	3	3	2	2	1	1	121						
12	1	1	1	1	1	1	1	3	4	2	32	9979	9979	9979	9995	9979	4	2	2	2	1	1	1	1	1	32						
13	1	1	2	7	24	46	90	186	334	116	44	110	76	6	3	2	20	7	169	142	137	86	149	196	1	334						
14	136	105	74	12	20	246	286	161	116	6	4	131	131	84	38	28	11	19	17	27	20	38	129	253	4	286						
15	378	120	706	419	501	180	192	314	180	71	79	64	35	31	48	39	80	66	78	142	190	482	294	171	31	706						
16	11	9	32	121	111	87	104	103	56	38	58	35	3	3	CAL	CAL	4	20	48	290	464	486	295	243	2	486						
17	14	159	276	288	137	235	155	193	243	98	72	47	46	47	128	72	40	300	419	370	360	550	49	69	14	550						
18	114	293	189	111	555	821	583	251	486	175	16	41	19	10	6	9979	77	47	56	64	67	48	46	176	6	821						
19	206	67	25	39	100	152	239	474	253	354	61	98	28	30	CAL	CAL	3	369	111	109	60	19	22	6	3	474						
20	5	3	70	55	67	29	59	105	82	38	71	70	52	26	51	34	116	74	190	267	269	276	195	122	3	276						
21	181	143	77	56	299	235	37	8	631	105	92	129	14	8	11	12	15	106	74	86	110	65	34	27	8	631						
22	42	40	45	11	36	278	77	63	31	4	27	47	40	17	18	22	28	34	33	41	73	39	63	161	4	278						
23	171	176	135	174	148	153	136	204	159	99	29	26	8	7	CAL	CAL	15	25	32	33	34	97	116	226	7	226						
24	238	287	277	267	340	274	327	284	290	465	320	39	29	32	19	70	21	34	46	54	51	45	60	216	19	465						
25	462	832	583	382	356	570	349	320	141	107	27	63	35	51	13	9979	10	15	85	87	80	130	149	99	10	832						
26	98	137	183	183	142	150	102	61	64	262	249	111	36	24	CAL	CAL	50	78	76	137	114	107	73	24	24	262						
27	44	102	100	195	310	260	131	343	290	19	50	35	11	22	29	33	34	18	48	44	95	157	38	27	11	343						
28	96	125	67	15	7	7	46	24	34	83	32	8	19	8	3	2	6	25	43	40	60	105	108	82	2	125						
29	70	57	103	81	100	282	200	217	251	266	241	162	48	59	62	67	71	274	479	204	91	120	113	64	48	479						
30	130	316	292	156	90	71	65																		65	316						

Flags:

- 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: 107 Ave 1 832 Min Max

# Wind Direction (PA16)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: PA16  
Parameter: WD (DEG) Wind Direction  
Month/Year: Nov 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	302	298	273	304	291	312	316	154	202	196	105	103	102	102	109	114	214	274	232	238	285	245	262	281
02	242	317	313	321	323	316	319	248	128	114	111	110	107	113	120	107	116	213	134	82	210	290	294	275
03	317	322	322	324	321	324	323	222	111	114	96	95	97	107	115	102	117	233	287	306	275	293	269	257
04	309	313	322	318	324	297	296	277	179	181	192	166	115	106	103	142	259	221	206	277	277	320	314	254
05	196	241	233	319	315	314	282	266	129	102	93	108	104	105	106	118	167	222	129	105	86	182	147	114
06	203	180	96	85	91	186	313	165	140	100	100	99	98	104	118	115	98	112	225	284	289	305	248	167
07	162	112	66	102	75	73	249	175	98	109	110	120	108	106	107	109	111	124	212	273	314	311	298	280
08	311	320	322	298	313	316	322	191	136	109	101	112	114	99	97	102	106	110	264	272	310	321	324	307
09	320	321	321	322	319	319	317	312	278	123	98	120	104	117	138	130	293	302	314	299	318	327	323	334
10	215	228	301	330	314	295	233	124	217	135	111	102	97	139	145	91	279	248	319	331	323	323	310	314
11	324	323	323	325	322	323	319	303	114	105	135	159	171	181	184	183	142	101	285	270	311	321	324	321
12	319	323	323	323	323	329	329	185	104	101	65	96	118	105	136	249	314	327	318	325	327	321	312	251
13	292	297	284	258	232	255	120	139	293	114	179	87	74	68	124	167	98	121	167	133	190	134	169	176
14	126	82	249	295	190	268	292	167	88	105	106	142	159	111	107	95	82	211	241	204	103	125	206	152
15	95	144	135	112	131	97	178	88	99	89	94	99	100	101	103	102	98	85	76	110	203	208	272	127
16	76	228	297	299	294	291	294	205	99	95	80	77	95	84	70	178	126	110	167	200	150	156	110	124
17	135	156	234	242	187	240	169	143	140	99	102	98	101	91	98	103	101	90	65	99	70	70	77	178
18	123	159	150	178	183	175	165	126	90	82	76	100	101	99	97	105	118	185	259	210	301	196	302	290
19	238	194	237	291	295	281	200	164	167	86	104	101	108	109	104	101	97	84	191	183	227	303	152	188
20	202	142	147	267	287	310	269	282	211	184	106	102	105	102	102	104	99	173	209	226	210	265	172	302
21	261	254	216	301	252	235	122	256	222	110	96	93	103	107	114	119	106	119	236	231	236	272	281	269
22	305	288	228	266	321	264	294	191	71	105	102	106	107	104	86	105	114	199	286	325	270	259	303	325
23	297	314	281	318	307	308	301	219	221	174	106	106	103	104	102	105	102	238	276	219	288	274	304	287
24	301	211	289	314	322	319	313	305	229	153	131	107	103	110	109	107	193	151	200	249	300	275	311	302
25	288	270	312	322	323	302	329	303	197	128	104	103	97	98	102	96	93	113	61	100	240	275	276	290
26	319	319	296	310	303	293	298	331	331	304	238	140	123	167	167	251	256	237	173	235	251	267	170	148
27	132	147	180	137	246	294	311	214	138	106	100	98	103	101	102	99	101	173	161	252	136	74	92	188
28	163	286	288	302	250	289	291	178	96	117	109	108	105	109	114	108	99	193	173	284	289	309	310	328
29	305	315	321	317	309	313	317	271	143	109	170	197	197	218	237	254	235	96	212	229	274	285	311	273
30	222	293	244	291	231	298	318																	
31																								

Flags:  
P = Power Failure - Valid Hour

Monthly Ave: 199

# Wind Speed (PA16)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: PA16  
Parameter: WS (MPH) Wind Speed  
Month/Year: Nov 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	3.3	3.4	3.5	3.8	3.6	4.8	5.0	3.6	2.0	4.4	8.0	9.2	9.6	9.4	9.3	6.6	4.9	6.1	3.6	2.8	4.6	5.6	5.3	5.0	2.0	9.6
02	5.0	4.5	4.3	5.5	5.7	5.2	5.7	2.1	2.2	5.3	7.8	8.1	6.8	7.8	7.9	5.5	3.7	2.5	3.7	3.7	2.6	2.3	3.3	3.1	2.1	8.1
03	4.1	4.9	5.0	5.8	5.2	5.9	6.0	4.0	3.0	5.9	6.5	5.5	6.8	7.0	5.3	4.5	3.3	3.5	3.9	3.5	3.8	4.2	4.1	3.0	7.0	7.0
04	4.3	4.5	4.7	5.6	5.9	4.8	4.6	2.0	2.2	4.5	4.9	7.1	10.8	9.8	10.1	6.4	7.8	4.4	3.1	4.8	4.6	5.0	4.3	3.5	2.0	10.8
05	4.8	3.7	4.1	5.0	4.6	5.4	4.1	2.2	3.7	6.6	4.6	7.5	7.2	5.7	6.3	4.7	2.0	2.5	1.8	2.8	2.5	3.3	3.5	3.6	1.8	7.5
06	1.9	1.7	2.5	3.7	3.9	3.5	4.8	2.6	4.0	7.0	9.2	8.8	6.7	6.6	6.4	5.8	4.3	3.3	2.3	3.6	4.8	5.2	4.0	5.9	1.7	9.2
07	4.7	5.9	4.6	4.7	5.0	4.5	4.7	3.2	4.4	5.2	7.6	7.6	7.2	6.5	3.4	5.5	6.2	2.6	2.1	2.8	3.5	3.8	3.7	2.9	2.1	7.6
08	3.7	4.6	5.0	4.4	4.3	4.6	4.5	1.6	4.1	7.5	7.9	7.4	4.8	3.5	5.0	4.8	3.8	3.0	3.3	3.1	4.0	5.2	4.4	3.6	1.6	7.9
09	4.4	4.4	4.7	4.6	3.9	4.6	3.9	3.2	2.7	2.5	4.1	3.0	4.7	5.8	4.6	4.2	2.4	2.4	3.7	3.5	3.8	3.9	4.0	3.9	2.4	5.8
10	3.8	2.3	3.1	3.7	3.1	2.6	1.9	3.0	4.0	2.2	5.0	5.2	3.5	4.8	4.0	2.3	3.5	5.9	5.0	5.2	4.6	4.5	3.6	3.8	1.9	5.9
11	4.7	4.7	5.2	5.5	5.0	5.2	4.7	2.8	1.3	2.4	4.6	3.8	3.7	4.3	2.7	3.0	2.6	1.5	3.5	5.1	4.8	5.1	5.5	5.1	1.3	5.5
12	4.0	5.3	5.3	4.6	5.2	5.4	5.4	4.5	4.4	6.0	5.2	4.7	6.3	8.0	4.8	5.0	4.6	5.5	5.2	5.5	5.6	4.9	3.9	3.7	3.7	8.0
13	4.7	5.2	3.5	4.2	2.5	4.9	3.4	3.5	4.1	3.8	2.8	3.3	3.9	4.1	6.6	6.6	4.3	6.5	5.5	4.8	6.4	5.3	5.8	5.5	2.5	6.6
14	6.4	5.8	8.1	7.3	5.3	5.3	5.6	4.0	3.5	4.0	4.9	3.6	2.4	3.3	3.0	2.7	2.7	2.7	2.6	3.1	5.2	5.5	3.8	6.0	2.4	8.1
15	4.9	7.3	6.3	5.9	4.9	3.8	4.2	4.6	4.5	5.0	6.5	7.5	9.8	7.7	6.7	5.4	4.7	2.6	2.5	2.8	3.6	4.2	4.1	3.9	2.5	9.8
16	3.2	2.2	2.6	3.2	4.0	3.7	4.0	1.8	3.2	5.1	4.1	4.6	7.5	4.8	4.3	6.0	5.7	5.8	4.8	3.6	4.1	4.6	4.9	5.7	1.8	7.5
17	3.8	3.1	2.6	3.8	3.4	3.1	3.8	2.7	4.2	8.9	9.5	9.0	10.2	7.6	8.0	8.3	5.9	3.9	4.1	5.0	5.6	4.0	3.5	2.9	2.6	10.2
18	3.4	2.6	3.4	4.6	3.7	4.6	3.8	3.6	5.5	6.8	6.1	9.6	11.2	11.1	7.8	6.0	6.3	3.7	4.0	3.3	3.2	3.8	4.4	4.0	2.6	11.2
19	4.5	2.9	3.3	4.2	4.2	3.3	3.2	4.3	3.4	5.5	9.6	10.0	11.5	10.7	10.2	8.3	6.6	3.7	4.5	4.0	2.9	4.6	6.5	5.0	2.9	11.5
20	5.5	7.4	6.9	5.3	6.0	5.2	3.3	2.8	3.1	3.5	8.4	9.4	9.2	8.6	9.4	6.3	5.2	3.3	2.8	3.2	3.3	3.5	4.4	4.6	2.8	9.4
21	3.1	5.5	3.7	5.4	3.8	5.2	5.1	2.7	2.8	7.4	7.1	8.6	11.7	11.6	10.5	8.7	7.5	6.9	3.9	3.7	5.2	4.0	4.5	3.9	2.7	11.7
22	3.8	4.2	3.9	4.5	5.4	4.1	5.2	3.8	4.5	6.6	7.7	8.4	8.3	6.4	3.9	5.3	3.9	2.8	2.5	4.4	4.6	4.0	5.0	4.4	2.5	8.4
23	4.3	4.1	3.6	4.3	5.3	5.3	3.9	2.0	1.6	2.9	9.0	9.5	7.7	9.1	7.8	5.9	3.9	3.0	3.9	2.9	3.6	3.2	4.1	5.2	1.6	9.5
24	5.6	6.2	5.9	4.7	6.2	5.7	4.3	3.3	1.9	2.7	3.5	9.9	8.8	9.8	6.3	6.5	3.5	2.7	2.0	1.9	3.5	2.5	3.9	5.7	1.9	9.9
25	6.1	5.5	5.1	5.3	5.7	6.3	6.2	3.4	2.7	4.4	5.1	7.1	4.8	4.0	5.3	3.0	2.6	2.5	3.4	2.5	2.0	3.1	2.9	3.1	2.0	7.1
26	3.3	4.3	3.4	3.5	3.8	3.9	4.4	5.6	5.4	3.5	2.1	5.2	6.0	3.9	3.9	5.1	4.8	4.7	3.3	4.8	3.8	3.1	3.1	3.2	2.1	6.0
27	5.2	4.2	4.6	3.7	3.7	3.6	5.2	5.5	4.1	7.1	10.0	7.8	7.8	7.0	7.0	6.6	5.6	3.0	4.7	2.6	3.2	3.5	4.0	3.8	2.6	10.0
28	4.8	3.6	4.6	4.4	4.6	4.5	4.2	4.0	4.2	4.8	11.4	11.5	10.1	7.7	6.3	6.3	5.8	2.0	1.7	3.3	3.9	3.8	4.4	5.4	1.7	11.5
29	4.9	4.3	3.8	4.4	4.4	4.5	4.8	1.9	2.0	3.0	4.8	6.1	7.5	6.5	7.2	5.0	3.1	2.5	2.3	2.9	3.0	3.0	3.4	4.1	1.9	7.5
30	4.2	3.5	3.7	4.2	3.7	4.7	4.6																		3.5	4.7

Flags:  
P = Power Failure - Valid Hour

Monthly: Ave 4.8 Min 1.3 Max 11.7

# 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: Nov 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	4	5	3	4	4	3	3	3	4	6	8	8	5	7	9	6	5	5	7	7	5	5	6	6	3	9
02	5	6	9	8	6	7	10	7	4	6	5	6	8	6	6	9	11	10	9	8	8	6	5	4	3	3	11
03	5	7	5	5	8	5	2	5	4	3	6	6	6	5	5	6	8	9	6	7	7	9	5	2	4	2	9
04	6	5	6	8	6	4	5	6	7	9	10	7	7	6	7	6	9	10	7	6	6	5	3	5	6	3	10
05	5	2	3	6	5	2	2	4	5	6	6	5	7	8	7	8	7	7	4	2	2	4	6	6	6	2	8
06	5	3	3	4	6	8	3	2	4	6	7	6	4	5	5	6	11	10	7	9	4	4	4	5	6	2	11
07	9	9	7	7	6	5	8	10	9	7	6	8	11	9	6	7	8	10	6	1	4	4	6	11	13	1	13
08	10	9	6	4	5	7	6	4	6	7	5	6	6	7	10	10	7	8	10	8	7	5	4	4	4	4	10
09	3	5	7	6	7	10	9	6	10	11	8	7	10	10	7	4	3	6	4	4	4	3	-1	1	6	-1	11
10	6	4	3	1	3	4	3	2	4	9	5	3	7	12	9	4	4	4	4	5	10	18	14	10	1	18	
11	9	11	49	34	34	13	34	38	28	26	29	36	43	24	7	6	26	19	17	19	19	16	17	12	6	49	
12	12	11	13	21	11	11	19	17	27	49	15	50	77	39	5	6	6	6	23	24	24	16	11	7	3	77	
13	1	4	4	4	5	8	6	2	3	5	6	8	9979	11	13	10	6	5	3	2	2	3	5	3	1	13	
14	6	10	9	11	11	18	24	21	21	13	9	9	11	9	10	10	7	4	5	6	4	4	4	6	4	24	
15	9	9	11	11	8	7	9	10	6	5	9	13	13	10	8	10	10	7	6	5	5	5	7	9	5	13	
16	11	11	7	6	6	5	7	6	3	6	10	11	9	7	9	8	6	4	7	9	9	5	6	8	3	11	
17	7	6	6	7	7	7	7	6	6	3	3	7	5	7	11	10	9	6	4	6	5	4	7	7	3	11	
18	5	6	8	5	4	6	6	6	7	6	6	6	7	5	8	13	10	6	3	5	8	8	6	9	12	3	13
19	9	7	8	7	6	6	6	5	6	11	11	18	4	7	14	12	9	10	10	9	10	7	6	7	4	18	
20	6	4	7	8	6	8	9	6	9	10	10	10	9	10	10	10	10	7	6	7	6	6	6	5	4	10	
21	7	11	11	9	7	9	7	6	9	11	8	7	8	10	10	7	9	10	10	18	18	10	9	8	9	6	18
22	9	8	5	6	6	5	5	5	8	10	7	6	7	6	8	10	12	13	9	6	6	5	6	7	7	5	13
23	6	5	6	8	7	8	9	9	8	8	10	10	10	10	8	9	12	13	11	10	10	11	9	6	9	5	13
24	10	9	10	10	11	10	10	10	10	10	10	11	11	10	11	13	10	9	11	13	10	7	10	9	7	13	
25	7	7	6	6	10	9	10	11	10	11	14	12	13	12	9	8	5	3	3	5	6	6	8	8	3	14	
26	6	6	8	8	8	8	6	5	7	8	10	10	8	10	8	10	12	9	8	10	10	11	9	7	5	12	
27	7	6	6	7	8	8	8	9	8	7	7	8	10	13	13	8	5	7	9	8	10	9	8	8	6	5	13
28	7	28	11	9	8	9	7	7	9	11	12	11	12	15	15	13	19	9	8	7	9	10	9	7	7	28	
29	7	7	7	9	7	7	9	9	9	7	10	13	10	7	8	7	9	12	10	7	7	7	6	8	6	13	
30	9	7	9	9	11	11	9	9	7	5	3	6	7	6	10	12	12	10	4	6	7	9	10	9	3	12	
31																											

Flags:  
d = AM-Misc Void (9979)

Monthly:      8      -1      77  
Ave      Min      Max

# Monthly Matrix SO2 (MV17)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

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

## HOUR BEGINNING (Local Standard Time)

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Min	Max	
01	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	1	1	0	9995	CAL	1	0	0	0	0	0	1
02	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	9995	1	1	1	0	0	0	0	0	0	1
03	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	1
04	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	1	9979	1	0	0	0	0	0	0	0	0	1
05	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	CAL	9995	1	1	0	0	0	0	0	0	0	1
06	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1
07	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
08	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
09	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	9995	1	1	0	0	0	0	0	0	0	1
10	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	3	9	5	3	3	0	0	9
11	2	112	73	80	35	56	56	49	47	141	301	201	61	8	6	32	9979	24	15	8	7	7	6	4	2	301	
12	19	38	79	27	36	49	52	123	109	21	93	212	145	5	11	CAL	40	170	103	17	5	2	2	1	1	212	
13	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	15
14	7	4	8	5	31	74	51	18	8	3	1	1	1	1	1	0	0	0	0	0	0	0	0	0	0	0	74
15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	1	1	0	0	0	0	0	0	1
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	9995	1	1	0	0	0	0	0	0	1
17	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1
18	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
19	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	CAL	9995	1	1	1	1	1	0	0	0	0	1
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1
21	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	0	0	0	0	0	0	0	0	1
22	0	0	0	0	0	0	0	0	0	0	0	0	0	1	2	1	1	0	0	0	0	0	0	0	0	0	2
23	0	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	9995	1	1	0	0	1	1	1	0	0	1
24	1	0	0	0	0	0	0	0	0	0	1	1	1	1	1	0	1	0	0	1	1	0	0	0	0	0	1
25	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	9979	1	1	1	1	0	0	1	0	0	1
26	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	CAL	9995	1	1	0	0	0	0	0	0	0	1
27	0	0	0	0	0	0	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	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1
29	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	1	1	1	0	0	0	0	0	0	0	0	1
30	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	0	9995	1	1	0	0	0	0	0	0	0	1
31																											

Flags: Monthly: Ave 4 Min Max 301

- 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

# Wind Direction (MV17)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: MV17  
Parameter: WD (DEG) Wind Direction  
Month/Year: Nov 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	265	266	265	253	264	254	257	243	90	78	75	70	69	77	74	70	97	119	296	262	253	257	255	264	
02	259	257	252	247	255	256	256	255	178	128	89	81	72	66	76	74	71	107	219	92	209	255	251	266	
03	259	259	257	256	263	257	263	260	260	117	82	255	252	150	110	70	65	257	240	229	263	266	269	269	
04	268	258	261	260	256	262	258	276	214	161	116	83	82	87	91	105	77	181	275	262	265	274	271	260	
05	264	279	245	245	260	240	250	257	276	275	232	111	97	164	202	147	89	150	214	266	178	282	291	291	
06	289	280	266	232	273	275	275	275	271	230	117	85	88	86	97	88	83	169	270	265	278	262	263	268	
07	267	267	257	237	244	232	248	274	111	94	72	76	71	73	67	70	75	121	274	270	277	249	270	266	
08	210	258	264	257	171	241	250	267	176	83	69	75	81	72	72	67	69	97	232	309	285	258	259	259	
09	256	258	259	251	211	240	235	270	264	264	124	78	79	66	154	239	182	224	273	256	258	177	137	279	
10	280	277	265	264	225	105	182	257	267	250	118	95	78	69	81	67	78	254	246	233	235	236	242	240	
11	236	225	225	256	239	247	242	245	247	189	192	69	69	91	132	224	266	262	239	234	241	253	233	217	
12	224	224	224	234	249	242	237	245	233	232	180	184	148	187	234	256	241	245	215	239	149	153	168	273	
13	266	248	278	236	115	80	150	277	272	263	261	209	105	110	209	223	261	239	261	221	240	204	216	250	
14	256	243	241	235	217	243	248	274	182	185	137	216	150	96	126	210	293	260	250	220	148	190	245	256	
15	256	254	238	205	221	284	271	233	265	252	199	260	238	206	211	117	130	83	206	63	190	263	281	223	
16	260	264	258	256	245	178	222	270	267	195	178	104	138	197	170	221	206	201	279	191	225	270	258	268	
17	251	264	203	261	266	255	215	188	241	176	152	136	158	70	70	66	67	209	232	270	151	89	187	184	
18	170	119	174	279	272	269	265	271	214	248	159	178	210	229	240	149	231	267	269	266	254	281	279	260	
19	257	273	278	243	251	253	226	220	274	180	163	124	103	77	79	102	231	212	211	242	281	268	257	277	
20	273	266	254	259	264	266	262	252	270	194	190	226	198	210	247	160	233	264	273	275	273	273	259	264	
21	263	260	198	271	269	254	260	266	260	276	221	187	164	95	80	123	139	234	266	263	242	262	265	267	
22	263	269	268	260	254	269	259	249	208	131	185	271	156	73	71	139	87	266	271	267	268	273	259	275	
23	269	267	252	255	292	285	279	269	255	217	95	89	65	63	70	70	132	260	303	294	287	290	269	261	
24	267	262	268	260	252	258	259	268	245	151	62	77	126	83	85	107	85	170	227	271	250	266	258	269	
25	260	249	256	257	260	254	236	236	189	215	140	91	146	75	77	62	68	59	70	107	242	184	226	247	
26	268	268	261	277	264	265	258	258	256	265	98	249	226	169	139	116	158	275	261	140	271	278	247	147	
27	207	244	144	269	274	272	270	268	218	281	269	143	184	201	280	258	273	210	271	304	232	307	295	276	
28	263	265	266	267	263	264	262	269	270	271	204	125	110	76	80	116	127	198	178	269	264	239	250	245	
29	265	266	267	262	243	237	242	250	163	265	105	108	119	122	133	108	105	186	215	262	267	263	248	114	
30	150	118	274	267	266	253	255	265	273	239	123	101	114	109	83	101	274	263	270	272	271	271	267	265	
31																									

Flags:

P = Power Failure - Valid Hour

Monthly Ave: 210

# Wind Speed (MV17)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: MV17  
Parameter: WS (MPH) Wind Speed  
Month/Year: Nov 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	2.5	3.0	3.1	2.6	3.0	2.8	3.1	2.1	2.0	2.5	3.8	4.4	5.1	4.5	4.8	4.1	3.2	2.5	1.4	2.2	3.3	3.7	2.8	4.4	1.4	5.1
02	4.7	5.2	4.5	4.2	5.4	5.5	5.4	3.4	2.0	2.9	3.4	4.0	4.2	4.1	3.3	3.6	2.5	2.0	1.4	2.2	1.2	1.5	2.1	3.2	1.2	5.5
03	3.3	2.8	2.2	2.6	3.8	4.1	4.3	3.6	2.4	3.0	2.9	2.7	3.7	2.1	3.4	3.6	2.9	1.2	1.5	2.5	2.9	3.6	3.3	3.2	1.2	4.3
04	3.7	2.7	3.0	2.6	3.2	2.5	2.2	2.6	3.7	5.4	5.5	5.9	5.0	5.9	6.0	5.9	4.6	2.5	1.3	1.5	1.7	1.9	3.3	2.4	1.3	6.0
05	2.2	2.6	1.9	2.2	2.5	2.3	2.1	2.3	2.3	2.5	2.2	3.1	3.8	4.1	2.7	3.1	4.0	2.5	1.6	2.2	2.2	2.3	1.9	1.7	1.6	4.1
06	1.7	2.2	2.9	2.9	3.0	2.6	2.8	2.8	2.9	3.2	2.5	3.8	4.4	2.9	2.8	3.2	2.8	2.6	1.2	1.5	1.8	2.7	3.0	2.3	1.2	4.4
07	4.1	4.6	4.4	2.7	3.6	2.4	2.8	2.3	1.6	2.9	3.4	4.0	4.6	3.7	3.3	3.1	2.7	1.7	1.6	2.6	2.0	2.0	3.1	2.0	1.6	4.6
08	3.1	3.9	3.4	2.5	2.1	4.1	4.1	3.0	2.3	2.8	3.1	3.1	3.4	3.8	3.6	3.6	3.2	2.1	1.4	1.3	1.8	2.3	3.2	3.6	1.3	4.1
09	4.1	4.5	4.8	4.0	2.7	2.1	2.4	4.6	3.3	2.1	2.8	3.7	3.5	3.6	2.3	2.2	2.5	1.3	2.5	1.9	2.0	1.7	1.5	1.0	1.0	4.8
10	1.5	1.7	2.4	2.9	2.3	1.7	2.7	3.5	2.3	1.4	1.6	2.1	3.5	3.9	4.3	2.6	2.0	1.8	3.3	2.8	1.9	1.7	2.3	2.5	1.4	4.3
11	2.8	3.7	4.2	2.6	3.5	3.5	3.4	3.1	2.4	1.7	1.9	3.0	4.7	3.7	3.4	4.5	2.4	1.9	1.5	1.8	2.0	1.8	2.6	3.9	1.5	4.7
12	5.8	5.7	4.1	4.8	4.0	3.7	3.5	3.1	3.5	4.5	4.5	5.0	4.8	6.2	5.0	4.2	3.7	4.0	3.8	2.3	3.0	3.1	4.6	4.1	2.3	6.2
13	3.5	2.9	4.7	4.2	6.7	7.5	6.3	4.4	4.1	3.5	3.6	2.7	2.2	4.0	1.9	2.8	2.9	4.0	4.6	5.5	5.4	3.7	4.6	4.1	1.9	7.5
14	4.8	4.9	4.4	3.7	3.9	2.8	2.5	2.4	4.4	6.0	6.1	5.3	5.3	4.7	1.8	2.2	2.2	2.8	3.6	3.6	3.1	2.9	2.7	2.3	1.8	6.1
15	2.1	2.7	2.5	2.8	2.1	2.3	2.5	2.5	2.9	2.0	2.5	3.1	2.9	3.1	2.6	2.9	3.0	2.7	2.6	2.9	1.0	2.1	1.5	2.1	1.0	3.1
16	2.6	3.7	2.4	3.2	2.1	2.5	2.7	3.3	2.8	1.5	2.4	4.4	2.7	2.2	2.9	2.2	2.4	2.5	2.7	2.5	2.9	2.0	2.8	2.2	1.5	4.4
17	2.4	2.5	2.3	2.1	2.3	3.0	3.0	3.7	3.1	4.0	4.1	4.5	4.7	5.2	5.0	4.6	4.6	3.3	3.1	3.0	3.3	2.3	2.8	2.5	2.1	5.2
18	2.5	3.4	2.9	2.7	2.3	2.0	2.1	2.3	2.9	3.1	4.0	3.6	3.3	3.9	4.0	3.9	2.9	2.2	3.0	3.2	2.9	2.9	2.4	3.4	2.0	4.0
19	2.0	1.6	2.6	2.7	2.5	2.2	2.3	2.6	2.9	4.0	4.2	4.6	4.6	5.4	4.5	4.3	2.3	2.1	1.7	1.9	1.8	1.6	2.3	3.2	1.6	5.4
20	3.6	3.9	2.6	2.4	3.2	2.7	2.5	2.8	3.4	2.7	3.8	3.3	3.6	4.0	2.3	2.3	2.0	1.9	1.8	2.0	1.6	1.5	1.4	1.3	1.3	4.0
21	3.2	2.9	2.9	3.3	3.3	2.4	3.1	3.4	2.3	2.1	2.5	2.5	3.3	4.1	4.7	4.0	3.4	1.6	1.9	1.8	2.5	2.4	2.0	2.9	1.6	4.7
22	2.6	3.4	3.5	3.0	2.5	1.8	2.1	1.9	2.1	2.9	4.1	3.5	3.2	4.5	4.0	2.6	1.9	2.2	3.0	3.2	2.2	4.0	3.5	2.8	1.8	4.5
23	3.5	1.9	2.0	2.1	1.4	1.7	1.5	1.6	2.9	3.0	3.4	3.7	5.4	4.4	3.9	3.9	2.8	1.5	1.3	1.4	1.3	1.8	2.3	3.0	1.3	5.4
24	2.8	2.9	4.1	4.3	3.6	2.9	3.1	2.2	2.2	3.3	4.0	4.5	4.6	5.3	4.5	3.9	3.9	2.6	2.4	1.7	1.3	1.2	2.3	3.3	1.2	5.3
25	3.6	3.2	3.3	5.8	6.0	3.4	2.6	1.9	1.2	2.3	1.9	3.0	3.0	2.6	3.6	3.2	3.6	3.2	2.7	2.5	2.1	1.9	1.8	1.9	1.2	6.0
26	1.7	1.4	1.1	1.2	1.6	2.2	2.7	2.5	2.0	2.0	2.7	3.5	4.5	5.2	5.3	5.1	4.2	1.9	1.5	2.7	2.8	3.1	2.5	3.6	1.1	5.3
27	2.4	4.6	4.1	2.1	3.5	4.3	4.2	3.1	2.8	3.1	2.5	2.8	1.3	2.5	3.1	2.8	2.4	2.3	2.4	1.9	2.0	2.1	1.6	1.7	1.3	4.6
28	1.3	1.7	2.0	2.5	3.3	3.5	3.6	3.1	2.2	2.4	3.4	4.0	3.8	4.4	4.5	3.5	2.9	2.3	2.4	2.7	2.9	2.8	3.1	3.3	1.3	4.5
29	3.0	3.3	3.7	3.0	2.9	1.9	2.4	1.8	2.1	2.7	4.6	5.5	7.1	6.6	6.6	6.1	4.1	2.0	1.8	2.4	2.9	3.1	1.6	3.5	1.6	7.1
30	8.0	4.1	2.4	1.9	1.8	2.0	1.8	1.7	2.2	2.6	5.5	6.4	5.8	5.9	5.3	4.5	4.2	3.3	3.8	3.9	4.0	3.6	2.9	2.1	1.7	8.0

Flags:  
P = Power Failure - Valid Hour

Monthly: 3.1 Ave 1.0 Min 8.0 Max



# Monthly Matrix SO2 (PE10)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

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

Day	HOUR BEGINNING (Local Standard Time)																								Min	Max
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
01	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
02	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
03	1	1	1	1	1	1	9995	1	1	1	9995	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
04	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
05	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
06	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
07	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
08	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
09	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
10	1	1	1	1	1	1	9995	1	1	1	9995	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
11	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
12	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
13	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
14	1	1	1	1	1	1	1	1	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	1	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
17	1	1	1	1	1	1	9995	1	1	1	9995	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
18	1	1	1	1	1	1	1	1	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
20	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
21	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
22	1	1	1	1	1	1	1	1	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
24	1	1	1	1	1	1	9995	1	1	1	9995	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
25	1	1	1	1	1	1	1	1	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	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	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	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
29	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
30	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
31																										

Flags:  
c = BD-Calibration Auto- Invalid Hour (9995)

Monthly: Ave 1 Min 1 Max 3

# Wind Direction (PE10)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: PE10  
Parameter: WD (DEG) Wind Direction  
Month/Year: Nov 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	306	314	314	305	316	317	313	303	297	125	148	86	85	81	103	114	95	137	204	317	297	318	320	316	
02	315	312	314	300	295	311	307	313	310	164	116	111	160	101	96	101	74	92	98	152	251	279	303	319	
03	318	317	314	320	320	318	317	312	240	256	281	273	149	183	120	114	150	144	188	301	312	287	307	317	
04	315	318	318	321	320	317	305	296	260	190	163	152	157	106	127	138	178	190	213	278	287	310	313	309	
05	320	266	316	315	263	308	289	294	241	285	181	130	111	121	158	130	100	207	237	143	224	306	292	316	
06	299	276	254	264	260	275	313	303	297	272	196	177	152	122	150	150	145	110	125	253	247	246	314	316	
07	304	295	293	270	273	301	305	304	304	234	114	94	103	103	103	89	118	111	214	322	292	313	269	284	
08	306	304	301	269	305	304	281	308	299	231	115	90	121	102	147	86	82	106	150	245	266	321	320	319	
09	319	319	256	317	303	306	300	298	303	299	254	271	202	261	273	256	285	307	310	314	293	300	297	304	
10	312	304	290	314	260	266	285	296	292	293	287	206	108	97	99	102	199	274	315	306	291	270	257	248	
11	260	246	202	221	261	249	278	262	189	196	173	163	161	162	154	159	158	139	141	278	186	146	172	204	
12	211	211	214	189	155	137	156	184	195	167	150	122	148	210	211	259	285	233	266	194	182	92	140	296	
13	305	305	299	246	105	106	129	266	256	275	254	133	113	120	113	116	149	232	238	253	224	123	201	226	
14	234	113	137	129	137	141	115	165	249	196	121	101	88	91	101	89	88	157	94	102	99	89	91	97	
15	86	77	91	81	100	164	201	148	103	214	189	88	82	80	84	82	74	83	80	144	131	237	237	200	
16	93	85	155	133	139	185	241	238	243	171	89	88	100	99	101	99	93	90	84	89	129	173	176	157	
17	128	195	128	228	125	127	147	126	90	86	91	87	89	82	84	93	159	177	194	133	83	85	86	83	
18	83	95	248	257	301	310	297	298	291	247	97	133	120	109	110	107	98	141	258	243	248	217	279	307	
19	307	305	273	178	280	313	302	311	279	174	106	106	100	118	107	121	124	110	104	115	157	210	212	258	
20	309	311	316	315	312	288	183	306	301	310	292	123	87	84	79	85	87	113	102	112	127	195	244	276	
21	305	298	306	308	270	310	313	316	296	201	109	131	199	142	120	155	168	240	240	304	286	299	303	311	
22	312	300	316	316	320	318	320	316	308	271	245	268	235	145	189	134	306	310	312	296	303	296	285	271	
23	295	300	282	274	272	267	262	267	180	84	87	97	91	93	84	85	87	116	64	93	216	300	314	304	
24	321	314	315	317	319	320	317	314	291	197	151	148	131	128	125	114	91	104	103	111	108	208	304	314	
25	318	315	308	305	313	314	290	303	305	302	309	303	267	101	105	104	99	76	79	96	91	95	126	138	
26	148	152	261	250	292	283	303	293	295	303	306	291	222	214	217	241	237	301	265	276	283	225	285	144	
27	214	168	264	269	300	304	308	249	236	179	196	109	180	264	274	121	82	84	79	79	80	79	178	266	
28	279	288	301	303	305	312	315	315	311	283	187	97	87	87	81	110	92	232	312	288	278	240	298	262	
29	298	303	303	255	306	309	316	192	263	288	297	264	254	225	214	193	225	217	224	313	313	293	224	288	
30	243	167	276	309	292	298	306	312	311	307	267	217	173	156	222	283	307	312	311	314	314	315	308	308	
31																									

Flags:  
None

Monthly Ave: 215

# Wind Speed (PE10)

PRELIMINARY DATA ONLY  
SUBJECT TO CHANGE

Station/Facility: PE10  
Parameter: WS (MPH) Wind Speed  
Month/Year: Nov 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	3.8	3.3	3.0	3.8	3.9	3.5	3.4	4.4	3.5	3.9	5.7	5.6	5.8	4.8	3.9	2.4	1.9	2.5	2.9	3.6	3.7	3.5	3.5	1.9	5.8	
02	3.7	3.1	3.0	1.0	2.1	1.6	2.3	3.0	4.6	4.2	3.8	4.0	3.6	3.8	3.0	2.6	2.1	2.4	2.5	1.4	0.8	1.6	2.8	3.4	0.8	4.6	
03	3.0	2.3	1.7	2.4	2.1	3.0	3.7	4.4	3.2	2.6	4.1	3.4	2.8	3.0	3.2	4.1	3.6	3.1	2.7	2.8	3.7	4.2	3.8	1.7	4.4		
04	3.9	2.9	3.5	3.9	4.9	4.8	4.7	5.4	5.2	5.0	6.0	5.6	6.0	6.7	6.8	6.8	5.6	4.9	4.1	4.1	4.3	4.5	3.8	2.9	6.8		
05	2.1	1.6	3.3	3.4	3.4	1.9	1.5	2.3	2.7	4.4	4.0	5.1	4.9	3.7	3.8	3.5	3.5	2.6	2.6	2.6	3.0	2.7	3.5	1.5	5.1		
06	2.5	1.7	1.4	1.0	1.4	3.2	3.2	4.1	4.5	4.3	3.8	2.6	3.7	3.8	2.9	3.3	3.3	2.8	1.7	1.6	1.2	1.3	1.1	3.1	1.0	4.5	
07	2.6	0.8	0.3	0.3	0.5	0.6	0.9	3.1	4.0	3.9	3.7	4.0	3.5	3.4	3.1	3.4	1.5	1.0	0.7	1.3	2.0	2.8	2.1	1.9	0.3	4.0	
08	3.0	2.0	2.1	2.1	1.8	1.8	1.2	2.6	3.7	3.2	3.7	4.1	3.6	3.0	3.0	3.1	2.7	2.1	1.9	1.0	0.8	1.9	2.1	2.7	0.8	4.1	
09	3.3	1.4	1.6	2.8	3.7	4.2	3.5	3.3	3.5	4.5	3.6	5.7	4.9	5.0	4.9	5.1	5.4	5.3	4.9	4.5	2.9	4.6	4.3	4.4	1.4	5.7	
10	5.4	3.6	3.6	4.5	2.5	2.1	0.5	1.1	1.4	2.8	2.3	1.9	2.8	4.5	3.2	1.9	1.0	0.9	0.8	0.5	0.4	0.3	0.3	0.3	0.3	5.4	
11	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.9	0.9	1.2	2.7	3.6	3.3	3.7	2.8	2.2	0.9	0.4	0.3	0.9	0.6	0.9	0.5	0.3	3.7	
12	0.4	0.4	0.3	0.3	0.3	0.3	0.3	0.3	0.5	0.8	1.8	1.8	2.7	0.4	0.7	1.1	1.9	0.4	1.0	3.9	3.4	5.8	7.1	6.8	0.3	7.1	
13	9.9	9.4	6.4	4.1	6.7	5.6	2.6	4.4	3.1	3.2	2.0	2.9	5.6	4.2	3.8	2.8	1.3	0.3	1.1	0.3	0.8	1.6	0.5	0.4	0.3	9.9	
14	0.5	2.0	0.9	0.5	0.7	1.7	1.9	1.5	2.9	2.5	3.3	4.0	5.8	4.6	3.4	1.7	1.9	1.0	1.9	2.0	2.3	2.2	2.4	2.9	0.5	5.8	
15	2.1	1.8	1.8	2.3	2.5	1.4	1.4	1.8	3.0	2.5	3.2	4.5	4.7	5.5	4.5	4.8	5.1	3.5	4.0	3.5	2.7	0.8	2.3	1.8	0.8	5.5	
16	2.4	2.8	2.1	2.3	1.7	2.0	2.7	2.0	2.8	2.5	3.8	3.3	4.0	4.9	4.1	3.7	2.7	2.7	2.8	2.9	2.9	2.7	2.4	2.4	1.7	4.9	
17	3.3	2.3	2.8	2.7	4.2	3.6	3.3	4.7	6.0	5.8	5.4	6.1	6.3	6.9	6.0	5.7	3.9	3.9	4.2	3.6	4.6	3.2	3.8	3.9	2.3	6.9	
18	3.8	4.7	2.3	2.2	3.6	4.2	4.2	4.3	5.4	5.3	4.3	5.0	5.4	5.3	5.4	5.5	4.6	2.9	3.0	3.0	2.6	3.2	2.8	3.5	2.2	5.5	
19	3.5	3.6	3.6	2.6	3.7	4.8	4.8	4.6	4.1	4.3	5.1	6.6	5.7	5.7	5.8	4.8	3.7	3.7	4.4	4.2	3.7	3.2	3.1	3.0	2.6	6.6	
20	5.1	5.5	5.2	5.4	4.4	4.3	2.2	4.7	5.5	6.7	5.2	2.9	4.5	5.7	5.7	5.1	4.6	3.9	4.2	4.0	2.6	2.0	2.0	2.6	2.0	6.7	
21	2.9	3.5	4.8	4.4	3.1	5.1	4.6	4.7	5.3	4.2	5.2	5.5	5.8	5.0	4.6	4.6	3.7	2.5	3.6	3.5	4.2	4.1	3.7	3.7	2.5	5.8	
22	4.8	5.0	4.6	4.2	4.0	3.1	5.0	4.9	4.5	4.0	4.0	4.9	5.0	3.3	3.6	3.9	4.2	4.2	4.3	3.9	4.0	2.9	3.0	2.8	2.8	5.0	
23	3.1	3.2	2.7	2.1	1.4	2.3	1.6	1.7	2.4	4.9	5.1	4.7	5.6	5.9	5.1	4.5	4.0	2.6	2.1	1.9	1.4	1.2	1.8	1.0	1.0	5.9	
24	1.9	3.5	4.6	5.0	3.4	4.1	4.2	3.7	4.9	4.8	4.4	4.5	5.3	5.7	5.6	5.2	4.6	3.5	3.6	2.7	3.4	1.9	3.1	4.3	1.9	5.7	
25	4.2	4.0	4.6	3.3	3.5	4.7	5.0	5.8	5.0	5.3	6.1	5.2	3.8	3.5	3.0	3.0	3.6	3.5	3.5	4.4	3.9	3.4	3.1	3.0	3.0	6.1	
26	3.2	3.8	3.1	2.7	4.4	5.3	6.2	5.7	4.9	5.1	6.5	7.3	6.5	7.0	7.4	6.4	6.2	6.1	5.2	6.1	5.2	2.2	3.2	3.7	2.2	7.4	
27	2.2	2.2	4.5	5.5	4.0	4.6	5.1	3.5	2.9	2.2	3.4	3.3	3.0	3.7	3.8	2.5	3.3	3.6	3.6	3.7	3.4	3.4	2.5	2.1	2.1	5.5	
28	2.8	3.4	3.6	3.3	3.7	4.1	4.8	4.9	4.9	4.2	4.8	4.4	4.8	5.1	5.4	4.2	3.1	2.9	3.1	2.9	2.3	1.6	1.6	2.9	1.6	5.4	
29	2.6	4.5	5.2	2.0	5.8	6.9	6.5	3.8	4.8	7.0	7.1	6.6	7.5	7.5	7.0	6.8	4.9	3.7	4.5	5.1	6.0	6.3	5.0	7.1	2.0	7.5	
30	9.0	8.4	7.0	7.9	7.2	5.2	6.0	7.2	8.8	9.1	7.5	7.3	7.0	5.8	6.1	7.0	7.6	6.5	6.7	6.4	7.1	6.7	7.2	7.7	5.2	9.1	
31																											

Flags: None

Monthly: 3.6 Ave 0.3 Min 9.9 Max