

Monthly Matrix SO2 (HL11)

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

Station/Facility: HL11
Parameter: SO2 (PPB) Sulfur Dioxide
Month/Year: Nov 2008

HOUR BEGINNING (Local Standard Time)

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Min	Max	
01	1	1	1	1	1	1	1	1P	1C 9995C	4C	2	1	1	1	1	9995C 9995C	2	2	1	1	1	1	1	1	1	1	4
02	1	1	1	1	1	1	1	1P	1C 9995C	6C	4	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	6
03	1	1	1	1	1	1	1	1P	1C 9995C	3C	2	1	1	1	1	1	1	2	1	1	1	1	1	1	1	1	3
04	1	1	1	1	1	1	1	1P	1C 9995C	4C	2	9995C	2C	2	2	1	1	1	1	1	1	1	1	1	1	1	4
05	3	11	4	4	3	2	2	1P	1C 9995C	5C	2	2	2	2	4	4	5	2	2	2	1	1	1	1	1	11	
06	1	1	9978p	9978p	9978p	9978p	9978p	1P	1C 9995C	4C	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	4	
07	1	1	1	1	1	1	1	1P	1C 9995C	3C	4	4	4	4	3	3	3	2	1	1	1	1	1	1	1	4	
08	1	1	1	1	1	1	1	1P	1C 9995C	5C	3	2	2	3	4	2	2	1	1	1	1	1	1	1	1	5	
09	1	1	1	1	1	1	1	1P	1C 9995C	7C	4	4	4	2	3	4	3	2	1	1	2	1	1	2	1	7	
10	2	1	1	1	1	2	3	2P	2C 9995C	4C	2	2	3	2	2	6	2	2	3	2	1	1	1	1	1	6	
11	1	1	1	1	1	1	1	1P	1C 9995C	4C	2	2	9995C	3	2	2	1	1	1	1	1	1	1	1	1	4	
12	1	1	1	1	1	1	1	1P	1C 9995C	3C	2	2	2	1	1	1	1	1	1	1	1	11	9	4	1	11	
13	15	17	10	15	6	72	120	34P	58C 9995C	11C	25	9	4	3	4	2	2	2	2	2	2	3	8	12	2	120	
14	16	11	13	15	24	25	19	38P	257C 9995C	10C	6	5	4	7	3	3	3	2	3	3	2	2	49	62	2	257	
15	36	29	19	21	19	30	29	9978p	9978p 9978p	9978p	12	11	5	6	6	6	3	2	2	2	2	2	2	2	2	36	
16	2	4	4	4	4	4	3P	2P	2C 9995C	4C	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	4	
17	1	1	1	1	1	1	1	1P	1C 9995C	3C	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	3	
18	1	1	1	1	1	1	1	1P	1C 9995C	4C	2	9978p	2P	1	1	1	1	1	1	1	9978p	9978p	9978p	9978p	9978p	1	4
19	9978p	9978p	9978p	9978p	9978p	9978p	9978p	1P	1C 9995C	1C 9995C	1C 9995C	2P	1	1	1	2P	1	1	1	1	1	1	1	1	1	4	
20	1	1	1	1	1	1	1	1P	1C 9995C	5C	2	2	2	2	2	1	1	1	1	1	1	23	9980b	9980b	1	23	
21	42	16	12	29	33	34	30	42P	46C 9995C	8C	4	2	2	1	1	1	1	1	1	1	1	7	21	29	1	46	
22	44	51	49	47	97	128	95	111P	98C 9995C	8C	4	3	6	10	6	6	6	3	2	2	2	1	1	1	1	128	
23	1	1	1	1	1	1	1	1P	1C 9995C	5C	2	2	2	2	1	1	1	1	1	1	1	1	9978p	9978p	9978p	1	5
24	9978p	9978p	9978p	9978p	9978p	9978p	9978p	1P	1C 9995C	4C	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	4	
25	1	1	1	1	1	1	1	1P	1C 9995C	3C	3	9995C	2	2	2	2	1	1	1	1	2	2	2	2	1	3	
26	1	1	1	1	1	1	1	1P	1C 9995C	4C	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	4	
27	1	1	1	1	1	1	1	1P	1C 9995C	3C	2	2	2	2	2	1	1	1	1	1	1	1	1	1	1	3	
28	1	1	1	2	2	1	1	1P	2C 9995C	3C	2	2	2	2	1	1	1	1	1	1	1	1	1	1	1	3	
29	1	3	3	3	3	2	2	2P	1C 9995C	4C	2	2	2	1	1	1	1	1	1	1	1	1	1	1	1	4	
30	1	1	1	1	1	1	1	1P	1C 9995C	4C	3	6	6	7	5	7	4	2	2	2	2	1	1	1	1	7	
31																											

Flags: Monthly: Ave 5 1 257
Min Max

b = Bad Condition - Invalid Hour (9980)
C = Calibration - Valid Hour
c = Calibration - Invalid Hour (9995)
P = Power Failure - Valid Hour
p = Power Failure - Invalid Hour (9978)

Monthly Matrix SO2 (KN12)

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

Station/Facility: KN12
Parameter: SO2 (PPB) Sulfur Dioxide
Month/Year: Nov 2008

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	0	0	1	1	0	0	8	12	995c	19	11	16	7	2	1C	995c	5C	3	0	3	1	-1	-1	19
02	-1	-1	-1	-1	0	1	1	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	-1	1
03	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	2	995c	5P	5	4	3	4	3	7	5	2	1	0	9980b	9980b	0	7
04	1	2	5	7	11	20	21	26	42	36	995c	32	33	995c	29	38	33	20	13	14	17	16	14	21	1	42
05	16	17	16	13	11	10	10	10	16	22	995c	32	33	40	40	39	38	38	36	47	43	38	28	21	10	47
06	12	10	7	8	7	8	8	9	11	8	995c	21	10	16	58	57	52	22	24	17	10	7	5	3	3	58
07	4	3	2	1	1	1	1	1	3	4	995c	5	3	7	11	10	9	12	9	18	19	23	21	19	1	23
08	18	16	9	6	4	7	6	5	9	12	995c	13	11	11	8	6	6	7	3	0	1	3	6	7	0	18
09	9	13	16	16	10	8	6	6	13	17	995c	13	10	9	8	7	6	5	3	2	5	8	8	4	2	17
10	4	5	3	4	5	9	12	10	11	13	995c	13	11	10	10	15	10	8	6	4	1	2	5	8	1	15
11	11	13	14	11	8	6	8	7P	9	14	995c	11	12	995c	13	6	6	5	3	3	2	2	2	2	2	14
12	2	3	4	3	2	1	1	1	3	5	995c	21	18	22	17	14	15	12	10	10	8	5	3	3	1	22
13	2	2	6	12	12	10	10	10	11	11	995c	7	5	4	2	1	1	1	0	0	-1	-1	-1	9980b	-1	12
14	-1	-1	-1	0	1	1	4	4	2	0	995c	4	3	2	3	1	1	1	0	0	0	0	-1	-1	-1	4
15	-1	-1	-1	-1	-1	-1	-1	-1	3	6	995c	4	2	2	2	9	16	17	8	4	3	4	2	1	-1	17
16	2	1	1	0	2	2	2	2P	34	48	995c	9	5	4	3	3	6	10	10	7	5	4	3	1	0	48
17	1	1	1	2	2	2	3	3	4	4	995c	7	6	4	0	6	5	0	0	1	1	2	3	1	0	7
18	1	2	2	3	4	5	3	3	5	14	995c	11	9	995c	11	11	16	9	11	8	8	6	7	8	1	16
19	6	6	5	4	4	4	3	3	7	11	995c	15	13	11	10	7	1	1	0	0	1	1	2	5	0	15
20	6	2	4	1	1	1	1	1	2	1P	995c	995c	7C	7	16	15	13	12	6	3	2	1	9980b	9980b	1	16
21	2	2	2	4	5	6	12	11	5	7	995c	7	6	5	5	4	3	2	2	2	1	1	3	6	1	12
22	8	9	5	5	7	6	6	6	8	8	995c	8	5	3	4	5	3	2	1	2	3	7	13	13	1	13
23	8	7	13	14	18	9	6	7	13	18	995c	23	18	11	7	11	16	12	7	8	10	18	18	11	6	23
24	4	1	0	0	1	2	3	4P	12	15	995c	13	11	8	5	6	9	8	6	4	1	1	1	0	0	15
25	0	0	-1	0	0	-1	-1	-1	0	1	995c	7	6	995c	16	21	14	7	4	4	5	3	3	1	-1	21
26	0	1	2	1	2	3	1	1	3	5	995c	6	5	6	10	14	14	11	6	4	8	6	3	2	0	14
27	2	3	3	2	2	2	2	2	3	3	995c	9	11	13	15	17	16	15	11	4	3	4	5	7	2	17
28	3	2	2	2	3	2	2	2	3	5	995c	9	14	11	8	5	2	7	13	13	10	6	5	5	2	14
29	6	5	4	5	5	8	7	8	9	11	995c	16	48	44	19	30	23	9	24	57	67	49	38	50	4	67
30	77	32	34	54	66	50	31	26	20	28	995c	26	26	27	28	39	32	22	16	10	6	5	8	5	5	77
31																										

Flags: Monthly: 9 Ave -1 Min Max

- b = Bad Condition - Invalid Hour (9980)
- c = Calibration - Valid Hour
- c = Calibration - Invalid Hour (9995)
- P = Power Failure - Valid Hour
- p = Power Failure - Invalid Hour (9978)

Monthly Matrix SO2 (PA16)

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

Station/Facility: PA16
Parameter: SO2 (PPB) Sulfur Dioxide
Month/Year: Nov 2008

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	81	95	114	206	225	158	148	236P	314	310	93	49	9995c	6	3	2	4	10	16C	9995c	77C	114	65	70	2	314	
02	89	84	68	62	104	294	301	211P	84	62	65	39	9995c	3	4	1	2	5	23	35	42	30	41	40	1	301	
03	34	61	70	112	269	374	440	202P	44	72	51	3	9995c	2	1	1	1	1	4	29	84	48	45	276	1	440	
04	171	234	95	35	28	44	28	161P	160	24	24	14	9995c	2	1C	0C	0	1	1	1	2	2	3	6	0	234	
05	10	27	39	43	34	30	19	36P	85	62	23	8	9995c	1	0	0	0	0	0	0	0	6	18	42	0	85	
06	76	100	263	413	293	426	616	640P	237	68	21	5	9995c	3	2	2	2	9	15	28	52	69	125	255	2	640	
07	387	485	576	412	459	455	571	520P	191	45	8	4	9995c	2	3	3	3	5	54	83	177	254	304	133	2	576	
08	48	38	56	66	61	91	436	532P	784	100	4	6	9995c	9	9	8	21	106	85	30	201	434	674	241	4	784	
09	191	13	56	71	50	42	51	60P	3	30	23	23	9995c	2	1	1	1	9	28	114	230	122	178	77	1	230	
10	50	298	452	483	288	321	374	175P	38	69	15	3	9995c	2	3	6	8	14	61	83	62	60	43	83	2	483	
11	39	34	44	165	187	93	30	112P	209	31	49	5	9995c	2	1C	1C	1	8	19	93	206	96	90	59	1	209	
12	95	45	59	49	18	28	44	94P	48	18	26	4	9995c	2	1	0	0	0	0	0	5	19	8	1	0	95	
13	0	0	0	0	0	0	0	0P	0	0	0	0	9995c	9979d	9979d	9979d	2	1	0	0	0	0	0	0	0	2	
14	0	0	0	0	0	0	2	3P	3	1	0	0	9995c	0	0	0	0	0	0	0	0	0	7	140	0	140	
15	134	141	116	220	154	123	88	72P	110	38	34	11	9995c	4	2	3	1	0	1	1	0	1	10	28	0	220	
16	374	375	259	146	121	73	58	98P	106	122	89	57	9995c	3	2	1	1	3	4	13	57	52	74	127	1	375	
17	82	84	88	85	91	85	91	81P	93	139	145	86	9995c	22	32	22	24	36	63	131	106	49	89	145	22	145	
18	91	109	79	65	39	36	53	43P	82	101	110	43	9995c	40	61C	0C	0	0	1	52	12	22	8	9980b	0	110	
19	76	79	59	49	43	42	86	132P	163	133	85	9978P	14P	19	12	165	53	14	41	29	34	106	150	74	12	165	
20	54	67	165	123	201	164	202	296P	234	43	49	25	9995c	2	1	1	1	1	1	2	7	6	17	19	1	296	
21	36	62	60	39	30	14	8	6P	16	6	1	0	9995c	1	0	0	0	0	0	0	0	1	2	9980b	0	62	
22	38	40	29	35	42	40	21	37P	49	14	1	0	9995c	1	0	2	4	1	3	7	15	52	78	56	0	78	
23	56	53	34	71	33	22	52	76P	164	159	67	31	9995c	14	37	86	52	176	402	16	5	37	242	93	5	402	
24	129	75	23	18	239	267	27	56P	39	62	6	37	9995c	13	10	24	47	30	139	108	76	9980b	9980b	9980b	6	267	
25	269	278	83	294	389	288	199	88P	38	822	62	41	9995c	5	4C	4C	4	9	45	120	147	135	103	239	4	822	
26	48	81	101	178	62	147	32	44P	118	10	25	42	9995c	52	33	6	56	44	609	845	543	61	112	60	6	845	
27	107	84	85	97	42	45	195	243P	211	121	49	32	9995c	4	2	1	1	1	2	110	74	14	11	5	1	243	
28	12	77	129	686	996	1000	1000	1000P	890	89	9995c	9995c	9995c	5	3	3	2	2	2	1	2	3	5	14	1	1000	
29	26	52	58	67	122	111	47	67P	105	274	108	56	9995c	5	55	59	14	23	54	63	35	19	54	91	5	274	
30	127	147	122	168	244	179	153	102P	143	141	27	38	9995c	3	1	1	0	0	1	1	1	0	0	0	0	244	
31																											

Flags: Monthly: 87 Ave Min Max

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

Monthly Matrix SO2 (MV17)

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

Station/Facility: MV17
Parameter: SO2 (PPB) Sulfur Dioxide
Month/Year: Nov 2008

Day	HOUR BEGINNING (Local Standard Time)																														23	22	21	20	19	18	17	16	15	14	13	12	11	10	09	08	07	06	05	04	03	02	01	00	Max
	Min	Ave	Max																																																				
01	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	-1	-1	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	-1	-1	0																					
02	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0	-1	-1	0	0	0	0	0	0	0	-1	-1	0	0	0	0	0	0	0	-1	-1	0																					
03	-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	-1	-1	-1	-1	-1	-1	-1	0																					
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	-1	-1	-1	-1	-1	-1	-1	0																					
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	-1	-1	-1	-1	-1	-1	-1	0																					
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	-1	-1	-1	-1	-1	-1	-1	0																					
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	-1	-1	-1	-1	-1	-1	-1	0																					
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	-1	-1	-1	-1	-1	-1	-1	4																					
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	-1	-1	-1	-1	-1	-1	-1	-1																					
10	-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	-1	-1	-1	-1	-1	-1	-1	2																					
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	-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	-1	-1	-1	-1	-1	-1	-1	26																					
13	29	23	39	89	32	19	9	6	3	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	89																						
14	27	15	16	20	27	15	6	8	6	8	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	6	72																						
15	10	51	156	36	60	171	140	119P	167	995C	7C	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	171																						
16	0	0	0	0	0	0	-1	-1P	-1	995C	1C	3	0	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	3																					
17	-1	-1	-1	-1	-1	-1	-1	-1P	-1	995C	1C	3	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3																					
18	-1	-1	-1	-1	-1	-1	-1	-1P	-1	995C	1C	1	0	-1	-1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	11																					
19	-1	-1	-1	-1	-1	-1	-1	-1P	-1	995C	1C	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	11																					
20	-1	-1	-1	-1	-1	-1	-1	-1P	-1	995C	1C	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	16																					
21	34	8	31	75	33	110	23	24P	12	995C	2C	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	28																					
22	8	19	19	26	279	670	284	214P	37	995C	4C	2	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	72																					
23	-1	-1	-1	-1	-1	-1	-1	-1P	-1	995C	0C	4	1	1	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0																				
24	-1	-1	-1	-1	-1	-1	-1	-1P	-1	995C	1C	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0																					
25	-1	-1	-1	-1	-1	-1	-1	-1P	-1	995C	0C	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0																					
26	-1	-1	-1	-1	-1	-1	-1	-1P	-1	995C	0C	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0																					
27	-1	-1	-1	-1	-1	-1	-1	-1P	-1	995C	1C	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0																					
28	-1	-1	-1	-1	-1	-2	-1	-1P	-1	995C	0C	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0																					
29	-1	-1	-1	-1	-1	-1	-1	-1P	-1	995C	1C	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0																					
30	-1	-1	-1	-1	-1	-1	-1	-1P	-1	995C	0C	0	0	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	-1	0																					
31																																																							

Flags: Monthly: Ave 5 -2 Min Max
 b = Bad Condition - Invalid Hour (9980)
 C = Calibration - Valid Hour
 c = Calibration - Invalid Hour (9995)
 P = Power Failure - Valid Hour

Monthly Matrix SO2 (PE10)

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

Station/Facility: PE10
Parameter: SO2 (PPB) Sulfur Dioxide
Month/Year: Nov 2008

		HOUR BEGINNING (Local Standard Time)																								Min	Max
Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	
01	2	2	2	2	2	2	2	2	9978p	2	2	9978p	2	2	2	2	9995c	9995c	2	2	2	2	9978p	2	2	2	2
02	9978p	2	2	2	2	2	2	2	9995c	2	2	2	9978p	2	2	2	2	2	2	2	2	2	2	2	2	2	2
03	2	2	2	2	2	2	2	2	9995c	9978p	2	2	2	2	2	2	9978p	2	2	2	2	2	2	2	2	2	2
04	2	2	2	9978p	9978p	2	2	2	9995c	9995c	9978p	2	2	9978p	9978p	2	2	2	2	2	2	2	9978p	2	2	2	2
05	2	2	2	9978p	2	2	2	2	9978p	9995c	2	2	2	2	2	2	2	2	2	2	2	2	9978p	2	2	2	2
06	2	2	9978p	2	2	2	2	2	9978p	2	2	9995c	9995c	2	2	9978p	2	2	2	2	9978p	2	2	2	2	2	2
07	2	2	2	9978p	2	9978p	2	2	9995c	2	2	9995c	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
08	2	9978p	2	9978p	2	2	2	2	9995c	9978p	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
09	2	2	2	9978p	2	2	2	2	9995c	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
10	2	2	2	2	2	2	2	2	9995c	2	2	2	2	2	2	2	9978p	2	2	2	2	2	2	2	2	2	2
11	9978p	2	2	9978p	2	9978p	2	2	9995c	9978p	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
12	2	2	2	2	2	2	2	2	9995c	2	2	2	9978p	9978p	2	2	2	2	2	2	2	2	2	2	9978p	9978p	2
13	2	2	2	2	2	2	2	9978p	2	9995c	2	2	2	9978p	2	2	2	2	2	2	2	2	2	2	2	9978p	2
14	2	2	2	2	2	2	2	2	9978p	2	2	2	2	2	2	9978p	2	2	2	2	2	2	2	2	9978p	9978p	2
15	2	2	9978p	2	2	2	2	2	9995c	2	2	9978p	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
16	2	2	2	9978p	2	2	2	2	9995c	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
17	2	9978p	9978p	2	2	2	2	2	9995c	2	2	2	2	9978p	2	2	2	2	2	2	2	2	2	2	2	2	2
18	2	2	2	9978p	2	2	2	2	9978p	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
19	2	9978p	2	9978p	2	2	9978p	2	9995c	9978p	2	2	2	2	2	2	9978p	9978p	2	9978p	2	2	2	2	2	2	2
20	9978p	2	2	9978p	2	2	9978p	2	9995c	9978p	9979d	9979d	9979d	9979d	9979d	9979d	9979d	9979d	9979d	9979d	9979d	9978p	9978p	9980b	9980b	2	2
21	9979d	9979d	9979d	9979d	9979d	9979d	9979d	9978p	9995c	2	2	9978p	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
22	2	2	2	2	2	2	2	2	9995c	2	2	9978p	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
23	9978p	2	2	2	2	2	2	2	9995c	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
24	2	2	2	2	2	2	2	2	9978p	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
25	2	9978p	2	2	9978p	2	2	2	9995c	9995c	9995c	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
26	9979d	9979d	9979d	9979d	9979d	9979d	9979d	9978p	9995c	9979d	9978p	9979d	9979d	9979d	9979d	9979d	9979d	9979d	9979d	9979d	9978p	9978p	9979d	9978p	9978p	9980b	2
27	9979d	9979d	9979d	9979d	9979d	9979d	9979d	9979d	9995c	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
28	2	2	2	2	2	2	2	2	9995c	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
29	2	9978p	2	2	9978p	2	9978p	2	9995c	2	2	2	2	2	2	2	9978p	2	2	2	2	2	2	2	2	2	2
30	2	2	2	2	2	2	2	2	9995c	2	9978p	9978p	2	2	2	2	2	2	2	2	2	2	2	2	2	2	2
31																											

Flags:

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

Monthly: Ave Min Max

Monthly Matrix PM2.5 (HL11)

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

Station/Facility: HL11
 Parameter: PM2.5 (ug/m3) Particulate Matter 2.5 ug/m3
 Month/Year: Nov 2008

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	5	4	4	5	3	4	5	3	3	5	2	-1	2	4	3	1	4	6	1	1	3	2	2	-1	6	
02	2	1	0	2	3	1	2	4	1	2	4	4	5	5	4	4	4	2	2	3	3	1	4	3	0	5	
03	5	5	5	5	5	3	2	4	3	4	3	2	3	4	6	5	5	5	5	3	7	4	4	5	2	7	
04	2	2	4	4	3	5	3	1	2	2	6	4	5	9	5	3	5	3	3	4	4	5	3	5	1	9	
05	6	6	19	6	7	10	11	8	5	3	6	9	5	5	7	7	6	5	6	6	4	4	7	7	3	19	
06	5	5	9978p	9978p	9978p	9978p	9978p	5	4	2	4	6	3	2	2	2	3	3	5	6	5	3	1	2	1	6	
07	2	1	3	2	4	5	6	6	5	2	2	3	2	1	1	2	2	3	6	5	3	2	5	7	1	7	
08	5	3	2	3	0	0	4	3	3	3	3	7	6	3	6	6	4	4	3	6	8	5	2	3	0	8	
09	4	3	4	4	5	4	2	4	7	5	3	4	5	4	2	4	4	3	5	6	5	6	7	5	2	7	
10	4	1	-1	1	3	4	8	6	1	5	4	1	3	5	3	3	3	4	2	1	2	4	3	3	-1	8	
11	5	4	4	4	2	2	1	1	3	4	5	5	5	8	11	9	7	7	8	7	6	7	8	5	1	11	
12	6	6	4	6	5	3	4	7	8	5	4	6	5	5	2	-1	3	4	2	5	5	2	3	2	-1	8	
13	2	7	20	7	10	10	6	16	9	17	12	7	21	2	4	5	5	6	5	5	6	7	10	23	2	23	
14	21	28	13	12	9	11	23	18	16	41	21	3	6	8	8	5	3	5	8	8	7	4	2	34	2	41	
15	44	32	21	16	14	13	18	9978p	9978p	9978p	19	27	7	9	7	5	4	6	8	6	7	7	6	8	4	44	
16	9	10	12	12	9	7	0P	7	6	5	5	5	5	4	3	4	3	2	1	1	4	5	8	9	0	12	
17	8	8	8	5	6	6	6	6	5	4	5	4	4	3	3	2	1	2	2	2	4	5	5	5	1	8	
18	3	3	2	2	2	2	4	5	4	4	3	0	9978p	4	1	1	0	1	1	9978p	9978p	9978p	9978p	9978p	0	5	
19	9978p	9978p	9978p	9978p	9978p	9978p	9978p	3	3	2	6	7	6	5	3	4	5	3	3	4	4	3	2	1	1	7	
20	1	3	5	4	2	3	4	1	0	1	1	4	3	4	3	2	5	5	5	4	3	4	4	9980b	0	5	
21	88	32	11	10	30	38	26	20	28	25	12	10	6	7	9	6	7	9	7	4	5	8	19	29	4	88	
22	36	24	27	33	27	61	49	56	69	54	17	6	6	7	7	6	6	6	6	4	5	5	4	7	4	69	
23	7	5	5	5	5	4	7	8	5	4	6	5	4	8	7	4	4	3	2	4	6	9978p	9978p	9978p	2	8	
24	9978p	9978p	9978p	9978p	9978p	9978p	9978p	1	5	7	5	7	8	7	6	8	7	4	3	4	4	6	6	9	1	9	
25	6	3	2	3	7	7	6	6	6	4	5	7	5	7	10	5	1	5	6	6	6	5	6	5	1	10	
26	5	4	4	6	6	5	5	5	2	1	4	2	0	3	4	3	5	6	6	6	6	5	3	4	0	6	
27	3	1	3	3	3	4	4	2	2	0	1	4	7	7	5	6	5	4	7	8	8	8	7	6	0	8	
28	7	6	2	7	13	10	7	7	6	4	4	5	6	6	6	3	1	2	5	4	2	3	6	6	1	13	
29	4	5	18	16	8	7	7	6	5	5	5	4	4	5	7	4	3	4	2	5	6	4	4	2	2	18	
30	3	5	2	2	5	2	-1	0	1	3	5	5	4	4	5	5	5	6	5	5	5	4	4	3	-1	6	
31																											

Flags: Monthly: 6 Ave -1 Min Max
 b = Bad Condition - Invalid Hour (9980)
 P = Power Failure - Invalid Hour
 p = Power Failure - Invalid Hour (9978)

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 2008**

Day	HOUR BEGINNING (Local Standard Time)																								Min	Max
	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23		
01	5	7	9	11	11	9	9	12	11	16	18	20	21	12	19	8	10	10	11	10	11	7	11	10	5	21
02	3	2	7	19	20	19	19	16	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	2	20
03	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	0P	21	29	0P	25	0	19	24	17	23	25	20	22	22	9980b	9980b	0	29
04	22	29	24	31	17	21	25	20	19	30	28	30	28	30	28	28	21	21	20	17	16	22	24	19	16	31
05	27	29	28	24	23	17	16	19	13	17	24	32	32	32	33	35	36	38	33	35	34	30	39	37	13	39
06	37	33	38	34	34	27	27	21	25	26	23	15	28	17	23	31	34	40	30	33	28	25	18	20	15	40
07	19	19	24	13	19	19	14	13	17	18	18	18	24	10	10	16	17	14	18	20	26	34	31	34	10	34
08	29	30	28	26	18	23	21	24	17	28	31	27	23	20	23	19	21	21	21	17	18	16	15	25	15	31
09	23	24	23	34	26	19	18	15	19	24	31	28	29	21	24	20	19	22	19	20	18	24	25	15	34	
10	29	31	27	22	22	16	18	21	12	17	24	20	26	19	17	19	22	10	13	15	15	15	18	22	10	31
11	20	20	17	18	18	17	14	11	12	14	23	23	21	19	17	17	17	17	17	18	15	14	14	11	23	
12	14	16	16	16	18	20	17	15	17	22	18	20	23	17	18	15	18	25	21	19	22	19	21	14	14	25
13	16	14	14	16	19	20	17	14	12	26	24	26	25	18	19	15	14	13	10	6	7	9	9	9980b	6	26
14	11	11	9	9	10	8	11	16	13	14	14	13	19	12	10	9	9	12	13	16	11	10	11	19	8	19
15	18	14	13	12	10	9	10	8	7	20	14	17	16	17	19	21	32	38	44	35	25	26	31	53	7	53
16	47	32	29	33	21	24	18	12	19	39	38	31	26	20	19	21	21	25	25	25	22	26	26	23	12	47
17	20	20	19	20	22	24	20	23	20	22	31	20	18	21	14	11	23	13	9	6	8	17	16	17	6	24
18	12	10	20	15	19	19	23	20	12	24	31	25	26	24	18	24	23	25	19	24	30	29	26	31	10	31
19	34	29	31	25	20	20	16	14	12	20	14	19	19	19	24	23	27	12	14	14	13	13	21	12	34	
20	26	24	19	16	13	11	10	11	12	18	17	13	13	18	14	25	25	21	16	25	25	14	9980b	9980b	10	26
21	14	16	14	17	8	7	10	13	10	10	18	20	19	17	15	14	12	16	20	17	15	13	13	7	20	
22	18	13	14	13	17	13	11	12	15	16	21	22	16	17	11	11	12	10	10	12	13	14	19	18	10	22
23	24	17	12	18	20	15	19	17	15	19	17	21	16	16	18	12	12	19	17	19	17	18	20	23	12	24
24	24	8	7	8	9	11	14	14	14	17	19	22	22	15	18	15	18	18	15	15	17	8	11	22	7	24
25	17	15	15	13	13	13	13	13	14	16	19	20	20	16	15	22	22	13	14	13	13	18	16	15	13	22
26	13	17	14	18	13	13	13	14	14	18	19	22	21	23	22	23	27	23	32	19	19	25	22	23	13	27
27	18	19	22	20	20	18	24	16	22	18	20	21	25	26	33	31	25	27	32	22	25	28	23	29	16	33
28	33	26	27	28	23	27	24	21	19	22	25	28	28	28	27	19	17	19	23	22	30	30	29	24	17	33
29	23	29	29	22	20	18	26	21	23	23	34	33	29	23	25	20	26	22	17	32	41	39	34	32	17	41
30	34	40	26	25	25	28	22	20	19	26	26	23	27	22	27	20	34	23	22	23	23	22	29	32	19	40
31																										

Flags: Monthly: 20 Ave 0 Min Max
 b = Bad Condition - Invalid Hour (9980)
 P = Power Failure - Valid Hour
 p = Power Failure - Invalid Hour (9978)

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 2008

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

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	24	23	23	24	28	27	18	14	27	26	34	30	24	4	6	6	3	3	9	14	13	10	10	10	10	3	34					
02	8	9	10	7	7	9	29	28	20	10	10	32	19	15	11	8	7	7	9	21	17	20	14	20	7	32						
03	18	11	25	19	18	28	37	39	18	11	24	18	0	2	5	4	3	3	3	3	8	12	10	5	0	39						
04	10	10	11	10	6	7	9	9	10	13	11	10	10	10	7	5	3	1	4	9	10	9	7	8	1	13						
05	10	12	14	14	20	21	25	14	14	27	26	14	11	8	5	3	2	1	1	1	1	2	6	11	1	27						
06	27	29	21	39	48	28	34	36	31	8	23	14	8	5	5	3	1	3	7	10	13	22	18	22	1	48						
07	25	30	49	50	34	35	39	49	45	8	19	7	6	5	3	7	7	10	13	28	22	31	35	38	3	50						
08	20	10	9	10	13	10	7	49	60	66	-1	1	4	7	11	8	21	21	3	5	6	21	34	45	-1	66						
09	17	17	0	1	7	9	5	2	6	6	8	22	8	10	8	4	0	4	17	12	13	16	8	9	0	22						
10	6	5	24	33	39	31	59	40	26	16	40	7	6	6	8	10	11	18	18	30	38	25	15	15	5	59						
11	36	11	10	10	12	13	10	5	5	20	6	18	13	10	6	7	10	8	7	11	11	10	7	6	5	36						
12	6	5	9	34	25	6	3	3	6	11	16	13	5	1	3	3	1	1	0	-1	-2	-1	0	1	-2	34						
13	0	-3	1	1	-2	-1	-1	0	-1	0	2	2	-1	-2	0	1	3	3	1	-1	-1	1	0	-2	-3	3						
14	-3	-1	1	0	0	2	0	2	1	3	3	1	2	0	2	3	4	2	0	4	4	2	4	7	-3	7						
15	67	70	72	29	32	22	22	13	14	25	28	20	7	7	6	6	6	2	2	2	2	3	3	9	2	72						
16	16	61	60	50	36	28	14	14	16	32	51	38	27	7	6	5	3	3	6	9	12	20	17	27	3	61						
17	24	16	20	21	16	15	21	16	15	16	21	24	20	16	14	17	13	18	20	17	20	15	15	13	13	24						
18	11	10	8	10	11	7	3	3	8	12	12	21	18	23	11	7	2	1	2	3	5	6	3	9980b	1	23						
19	0	3	5	5	3	4	6	6	8	11	11	9978p	13	14	15	13	14	10	7	25	13	10	8	11	0	25						
20	11	6	7	21	13	22	12	14	27	17	4	22	9	6	4	2	1	3	3	3	7	21	13	14	1	27						
21	14	23	41	18	13	8	6	6	5	6	4	3	3	3	2	0	2	3	3	6	6	5	5	9980b	0	41						
22	8	9	9	7	6	8	17	10	7	6	8	6	4	6	5	3	21	15	13	11	12	16	20	17	3	21						
23	16	26	19	16	38	21	18	30	49	37	44	24	19	17	10	12	20	23	19	16	8	5	5	34	5	49						
24	9	10	5	0	2	17	11	10	5	6	21	4	17	18	12	22	20	13	10	12	22	9980b	9980b	0	22							
25	8	17	20	6	27	26	23	13	7	3	99	21	29	22	7	8	10	13	13	27	46	11	13	10	3	99						
26	18	5	8	8	6	6	4	7	8	8	5	5	12	17	21	18	15	38	19	47	38	24	5	6	4	47						
27	4	5	6	6	7	7	19	18	19	18	28	21	23	25	11	11	8	8	8	9	78	29	6	6	4	78						
28	6	6	10	18	82	121	119	147	252	229	26	21	13	8	3	2	2	0	3	6	4	3	5	8	0	252						
29	20	25	35	31	37	30	20	8	10	22	130	31	25	6	9	35	26	12	13	20	15	12	5	5	5	130						
30	9	10	11	13	16	22	25	17	22	58	35	20	22	6	5	4	3	2	3	2	-2	-1	1	2	-2	58						
31																																

Flags: Monthly: 15 Ave -3 252
 b = Bad Condition - Invalid Hour (9980)
 p = Power Failure - Invalid Hour (9978)

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 2008

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	7	7	5	3	3	6	7	6	6	5	3	5	4	5	8	8	5	4	6	5	5	3	2	9980b	2	8
02	5	5	6	8	8	7	6	3	2	3	5	6	7	8	7	6	4	4	6	6	6	4	7	7	2	8
03	3	3	3	4	7	8	6	5	3	3	4	5	3	3	6	8	7	8	6	7	9	3	3	4	3	9
04	3	3	6	5	6	9	7	6	6	3	6	8	5	5	6	6	5	3	3	2	2	5	5	5	2	9
05	4	4	4	3	4	3	4	6	7	5	6	9	6	4	6	7	5	3	8	7	3	3	4	5	3	9
06	6	3	5	8	6	6	8	8	8	6	8	8	6	8	9	7	6	7	6	4	6	7	6	6	3	9
07	8	10	8	5	3	4	4	7	9	9	7	5	2	3	5	6	7	8	9	7	5	6	6	6	2	10
08	6	5	5	6	6	7	7	6	3	5	10	10	7	7	9	10	10	9	9	8	6	5	8	9	3	10
09	7	8	10	10	8	7	9	6	5	6	7	7	6	4	4	6	8	9	7	6	7	8	6	7	4	10
10	9	6	3	0	3	6	9	10	19	11	10	6	6	9	10	6	6	7	5	6	4	5	6	3	0	19
11	3	6	5	2	3	6	6	6	7	6	6	7	8	9	7	9	12	8	8	7	5	7	9	7	2	12
12	9	9	7	6	6	8	8	10	12	9	19	3	5	5	3	3	4	7	7	6	5	6	9	6	3	19
13	4	33	14	24	33	26	10	9	6	5	4	7	46	15	27	15	9	7	7	5	5	9	13	12	4	46
14	10	13	14	20	9	12	13	9	10	45	6	6	6	6	6	8	8	9	7	8	10	11	22	45	6	45
15	27	24	34	78	36	46	91	79	58	85	28	13	14	12	8	8	9	9	8	6	4	8	6	4	4	91
16	5	5	11	14	11	9	8	8	9	8	7	7	11	10	6	5	7	7	3	3	2	5	6	6	2	14
17	9	13	11	8	9	10	9	9	9	5	3	5	6	4	7	9	6	6	7	8	7	6	9	9	3	13
18	9	9	7	6	7	7	5	6	7	6	7	5	5	4	5	6	4	3	2	5	7	7	6	6	2	9
19	6	4	4	7	6	5	5	5	6	3	3	6	7	5	5	6	6	6	4	4	7	8	6	4	3	8
20	7	8	6	8	7	6	5	4	3	5	5	6	6	7	7	6	5	5	6	6	4	4	10	47	3	47
21	112	52	23	46	86	40	85	19	26	14	10	9	9	11	10	8	8	9	10	10	10	7	9	10	7	112
22	21	20	31	23	36	248	429	207	115	34	9	11	11	7	6	9	9	8	9	10	11	10	8	9	6	429
23	7	7	7	7	6	3	5	9	7	6	6	6	9	12	12	17	9	8	8	10	7	5	7	6	3	17
24	4	6	7	8	10	8	6	7	8	9	11	12	11	9	9	10	10	9	8	9	6	5	8	9	4	12
25	6	6	8	9	7	5	6	10	11	7	9	10	10	11	9	8	7	7	6	5	7	11	10	9	5	11
26	8	6	5	5	5	6	7	7	6	6	4	1	3	6	6	6	7	9	8	6	6	7	7	6	1	9
27	6	6	6	6	6	6	7	10	8	6	6	11	10	9	8	9	10	9	8	8	10	11	9	8	6	11
28	6	6	7	7	8	9	8	6	6	9	9	7	8	11	9	5	4	6	7	5	5	8	6	3	3	11
29	2	4	7	3	4	9	6	7	7	6	5	3	3	6	10	9	9	9	7	9	10	8	3	4	2	10
30	8	6	5	5	5	6	6	6	6	6	8	8	7	8	9	10	8	6	7	8	9	6	6	12	5	12
31																										

Flags: Monthly: 10 Ave 0 429
 b = Bad Condition - Invalid Hour (9980)

Wind Direction (HL11)

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

Station/Facility: HL11
Parameter: WD (DEG) Wind Direction
Month/Year: Nov 2008

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	269	300	273	259	263	260	258	264P	299	239	98	60	60	75	65	57	53	297	293	243	280	273	269	250
02	272	270	259	258	273	264	260	256P	271	358	21	69	52	56	56	73	64	39	171	171	264	270	267	254
03	260	262	260	262	263	262	258	253P	279	357	288	256	133	260	274	161	211	185	274	225	244	261	265	261
04	256	249	254	263	264	260	262	263P	250	169	126	122	138	117	131	124	130	186	177	239	247	261	264	267
05	222	269	260	262	263	267	266	257P	245	124	50	39	9	90	94	105	120	119	129	245	281	260	258	256
06	256	258	9978p	9978p	9978p	9978p	9978p	260P	228	69	70	80	55	58	65	56	43	322	268	264	260	258	257	258
07	258	262	255	258	260	262	256	260P	232	82	40	74	104	121	145	287	125	154	261	265	264	265	229	261
08	273	267	265	264	260	260	261	256P	249	62	113	76	76	106	135	111	211	285	274	261	264	262	268	263
09	261	265	278	262	256	269	264	261P	259	106	71	62	75	66	97	105	125	206	261	262	245	245	240	218
10	250	249	249	231	227	244	258	255P	180	179	141	273	99	94	87	100	102	121	214	267	276	256	242	264
11	257	261	261	258	260	255	262	271P	263	218	155	137	135	113	113	127	126	147	241	259	260	249	251	266
12	263	260	256	253	256	248	223	244P	183	148	130	135	141	168	207	227	229	258	251	246	250	233	252	256
13	243	219	253	242	244	255	267	263P	274	167	146	114	122	118	117	136	160	144	202	261	265	260	263	259
14	259	263	249	262	262	265	257	238P	211	131	119	107	110	100	105	96	85	131	209	258	256	259	250	252
15	253	257	260	262	259	262	257	9978p	9978p	9978p	103	95	95	85	55	48	94	123	259	260	262	267	264	260
16	262	259	262	260	263	261	262P	268P	138	81	63	70	67	61	57	52	58	343	286	273	271	272	282	273
17	284	281	280	282	297	272	285	268P	28	44	41	63	54	58	40	26	15	330	307	293	279	277	273	272
18	268	259	266	263	270	264	262	269P	344	347	338	35	9978p	346P	261	328	350	275	242	9978p	9978p	9978p	9978p	9978p
19	9978p	9978p	9978p	9978p	9978p	9978p	9978p	305P	4	61	75	68	69	69	64	54P	11	273	265	261	263	263	261	264
20	264	264	266	259	261	258	261	259P	252	227	126	163	114	121	117	119	124	212	260	257	257	251	9980b	9980b
21	256	253	257	252	256	251	246	252P	208	168	156	136	117	117	114	117	123	144	167	237	240	240	253	251
22	254	255	256	255	254	257	260	252P	245	206	172	158	136	93	66	94	276	264	266	266	262	262	260	265
23	262	265	261	260	257	262	263	269P	263	214	49	39	8	37	72	61	264	275	277	268	264	9978p	9978p	9978p
24	9978p	9978p	9978p	9978p	9978p	9978p	9978p	264P	248	90	84	48	79	56	36	52	55	86	262	258	262	260	262	261
25	292	284	272	260	251	283	271	273P	242	260	55	59	90	249	255	263	165	260	262	261	264	264	267	264
26	253	259	268	266	260	272	270	256P	269	304	306	241	258	250	274	259	283	269	264	261	263	258	259	258
27	262	257	260	268	265	267	266	258P	232	216	258	113	128	126	126	125	132	208	266	258	255	251	261	266
28	267	261	261	263	254	262	257	257P	238	134	120	119	107	116	131	155	159	253	259	260	263	261	264	259
29	263	259	259	260	259	257	261	261P	261	98	68	60	56	56	61	43	6	302	244	277	266	260	262	260
30	264	261	226	246	261	261	258	257P	252	151	106	106	83	94	103	100	112	311	268	262	250	264	263	254
31																								

Flags: Monthly Ave: 209

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

Wind Direction (KN12)

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

Station/Facility: KN12
Parameter: WD (DEG) Wind Direction
Month/Year: Nov 2008

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	74	72	72	76	80	76	69	64	274	261	272	275	262	269	254	230	205	269	297	6	51	126	18	74
02	73	66	72	78	77	78	71	74	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p
03	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	190	214	228P	228P	223	257P	259	306	311	353	358	62	72	70	9980b	9980b
04	91	86	75	74	76	73	72	72	37	271	283	278	308	307	305	311	318	340	59	65	71	67	73	77
05	93	87	83	79	72	76	77	78	123	212	235	255	263	273	267	300	330	345	10	35	33	38	103	96
06	64	65	74	80	85	84	84	91	140	207	231	238	273	280	277	4	18	29	52	64	60	61	76	81
07	76	87	77	82	70	75	79	76	161	269	254	257	268	265	271	283	301	274	55	70	77	59	67	74
08	69	75	73	80	82	77	73	71	323	287	281	279	283	277	271	262	233	256	95	80	77	78	71	72
09	76	75	74	73	74	78	82	82	156	261	260	269	259	297	299	285	275	243	65	82	75	68	70	57
10	69	68	82	74	73	74	75	78	149	220	220	255	274	291	294	310	310	339	44	69	83	84	85	80
11	77	67	73	74	73	70	70	74P	125	238	257	271	282	305	353	20	21	43	55	64	90	84	85	75
12	75	38	39	59	70	64	73	71	60	332	312	290	299	312	335	357	34	14	43	59	70	75	82	76
13	82	78	78	61	72	69	76	78	38	220	261	279	313	306	311	349	298	266	236	136	98	76	95	9980b
14	77	77	76	70	69	70	72	81	188	295	310	297	287	285	286	285	308	317	294	189	166	112	87	78
15	74	55	85	82	79	76	84	79	125	221	239	260	249	251	255	262	237	233	104	93	97	105	85	73
16	77	76	77	65	78	62	74	69P	337	312	303	296	289	243	237	165	191	165	232	49	72	70	70	70
17	70	74	81	89	84	80	80	80	153	194	204	226	212	258	233	237	220	211	128	64	99	106	80	77
18	73	72	72	69	73	71	71	73	91	256	282	276	273	235	191	147	185	155	110	92	93	78	72	74
19	68	76	79	78	74	71	85	87	121	171	213	255	250	293	317	308	22	46	84	100	97	89	87	82
20	77	83	69	71	75	72	73	75	127	197P	222	218	281	287	296	315	315	350	40	52	80	80	9980b	9980b
21	82	78	80	77	72	70	63	70	44	212	310	284	291	298	289	293	293	6	54	62	76	70	66	69
22	73	51	83	84	82	72	73	69	19	299	8	315	323	322	325	84	131	106	72	86	95	107	113	107
23	70	46	49	31	59	61	85	88	100	113	215	221	266	276	308	318	325	93	123	106	91	96	121	114
24	130	114	86	80	75	73	68	67P	337	312	293	277	266	291	290	279	272	276	315	75	83	86	85	75
25	73	55	61	78	77	82	80	83	122	213	248	242	280	288	292	311	331	6	42	37	65	64	69	71
26	73	72	73	68	68	72	72	71	43	290	274	272	265	273	305	314	312	340	40	65	66	72	75	66
27	70	72	73	73	70	73	71	73	43	297	299	285	290	286	291	323	9	294	80	80	81	75	73	70
28	60	57	54	67	71	73	69	67	127	253	262	275	252	283	278	296	358	58	63	71	66	81	76	75
29	71	71	78	77	72	70	66	68	103	169	205	215	223	237	272	281	249	156	98	80	69	75	74	77
30	76	80	85	82	77	74	69	69	9	293	300	285	295	301	290	279	295	321	17	85	58	89	85	89
31																								

Flags: Monthly Ave: 147

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

Wind Direction (PA16)

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

Station/Facility: PA16
Parameter: WD (DEG) Wind Direction
Month/Year: Nov 2008

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	323	325	331	320	328	317	310	244P	183	116	108	104	115	126	127	118	140	248	190	200	252	280	296	309	
02	323	300	320	316	318	323	320	290P	155	158	100	105	108	108	101	120	99	92	191	219	265	315	311	296	
03	289	296	304	322	326	324	324	145P	105	95	101	92	93	92	80	65	60	150	223	319	335	276	178	82	
04	105	76	87	102	209	198	225	125P	72	76	88	91	93	91	93	98	90	77	65	110	101	233	65	123	
05	50	154	157	168	268	296	301	232P	132	101	105	104	105	102	101	112	106	74	290	104	190	295	292	321	
06	324	321	320	323	321	304	309	111P	77	136	111	102	97	105	105	103	109	211	265	282	295	312	313	311	
07	312	292	321	245	167	98	136	74P	80	96	90	93	91	99	94	83	82	98	168	262	273	305	229	130	
08	289	258	163	299	314	322	258	220P	112	95	90	97	98	99	103	99	134	86	52	132	240	160	207	203	
09	143	165	196	255	277	225	180	89P	84	93	100	101	95	101	99	93	95	79	148	164	95	70	60	57	
10	56	86	159	284	284	138	151	71P	82	96	93	100	101	104	97	85	119	119	143	137	95	65	69	120	
11	114	80	59	118	160	143	282	96P	87	92	97	92	95	97	86	82	84	84	105	76	131	147	184	61	
12	132	245	150	195	102	96	180	140P	130	94	97	88	89	87	70	101	130	161	147	131	164	202	185	310	
13	225	293	203	262	275	290	255	274P	299	259	235	284	234	261	128	126	252	247	327	307	284	328	312	309	
14	295	325	298	315	328	326	320	192P	81	103	118	124	125	129	124	115	100	96	86	120	276	269	314	257	
15	332	324	319	319	316	321	323	284P	77	100	114	135	128	124	134	134	146	119	182	296	135	278	80	303	
16	319	324	320	320	325	320	320	245P	59	119	120	132	132	144	166	224	261	292	310	309	317	303	324	321	
17	317	317	317	320	313	315	319	298P	202	191	199	177	113	205	236	247	243	262	274	248	244	283	283	289	
18	305	298	286	314	322	316	322	315P	212	199	162	108	124	108	85	54	70	57	176	229	251	286	291	291	
19	288	311	305	325	331	291	328	305P	204	193	97	9978P	97P	95	96	97	101	187	254	285	308	302	298	296	
20	287	303	294	299	302	311	314	315P	81	98	105	96	103	106	101	96	77	147	212	296	288	273	299	259	
21	251	238	233	297	247	331	214	228P	150	65	92	95	104	99	98	99	85	62	67	54	178	236	269	9980b	
22	323	320	320	329	331	312	303	205P	46	74	76	87	73	78	91	81	70	137	213	299	321	315	139	213	
23	69	84	260	218	115	233	274	277P	179	159	106	100	98	113	99	96	90	98	83	80	105	108	85	92	
24	164	154	245	183	137	188	226	222P	171	96	99	103	101	103	111	104	96	164	202	240	187	9980b	9980b	9980b	
25	237	260	311	309	278	311	281	110P	66	70	103	100	100	101	92	92	89	92	125	97	237	246	132	131	
26	224	178	154	275	168	124	68	98P	80	90	96	89	94	92	92	88	93	89	60	56	107	166	196	150	
27	120	80	109	119	72	191	144	108P	87	89	86	102	101	90	96	87	89	87	86	83	65	127	254	239	
28	318	297	331	310	318	318	269	312P	80	109	108	103	107	102	102	129	165	313	312	289	305	320	330	317	
29	320	321	292	324	320	320	327	304P	153	112	110	112	112	105	119	225	252	248	239	318	268	271	234	310	
30	318	284	294	289	326	324	310	264P	68	86	111	115	118	124	132	126	121	139	288	315	287	322	322	318	
31																									

Flags:

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

Monthly Ave: 186

Wind Direction (MV17)

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

Station/Facility: MV17
Parameter: WD (DEG) Wind Direction
Month/Year: Nov 2008

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	251	189	268	261	266	253	258	263P	190	234	209	73	99	92	85	103	65	133	244	272	272	265	274	9980b
02	269	269	261	251	248	268	254	247P	274	124	151	110	76	69	73	68	69	68	237	214	227	285	284	269
03	274	268	264	259	256	257	253	219P	260	245	275	73	179	118	115	88	206	56	118	138	263	254	246	240
04	250	245	246	254	245	257	253	256P	230	196	95	88	92	87	98	93	118	149	184	268	251	245	246	266
05	246	153	126	118	166	252	254	257P	214	132	98	72	73	73	82	69	73	94	239	191	276	275	248	246
06	252	253	254	265	256	256	251	250P	183	70	93	97	72	80	70	64	70	195	292	274	284	277	280	291
07	270	270	269	260	260	254	257	259P	172	63	71	69	111	90	98	75	81	116	276	269	255	268	199	258
08	280	276	265	271	277	275	267	267P	266	166	102	77	77	78	84	73	94	224	247	249	279	278	276	272
09	274	273	288	173	264	272	250	272P	263	157	127	76	99	89	74	74	80	207	275	258	261	249	251	240
10	257	250	252	227	254	236	251	244P	224	168	171	151	75	72	66	65	71	72	229	234	152	157	299	258
11	282	283	276	282	265	244	261	267P	268	210	106	91	102	86	84	80	84	113	304	303	280	261	273	249
12	260	259	255	253	256	253	243	238P	188	144	165	190	148	157	158	164	216	223	247	258	242	194	219	235
13	229	241	231	214	243	250	241	238P	248	148	184	150	137	131	131	128	163	170	196	188	245	226	232	242
14	229	239	226	230	227	233	226	228P	186	138	131	112	113	119	124	120	127	149	225	235	228	228	229	238
15	243	238	244	247	247	248	249	250P	220	151	100	85	72	61	66	62	56	97	296	257	244	245	255	247
16	249	246	248	247	247	251	252	254P	188	144	77	72	104	93	90	94	81	96	263	276	244	261	215	267
17	266	279	258	212	266	213	260	260P	276	134	91	89	124	80	75	90	105	129	206	263	268	268	251	263
18	267	263	253	259	251	266	248	254P	264	207	209	143	102	151	282	234	129	265	206	268	256	256	274	278
19	269	264	271	234	245	237	259	244P	245	157	67	75	69	70	67	80	59	247	305	287	285	275	271	265
20	265	255	241	254	258	253	259	256P	267	162	172	174	110	91	114	111	107	131	203	231	234	240	255	248
21	251	220	217	224	217	213	218	217P	174	129	130	120	120	118	124	126	132	130	185	215	225	231	242	244
22	233	245	231	243	239	233	246	236P	225	172	141	140	121	88	81	87	74	116	287	212	301	267	180	276
23	257	259	266	266	269	248	254	276P	232	194	65	61	77	137	113	76	208	270	279	273	241	220	266	272
24	274	271	259	234	285	296	283	289P	272	120	73	86	74	66	65	64	60	183	297	295	295	275	272	265
25	265	265	267	202	265	270	268	272P	281	234	113	74	72	73	69	69	77	170	288	295	236	290	278	282
26	246	277	277	268	276	235	235	247P	256	195	232	161	214	185	180	234	152	294	280	273	267	258	247	279
27	270	275	273	284	222	267	261	254P	201	240	211	93	128	102	94	91	100	127	247	229	257	256	262	251
28	263	261	255	242	252	259	256	253P	203	125	119	108	92	119	98	95	92	288	251	246	259	251	246	248
29	248	252	252	250	245	252	258	254P	228	90	74	123	70	70	95	153	113	224	233	274	259	258	250	246
30	256	257	201	240	256	250	233	242P	240	149	134	94	79	79	88	104	113	135	223	255	216	230	233	230
31																								

Flags: Monthly Ave: 201

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

Wind Speed (HL11)

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

Station/Facility: HL11
Parameter: WS (MPH) Wind Speed
Month/Year: Nov 2008

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	2.7	2.7	4.3	3.3	3.2	3.3	3.7	2.0P	2.3	2.0	3.7	4.7	5.2	5.0	5.3	4.0	2.4	2.1	2.5	2.4	3.9	3.5	2.8	3.3	2.0	5.3	
02	3.3	3.0	3.0	3.4	2.7	3.1	3.1	3.6P	3.5	2.0	2.2	2.2	3.7	4.7	4.6	4.7	3.6	1.7	1.5	2.4	2.8	2.7	2.9	2.7	1.5	4.7	
03	3.0	2.8	3.4	3.5	3.7	3.9	3.5	2.0P	2.7	2.7	2.4	2.4	2.9	2.9	2.3	1.7	0.9	0.6	1.8	1.5	2.4	2.7	2.9	3.4	0.6	3.9	
04	3.2	3.5	3.3	2.6	2.5	2.5	2.8	2.4P	2.1	2.1	5.3	4.7	3.2	4.6	4.0	4.3	2.9	2.4	2.2	2.3	2.8	2.6	1.9	1.9	1.9	5.3	
05	1.7	2.5	2.2	2.6	2.3	2.3	2.5	2.7P	2.1	2.5	3.3	2.8	2.6	4.1	4.2	4.2	3.2	2.1	1.1	1.2	1.1	1.7	2.6	3.4	1.1	4.2	
06	3.4	3.2	9978p	9978p	9978p	9978p	9978p	2.8P	2.0	2.3	4.8	5.2	5.0	4.9	4.6	4.2	2.6	1.9	2.5	2.5	2.3	3.0	3.5	3.5	1.9	5.2	
07	3.8	3.9	3.8	3.9	3.8	3.1	3.5	3.2P	1.7	2.7	3.9	3.9	3.7	3.8	2.1	2.0	2.2	1.5	1.9	2.2	2.7	3.2	2.5	3.2	1.5	3.9	
08	4.5	3.5	2.8	2.5	3.0	3.0	3.6	3.3P	2.0	2.0	2.2	4.5	4.7	3.8	3.3	3.4	1.6	1.6	2.5	2.5	3.0	3.4	3.4	2.9	1.6	4.7	
09	3.4	3.6	3.7	3.0	2.7	3.5	2.9	2.4P	1.5	1.7	2.9	4.4	3.2	3.8	4.9	4.6	3.0	2.0	2.7	2.3	3.7	3.8	3.2	2.2	1.5	4.9	
10	3.7	4.3	3.5	3.6	2.6	3.1	2.9	2.7P	2.4	2.9	4.9	2.2	4.6	5.0	5.8	3.9	5.0	2.9	1.9	2.4	2.3	2.7	3.3	3.3	1.9	5.8	
11	3.0	3.1	2.6	3.0	3.2	3.2	3.4	3.0P	4.3	2.8	2.7	3.6	4.9	5.0	5.0	4.1	3.8	2.1	1.6	1.7	2.1	2.9	3.1	2.7	1.6	5.0	
12	3.1	3.6	3.9	5.1	5.1	4.3	2.4	1.6P	1.9	3.2	5.5	5.1	4.5	3.1	3.4	2.7	2.1	2.3	2.5	3.0	2.7	2.8	2.4	2.9	1.6	5.5	
13	2.4	1.6	2.1	3.2	2.5	3.8	2.9	3.3P	1.9	2.2	3.3	5.0	6.9	6.3	6.6	4.3	3.0	1.7	1.2	1.6	2.0	2.0	1.9	2.2	1.2	6.9	
14	2.2	2.5	2.9	2.9	3.1	2.8	2.7	2.8P	2.2	3.7	4.7	5.5	6.0	6.3	6.0	4.4	2.7	1.3	1.0	1.9	2.0	2.2	2.9	3.0	1.0	6.3	
15	3.4	3.6	2.8	3.2	3.6	3.5	3.8	9978p	9978p	9978p	9978p	4.7	5.2	4.3	3.5	2.0	1.8	1.3	1.6	1.9	2.4	2.5	2.6	2.9	1.3	5.2	
16	2.9	2.9	3.1	3.7	3.4	3.6	3.6P	2.9P	2.1	3.6	5.0	6.6	6.1	4.4	4.6	3.4	2.9	1.9	2.5	2.7	2.8	2.8	3.3	3.5	1.9	6.6	
17	5.3	4.4	4.3	4.7	3.7	3.8	3.6	2.6P	1.6	2.2	3.8	4.8	5.7	5.4	4.6	3.6	3.3	3.4	3.4	3.6	3.8	4.6	3.6	4.1	1.6	5.7	
18	3.4	3.4	2.9	3.2	3.2	2.8	2.6	2.5P	2.6	3.1	5.0	5.0	9978p	6.5P	3.2	3.8	3.1	2.3	3.4	9978p	9978p	9978p	9978p	9978p	2.3	6.5	
19	9978p	9978p	9978p	9978p	9978p	9978p	9978p	5.0P	4.5	4.3	6.5	6.0	6.5	6.6	5.6	3.4P	2.4	1.9	2.4	2.7	3.2	3.0	3.6	3.7	1.9	6.6	
20	4.3	3.8	3.3	4.2	3.8	3.9	3.6	3.3P	2.9	1.7	3.6	3.4	3.7	4.8	5.0	4.4	2.7	1.2	2.2	2.1	2.8	3.1	9980b	9980b	1.2	5.0	
21	3.0	3.5	2.5	1.8	2.6	2.8	2.5	2.7P	2.4	3.6	4.3	4.9	6.3	6.5	5.6	5.7	4.8	3.2	2.1	1.9	2.0	2.7	2.7	3.0	1.8	6.5	
22	3.4	3.1	3.6	3.7	4.0	3.3	2.9	2.7P	2.7	2.5	2.3	1.9	2.2	2.5	3.7	2.3	2.1	2.0	2.1	2.0	1.9	2.2	1.9	2.1	1.9	4.0	
23	2.2	2.2	2.3	2.2	2.3	2.3	2.7	2.2P	3.0	1.7	2.4	1.7	1.4	1.7	3.3	4.6	3.3	3.4	3.5	3.2	2.1	9978p	9978p	9978p	1.4	4.6	
24	9978p	9978p	9978p	9978p	9978p	9978p	9978p	3.0P	1.5	2.2	3.4	3.6	3.4	5.3	2.9	3.6	3.8	1.8	2.6	2.7	3.0	3.7	3.5	3.7	1.5	5.3	
25	4.2	4.2	2.6	2.5	2.7	3.7	4.1	3.2P	2.4	2.9	1.8	3.3	4.3	3.0	2.9	2.5	1.9	2.3	2.6	2.8	2.5	2.8	2.7	2.6	1.8	4.3	
26	3.2	3.7	3.6	3.4	3.2	2.0	3.4	3.2P	3.3	1.7	3.0	3.7	3.9	3.0	4.4	3.5	3.3	3.1	2.8	3.1	3.1	3.0	3.0	3.8	1.7	4.4	
27	3.7	3.5	4.4	4.1	2.9	3.4	3.5	3.6P	2.6	1.8	1.5	4.9	4.3	5.0	4.3	3.5	3.3	1.2	1.9	2.4	2.3	2.1	2.0	2.5	1.2	5.0	
28	2.3	2.8	4.2	3.3	4.7	3.5	3.9	4.0P	2.7	3.8	5.4	5.4	6.2	6.3	3.8	2.5	1.3	1.7	1.8	1.8	2.2	2.4	2.4	2.9	1.3	6.3	
29	3.1	3.3	3.5	3.6	3.5	3.7	3.4	2.8P	1.5	2.5	3.5	4.1	4.9	5.0	4.4	4.2	3.6	3.5	2.7	3.7	2.8	3.1	3.2	3.0	1.5	5.0	
30	3.0	3.3	2.9	2.7	2.7	2.5	3.3	3.2P	4.0	3.2	4.3	4.8	4.8	5.1	4.0	4.0	3.5	1.4	1.7	2.1	1.5	1.8	2.0	2.1	1.4	5.1	
31																											

Flags: Monthly: 3.2 Ave 0.6 Min Max

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

Wind Speed (KN12)

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

Station/Facility: KN12
Parameter: WS (MPH) Wind Speed
Month/Year: Nov 2008

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	4.6	4.1	3.7	4.3	4.2	5.2	3.8	2.2	3.1	4.2	5.0	5.8	4.0	2.5	1.3	1.7	2.6	1.4	0.4	2.1	0.9	2.2	4.1	0.4	5.8	
02	3.6	4.0	4.9	5.4	6.3	5.6	6.2	5.2	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	3.6	6.3	
03	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	9978p	3.4	4.0	5.4P	4.9	5.4P	4.9	5.4	5.6	2.6	1.8	0.8	1.8	3.0	9980b	9980b	0.8	5.6	
04	5.6	5.4	4.7	5.1	6.0	6.2	5.4	5.1	1.1	3.3	3.0	4.7	5.6	5.4	5.6	5.9	3.1	1.7	2.6	1.9	3.8	3.1	4.1	4.4	1.1	6.2	
05	3.6	5.6	5.4	4.8	4.2	5.4	5.5	5.3	3.2	3.1	3.7	4.8	4.2	5.3	4.8	4.0	3.4	2.5	1.7	2.7	3.5	2.1	1.8	1.9	1.7	5.6	
06	2.2	2.7	3.7	3.9	5.7	6.2	6.0	5.7	4.0	4.6	3.6	3.3	3.9	3.7	2.8	1.1	2.4	1.8	2.3	2.3	2.8	2.8	3.5	4.7	1.1	6.2	
07	4.4	5.2	3.7	4.7	4.4	6.5	5.7	5.1	1.1	3.8	3.7	4.0	5.3	4.3	4.7	4.7	2.3	2.1	1.4	3.6	3.8	2.8	3.5	5.4	1.1	6.5	
08	4.7	5.9	5.2	5.4	5.3	5.6	5.2	4.4	1.5	3.4	4.1	4.7	5.4	5.4	4.0	3.9	3.4	2.6	1.8	4.5	4.7	5.0	6.1	7.5	1.5	7.5	
09	7.7	6.7	5.8	6.5	5.0	5.8	5.6	5.4	1.3	3.5	4.4	5.1	5.0	5.6	5.2	3.7	3.0	2.1	3.0	3.9	3.8	4.0	4.3	4.6	1.3	7.7	
10	5.1	4.3	5.7	5.6	6.9	7.6	6.2	5.8	2.6	3.4	4.6	5.0	4.6	5.0	6.7	5.8	6.4	2.8	2.8	4.1	4.8	5.8	6.5	6.0	2.6	7.6	
11	6.0	5.2	7.7	8.2	7.5	6.5	6.3	5.2P	2.4	3.6	4.7	5.8	6.7	5.7	3.0	2.6	2.2	2.7	2.8	2.2	2.9	3.8	3.9	2.9	2.2	8.2	
12	3.4	2.5	2.9	4.1	5.2	5.1	4.7	4.1	2.2	3.6	4.7	6.9	6.4	5.2	4.0	2.2	2.4	1.1	2.0	3.2	3.1	3.9	5.4	4.1	1.1	6.9	
13	4.5	4.5	5.6	5.3	4.5	4.2	5.4	5.3	3.1	4.4	4.3	6.4	5.6	6.6	5.1	3.4	3.7	4.4	2.7	2.8	4.7	4.0	5.9	9980b	2.7	6.6	
14	5.0	5.3	5.4	6.1	8.1	9.8	9.4	7.0	0.9	4.0	5.0	6.3	6.7	6.1	6.1	6.2	3.6	3.0	2.2	2.2	2.2	3.4	4.2	3.1	0.9	9.8	
15	4.7	4.0	5.0	5.3	5.8	5.4	6.4	5.4	3.5	3.7	3.9	4.3	4.1	3.8	4.0	4.5	3.1	1.5	2.0	3.7	4.0	3.4	3.3	4.3	1.5	6.4	
16	4.8	3.5	3.7	3.7	7.1	5.5	6.6	5.7P	3.1	4.4	5.7	5.4	4.8	3.4	4.0	4.4	5.3	3.0	1.0	0.8	2.9	3.7	4.1	3.3	0.8	7.1	
17	4.1	4.7	6.2	6.5	6.3	6.2	6.1	5.8	3.8	4.5	3.9	4.9	4.3	5.6	3.8	4.1	4.9	3.2	1.8	3.3	2.9	2.6	3.6	5.1	1.8	6.5	
18	4.2	4.9	4.7	4.8	5.6	4.7	4.8	4.7	2.0	3.7	5.1	3.4	5.1	4.0	4.9	4.3	4.6	3.0	2.8	4.4	5.0	4.9	5.3	5.8	2.0	5.8	
19	4.7	5.3	6.0	5.6	5.3	4.8	6.8	6.9	2.9	3.3	3.1	4.0	5.2	4.7	4.9	4.0	1.6	1.2	3.4	4.3	4.1	5.3	6.0	6.8	1.2	6.9	
20	5.0	4.1	5.3	8.4	9.9	6.9	5.5	5.4	3.2	2.6P	4.3	3.1	4.5	6.2	6.2	5.1	4.9	3.0	3.6	4.9	4.0	4.8	6.2	6.8	2.6	9.9	
21	7.0	5.8	6.7	6.4	4.9	5.7	5.7	5.1	2.8	2.9	2.8	4.2	5.9	5.4	4.1	4.4	3.0	2.1	3.8	4.7	4.7	4.5	4.9	5.2	2.1	7.0	
22	4.4	3.7	5.4	5.4	3.2	3.6	3.7	3.5	1.8	1.8	1.7	3.7	3.2	3.3	2.5	2.8	1.4	1.6	2.5	4.0	4.7	4.2	4.2	3.4	1.4	5.4	
23	2.5	4.0	4.6	3.8	4.4	4.4	4.0	4.1	4.0	1.7	2.0	2.5	3.7	3.5	4.6	4.2	2.4	2.0	2.4	4.7	5.7	5.0	3.4	3.0	1.7	5.7	
24	1.7	2.1	3.1	3.4	4.1	4.6	5.1	5.4P	2.9	3.9	4.2	4.6	4.4	4.7	6.3	6.1	4.2	4.1	1.9	2.9	4.4	3.7	2.4	2.1	1.7	6.3	
25	2.5	2.7	4.0	8.3	5.7	6.0	6.6	6.8	3.3	3.9	5.4	4.1	4.2	4.6	4.8	3.8	3.0	1.6	1.7	2.0	2.5	2.7	4.1	4.3	1.6	8.3	
26	5.4	6.6	7.2	5.6	5.6	5.6	6.3	6.2	1.8	2.9	4.1	4.3	4.8	5.5	3.7	3.2	2.3	2.5	1.8	2.8	3.9	5.5	5.9	5.1	1.8	7.2	
27	6.5	7.1	7.7	7.8	7.1	8.1	7.3	7.5	3.1	3.8	4.7	6.2	6.9	7.1	5.9	3.7	1.2	1.9	1.1	3.7	3.6	3.5	3.9	4.3	1.1	8.1	
28	5.4	5.7	5.1	6.1	5.9	7.4	6.4	6.2	3.2	3.0	3.5	3.8	5.8	5.4	6.8	5.7	3.1	3.8	3.5	3.2	3.3	4.6	5.2	4.9	3.0	7.4	
29	5.6	4.7	6.0	5.8	5.0	6.3	6.2	6.8	3.2	2.7	4.2	4.5	4.9	3.9	3.6	2.9	2.6	1.2	3.5	4.5	5.2	4.1	4.4	5.8	1.2	6.8	
30	5.7	5.9	7.1	6.5	5.7	5.5	4.9	5.6	2.2	4.3	4.7	7.2	6.4	7.0	7.2	5.9	4.9	2.6	1.8	4.5	3.8	6.1	5.7	6.7	1.8	7.2	
31																											

Flags:

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

Monthly: 4.4 Ave 0.4 Min 9.9 Max

Wind Speed (PA16)

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

Station/Facility: PA16
Parameter: WS (MPH) Wind Speed
Month/Year: Nov 2008

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	5.4	5.8	6.1	5.8	5.8	5.0	4.2	3.1P	2.4	5.0	7.2	7.7	7.1	6.0	5.2	5.4	4.7	3.8	4.5	3.9	3.3	4.2	3.3	3.8	2.4	7.7	
02	6.2	4.3	5.2	4.6	5.1	5.1	5.3	2.2P	2.4	2.6	6.8	8.7	8.6	7.0	4.6	6.0	4.1	4.2	2.3	1.3	1.3	3.7	4.2	3.3	1.3	8.7	
03	3.7	3.5	3.8	5.2	6.3	5.6	5.9	4.7P	4.1	4.3	7.5	6.6	5.0	3.7	2.6	3.0	3.3	2.2	1.9	4.0	5.1	4.2	3.8	3.7	1.9	7.5	
04	5.1	5.0	4.6	2.7	3.7	3.8	5.3	5.5P	5.4	6.8	6.8	5.9	4.7	5.7	4.5	5.9	3.7	2.9	2.3	2.8	2.1	2.8	2.7	2.3	2.1	6.8	
05	2.4	2.6	2.9	3.4	3.4	3.3	3.0	2.0P	2.4	5.2	8.4	7.9	7.3	6.9	6.5	4.7	3.4	1.7	2.2	2.8	2.1	2.4	2.4	4.7	1.7	8.4	
06	5.3	5.2	5.5	5.7	5.7	5.7	4.8	3.2P	3.2	5.0	6.4	7.1	5.8	7.8	6.9	6.0	5.3	3.8	3.7	3.8	3.3	4.0	4.2	4.1	3.2	7.8	
07	4.3	4.9	6.1	5.4	7.3	6.1	4.8	4.6P	4.5	6.1	7.9	4.9	4.8	6.8	4.6	4.0	5.0	4.4	4.3	4.0	2.8	4.9	5.0	3.6	2.8	7.9	
08	4.0	3.0	3.0	3.7	4.3	5.3	5.4	4.1P	2.6	6.6	8.2	9.0	10.3	7.0	5.5	6.8	3.4	3.8	6.8	4.3	3.8	4.7	4.2	6.1	2.6	10.3	
09	7.0	6.2	5.2	4.2	3.1	2.0	3.7	4.3P	6.6	8.1	10.3	12.9	10.3	12.0	9.8	6.5	4.8	4.3	4.6	5.7	7.0	6.8	6.5	5.2	2.0	12.9	
10	6.7	5.6	4.5	5.0	5.9	4.3	5.1	3.7P	4.8	7.2	6.9	7.8	9.0	9.6	6.7	5.1	3.4	2.9	3.6	3.8	5.4	4.6	4.0	3.0	2.9	9.6	
11	3.7	4.4	5.1	5.2	5.7	4.2	5.1	4.3P	3.9	3.9	5.2	7.2	7.7	6.1	5.0	4.4	4.1	4.0	4.0	3.2	3.1	4.7	5.7	4.7	3.1	7.7	
12	3.6	3.8	3.3	4.6	5.7	6.4	5.4	4.2P	4.0	4.4	6.5	6.3	5.8	5.0	4.9	4.5	3.3	3.2	4.8	2.9	4.9	3.9	4.4	6.4	2.9	6.5	
13	4.3	6.5	2.1	2.8	4.0	4.7	5.0	4.5P	3.0	1.2	3.0	3.7	3.2	4.3	6.5	4.5	2.6	2.8	4.1	3.4	3.7	4.4	3.8	3.8	1.2	6.5	
14	3.8	3.7	2.8	4.0	5.6	5.6	5.3	3.1P	2.3	3.4	6.8	6.7	5.8	6.2	6.4	5.1	4.2	2.5	1.7	2.0	2.7	2.5	3.9	4.0	1.7	6.8	
15	4.8	4.6	5.0	5.4	4.6	5.5	5.3	3.6P	3.6	4.4	6.4	6.4	4.9	4.0	4.8	3.3	3.4	1.9	0.9	2.0	1.6	1.5	1.1	2.5	0.9	6.4	
16	3.3	4.3	5.2	4.9	5.7	5.3	4.7	3.5P	3.2	3.7	4.7	5.1	5.6	5.4	4.4	3.5	3.6	2.7	3.1	3.5	3.9	3.5	5.4	5.7	2.7	5.7	
17	3.9	4.6	4.7	4.4	4.5	4.6	4.8	2.8P	2.5	3.6	4.4	6.9	9.8	6.9	6.6	6.1	3.7	3.6	3.0	3.1	4.4	3.9	4.2	3.9	2.5	9.8	
18	3.9	4.0	4.3	5.1	5.3	4.5	4.4	3.2P	4.8	5.1	4.9	9.9	6.2	10.1	9.0	12.1	6.8	6.9	3.2	4.5	3.9	4.6	3.8	4.1	3.2	12.1	
19	4.4	4.2	4.3	5.5	6.4	5.2	6.0	3.6P	2.5	4.1	4.5	9978p	5.8P	7.2	7.7	6.8	6.3	2.9	3.5	3.4	4.3	4.2	4.4	6.0	2.5	7.7	
20	4.9	5.0	4.4	5.1	4.3	5.1	5.7	3.9P	2.3	3.9	9.1	6.9	6.5	6.3	4.7	4.6	2.8	2.6	2.0	3.8	4.0	3.1	3.9	1.7	1.7	9.1	
21	5.0	5.0	5.4	5.3	4.2	4.5	3.7	5.9P	4.9	3.4	4.7	5.7	7.4	6.1	5.7	5.7	4.0	2.0	2.4	3.1	4.2	3.9	4.9	2.0	7.4		
22	4.7	4.2	4.7	5.1	5.8	4.7	5.2	4.5P	3.9	3.7	3.8	3.7	2.8	2.2	3.8	3.6	2.8	3.2	3.2	2.6	3.6	3.8	2.6	3.4	2.2	5.8	
23	4.7	3.7	2.3	2.3	3.5	2.8	2.4	3.2P	4.1	2.6	3.7	5.9	6.5	8.2	9.7	7.7	6.9	5.5	4.7	6.1	6.6	5.2	5.9	4.6	2.3	9.7	
24	3.5	3.7	3.3	3.6	5.4	5.1	4.3	1.9P	3.4	8.5	9.7	11.3	12.2	12.0	7.5	8.1	6.0	3.9	2.8	3.6	4.3	9980b	9980b	1.9	12.2		
25	6.1	5.9	6.3	4.8	3.6	4.1	5.4	5.6P	7.4	8.2	11.0	10.3	9.2	7.3	6.7	5.9	5.8	4.2	3.3	4.6	5.0	3.2	4.5	3.8	3.2	11.0	
26	5.0	4.3	5.6	5.4	4.9	7.6	4.3	4.5P	4.9	6.4	7.8	7.6	8.1	8.4	9.3	7.9	6.0	5.7	6.6	6.8	6.4	4.8	6.0	5.2	4.3	9.3	
27	6.8	6.2	4.9	8.6	5.2	4.0	6.9	8.5P	4.7	6.7	7.2	8.3	7.7	5.8	5.6	3.8	4.3	3.9	3.6	3.7	4.6	4.1	4.5	4.2	3.6	8.6	
28	4.5	4.3	4.6	4.0	4.5	4.7	3.6	4.9P	2.3	7.5	7.7	8.8	9.2	6.6	6.6	3.1	2.9	3.0	3.4	2.8	3.2	3.5	3.4	3.2	2.3	9.2	
29	4.0	4.4	4.3	5.3	5.9	5.9	6.8	4.6P	2.1	4.6	3.0	6.4	7.8	7.6	6.3	5.7	5.5	4.4	2.7	5.5	5.2	3.7	3.2	3.7	2.1	7.8	
30	4.7	4.2	4.5	4.4	4.8	5.5	5.0	3.8P	4.1	4.0	6.5	7.1	8.0	6.4	5.5	3.7	3.3	2.2	0.9	2.3	3.3	4.5	4.5	3.9	0.9	8.0	
31																											

Flags: Monthly: 4.8 Ave 0.9 Min 12.9 Max

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

Wind Speed (MV17)

PRELIMINARY DATA ONLY
SUBJECT TO CHANGE

Station/Facility: MV17
Parameter: WS (MPH) Wind Speed
Month/Year: Nov 2008

HOUR BEGINNING (Local Standard Time)

Day	00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15	16	17	18	19	20	21	22	23	Min	Max	
01	1.7	2.7	3.3	3.2	3.4	2.6	2.5	2.7P	2.3	2.7	3.1	3.9	4.8	5.0	4.4	3.8	3.7	2.1	1.7	3.7	3.5	3.0	2.9	9980b	1.7	5.0	
02	3.8	3.3	3.0	3.5	3.4	2.4	3.4	3.6P	2.7	2.7	2.7	3.4	3.8	4.6	4.7	4.6	3.8	2.5	1.3	1.6	1.9	1.9	2.6	2.0	1.3	4.7	
03	2.5	2.5	3.5	4.5	4.8	4.9	4.3	3.0P	3.2	2.5	3.1	2.7	2.2	2.1	3.1	1.8	1.1	2.2	0.9	3.4	3.1	2.5	2.9	4.0	0.9	4.9	
04	3.3	2.9	2.7	4.4	3.1	2.4	2.6	2.9P	2.1	2.6	3.5	3.4	3.8	5.0	5.4	4.8	4.1	1.9	2.6	2.6	2.3	2.3	2.2	2.2	1.9	5.4	
05	2.0	2.3	2.6	2.3	1.0	1.0	1.5	1.9P	1.3	2.0	3.4	3.3	3.2	4.0	4.7	4.0	3.5	2.3	1.1	0.8	1.7	1.3	2.3	3.1	0.8	4.7	
06	3.6	3.6	3.6	3.4	4.4	3.8	3.8	3.5P	1.7	3.6	3.5	4.2	5.0	4.6	4.6	4.3	3.6	2.3	1.2	1.4	1.4	1.9	1.4	2.0	1.2	5.0	
07	2.8	4.5	4.2	5.0	4.5	3.2	3.7	3.8P	2.1	3.0	3.8	3.8	3.6	5.8	3.7	3.7	3.2	1.9	1.5	2.3	3.0	3.4	2.5	3.0	1.5	5.8	
08	4.8	3.0	2.3	2.3	2.5	2.8	2.7	2.4P	2.2	2.8	3.0	3.3	4.5	4.6	3.9	2.7	2.7	1.5	1.2	1.9	2.0	2.5	2.0	2.7	1.2	4.8	
09	2.9	3.3	2.0	2.6	2.5	4.1	2.7	2.5P	2.1	3.6	2.7	3.9	3.9	5.0	4.8	4.6	4.0	2.1	2.8	2.6	5.4	4.5	5.2	2.6	2.0	5.4	
10	5.0	4.9	4.6	3.1	4.8	4.3	4.5	3.9P	3.7	2.0	3.9	2.7	3.8	4.2	4.6	3.5	3.9	2.5	1.9	1.9	2.6	1.8	2.6	2.4	1.8	5.0	
11	2.4	2.4	2.6	2.9	3.3	3.9	4.7	4.1P	3.2	3.0	2.8	4.3	5.1	5.1	4.8	4.2	3.3	1.8	1.4	1.2	1.8	3.2	3.2	2.0	1.2	5.1	
12	2.5	4.2	4.8	5.5	5.2	4.9	3.8	3.2P	2.7	2.9	4.9	4.8	3.9	4.2	3.7	3.2	3.7	3.5	3.4	3.2	4.3	3.1	3.8	4.6	2.5	5.5	
13	3.6	4.1	4.6	4.1	5.7	5.7	5.0	5.6P	4.6	3.4	4.3	6.0	7.4	8.2	7.5	7.2	4.1	2.5	1.6	2.2	2.3	3.8	3.9	2.8	1.6	8.2	
14	3.3	2.9	4.7	5.1	4.7	5.3	3.6	3.8P	3.7	4.9	5.9	6.8	7.5	8.3	7.4	7.8	5.4	2.4	1.7	2.2	2.3	3.0	4.1	3.8	1.7	8.3	
15	3.4	3.8	4.5	3.7	3.8	4.2	4.2	4.1P	3.7	3.3	4.7	4.1	4.8	5.2	4.6	4.2	3.0	1.5	0.9	1.2	1.8	2.4	3.1	3.0	0.9	5.2	
16	3.9	4.2	3.9	4.4	4.7	4.5	4.7	4.2P	2.2	3.5	4.0	5.3	5.9	6.0	4.5	5.5	3.7	2.8	1.3	1.6	1.0	1.3	1.5	3.4	1.0	6.0	
17	2.7	2.6	2.4	2.8	2.5	2.6	1.8	2.2P	2.1	4.2	4.6	4.9	5.2	5.4	5.2	5.5	4.6	2.9	2.5	2.6	1.9	2.2	1.9	2.0	1.8	5.5	
18	2.5	1.9	2.6	2.9	1.9	1.8	2.0	1.8P	1.8	3.2	4.4	5.5	7.1	6.0	4.2	3.8	4.2	1.8	1.9	2.8	2.5	2.0	2.5	4.0	1.8	7.1	
19	3.4	2.6	3.4	2.3	3.4	3.2	2.6	3.0P	2.2	3.5	5.3	5.6	4.5	4.5	5.1	4.3	3.4	1.5	1.7	1.5	1.7	2.3	4.0	4.4	1.5	5.6	
20	4.9	5.1	5.0	5.1	4.5	3.7	4.8	4.4P	3.1	2.0	3.4	3.0	4.4	5.0	6.8	5.9	3.7	2.5	0.9	2.7	2.7	2.6	2.9	2.9	0.9	6.8	
21	3.3	2.5	4.1	3.5	2.8	4.7	4.4	4.5P	3.5	5.3	5.6	6.4	7.3	8.4	7.8	7.2	6.2	3.6	2.0	2.6	2.6	2.3	2.9	2.9	2.0	8.4	
22	3.5	3.4	4.2	4.7	5.1	4.6	2.9	3.2P	3.1	3.2	3.6	3.1	3.0	2.7	3.9	4.2	1.9	1.4	1.3	1.4	1.3	1.5	1.3	2.0	1.3	5.1	
23	2.0	3.0	3.1	2.6	2.2	1.8	2.4	2.2P	2.5	2.3	2.7	3.1	4.1	5.2	4.8	4.4	2.9	1.5	1.8	2.5	1.2	2.4	3.3	3.0	1.2	5.2	
24	3.0	2.6	4.1	2.9	2.3	2.3	2.2	2.0P	1.5	3.3	3.8	4.1	4.5	5.1	5.0	4.3	3.9	2.6	1.6	1.8	2.2	2.5	3.4	4.0	1.5	5.1	
25	3.4	4.1	2.3	1.6	3.0	3.6	3.7	3.3P	1.9	2.9	3.3	3.8	2.8	3.0	3.3	3.7	3.6	2.2	1.9	1.8	1.6	2.1	3.3	2.4	1.6	4.1	
26	1.8	2.9	2.7	2.1	3.2	2.5	2.2	3.4P	2.9	2.4	3.2	2.7	2.1	2.1	2.3	2.4	3.0	2.1	2.2	2.5	3.1	4.1	3.7	2.8	1.8	4.1	
27	3.5	2.6	3.8	3.7	1.9	3.1	3.6	3.0P	2.5	3.4	3.0	4.3	4.4	5.3	5.1	4.3	4.9	2.8	1.1	0.9	1.2	1.7	2.1	2.4	0.9	5.3	
28	2.5	3.3	3.7	3.6	3.9	4.1	4.3	4.3P	1.8	2.6	4.4	4.8	6.9	7.4	4.1	3.1	2.0	1.1	1.4	1.7	1.9	2.5	2.8	3.2	1.1	7.4	
29	3.9	4.0	4.0	4.5	4.2	4.0	4.5	4.0P	2.1	2.9	2.9	3.8	4.3	4.5	4.1	5.6	6.1	2.9	1.7	2.7	2.3	2.5	2.4	2.8	1.7	6.1	
30	4.1	4.1	3.0	3.5	3.9	4.1	4.5	4.6P	4.1	2.9	4.2	5.2	5.7	5.8	3.9	6.1	4.4	2.2	1.5	1.5	1.9	2.8	3.2	4.4	1.5	6.1	
31																											

Flags: Monthly: 3.4 Ave 0.8 Min 8.4 Max