Elizabeth City State University

36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

February 2008

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	13	58	131	174	309	326	272 ?	90	43 ?	19 ?	34	0	0	0	0	0	0	1468 ?
2	0	0	0	0	0	0	0	48	213 ?	?	?	?	?	?	?	?	69 ?	11	0	0	0	0	0	0	342 ?
3	0	0	0	0	0	0	0	43	133 ?	?	?	?	?	?	?	?	77 ?	13	0	0	0	0	0	0	265 ?
4	0	0	0	0	0	0	0	19	41 ?	?	?	?	?	?	?	118 ?	91 ?	23	0	0	0	0	0	0	292 ?
5	0	0	0	0	0	0	0	23	64	111	202	318 ?	?	?	?	208 ?	99 ?	17	0	0	0	0	0	0	1043 ?
6	0	0	0	0	0	0	0	46	110 ?	191 ?	?	?	383 ?	305 ?	246 ?	176	85	14	0	0	0	0	0	0	1556 ?
7	0	0	0	0	0	0	0	52	?	?	?	?	?	?	?	?	94 ?	24	0	0	0	0	0	0	170 ?
8	0	0	0	0	0	0	0	51	?	?	?	270 ?	262 ?	221 ?	199 ?	?	84 ?	23	0	0	0	0	0	0	1109 ?
9	0	0	0	0	0	0	0	65	?	?	?	?	?	?	?	?	93 ?	27	0	0	0	0	0	0	185 ?
10	0	0	0	0	0	0	1	55	?	?	?	?	?	?	?	?	94 ?	29	0	0	0	0	0	0	179 ?
11	0	0	0	0	0	0	2	57	205 ?	?	?	?	?	?	?	?	96 ?	30	0	0	0	0	0	0	389 ?
12	0	0	0	0	0	0	2	47	163 ?	233 ?	301 ?	356 ?	355	73	109	189	100	23	0	0	0	0	0	0	1952 ?
13	0	0	0	0	0	0	0	4	23 ?	57	171	317	234 ?	345 ?	139	156	48	1	0	0	0	0	0	0	1496 ?
14	0	0	0	0	0	0	3	52	?	?	?	?	?	?	?	?	100 ?	35	0	0	0	0	0	0	191 ?
15	0	0	0	0	0	0	4	51	?	273 ?	307 ?	?	?	367 ?	269	204	110	24	0	0	0	0	0	0	1609 ?
16	0	0	0	0	0	0	2	45	135	?	?	?	?	?	?	?	98 ?	30	0	0	0	0	0	0	310 ?
17	0	0	0	0	0	0	6	51 ?	208 ?	284 ?	333	403	322 ?	94	115 ?	182 ?	55	15	0	0	0	0	0	0	2068 ?
18	0	0	0	0	0	0	0	23	77	131	85	144	76	192	181	200	113 ?	42	0	0	0	0	0	0	1265 ?
19	0	0	0	0	0	0	4	63 ?	214 ?	280 ?	?	?	?	?	?	?	?	47	0	0	0	0	0	0	609 ?
20	0	0	0	0	0	0	3	63 ?	285 ?	504 ?	446 ?	?	?	?	?	?	?	43	0	0	0	0	0	0	1344 ?
21	0	0	0	0	0	0	7	61 ?	?	279 ?	?	?	?	?	346 ?	235	108	22	0	0	0	0	0	0	1057 ?
22	0	0	0	0	0	0	1	6 ?	30	74	60 ?	74 ?	121	175	79	75	37	9	0	0	0	0	0	0	741 ?
23	0	0	0	0	0	0	1	8	33 ?	70	68	63 ?	104 ?	180	99	78	25 ?	11	0	0	0	0	0	0	741 ?
24	0	0	0	0	0	0	8	38 ?	?	?	?	?	?	?	?	165 ?	94	16	0	0	0	0	0	0	321 ?
25	0	0	0	0	0	0	9	33	105	284 ?	385 ?	294 ?	?	341	287	218	139 ?	37	0	0	0	0	0	0	2133 ?
26	0	0	0	0	0	0	5	69	213 ?	267	213	244	330	97 ?	52 ?	89	51	31	0	0	0	0	0	0	1661 ?
27	0	0	0	0	0	0	5	73 ?	?	?	?	219	245	281	260 ?	217	114	54	0	0	0	0	0	0	1468 ?
28	0	0	0	0	0	0	9	77 ?	374 ?	505 ?	?	?	?	?	?	?	?	50	0	0	0	0	0	0	1015 ?
29	0	0	0	0	0	0	6	36 ?	?	466 ?	?	?	?	?	?	?	?	46	0	0	0	0	0	0	554 ?
Avg	0	0	0	0	0	0	3	44	141	244	229	251	251	226	176	160	84	27	0	0	0	0	0	0	949 ?
S D	0	0	0	0	0	0	3	20	96	144	127	108	107	101	92	60	30	14	0	0	0	0	0	0	633
S/A	0	0	0	0	0	0	1.06	0.46	0.68	0.59	0.55	0.43	0.43	0.45	0.52	0.38	0.35	0.5	0	0	0	0	0	0	0.67
Min	0	0	0	0	0	0	0	4	23	57	60	63	76	73	52	43	19	1	0	0	0	0	0	0	170
Max	0	0	0	0	0	0	9	77	374	505	446	403	383	367	346	235	139	54	0	0	0	0	0	0	2133
n	0	0	0	0	0	0	54	296	129	126	115	107	101	112	129	146	185	238	0	0	0	0	0	0	1745

Daylight Data Recovery: 0.0% missing; 0.0% untested; 53.7% exceed the 15% QC threshold -- 3770 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31256F3 Calibration Factor: 7.561 µV/W/m² Calibration Date: 08/2003

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University

36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

February 2008

Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Instrument: Eppley NIP
Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	1	0	0	0	1	1	0 ?	0	0	0	3	0	0	0	0	0	0	7
2	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	4 ?	0	0	0	0	0	0	0	4 ?
3	0	0	0	0	0	0	0	0	0 ?	?	?	?	?	?	?	?	4 ?	0	0	0	0	0	0	0	4 ?
4	0	0	0	0	0	0	0	0	0 ?	?	?	?	?	?	?	0 ?	3 ?	0	0	0	0	0	0	0	4 ?
5	0	0	0	0	0	0	0	0	0	0	0	1 ?	?	?	?	2 ?	1 ?	0	0	0	0	0	0	0	4 ?
6	0	0	0	0	0	0	0	0	0 ?	0 ?	?	?	0 ?	1 ?	1 ?	0	1	0	0	0	0	0	0	0	4 ?
7	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	6 ?	1	0	0	0	0	0	0	7 ?
8	0	0	0	0	0	0	0	0	?	?	?	0 ?	1 ?	0 ?	2 ?	?	4 ?	1	0	0	0	0	0	0	8 ?
9	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	4 ?	1	0	0	0	0	0	0	5 ?
10	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	3 ?	0	0	0	0	0	0	0	3 ?
11	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	7 ?	2	0	0	0	0	0	0	9 ?
12	0	0	0	0	0	0	0	0	0	0 ?	0 ?	0 ?	1	0	0	2	1	0	0	0	0	0	0	0	4 ?
13	0	0	0	0	0	0	0	0	0	0	1	0	0 ?	2 ?	0	0	0	0	0	0	0	0	0	0	3 ?
14	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	6 ?	2	0	0	0	0	0	0	8 ?
15	0	0	0	0	0	0	0	0	?	0 ?	0 ?	?	?	2 ?	0	0	0	0	0	0	0	0	0	0	3 ?
16	0	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	5 ?	1	0	0	0	0	0	0	6 ?
17	0	0	0	0	0	0	0	0 ?	0 ?	0 ?	0	1	0 ?	0	0	2 ?	0	0	0	0	0	0	0	0	4 ?
18	0	0	0	0	0	0	0	0	0	1	0	0	0	0	1	0	5 ?	1	0	0	0	0	0	0	9 ?
19	0	0	0	0	0	0	0	0 ?	?	0 ?	?	?	?	?	?	?	?	2	0	0	0	0	0	0	2 ?
20	0	0	0	0	0	0	0	0 ?	?	?	0 ?	?	?	?	?	?	?	1	0	0	0	0	0	0	1 ?
21	0	0	0	0	0	0	0	0 ?	0 ?	0 ?	?	?	?	?	2 ?	1	0	0	0	0	0	0	0	0	2 ?
22	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3
23	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
24	0	0	0	0	0	0	0	0 ?	?	?	?	?	?	?	?	3 ?	0	0	0	0	0	0	0	0	3 ?
25	0	0	0	0	0	0	0	0	1	1 ?	0 ?	0 ?	?	1	1	0	2 ?	0	0	0	0	0	0	0	7 ?
26	0	0	0	0	0	0	0	0	0 ?	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	2
27	0	0	0	0	0	0	0	0 ?	?	?	0 ?	0	0	0	1 ?	1	0	1	0	0	0	0	0	0	3 ?
28	0	0	0	0	0	0	0	0 ?	?	?	?	?	?	?	?	?	?	2	0	0	0	0	0	0	2 ?
29	0	0	0	0	0	0	0	0 ?	?	?	?	?	?	?	?	?	?	1	0	0	0	0	0	0	1 ?
Avg	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	1	0	0	0	0	0	0	4 ?
S D	0	0	0	0	0	0	0	0	0	0	0	0	1	1	1	1	2	1	0	0	0	0	0	0	2
S/A	0	0	0	0	0	0	5.39	3.11	1.85	1.79	1.76	1.46	1.1	1.16	1.07	1.12	1.06	1.31	0	0	0	0	0	0	0.58
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Max	0	0	0	0	0	0	0	1	1	1	1	1	2	2	2	3	7	3	0	0	0	0	0	0	9
n	0	0	0	0	0	0	54	304	136	121	123	114	105	121	137	152	195	236	0	0	0	0	0	0	1804

Daylight Data Recovery: 0.0% missing; 0.0% untested; 52.1% exceed the 15% QC threshold -- 3770 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25521E6 Calibration Factor: 8.034 µV/W/m² Calibration Date: 06/2002

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

February 2008

Diffuse Solar Radiation (Shadow Band) on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	14	58	131	173	286	300	255 ?	90	30 ?	14	26	0	0	0	0	0	0	1378
2	0	0	0	0	0	0	0	21	46 ?	?	?	?	?	?	?	?	23 ?	7	0	0	0	0	0	0	98 ?
3	0	0	0	0	0	0	0	24	93 ?	?	?	?	?	?	?	?	29 ?	9	0	0	0	0	0	0	155 ?
4	0	0	0	0	0	0	0	18	30 ?	?	?	?	?	?	?	75 ?	58 ?	20	0	0	0	0	0	0	200 ?
5	0	0	0	0	0	0	0	25	64	111	202	284 ?	?	?	?	153 ?	68 ?	16	0	0	0	0	0	0	923 ?
6	0	0	0	0	0	0	0	44	81 ?	139 ?	?	?	300 ?	224 ?	194 ?	154	78	14	0	0	0	0	0	0	1227 ?
7	0	0	0	0	0	0	0	16	?	?	?	?	?	?	?	?	22 ?	8	0	0	0	0	0	0	46 ?
8	0	0	0	0	0	0	0	23	?	?	?	247 ?	242 ?	192 ?	122 ?	?	30 ?	12	0	0	0	0	0	0	867 ?
9	0	0	0	0	0	0	0	45	?	?	?	?	?	?	?	?	30 ?	13	0	0	0	0	0	0	88 ?
10	0	0	0	0	0	0	?	17	?	?	?	?	?	?	?	?	41 ?	21	0	0	0	0	0	0	80 ?
11	0	0	0	0	0	0	?	19	37 ?	?	?	?	?	?	?	?	25 ?	12	0	0	0	0	0	0	93 ?
12	0	0	0	0	0	0	?	40	136	191 ?	254 ?	301 ?	300	73	109	167	87	23	0	0	0	0	0	0	1680 ?
13	0	0	0	0	0	0	0	5	19	54	170	308	230 ?	268 ?	135	151	48	1	0	0	0	0	0	0	1389 ?
14	0	0	0	0	0	0	2	22	?	?	?	?	?	?	?	?	26 ?	12	0	0	0	0	0	0	62 ?
15	0	0	0	0	0	0	5 ?	29	?	252 ?	267 ?	?	?	287 ?	239	163	97	24	0	0	0	0	0	0	1364 ?
16	0	0	0	0	0	0	3 ?	45	127	?	?	?	?	?	?	?	38 ?	16	0	0	0	0	0	0	228 ?
17	0	0	0	0	0	0	7 ?	29 ?	172 ?	231 ?	293	367	292 ?	94	94	169 ?	49	15	0	0	0	0	0	0	1813 ?
18	0	0	0	0	0	0	0	23	77	130	85	144	70	191	170	189	33 ?	17	0	0	0	0	0	0	1130 ?
19	0	0	0	0	0	0	5 ?	24 ?	72 ?	240 ?	?	?	?	?	?	?	?	18	0	0	0	0	0	0	358 ?
20	0	0	0	0	0	0	3	23 ?	49 ?	66 ?	368 ?	?	?	?	?	?	?	20	0	0	0	0	0	0	528 ?
21	0	0	0	0	0	0	8 ?	42 ?	111 ?	242 ?	?	?	?	?	258 ?	208	107	22	0	0	0	0	0	0	998 ?
22	0	0	0	0	0	0	1	7	30	70	52	59	121	175	79	75	37	9	0	0	0	0	0	0	715
23	0	0	0	0	0	0	1	9	25	70	62	56	83	180	99	78	22	11	0	0	0	0	0	0	695
24	0	0	0	0	0	0	10 ?	34 ?	?	?	?	?	?	?	?	132 ?	94	16	0	0	0	0	0	0	286 ?
25	0	0	0	0	0	0	11 ?	33	105	226 ?	327 ?	263 ?	?	314	284	208	115 ?	26	0	0	0	0	0	0	1911 ?
26	0	0	0	0	0	0	5	61	163 ?	242	213	244	317	84 ?	49	89	51	31	0	0	0	0	0	0	1548 ?
27	0	0	0	0	0	0	5	25 ?	?	?	249 ?	216	245	265	240 ?	184	107	39	0	0	0	0	0	0	1575 ?
28	0	0	0	0	0	0	9	24 ?	49 ?	56 ?	?	?	?	?	?	?	?	18	0	0	0	0	0	0	156 ?
29	0	0	0	0	0	0	6	30 ?	?	76 ?	?	?	?	?	?	?	?	32	0	0	0	0	0	0	143 ?
Avg	0	0	0	0	0	0	3	27	77	149	209	231	227	200	155	139	53	17	0	0	0	0	0	0	750 ?
S D	0	0	0	0	0	0	4	13	46	77	99	98	93	79	76	54	32	8	0	0	0	0	0	0	630
S/A	0	0	0	0	0	0	1.14	0.47	0.59	0.52	0.47	0.42	0.41	0.4	0.49	0.39	0.59	0.47	0	0	0	0	0	0	0.84
Min	0	0	0	0	0	0	0	5	19	54	52	56	70	73	49	30	14	1	0	0	0	0	0	0	46
Max	0	0	0	0	0	0	11	61	172	252	368	367	317	314	284	208	115	39	0	0	0	0	0	0	1911
n	0	0	0	0	0	0	43	297	148	130	124	116	107	115	136	151	193	238	0	0	0	0	0	0	1804

Daylight Data Recovery: 0.0% missing; 0.0% untested; 52.1% exceed the 15% QC threshold -- 3770 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17880F3 Calibration Factor: 8.067 µV/W/m² Calibration Date: 07/2002

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University

36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

February 2008

Dry Bulb Temperature (Roof)
Hourly and Daily Averages
Instrument: CSI HMP-35C
Degrees Celsius

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	8.5	8.6	8.7	9.7	12.2	14.6	15.3	16.1	16.4	17.5	18.4	19.5	19.7	20.4	19.8	18.8	16.8	16.9	16.2	15.3	13.4	10.4	9.4	8.4	14.6
2	7.9	7	6.1	5.4	4.9	4.7	4.2	4	5.6	7.3	9.5	10.5	11	11.8	11.9	12.2	11.8	9.4	7.4	7.2	7.1	6.6	6.2	5.8	7.7
3	5.4	5.3	5.7	5.6	5.5	5.4	5.3	5.4	6.8	9.1	11.8	13.4	15.4	17.3	17.9	17.7	13.8	11.4	9.7	8.5	7.9	7.6	7.5	7.5	9.5
4	7.7	7.5	7.6	8.2	8.5	7.9	7	6.8	8.2	11.1	14	15.8	17.2	18.1	19	18.9	18.7	15.8	14.8	14.4	14.7	13.3	12.5	12.5	12.5
5	12.7	13.3	13.1	12.8	12.5	12.3	12.2	12.1	12.5	13.3	14.4	17	20.3	22.4	23.3	22.1	21.4	20.4	19.8	19.5	19	18	17.2	17.4	16.6
6	17.3	17.1	16.9	16.7	16.2	15.6	15.3	16.1	17.8	19.6	21.7	23.3	24.2	24.9	25	24.9	24.2	21.9	21.5	20.7	20	20.5	19.9	19.2	20
7	19.1	19.5	21	20.6	19.2	17.9	16.5	15.4	15.4	15.8	16.5	16.9	17.8	18.2	18	17.9	17.6	15.5	12.4	11.3	10.2	9.2	8.7	8.7	15.8
8	8.6	8.8	8.6	8.1	7.8	7.5	7.2	7.2	8.1	10.6	12.4	13.3	13.7	13.2	13.1	12.8	11.8	10.5	8.6	7.6	7	7.2	7.2	7.1	9.5
9	7.3	6.9	6.8	6.5	6.8	7	7.5	7.9	9.6	11.9	13.1	15.1	16.7	18	18.7	19	18.9	17.6	16.2	15.2	14.2	12.8	12.1	11.8	12.4
10	12.6	11.2	10.3	9.8	8.8	8.1	7.2	7.8	10	11.8	13.5	14.3	15.2	15.9	16.4	16.7	16.8	16.1	15	14	12.2	10.6	8.1	5.8	12
11	3.3	2	0.8	-0.5	-1.2	-1.8	-2.5	-2.4	-1.8	-0.6	0.7	1.3	3	4	4.6	5	5.3	3.5	1.3	0.8	0.9	0.9	1.3	1.4	1.2
12	1.8	1.7	1.8	1.8	2	2.3	2.8	3.6	5.7	7.9	9.4	10.6	12.4	13.7	15.1	16.5	16.8	16.3	15.9	15.8	15.2	15.4	15.5	15.9	9.8
13	16.4	16.7	16.4	15.8	16	15.8	15.7	15.7	15	17.7	18.4	19.6	20.1	20.9	20.9	20.6	19.8	12.8	10.5	8.8	7.3	6.7	6.1	5.5	15
14	4.8	3.2	0.7	0.2	0.1	-0.3	-0.3	-0.3	0.2	1.1	2.1	3.4	5.1	6.5	7.3	8.3	8.3	7.5	5.8	4.6	4.3	3.9	3.8	3.8	3.5
15	4.1	4.4	4.8	4.7	4.9	4.8	4.4	4.5	6.8	8.7	10.3	12.2	13.7	14.6	14.7	14.8	14.7	13.6	12.5	11.7	11	10.5	10	9.8	9.4
16	10.1	10.1	10.1	9.6	8.2	7.4	7.3	6.8	6.6	6.8	6.9	6.8	6.8	6.9	6.4	6.2	6	4.9	4.2	3.7	3.4	3.2	3.4	3.6	6.5
17	4.1	4.1	4.3	4	4.2	4.1	4.9	6.4	8.8	11.1	12.5	14.1	16	16.1	16.5	17.5	17.8	17.3	17.4	17	17	17.3	17.1	17.4	12
18	18.2	18.2	18.2	18.2	18.5	18.7	16.5	15.8	16.3	17.9	18.8	19.1	18.5	18.4	19.4	20.6	21.2	20.2	18.7	17.8	16.3	14.8	13.1	11.5	17.7
19	10.2	9.2	8.4	7.3	5.9	5.1	5	6.1	7.2	8	8.7	9.3	10.2	10.8	11.3	11.6	11.5	10.9	9.7	8.4	7.7	7.1	6.8	6.2	8.4
20	5.4	4.9	4.3	4.2	4	3.6	3.6	4.4	6.3	7.9	8.3	9.7	10.9	12.2	14.1	14.7	15	15.1	13.3	12.5	11.7	7.6	5.1	4.5	8.5
21	2.9	2.1	1.7	1.1	0.8	0.6	0	-0.3	-0.3	0.2	0.6	1.5	2.7	2.6	2.5	1.5	0.7	0.2	0	0.3	0.7	1	0.9	0.7	1
22	1.5	2.8	3.7	4	4.2	4.5	4.9	5.6	6.9	8.1	8.6	8.8	8.5	8.3	8.2	7.3	6.9	6.1	5.3	5.1	4.8	4.7	4.8	5	5.8
23	5.3	5.4	5.5	5.8	6	6.1	6.4	6.6	6.5	6.6	7.1	7.7	7.7	7.7	7.6	7.8	7.5	7.2	6.6	5.7	5.5	5.5	5.2	5.2	6.4
24	4.5	3.9	3.4	2.6	2.2	1.8	1.7	2	3.1	4.1	4.8	5.9	6.4	6.7	7.1	7	6.2	4.9	4.4	4.2	4.1	4	4.1	4	4.3
25	4	3.9	3.6	3.3	3.3	3.5	3.4	3.7	4.7	6.6	7.9	8.8	9.3	9.9	10.1	10.4	11	10	8.3	7	6.3	6.1	6.2	6.1	6.6
26	5.8	5.8	6.3	6.9	7.2	7.6	7.9	8.6	11.1	13	13.4	14.5	16.1	16.2	14.4	15	15.3	15.5	15.3	15	14.7	14.6	14	13.9	12
27	13.9	13	11.6	9.9	7.8	6.2	5.1	4.8	5.7	6.8	7.6	7.2	7.3	7.1	7.3	7	7.2	6.5	5.2	4	3.4	2.9	2	0.9	6.7
28	0	-0.9	-1.7	-2.5	-3	-3.4	-3.7	-3.4	-2.3	-1.2	-0.3	0.7	1.3	2.4	3.4	4	4.3	3.9	2.7	1.9	0.5	0	-0.3	-0.1	0.1
29	-0.2	0.3	-0.2	-0.6	-1	-1.3	-0.9	-0.8	3	4.5	6	7	8	9.2	10.1	9.5	10	9.3	7.8	6.9	7	7.5	7.9	8.3	4.9
Avg	7.7	7.4	7.2	6.9	6.6	6.4	6.2	6.4	7.6	9.1	10.2	11.3	12.3	12.9	13.3	13.3	13	11.8	10.6	9.8	9.2	8.6	8.1	7.9	9.3
S D	5.4	5.5	5.7	5.8	5.7	5.8	5.6	5.5	5.3	5.5	5.7	5.9	6	6.1	6.1	6.1	6	5.7	5.8	5.8	5.6	5.4	5.2	5.2	5.1
S/A	0.71	0.74	0.79	0.84	0.87	0.9	0.9	0.86	0.7	0.61	0.55	0.52	0.49	0.47	0.46	0.46	0.46	0.49	0.55	0.59	0.61	0.63	0.64	0.67	0.55
Min	-0.2	-0.9	-1.7	-2.5	-3	-3.4	-3.7	-3.4	-2.3	-1.2	-0.3	0.7	1.3	2.4	2.5	1.5	0.7	0.2	0	0.3	0.5	0	-0.3	-0.1	0.1
Max	19.1	19.5	21	20.6	19.2	18.7	16.5	16.1	17.8	19.6	21.7	23.3	24.2	24.9	25	24.9	24.2	21.9	21.5	20.7	20	20.5	19.9	19.2	20
n	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	8352

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8352 total measurements.

Instrument: CSI HMP-35C Serial Number: P0520031 Calibration Factor: 1.00 deg C/mV Calibration Date: 03/1988

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

February 2008

Relative Humidity (Roof)
Hourly and Daily Averages
Instrument: CSI HMP-35C
Percent

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	98.8	103.4	105 ?	?	?	?	?	103.1 ?	102.5	99.4	93.8	89.3	91.2	87.4	86.8	93.9	104.6 ?	102.7	95.9	91.2	76.7	83.9	85.7	88.4	94.2 ?
2	87.3	88.9	90.8	92	92.5	90.7	93.1	93.7	86.3	76.9	65.5	62.4	63.3	64.5	66.5	64.5	68.2	78.1	91.1	96.2	96	96.7	98	101.1	83.5
3	103	104.4 ?	?	?	?	?	?	?	102.7 ?	96.5	83.3	74.2	64.3	52.2	49.7	49.3	75.1	79.5	87.6	92.4	97.7	99.8	101.2	101.7	84.1 ?
4	102.4	104.2	105 ?	102.1	98.6	98.3	101.7	103	101.3	88.7	74	63.9	60.2	57.3	55.1	56.3	58.7	77.1	79.5	78.9	78.3	90.4	99.7	103.1	84.9
5	103.8	103.7	104.7	?	?	?	?	?	?	?	?	101.8 ?	92.5	83.1	78.6	83.6	84.7	88.7	90.1	88.5	88.3	92.9	98	98.6	92.6 ?
6	101.1	102.1	102.8	102.8	103.6	103.9	104.7	104.5 ?	103	98.1	88.8	79.7	73.8	66	63.1	63.6	68.8	78.5	75.6	83.5	88.8	84.1	87	94.2	88.4
7	97.4	95.2	86.8	82.5	79.3	74.4	68.9	67	57.3	53.6	49.2	47.7	44.8	41.2	41.4	41.6	42.6	54.9	73.1	81.8	92.2	99.4	101.2	101.1	69.8
8	102.4	102.5	102	102.2	101.9	100.4	100.9	101.4	99.1	92.3	85.5	80.9	77.8	77.7	76.2	74.4	75.3	82.5	96	99.5	101.3	99	95.9	96.8	92.7
9	91.2	92.8	98.6	103.1	?	?	?	?	102.8 ?	89.8	82.9	71.9	64.5	57	52.7	48.9	47.4	50.6	54	56.2	59.2	64.7	73.6	83.6	72.3 ?
10	65.4	64.1	62.5	51.8	46.4	47.2	53.5	51.6	44.8	40.5	35.2	33.8	31.9	31.7	31.9	32.1	33.1	34.1	36.3	38.7	39.7	34.5	28.1	33.7	41.8
11	36	32	36.8	39.1	34.3	39.8	42.2	40.8	42.8	38	30.9	32	26.7	26.2	25.1	24.4	24.7	47	69.1	72.7	74.4	78.7	81.2	82	44.9
12	81.1	82.3	81.9	77.9	77.7	83.8	85.9	83.6	87	82.5	82.8	84.7	85.5	86.4	86.6	82.3	81.6	84.5	87.8	89.9	92.3	93.1	94.3	95.4	85.5
13	96.1	98.1	101.5	?	?	?	?	?	?	104.6 ?	103.2	101.1	95.6	90.6	87.8	89	90.1	102	?	?	?	?	?	103	97.1 ?
14	102.4	103.6 ?	?	?	104.8 ?	101.8	100	91.8	83.9	77.9	72.6	69.4	63.7	59.4	58.2	54.2	57.4	61.7	76.4	83.5	84.2	87.3	89.5	93	80.8 ?
15	95.6	99.2	101.4	101.9	101.8	101.1	101.7	101.9	93.8	83.3	71.7	62.9	53.6	49.4	50.6	52.5	53.2	60.4	67.6	69.3	71.1	72.8	75.2	75.7	77.8
16	72.2	72.2	72.7	76	86	94.5	87.9	88.4	87.6	82.1	78.3	74.8	69.3	65.2	68	72.3	72.6	77.9	84	87.5	90.6	93.3	96.1	94.7	81
17	92.9	93.7	98.1	100.9	102	103.7	104.4	102.5	98.1	95.3	93.8	91.9	88.7	90.4	93.2	96.2	96.7	97.7	98.9	102	102.6	100.7	100.4	101.5	97.8
18	101.5	102.6	102.9	103.1	104.1 ?	?	?	?	?	?	103.6 ?	101.1	102.3 ?	?	102.5 ?	96	83.5	73.3	79.1	78.7	70	71	70.1	73.9	90 ?
19	71.3	67.1	61.1	63.4	75.8	83.3	83.3	70.6	65.8	60.1	55.6	49.7	46.3	42.5	38.8	36.2	35.6	36.7	41.4	48.6	52.8	56.1	58.7	60.9	56.7
20	63.5	66.2	69.6	71.9	70.3	71	70.3	61.7	53	41.3	41.7	46.1	46.8	49	47.4	51.3	55.2	50.6	63.9	69.1	67.8	79.1	94.5	94.7	62.3
21	94.1	88.5	77.8	71.4	64.7	73.8	79.7	82	75.6	72.2	64.9	57.3	57	56.9	62.9	69.2	72.7	74.2	79.5	82.5	83.5	86.1	92.5	101.4	75.8
22	104.3 ?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
23	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	104.8 ?	?	?	?	104.8 ?	103.7	104.4 ?
24	101.7	98.3	96.2	97.7	96.8	97.7	98.8	97.1	89.3	82.6	79.1	71.7	68.8	64.9	64.2	68.9	75.7	82.5	85.2	88.1	88.7	91.2	92	93.5	86.3
25	95	94.9	97.5	99.9	100.6	100	99.8	100.9	97.3	82.6	77.4	76.9	78.1	77.2	77.2	76.4	74.4	80.1	90.7	96.6	99.2	100.8	102.2	102.5	90.8
26	103.8	104.9	104.1	103.1	104.7	?	?	103.3 ?	95.6	89.8	90.4	89.1	87.9	94.1	?	104.7 ?	102.6	100.4	101.8	103.2	103.6	102.4	103.7	104.6	99.9 ?
27	103.7	94.1	80.4	79.9	78.7	77.9	80.5	80.6	73.6	66.3	59.4	57.4	57.4	59.4	61.9	63.5	57.8	56.3	61.7	65.4	63.6	62.2	59.4	59	69.2
28	60.9	60.5	57.6	57.5	53.2	55	54.9	54.2	49.8	45.3	43.2	41.8	42.5	42	40.7	40.9	40.7	41.7	48.2	51	59.9	64.7	67.1	68.2	51.7
29	71.9	70.3	69.8	69.2	72.3	90.8	85	89.5	72.2	62.6	50.6	41.9	39.9	37.8	38.4	51	46.9	45.2	58.3	61.1	62.5	62.6	68.8	76.7	62.3
Avg	89.3	88.5	86.7	84.1	84.1	84.5	84.9	85.2	81.9	76.1	71.4	68.7	65.7	61.9	61.8	64.3	65.9	70.3	76.9	79.1	80.2	82.6	85.9	88.8	79.2 ?
S D	17.4	18.2	18.8	19.6	20.7	19.3	18.5	19.4	20	20	20.5	20.5	20.4	19.4	20.1	21.3	21.3	20.4	18.3	17.3	17.1	17.1	18.1	17.1	16.6
S/A	0.19	0.21	0.22	0.23	0.25	0.23	0.22	0.23	0.24	0.26	0.29	0.3	0.31	0.31	0.33	0.33	0.32	0.29	0.24	0.22	0.21	0.21	0.21	0.19	0.21
Min	36	32	36.8	39.1	34.3	39.8	42.2	40.8	42.8	38	30.9	32	26.7	26.2	25.1	24.4	24.7	34.1	36.3	38.7	39.7	34.5	28.1	33.7	41.8
Max	104.3	104.9	105	103.1	104.8	103.9	104.7	104.5	103	104.6	103.6	101.8	102.3	94.1	102.5	104.7	104.6	102.7	104.8	103.2	103.6	102.4	104.8	104.6	104.4
n	329	310	281	264	250	240	238	246	277	294	309	319	320	312	308	320	316	322	320	312	312	312	320	336	7164

Data Recovery: 0.0% missing; 0.0% untested; 14.2% failed QC -- 8352 total measurements.

Instrument: CSI HMP-35C Serial Number: P0520031 Calibration Factor: 0.10 %/mV Calibration Date: 01/1999

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University

36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

February 2008

Dry Bulb Temperature (CR10)
Hourly and Daily Averages
Instrument: CSI
Degrees Celsius

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	8.1	8.7	8.7	9.1	10	12.2	13.9	14.8	15.3	16.2	17.7	19.3	20.7	21.7	22	20.9	18.8	17.5	16.3	15.5	14.7	12.6	10.5	9.1	14.8
2	7.9	7	5.8	5	4.1	3.6	3	2.4	4.4	7.9	11.7	14.7	16.2	16.9	16.8	16	15.3	13.3	9.6	7.4	6.6	5.9	5.1	4.4	8.8
3	4	3.6	3.6	4.1	4.2	4.3	4.3	4.3	5.8	8.2	11.9	15.6	18.1	20.4	22.1	22.6	21	16.8	12.4	9.9	8.4	7.8	7.5	7.4	10.3
4	7.5	7.6	7.7	7.9	8.2	7.6	6.4	5.7	6.2	9.9	14.2	18	20.5	21.7	22	22.2	21.7	20.2	16.7	14.9	14.7	14.4	13.1	12.4	13.4
5	12.2	12.4	12.6	12.6	12.4	12.1	12.2	12.3	12.6	13.2	14.2	16.1	19.7	23	24.8	25.1	24.3	22.8	20.8	19.6	18.9	18.3	17.4	16.8	16.9
6	16.7	16.7	16.6	16.5	16.1	15.7	15.3	15.3	16.6	19.3	22.2	24.5	26	26.8	26.9	26.9	26.1	24.7	22.6	21.6	20.8	20.3	20.4	20	20.6
7	19.5	19.5	19.8	20.7	20.2	18.9	17.5	16.3	16.5	17.7	19.1	20.3	21	21.7	21.8	21.4	20.9	19.4	15.3	12.2	10.3	8.9	7.9	7.5	17.3
8	7.4	7.6	7.6	7.5	7.2	6.9	6.5	6.3	7.8	10.8	14.4	17.6	18.1	18.1	17.2	17	16.4	14.4	11	8.4	6.8	5.9	5.7	5.6	10.5
9	5.6	5.5	5.3	5.1	5.1	5.5	5.9	6.5	8.3	11.2	14.3	16.8	19	20.4	21.2	21.5	21.5	20.3	17.4	14.9	13.6	12.2	11.2	10.7	12.5
10	11	11.1	10	9.1	8	7.2	6.3	6.2	8.5	11.6	14.1	15.9	17.1	17.9	18.3	18.6	18.6	17.8	16.2	14.8	13.3	11.6	9.6	7.3	12.5
11	4.9	2.7	1.1	-0.4	-1.7	-2.6	-3.3	-3.5	-1.7	0.9	3.5	4.9	6.6	8.8	9.5	9.5	9.3	7.9	4	1.3	0.2	-0.3	-0.5	-0.3	2.5
12	-0.1	0.1	0.1	0.1	-0.2	-0.2	0.3	1	3.2	6.5	9.3	11.8	13.5	14.6	15	16.2	17.4	17.3	16.6	16.2	15.8	15.4	15.4	15.6	9.2
13	16	16.4	16.6	16.3	16.2	16.2	16.1	16	15.9	16.1	17.2	18.4	20.4	22.3	23.1	22.9	22.1	19.3	14.5	11.7	9.7	8.1	7.2	6.3	16
14	5.5	4.6	3.2	1.6	0.9	0.4	-0.2	-0.6	0.4	2.3	4.5	6.6	8.9	10.7	11.7	12.2	12.7	11.3	7.7	4.7	3.4	2.3	1.6	1.8	4.9
15	2.2	2.3	2.5	2.8	3	3.3	3.3	3.5	5.3	8.4	10.3	12.6	15	16.6	17	16.6	16.3	15.2	13.2	11.7	10.6	9.8	9.6	9.3	9.2
16	9.3	9.6	9.8	9.7	9.3	8.1	7.5	7.3	7.4	7.9	9.4	10.6	11.3	11.5	11.3	10.9	10.4	8.9	5.9	3.9	2.6	1.8	1.5	1.7	7.8
17	2.1	2.4	2.6	2.7	2.7	2.9	3.1	4	6.8	10	12.9	15	17.2	18	17.7	17.8	19.1	18.2	17.6	17.4	17.3	17.1	17.1	17.2	11.6
18	17.5	17.9	18.1	18.3	18.5	18.5	18.2	17.1	16.6	16.9	18	18.7	19.2	18.9	19.1	20.2	21.8	22.3	20.4	18.6	17.6	16.2	14	12	18.1
19	10.5	9.2	8	6.7	5.3	3.8	3.1	3.8	6.6	9.1	11.2	12.5	13.2	13.6	13.8	14	14.1	13.3	11.1	9	7.3	6.2	5.4	4.8	9
20	3.9	3.1	2.6	2.4	2.3	2	1.7	2.3	5.1	8.8	11.9	13.7	14.9	15.5	16.2	17.2	17.7	17.2	15.1	13.2	12.7	11.3	8.3	6.4	9.4
21	5.2	3.8	2.7	1.8	1	0.5	0.2	0	0.8	2.2	3.7	5.3	6.8	7.6	7.5	6.5	4.5	2.6	1.2	0.6	0.7	1	1.2	1.1	2.9
22	1.1	1.7	2.6	3.5	4	4.4	4.8	5.3	6	7.3	8.5	9.2	9.4	9.7	9.7	9.2	8.6	7.8	6.9	6.3	5.9	5.5	5.3	5.3	6.2
23	5.4	5.5	5.7	5.9	6.2	6.4	6.5	6.7	6.9	7.1	7.5	8.1	8.5	8.7	9	8.9	8.7	8.2	7.8	7.2	6.6	6.3	5.7	5.5	7
24	5.3	4.7	4.2	3	1.7	1	0.5	0.5	2.4	5.3	7.7	9.7	11.3	12	12.2	12.5	11.4	8.8	6.7	5.6	4.9	4.6	4.3	3.9	6
25	3.7	3.3	2.9	3	2.9	2.9	3.3	3.5	4.2	6.4	10.4	13.1	15.5	15.9	14.9	14.3	14	13.3	10.4	7.7	6.1	5.4	5.1	5.1	7.8
26	4.9	4.8	5.3	5.8	6.2	6.7	7.3	7.6	9.3	12.6	14.4	15.1	16.1	17.5	16.2	15.2	15.1	15	15.2	15	14.7	14.3	14	13.8	11.8
27	13.9	13.8	12.8	11.6	9.6	7.4	5.7	4.9	6.5	8.8	11	11.4	10.2	9.8	9.8	9.7	9.3	8.6	6.9	4.7	3	2.5	2.2	1.1	8.1
28	0	-1	-1.9	-2.8	-3.6	-4.3	-4.7	-4.4	-2.1	0.6	2.8	4.6	5.7	6	6.4	6.8	7.4	7.1	4.6	1.7	-0.7	-2.2	-2.9	-3.3	0.8
29	-3.5	-3.7	-3.6	-4.2	-4.7	-4.6	-3.5	-3.2	-0.2	5.3	8.8	11	12.1	12.7	13.4	13.9	13.5	12.5	10	7.9	7.1	7.1	7.5	7.9	5
Avg	7.2	6.9	6.7	6.4	6	5.8	5.6	5.6	7	9.3	11.6	13.5	14.9	15.8	16.1	16.1	15.8	14.6	12.2	10.5	9.4	8.6	8	7.5	10
S D	5.7	5.8	5.9	6.1	6.2	6.2	6.2	6	5.4	4.9	4.8	4.9	5.1	5.3	5.5	5.6	5.6	5.5	5.5	5.7	5.9	5.9	5.7	5.6	4.9
S/A	0.79	0.84	0.89	0.96	1.03	1.08	1.11	1.07	0.78	0.53	0.41	0.37	0.34	0.34	0.34	0.34	0.35	0.38	0.45	0.55	0.63	0.68	0.72	0.75	0.49
Min	-3.5	-3.7	-3.6	-4.2	-4.7	-4.6	-4.7	-4.4	-2.1	0.6	2.8	4.6	5.7	6	6.4	6.5	4.5	2.6	1.2	0.6	-0.7	-2.2	-2.9	-3.3	0.8
Max	19.5	19.5	19.8	20.7	20.2	18.9	18.2	17.1	16.6	19.3	22.2	24.5	26	26.8	26.9	26.9	26.1	24.7	22.6	21.6	20.8	20.3	20.4	20	20.6
n	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	8352

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8352 total measurements.

Instrument: CSI Serial Number: Internal Temp Calibration Factor: N/A Calibration Date: 06/1995

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

February 2008

Wind Speed
Hourly and Daily Averages
Instrument: NRG MAX-40
Meters per Second

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	4.2	2.3	2.5	2.8	4.2	5.6	3.1	3.6	2.8	3.6	5.4	7.3	7.9	7.8	8.3	7.8	6.2	5.1	5.2	5	5.3	5.1	5.1	3.5	5
2	3.5	2.1	2.3	1.9	2.3	1.5	1	0.4	0.9	1.4	1.1	1	2	1.7	2.5	2.4	2.1	1.9	2.6	2.8	2.8	2.1	0.6	0.5	1.8
3	0.4	0.7	1.3	0.7	0.7	0.7	0.6	0.5	1.8	2.2	2.3	2.3	1.7	0.9	1.1	1.6	2.9	2.4	1.8	2	1.5	1.3	1.1	0.9	1.4
4	1.1	1.4	1.4	2.9	2	0.2	0.1	0.7	1.7	2.5	2.2	2.5	2.7	2.5	2.4	2.6	1.8	1.1	0.9	1.3	0.9	1.6	1.8	0.9	1.6
5	1.6	1.8	1.8	1.7	1.3	1.7	2.1	2.4	2.4	2.6	3.5	4.3	4.8	6.2	6.4	6.6	4.7	2.9	2.7	2.9	2.6	2.5	2.7	2.6	3.1
6	3.2	3	3.4	3	3	3.2	3.1	3.2	3.1	3.5	5.8	6.7	7.5	7.7	5.5	4.7	3.8	3.3	4.3	5.6	5.8	6.9	5.9	5.2	4.6
7	5.1	4.8	7	7.8	6.5	6.4	5.2	3.9	5.5	5.7	4.4	5.3	4.3	3.8	4	3.8	2.9	2	2.3	1.8	1.5	1.4	1.8	1.6	4.1
8	2	2.8	3	3.3	2.9	3.6	2.2	1.9	2	2.1	0.8	1.7	2.2	2.9	2.9	3.1	2.7	2.1	2.1	1.7	1.1	1.8	1.9	2.1	2.3
9	1.8	1.3	1.6	1.2	1.8	1.5	1.9	2	2.9	3.6	4.4	3.6	4.4	5.1	5.2	5	4.1	2.5	1.3	1.7	1.2	1	1.8	2.8	2.6
10	3.6	2.4	2.4	2.3	2.4	2.3	2.4	3.8	5.6	6.9	9.1	8.8	9.8	9.7	9.5	9.9	9.1	9.1	7.7	6.7	4.8	5	4.6	3.9	5.9
11	4	3.2	2.6	2.2	2.5	2.5	2.7	2.5	3.4	2.5	2.5	1.9	1.8	1.6	2.2	2.1	1.7	1.9	2.4	2.2	2.1	1.4	2.2	2.3	2.3
12	2.7	1.8	1.7	1.2	1	2.1	2.1	2.3	3.3	4.4	5.3	4.7	5	3.7	3.9	5.1	5.2	4.5	4.5	4.6	4.6	4.9	4.9	4.8	3.7
13	5.3	5.5	5.5	4.4	4.6	3.7	2.8	2.4	4.7	8.8	6.9	4.6	6.2	6.3	4.9	3.4	3.8	4.1	3.4	3.7	4.3	3.6	4.4	3.4	4.6
14	3.3	3.2	3.6	2.1	3.3	3.3	2.8	2.8	3	3.7	3.4	1.9	1.6	1.6	1.7	1	1.6	0.8	1.1	1.4	0.6	0.3	1.3	1.5	2.1
15	1.7	1.6	1.7	2	2.7	2.4	2.5	2.8	4.4	4.4	4.7	4.4	4.5	3.7	3.4	3.2	2.7	1.8	1.8	1.5	1.3	1.8	1.9	2.1	2.7
16	2.2	1.9	1.3	1.9	3.9	4.1	5	4.8	5.6	5.1	6.2	5.2	5.3	4.8	4.9	4	3.3	3.5	2.1	1.5	0.9	1.1	1.7	2.5	3.5
17	2.6	2.4	1.8	1.5	1.9	1.8	2.3	2.8	4.1	3.9	3.7	4.3	5	3.4	3	4.1	3.5	3.5	4.9	4.2	4	4.4	4.2	4.6	3.4
18	6	5.3	4.3	3.8	5.7	4.5	2.6	3.3	3	2.8	3.5	4.2	4	3.4	4.6	5.6	6.8	5.9	3.6	3.8	2.5	2.2	1.9	2.8	4
19	3	2.7	2.1	1.2	0.9	1	1.9	2.2	3.1	3.6	4	5.9	6.7	7.8	7.3	6.8	6.5	5.4	3.2	2.3	2	1.8	1.7	1.2	3.5
20	1	1.3	1.6	1.8	1.6	1.5	2.4	1.6	1.6	1.8	2	3	4.1	4.7	5.1	4.6	4.1	4.6	3.7	3.9	4.4	4.9	4.8	5.3	3.1
21	5.6	4.8	4.6	4.5	3.6	3.6	4.4	4	4.3	3.9	3.9	4	3.2	3.6	3.4	3.4	3.3	2.7	2.1	1.8	0.8	0.9	0.8	1.5	3.3
22	1.7	1.9	1.4	1.4	0.9	1.1	1.5	1.8	1.9	0.6	1.2	2.1	1.9	1.8	2	1.1	2.3	2.6	2.8	3	2.7	1.9	1.9	1.9	1.8
23	0.6	0.2	0.1	0.1	0.1	0.3	0.3	0.6	0.9	1.1	0.3	0.1	0.9	1	0.9	0.5	1.5	2	1.9	2.5	2.2	1.9	1.4	1.6	1
24	3	3.5	3	1.2	1.1	0.6	1.3	1.3	2.9	3.4	3.5	3.3	2.9	2.9	2.7	2.4	2.6	3	2.3	1.8	1.9	1.5	1.9	1.4	2.3
25	0.9	0.1	0.4	0.5	0.4	0.2	0.3	0.3	0.3	0.6	1.5	1.6	2.4	1.5	1.4	1.2	0.9	0.8	1.1	1.7	1.8	2.3	2.2	2	1.1
26	1.2	2.1	2.2	1.6	1.6	2.4	2.7	2.5	3.7	3.3	4.3	4.6	4.2	1.8	4.6	5.1	5.3	4.1	2.8	2.6	3	4.3	3.2	2.9	3.2
27	3	3.5	4	4.2	3.8	3.7	2.9	3.2	3.7	3.5	3.5	3	4	5.2	5.2	4.3	4.3	4.9	3.2	2.1	3.1	4	4.3	3.9	3.8
28	4.1	4.2	3.8	3.3	3.5	3.3	3	3.1	3.2	3.7	3.8	3.5	4.2	4.6	4.6	4	4.2	3.1	1.5	0.6	0.3	0.5	0.4	0.4	3
29	0.2	0.2	0	0	0	0.8	0.3	0.1	0.4	1.7	2.6	3.2	3.7	3.8	3.7	4.1	3.6	4.1	3.8	3.7	4.2	3.6	2.8	4.3	2.3
Avg	2.7	2.5	2.5	2.3	2.4	2.4	2.3	2.3	3	3.3	3.6	3.8	4.1	4	4	3.9	3.7	3.3	2.9	2.8	2.6	2.6	2.6	2.6	3
S D	1.6	1.5	1.6	1.6	1.6	1.6	1.3	1.2	1.5	1.8	1.9	1.9	2.1	2.3	2.1	2.1	1.8	1.8	1.5	1.4	1.5	1.7	1.5	1.4	1.2
S/A	0.59	0.59	0.63	0.71	0.67	0.67	0.57	0.54	0.49	0.53	0.53	0.51	0.51	0.58	0.52	0.54	0.49	0.53	0.52	0.52	0.6	0.64	0.58	0.55	0.4
Min	0.2	0.1	0	0	0	0.2	0.1	0.1	0.3	0.6	0.3	0.1	0.9	0.9	0.9	0.5	0.9	0.8	0.9	0.6	0.3	0.3	0.4	0.4	1
Max	6	5.5	7	7.8	6.5	6.4	5.2	4.8	5.6	8.8	9.1	8.8	9.8	9.7	9.5	9.9	9.1	9.1	7.7	6.7	5.8	6.9	5.9	5.3	5.9
n	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	8352

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8352 total measurements.

Instrument: NRG MAX-40 Serial Number: 0 Calibration Factor: 0.76171 m/s/mV Calibration Date: 06/1995

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University

36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

February 2008

Wind Direction
Hourly and Daily Averages
Instrument: NRG Vane
Degrees from North

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	103	77	79	96	141	179	191	208	215	212	202	208	211	217	217	229	266	276	285	288	319	322	317	311	232
2	309	304	300	307	302	332	341	338	313	339	47	195	240	223	218	229	213	172	173	193	216	216	250	244	251
3	224	239	243	264	261	252	256	251	272	288	308	309	328	51	85	104	124	117	116	126	129	121	114	90	152
4	71	76	130	148	128	37	221	185	180	176	209	217	215	222	237	220	225	170	204	219	234	203	230	213	196
5	230	250	244	246	240	233	233	241	247	256	264	268	271	272	285	282	281	268	257	255	258	243	244	251	262
6	246	249	250	247	244	242	245	254	260	257	272	269	266	268	259	264	255	231	235	236	237	233	242	245	251
7	250	263	276	284	293	296	304	298	307	315	322	312	317	326	314	306	312	65	115	125	118	98	104	113	300
8	101	99	110	95	88	98	86	61	84	109	119	340	19	47	62	75	69	95	118	104	115	120	134	150	89
9	148	162	164	168	164	177	184	178	173	193	210	230	243	260	272	278	276	280	285	281	263	236	223	261	233
10	330	339	324	323	300	273	264	275	286	292	295	299	306	304	309	300	302	313	318	321	334	352	349	19	310
11	27	16	32	29	30	54	53	52	48	46	17	23	353	324	302	294	307	114	116	122	122	131	129	132	45
12	153	168	181	183	141	114	120	124	128	143	148	144	160	176	193	203	212	213	209	206	202	200	203	201	179
13	203	198	203	211	223	218	203	172	160	217	237	249	275	286	294	291	295	22	51	43	49	55	38	32	240
14	13	358	359	357	350	355	350	351	2	3	7	9	0	341	316	352	287	281	210	157	172	215	217	209	351
15	214	221	232	242	243	263	269	271	275	276	285	299	301	281	275	261	275	262	270	261	261	271	272	297	271
16	291	303	6	64	85	86	90	92	96	91	88	86	82	90	95	91	99	105	113	99	97	101	113	123	90
17	127	124	122	92	98	85	98	114	127	134	145	158	169	177	201	197	202	209	213	216	215	215	218	215	174
18	216	219	224	221	213	243	242	221	218	231	237	236	240	245	263	274	279	281	260	280	343	346	342	345	250
19	346	348	348	317	272	261	280	316	326	327	317	308	310	308	311	309	309	307	291	273	271	267	286	311	309
20	307	277	275	284	283	287	314	322	333	343	286	223	231	226	235	235	237	261	242	248	359	54	55	48	274
21	50	52	50	49	41	51	51	47	60	51	46	65	64	63	97	97	111	108	105	112	65	63	60	89	64
22	94	107	113	75	57	54	66	79	85	57	44	51	66	51	4	348	337	316	310	313	315	314	303	301	14
23	309	231	286	102	212	176	103	123	58	113	142	17	19	59	49	59	54	58	65	52	46	52	46	49	57
24	54	56	60	67	62	47	58	54	73	76	81	96	98	113	122	123	129	134	138	129	120	124	121	96	95
25	96	84	19	37	67	7	321	329	329	1	3	319	322	338	345	357	6	124	142	130	148	158	171	180	59
26	193	172	180	191	185	171	178	175	190	204	190	192	200	246	203	210	236	248	255	261	266	279	270	266	217
27	297	323	326	324	326	332	329	330	337	345	338	333	321	322	316	320	319	319	329	327	325	317	317	321	324
28	321	323	326	331	336	340	342	343	353	355	351	346	308	318	316	325	318	326	342	323	244	254	233	211	330
29	262	275	0	0	257	65	51	188	196	220	227	222	220	231	225	177	208	210	204	200	211	230	252	274	220
Avg	297	300	291	294	276	276	307	290	298	269	274	267	271	277	272	265	272	272	244	244	269	258	264	272	264
n	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	8352

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8352 total measurements.

Instrument: NRG Vane Serial Number: 0 Calibration Factor: 0.1408 deg/mV Calibration Date: 06/1995

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

February 2008

Peak Wind Speed (1-Minute Gust)
Hourly and Daily Averages
Instrument: NRG MAX-40
Meters per Second

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	6.8	3.9	4	4.2	6.9	8.7	5.4	6.4	5	6.3	9.1	12.3	13.5	13.1	13.7	13.1	9.9	7.9	8.4	7.8	9.1	9.1	8.5	5.5	8.3
2	5.6	3.3	3.5	3.2	3.6	2.9	1.9	1.1	1.9	2.9	2.4	2.2	3.4	3.1	4	4	3.4	3	4.1	4.5	4.5	3.4	1.4	1.1	3.1
3	0.9	1.4	2.1	1.3	1.4	1.7	1.5	1.5	3.2	3.4	3.9	4.3	3.4	2.4	2.2	2.8	4.7	3.7	2.8	3.1	2.5	2.3	2	1.6	2.5
4	2	2.5	2.5	4.8	3.4	0.5	0.3	1.3	2.8	3.8	3.5	4	4.5	4.3	3.9	4	3.1	1.6	1.5	2.4	1.6	2.5	3.1	2	2.7
5	3	2.8	2.9	2.6	2.1	2.6	3.2	3.9	4.2	4.7	6	7	7.8	10.1	10.5	9.9	7.3	4.5	4.6	4.9	4.2	4.1	4.3	4.2	5.1
6	5.1	5.2	5.8	4.9	5.1	5	5	5.3	5.3	5.9	9.5	10.7	12.1	12.7	9.6	8.2	6	5.4	6.8	8.8	9.6	11.3	9.5	8.3	7.5
7	8.1	8	11.3	12.9	10.5	10.3	8.6	6.3	8.9	9.9	8.6	8.7	7.2	7.1	6.7	6.1	4.5	3.7	3.6	2.9	2.6	2.1	3	2.6	6.8
8	3.2	4.6	4.7	5.1	4.7	5.8	3.7	3.3	3.7	3.5	2	3.8	4.4	5.2	4.9	5.2	4.6	3.7	3.4	2.7	2	3.1	3.1	3.2	3.9
9	2.8	2.1	2.4	1.7	2.6	2.4	3	3	4.4	5.7	6.8	6.5	7.5	8.2	8.6	7.6	6.3	3.7	1.8	2.4	1.9	1.7	2.9	4.5	4.2
10	7	4.6	4.4	4	3.6	3.4	3.8	5.8	8.4	10.9	14.4	14.8	16.6	15.8	16	16.3	14.7	15.5	13	11.7	9.2	9.8	8.5	7	10
11	7.1	6.1	5	4	4.3	4.3	4.6	4.4	5.4	4.6	4.8	4	4	3.7	4.4	4.1	3.3	3.5	3.9	3.6	3.4	2.4	3.7	4	4.3
12	4.2	2.8	2.7	2.3	1.5	3.1	3.6	3.9	5.4	7.4	8.5	7.8	7.9	5.8	6.5	8.4	9.3	8.1	7.4	7.2	7.3	8.1	8	8.3	6.1
13	8.7	9.3	9.1	7.7	8.1	6.5	4.7	4.2	7.5	14.9	11.4	8	10.2	10.2	8	5.4	6.2	7.6	5.9	6.8	7.7	6.7	8.2	6.8	7.9
14	7.3	7.3	8.1	5.2	7.7	7.3	6.1	6.6	6.5	7.6	7	4.4	3.7	3.5	3.6	2.6	2.8	1.5	2	2.1	1.3	0.9	2.1	2.3	4.6
15	2.8	2.6	2.9	3.2	4.2	3.8	3.8	4.5	7.1	7	7.7	7.4	7.2	5.6	5.2	5.2	4.3	2.8	2.5	2.2	2	2.5	2.8	3.3	4.3
16	2.9	2.8	2.7	3.4	6.5	6.8	8.2	7.8	9	8.6	9.7	8.4	8.7	7.9	7.5	6.7	5.7	5.7	3.8	2.5	1.6	1.8	3	4.1	5.7
17	4.5	3.7	3	2.3	2.9	2.5	3.2	4.6	6.6	6.7	5.7	7.1	7.6	5.2	5.2	6.7	5.9	5.7	7.9	7	6.8	7.4	6.8	7.3	5.5
18	10	8.4	6.9	6.3	9.4	8.5	5.2	5.6	5.1	5.3	6.2	7	6.7	6.1	7.4	9.4	11	9	5.9	6.6	4.8	4.1	3.5	5.2	6.8
19	5.7	5.6	4.4	2	1.4	1.6	2.8	3.9	5.4	6.9	7.5	9.3	11.1	12.3	11.8	11.4	10.9	8.8	5.2	3.5	2.9	2.8	2.5	1.9	5.9
20	1.5	1.8	2.3	2.5	2.3	2.2	3.7	3.1	3.4	3.7	3.8	5	6.7	7.7	8.7	7.9	6.8	7.7	6.2	6.5	7.6	8.8	8	8.5	5.3
21	8.9	8	7.6	7.5	6.3	6.3	7.5	6.9	7.5	6.3	7.1	6.7	5.9	6.2	6	5.8	5.5	4.9	3.8	3.3	1.9	1.9	2.1	2.8	5.7
22	3.1	3.6	3.1	3	2.5	2.6	3.4	3.8	3.6	1.9	2.7	3.9	4.1	3.4	5	3.4	5	4.8	4.9	5.5	5.3	4	3.6	3.6	3.7
23	1.6	0.8	0.5	0.3	0.4	1	1.2	1.7	2.4	2.4	1.3	0.9	2.4	2.7	2.4	1.7	3.2	3.9	3.9	4.8	4.5	4	3.2	3.6	2.3
24	5.7	6.3	5.4	3.3	2.9	1.6	3.1	3.3	5.6	5.7	5.9	5.6	5	4.8	4.6	4.2	4.3	4.7	3.8	3.3	3.2	2.8	3.4	2.5	4.2
25	2	0.5	1.2	1.4	1.1	0.9	0.7	1	0.9	1.8	3.3	3.8	4.6	3.5	3.3	2.9	2.2	1.6	1.5	2.8	2.9	3.4	3.6	2.9	2.2
26	2	3.3	3.3	2.6	2.6	3.7	4.3	3.9	5.8	5.4	7.1	7.8	7	3.1	7.7	8.3	9.2	7.2	5.3	4.5	5	6.4	4.9	4.7	5.2
27	5.1	6.4	7.3	7.3	6.8	7.1	5.9	6.2	6.8	7	6.9	5.9	7.3	9	8.7	8.1	8.1	8.6	6.2	4.2	5.9	6.6	7.4	6.9	6.9
28	7.1	7.4	7.1	6.2	6.6	6.5	6.1	6.1	7.1	7.4	7.4	6.6	7.7	8.1	8	7.7	7.5	5.6	3	1.3	0.8	1	1.1	0.9	5.6
29	0.7	0.5	0	0	0.1	1.3	0.6	0.2	1.1	3.1	4.4	5.7	6.1	6.8	6.3	6.5	6.2	6.6	6.1	6.2	6.6	6	4.6	7	3.9
Avg	4.7	4.3	4.3	4	4.2	4.2	4	4.1	5.2	5.9	6.4	6.5	7	6.8	6.9	6.7	6.3	5.6	4.8	4.7	4.4	4.5	4.4	4.4	5.2
S D	2.6	2.5	2.6	2.7	2.7	2.7	2.1	2	2.2	2.9	3	2.9	3.2	3.5	3.3	3.3	2.9	2.9	2.5	2.4	2.6	2.9	2.5	2.3	1.9
S/A	0.56	0.58	0.61	0.67	0.65	0.64	0.54	0.49	0.43	0.48	0.47	0.45	0.46	0.52	0.47	0.49	0.46	0.53	0.51	0.52	0.59	0.63	0.56	0.52	0.36
Min	0.7	0.5	0	0	0.1	0.5	0.3	0.2	0.9	1.8	1.3	0.9	2.4	2.4	2.2	1.7	2.2	1.5	1.5	1.3	0.8	0.9	1.1	0.9	2.2
Max	10	9.3	11.3	12.9	10.5	10.3	8.6	7.8	9	14.9	14.4	14.8	16.6	15.8	16	16.3	14.7	15.5	13	11.7	9.6	11.3	9.5	8.5	10
n	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	8352

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8352 total measurements.

Instrument: NRG MAX-40 Serial Number: 0 Calibration Factor: 0.76171 m/s/mV Calibration Date: 06/1995

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University

36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

February 2008

Station Pressure
Hourly and Daily Averages
Instrument: Viasala PTA-427
Millibars

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	1024	1023	1022	1020	1018	1018	1018	1018	1017	1017	1016	1014	1012	1010	1008	1007	1009	1009	1010	1011	1013	1014	1015	1016	1015
2	1017	1018	1019	1019	1020	1020	1021	1022	1023	1024	1024	1024	1023	1022	1022	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021
3	1021	1021	1020	1020	1020	1021	1021	1021	1022	1022	1022	1022	1021	1021	1020	1020	1020	1021	1021	1022	1022	1022	1022	1022	1021
4	1022	1022	1022	1020	1020	1022	1022	1022	1022	1022	1022	1022	1021	1020	1020	1019	1020	1020	1020	1020	1021	1021	1020	1020	1021
5	1019	1019	1019	1019	1018	1018	1018	1018	1018	1018	1018	1017	1016	1014	1014	1014	1014	1014	1013	1013	1013	1013	1013	1012	1016
6	1012	1012	1011	1011	1010	1010	1011	1011	1011	1011	1010	1009	1007	1006	1005	1005	1005	1004	1004	1004	1003	1002	1001	1002	1007
7	1002	1001	1001	1001	1002	1003	1004	1005	1006	1007	1008	1008	1007	1007	1008	1008	1009	1009	1010	1010	1011	1011	1010	1010	1007
8	1009	1009	1009	1008	1008	1009	1009	1010	1010	1010	1011	1011	1011	1011	1011	1012	1012	1013	1014	1015	1015	1016	1016	1015	1011
9	1015	1015	1015	1015	1015	1015	1014	1015	1014	1014	1013	1013	1011	1009	1009	1008	1008	1008	1009	1009	1009	1009	1008	1008	1012
10	1009	1010	1011	1012	1012	1012	1012	1013	1013	1013	1012	1011	1009	1008	1008	1007	1007	1008	1009	1010	1012	1014	1016	1017	1011
11	1019	1020	1021	1022	1022	1024	1024	1026	1026	1027	1027	1027	1026	1025	1025	1025	1025	1025	1026	1026	1027	1027	1026	1026	1025
12	1026	1026	1026	1025	1026	1026	1025	1025	1025	1025	1024	1023	1021	1020	1018	1018	1017	1017	1017	1016	1015	1014	1014	1013	1021
13	1011	1010	1008	1007	1007	1006	1005	1003	999	997	998	997	996	996	996	996	996	998	998	999	1000	1001	1001	1003	1001
14	1004	1006	1007	1008	1011	1013	1014	1016	1018	1019	1020	1021	1021	1021	1021	1021	1021	1022	1022	1022	1022	1023	1023	1023	1017
15	1023	1023	1022	1022	1021	1021	1022	1022	1022	1022	1022	1022	1020	1019	1019	1018	1018	1018	1019	1019	1019	1019	1019	1019	1020
16	1018	1018	1019	1019	1020	1020	1021	1023	1023	1024	1024	1024	1024	1023	1023	1023	1024	1024	1024	1025	1025	1025	1025	1024	1023
17	1024	1023	1023	1022	1021	1022	1022	1022	1021	1021	1020	1019	1017	1016	1015	1014	1013	1013	1012	1012	1012	1011	1011	1010	1017
18	1008	1008	1007	1006	1005	1004	1004	1005	1005	1004	1004	1003	1002	1001	1000	999	999	1000	1002	1004	1006	1007	1008	1009	1004
19	1010	1011	1011	1012	1012	1013	1013	1014	1014	1015	1015	1014	1013	1012	1012	1012	1012	1013	1013	1014	1015	1015	1016	1016	1013
20	1016	1017	1017	1017	1018	1018	1019	1020	1020	1020	1019	1018	1016	1015	1013	1012	1011	1012	1012	1013	1015	1018	1019	1020	1016
21	1022	1023	1023	1024	1025	1025	1026	1027	1028	1029	1028	1028	1027	1027	1026	1026	1026	1026	1026	1026	1025	1025	1024	1022	1026
22	1021	1020	1019	1018	1017	1016	1015	1014	1013	1012	1012	1011	1009	1007	1007	1007	1007	1008	1008	1009	1010	1010	1010	1010	1012
23	1010	1010	1009	1008	1009	1009	1009	1009	1010	1010	1010	1010	1010	1010	1010	1010	1011	1012	1013	1014	1016	1016	1016	1017	1011
24	1018	1017	1018	1018	1019	1019	1020	1021	1022	1022	1021	1021	1020	1019	1018	1018	1018	1018	1018	1017	1017	1016	1015	1015	1019
25	1015	1014	1014	1013	1013	1014	1014	1014	1014	1015	1014	1014	1013	1012	1012	1012	1012	1012	1013	1013	1013	1013	1012	1012	1013
26	1012	1011	1010	1010	1009	1009	1008	1007	1006	1006	1005	1002	1001	1000	998	995	995	994	994	994	994	994	995	995	1002
27	995	995	996	996	997	998	999	1000	1001	1001	1001	1002	1002	1002	1002	1003	1004	1005	1006	1008	1009	1010	1011	1011	1002
28	1012	1013	1014	1014	1015	1016	1017	1019	1020	1021	1022	1022	1021	1021	1021	1022	1022	1023	1024	1025	1026	1027	1027	1027	1021
29	1028	1028	1028	1029	1029	1030	1031	1031	1032	1032	1032	1031	1030	1029	1028	1026	1026	1025	1025	1025	1024	1023	1023	1023	1028
Avg	1015	1015	1015	1015	1015	1016	1016	1016	1016	1017	1016	1016	1015	1014	1013	1013	1013	1013	1014	1014	1015	1015	1015	1015	1015
S D	8	8	7	7	7	7	8	8	8	8	8	9	9	9	9	9	9	9	8	8	8	8	8	8	7
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	995	995	996	996	997	998	999	1000	999	997	998	997	996	996	996	995	995	994	994	994	994	994	995	995	1001
Max	1028	1028	1028	1029	1029	1030	1031	1031	1032	1032	1032	1031	1030	1029	1028	1026	1026	1026	1026	1026	1027	1027	1027	1027	1028
n	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	8352

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8352 total measurements.

Instrument: Viasala PTA-427 Serial Number: 493926 Calibration Factor: 0.104 mBar/mV + 800 mBar Calibration Date: 06/1995

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Prepared by: Afshin M. Andreas, NREL

Elizabeth City State University

36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

February 2008

Battery Voltage (CR10)
Hourly and Daily Averages
Instrument: CSI
Volts DC

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.9	13.1	13.4	13.4	13.4	13.1	12.8	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.7
2	12.5	12.5	12.5	12.5	12.4	12.4	12.4	13.3	13.8	13.7	13.6	13.6	13.5	13.5	13.5	13.6	13.6	12.8	12.7	12.6	12.6	12.6	12.6	12.6	13
3	12.6	12.5	12.5	12.5	12.5	12.5	12.5	13.1	13.8	13.7	13.6	13.5	13.5	13.4	13.3	13.4	13.4	12.8	12.7	12.6	12.6	12.6	12.6	12.6	13
4	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.5	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13.4	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.9
5	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.6	12.8	13.2	13.5	13.4	13.3	13.3	13.3	13.3	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.8
6	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.8	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.1	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.9
7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.2	13.5	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13.4	12.9	12.7	12.6	12.6	12.6	12.6	12.6	12.9
8	12.6	12.6	12.5	12.5	12.5	12.5	12.5	13.2	13.7	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13.6	12.9	12.7	12.6	12.6	12.6	12.6	12.6	13
9	12.6	12.6	12.5	12.5	12.5	12.5	12.5	13.1	13.7	13.6	13.6	13.5	13.4	13.4	13.4	13.4	13.4	12.9	12.7	12.7	12.7	12.6	12.6	12.6	13
10	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.4	13.7	13.6	13.6	13.5	13.5	13.5	13.5	13.5	13.5	12.8	12.7	12.7	12.7	12.6	12.6	12.6	13
11	12.6	12.5	12.5	12.5	12.4	12.4	12.4	13.6	14	13.9	13.9	13.9	13.8	13.7	13.7	13.7	13.8	13	12.7	12.7	12.6	12.6	12.6	12.6	13.1
12	12.6	12.6	12.5	12.5	12.5	12.4	12.4	12.8	13.8	13.8	13.7	13.7	13.6	13	13.4	13.6	13.4	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
13	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.6	13	13.4	13.4	13.4	13.3	13.4	12.9	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.8
14	12.6	12.5	12.5	12.5	12.5	12.4	12.4	13.4	14	13.9	13.9	13.8	13.7	13.7	13.7	13.7	13.7	13.1	12.7	12.7	12.6	12.6	12.6	12.6	13.1
15	12.6	12.6	12.6	12.5	12.5	12.5	12.4	13.3	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.5	12.8	12.7	12.7	12.7	12.7	12.6	12.6	13
16	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.6	13.4	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.8	13	12.7	12.6	12.6	12.6	12.6	12.6	13
17	12.6	12.6	12.5	12.5	12.5	12.5	12.4	13.3	13.7	13.7	13.6	13.6	13.5	13.2	13.2	13.5	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
18	12.7	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.7	12.9	12.9	13.1	12.9	13.2	13.3	13.4	13.4	12.9	12.7	12.7	12.7	12.6	12.6	12.6	12.8
19	12.6	12.6	12.5	12.5	12.5	12.4	12.4	13.6	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13	12.7	12.7	12.6	12.6	12.6	12.6	13
20	12.6	12.6	12.5	12.5	12.5	12.5	12.4	13.5	13.8	13.7	13.6	13.6	13.6	13.6	13.5	13.5	13.5	13	12.7	12.7	12.7	12.7	12.6	12.6	13
21	12.6	12.6	12.5	12.5	12.5	12.5	12.4	13.5	13.9	13.9	13.9	13.8	13.8	13.8	13.8	13.9	13.6	12.8	12.7	12.6	12.6	12.6	12.6	12.6	13.1
22	12.6	12.6	12.5	12.5	12.5	12.4	12.4	12.4	12.4	12.6	12.6	12.6	12.9	13.2	13	13	12.8	12.7	12.6	12.6	12.5	12.5	12.4	12.4	12.6
23	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.7	12.6	12.6	12.7	13.2	13	12.9	12.7	12.7	12.6	12.5	12.4	12.4	12.4	12.4	12.6
24	12.4	12.4	12.4	12.4	12.4	12.4	12.3	13	13.8	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.3	12.8	12.7	12.7	12.7	12.6	12.6	12.6	13
25	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13.6	13.6	13.6	13.5	13.6	13.6	13.6	13.6	12.9	12.7	12.7	12.6	12.6	12.6	12.6	13
26	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.6	13.6	13.6	13.6	13.6	12.9	12.7	12.9	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9
27	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.6	13.8	13.7	13.7	13.7	13.7	13.8	13.8	13.7	13.7	13	12.7	12.6	12.6	12.6	12.6	12.6	13.1
28	12.5	12.5	12.5	12.5	12.4	12.4	12.5	14	14	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.7	13.1	12.7	12.7	12.6	12.6	12.6	12.5	13.1
29	12.5	12.5	12.5	12.4	12.4	12.4	12.4	13.1	13.9	13.8	13.7	13.7	13.7	13.6	13.6	13.6	13.7	13.1	12.7	12.7	12.7	12.7	12.6	12.6	13
Avg	12.6	12.6	12.5	12.5	12.5	12.5	12.5	13	13.5	13.5	13.5	13.5	13.5	13.5	13.4	13.5	13.4	12.9	12.7	12.7	12.6	12.6	12.6	12.6	12.9
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.5	0.4	0.4	0.3	0.3	0.2	0.3	0.3	0.3	0.1	0	0	0.1	0.1	0.1	0.1	0.1
S/A	0	0	0	0	0	0	0	0.03	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.02	0.03	0.01	0	0	0	0	0	0	0.01
Min	12.4	12.4	12.4	12.4	12.4	12.4	12.3	12.4	12.4	12.6	12.6	12.6	12.7	12.9	12.7	12.8	12.7	12.7	12.6	12.5	12.4	12.4	12.4	12.4	12.6
Max	12.7	12.7	12.6	12.6	12.6	12.6	12.6	14	14	13.9	13.9	13.9	13.8	13.8	13.8	13.9	13.8	13.1	12.8	12.7	12.7	12.7	12.7	12.7	13.1
n	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	8352

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8352 total measurements.

Instrument: CSI Serial Number: Battery Calibration Factor: N/A Calibration Date: 06/1995

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

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