

February 2009

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	45	?	?	?	?	?	?	?	?	63 ?	19	0	0	0	0	0	0	128 ?
2	0	0	0	0	0	0	0	45	?	?	?	?	?	340 ?	240	164	73	7	0	0	0	0	0	0	870 ?
3	0	0	0	0	0	0	0	5	36	60 ?	95	105	98	83	192 ?	104 ?	76	24	0	0	0	0	0	0	879 ?
4	0	0	0	0	0	0	0	29	150	163 ?	?	?	?	242 ?	238 ?	145 ?	72	19	0	0	0	0	0	0	1058 ?
5	0	0	0	0	0	0	0	48	?	?	?	?	?	?	?	?	89 ?	27	0	0	0	0	0	0	164 ?
6	0	0	0	0	0	0	0	53	?	?	?	?	?	?	?	?	83 ?	21	0	0	0	0	0	0	157 ?
7	0	0	0	0	0	0	0	48	?	?	?	?	?	?	?	?	85 ?	22	0	0	0	0	0	0	155 ?
8	0	0	0	0	0	0	0	45	?	?	?	?	?	?	?	?	84 ?	24	0	0	0	0	0	0	153 ?
9	0	0	0	0	0	0	0	50	?	?	?	?	?	?	320 ?	238	138 ?	26	0	0	0	0	0	0	772 ?
10	0	0	0	0	0	0	1	31	?	?	?	?	313 ?	366 ?	327	148	83	29	0	0	0	0	0	0	1299 ?
11	0	0	0	0	0	0	1	50	157	236	322 ?	367	418 ?	365 ?	259 ?	168	68	18	0	0	0	0	0	0	2428 ?
12	0	0	0	0	0	0	4	60	?	?	?	?	?	?	?	?	104 ?	35	0	0	0	0	0	0	203 ?
13	0	0	0	0	0	0	3	55	?	?	?	?	?	?	?	298 ?	104 ?	12	0	0	0	0	0	0	473 ?
14	0	0	0	0	0	0	3	46	136	267 ?	364 ?	250	294	312 ?	?	215 ?	93	17	0	0	0	0	0	0	1997 ?
15	0	0	0	0	0	0	3	59	?	?	?	?	?	?	?	?	84 ?	44	0	0	0	0	0	0	190 ?
16	0	0	0	0	0	0	3	29	103 ?	?	?	?	?	294 ?	314 ?	213 ?	111 ?	38	0	0	0	0	0	0	1103 ?
17	0	0	0	0	0	0	5	56 ?	?	?	?	?	?	?	?	?	106 ?	38	0	0	0	0	0	0	205 ?
18	0	0	0	0	0	0	2	21	48	43 ?	57 ?	57	136	111	61	68	?	4	0	0	0	0	0	0	608 ?
19	0	0	0	0	0	0	3	36	?	?	?	?	293 ?	?	?	?	?	44	0	0	0	0	0	0	377 ?
20	0	0	0	0	0	0	8	63 ?	?	?	?	?	?	?	?	?	115 ?	51	0	0	0	0	0	0	237 ?
21	0	0	0	0	0	0	8	62 ?	?	?	?	?	?	?	?	?	?	46	0	0	0	0	0	0	117 ?
22	0	0	0	0	0	0	0	15	99	107	77	217	69 ?	132 ?	282 ?	111 ?	?	50	0	0	0	0	0	0	1160 ?
23	0	0	0	0	0	0	10	70 ?	?	?	?	?	?	?	?	?	?	50	0	0	0	0	0	0	129 ?
24	0	0	0	0	0	0	11	68 ?	?	?	?	?	?	?	?	?	?	49	0	0	0	0	0	0	128 ?
25	0	0	0	0	0	0	27	125 ?	?	?	?	?	?	?	?	?	?	53	0	0	0	0	0	0	205 ?
26	0	0	0	0	0	0	17	88 ?	?	?	?	?	?	?	?	?	?	46	0	0	0	0	0	0	151 ?
27	0	0	0	0	0	0	8	59 ?	?	?	?	464	506 ?	?	?	158 ?	56	7	0	0	0	0	0	0	1259 ?
28	0	0	0	0	0	0	1	22 ?	34 ?	48	68	95	84	81 ?	45 ?	53	31 ?	4	0	0	0	0	0	0	567 ?

Avg	0	0	0	0	0	0	4	49	95	132	164	222	246	233	228	160	86	29	0	0	0	0	0	0	613 ?
S D	0	0	0	0	0	0	6	24	51	92	140	151	157	119	101	69	24	16	0	0	0	0	0	0	605
S/A	0	0	0	0	0	0	1.44	0.48	0.53	0.7	0.85	0.68	0.64	0.51	0.44	0.43	0.27	0.53	0	0	0	0	0	0	0.99
Min	0	0	0	0	0	0	0	5	34	43	57	57	69	81	45	53	31	4	0	0	0	0	0	0	117
Max	0	0	0	0	0	0	27	125	157	267	364	464	506	366	327	298	138	53	0	0	0	0	0	0	2428
n	0	0	0	0	0	0	52	285	82	63	60	82	73	77	73	105	137	231	0	0	0	0	0	0	1331

Daylight Data Recovery: 0.0% missing; 0.0% untested; 63.5% exceed the 15% QC threshold -- 3642 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31392F3 Calibration Factor: 7.3961 μV/W/m² Calibration Date: 07/2007

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.

February 2009

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	0	0	0	0	0	0	1?
2	0	0	0	0	0	0	0	2	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	0	0	0	2?
3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1?	0?	0	0	0	0	0	0	0	0	0	1
4	0	0	0	0	0	0	0	0	0	0?	?	?	?	0?	0?	0?	0	0	0	0	0	0	0	0	0	0?
5	0	0	0	0	0	0	0	2	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	2?
6	0	0	0	0	0	0	0	4	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	4?
7	0	0	0	0	0	0	0	2	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	2?
8	0	0	0	0	0	0	0	1	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	1?
9	0	0	0	0	0	0	0	3	?	?	?	?	?	?	0?	0	0?	0	0	0	0	0	0	0	0	3?
10	0	0	0	0	0	0	1	1	?	?	?	?	0?	1?	0	0	0	0	0	0	0	0	0	0	0	3?
11	0	0	0	0	0	0	0	1	1	0	1?	1	0?	0?	0?	0	0	0	0	0	0	0	0	0	0	5?
12	0	0	0	0	0	0	0	2	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	2?
13	0	0	0	0	0	0	0	3	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	3?
14	0	0	0	0	0	0	0	1	1	1?	1?	0	0?	?	?	0?	0	0	0	0	0	0	0	0	0	3?
15	0	0	0	0	0	0	0	4	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	4?
16	0	0	0	0	0	0	0	0	1?	?	?	?	?	0?	0?	0?	0?	0	0	0	0	0	0	0	0	1?
17	0	0	0	0	0	0	0	5?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	5?
18	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	1
19	0	0	0	0	0	0	0	0	?	?	?	?	0?	?	?	?	?	0	0	0	0	0	0	0	0	0?
20	0	0	0	0	0	0	1	5?	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	7?
21	0	0	0	0	0	0	1	9?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	9?
22	0	0	0	0	0	0	0	0	1	0	3	2	0	1	2?	0?	?	?	0	0	0	0	0	0	0	10?
23	0	0	0	0	0	0	1	5?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	6?
24	0	0	0	0	0	0	1	7?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	9?
25	0	0	0	0	0	0	2	12?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	15?
26	0	0	0	0	0	0	1	8?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	9?
27	0	0	0	0	0	0	0	4?	?	?	?	2	2?	?	?	0?	0	0	0	0	0	0	0	0	0	8?
28	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Avg	0	0	0	0	0	0	0	3	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	4?
SD	0	0	0	0	0	0	1	3	0	0	1	1	1	0	1	0	0	0	0	0	0	0	0	0	0	4
S/A	0	0	0	0	0	0	1.64	1.07	0.76	1.2	1.64	1.4	1.91	1.83	2.15	2.8	3.4	3	0	0	0	0	0	0	0.88	
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	0	
Max	0	0	0	0	0	0	2	12	1	1	3	2	2	1	2	1	0	0	0	0	0	0	0	0	15	
n	0	0	0	0	0	0	52	290	86	70	66	84	82	84	85	108	154	232	0	0	0	0	0	0	1408	

Daylight Data Recovery: 0.0% missing; 0.0% untested; 61.3% exceed the 15% QC threshold -- 3642 total daylight measurements.

Instrument: Eppley NIP Serial Number: 23398E6 Calibration Factor: 7.1447 μV/W/m² Calibration Date: 07/2007

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.

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

February 2009

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	20	?	?	?	?	?	?	?	?	49 ?	16	0	0	0	0	0	0	85 ?
2	0	0	0	0	0	0	0	19	?	?	?	?	?	310 ?	233	155	72	7	0	0	0	0	0	0	797 ?
3	0	0	0	0	0	0	0	5	35	51	95	105	98	83	187 ?	97 ?	70	18	0	0	0	0	0	0	845
4	0	0	0	0	0	0	0	32	128	157 ?	?	?	?	226 ?	198 ?	140 ?	64	18	0	0	0	0	0	0	963 ?
5	0	0	0	0	0	0	0	21	?	?	?	?	?	?	?	?	26 ?	12	0	0	0	0	0	0	59 ?
6	0	0	0	0	0	0	0	20	?	?	?	?	?	?	?	?	31 ?	11	0	0	0	0	0	0	62 ?
7	0	0	0	0	0	0	0	27	?	?	?	?	?	?	?	?	29 ?	11	0	0	0	0	0	0	67 ?
8	0	0	0	0	0	0	0	24	?	?	?	?	?	?	?	?	36 ?	14	0	0	0	0	0	0	74 ?
9	0	0	0	0	0	0	0	21	?	?	?	?	?	?	248 ?	205	103 ?	23	0	0	0	0	0	0	600 ?
10	0	0	0	0	0	0	?	27	?	?	?	?	306 ?	325 ?	273	148	83	29	0	0	0	0	0	0	1190 ?
11	0	0	0	0	0	0	?	43	130	228	277 ?	323	345 ?	311 ?	211 ?	150	67	18	0	0	0	0	0	0	2104 ?
12	0	0	0	0	0	0	?	23	?	?	?	?	?	?	?	?	31 ?	15	0	0	0	0	0	0	68 ?
13	0	0	0	0	0	0	3	21	?	?	?	?	?	?	?	67 ?	40 ?	11	0	0	0	0	0	0	142 ?
14	0	0	0	0	0	0	2	41	119	226 ?	302 ?	240	277	285 ?	?	195 ?	81	15	0	0	0	0	0	0	1782 ?
15	0	0	0	0	0	0	4 ?	23	?	?	?	?	?	?	?	?	58 ?	27	0	0	0	0	0	0	112 ?
16	0	0	0	0	0	0	3 ?	29	90 ?	?	?	?	?	256 ?	242 ?	173 ?	82 ?	18	0	0	0	0	0	0	894 ?
17	0	0	0	0	0	0	4	23 ?	?	?	?	?	?	?	?	?	30 ?	17	0	0	0	0	0	0	73 ?
18	0	0	0	0	0	0	2	21	48	40	51	57	136	111	61	65	11 ?	4	0	0	0	0	0	0	606
19	0	0	0	0	0	0	4 ?	33	?	?	?	?	247 ?	?	?	?	?	20	0	0	0	0	0	0	305 ?
20	0	0	0	0	0	0	7 ?	23 ?	?	?	?	?	?	?	?	?	60 ?	22	0	0	0	0	0	0	112 ?
21	0	0	0	0	0	0	5	25 ?	?	?	?	?	?	?	?	?	?	18	0	0	0	0	0	0	48 ?
22	0	0	0	0	0	0	0	15	99	98	73	180	57	115	259 ?	108 ?	?	19	0	0	0	0	0	0	1024 ?
23	0	0	0	0	0	0	9 ?	28 ?	?	?	?	?	?	?	?	?	?	19	0	0	0	0	0	0	56 ?
24	0	0	0	0	0	0	8 ?	24 ?	?	?	?	?	?	?	?	?	?	14	0	0	0	0	0	0	46 ?
25	0	0	0	0	0	0	12 ?	35 ?	?	?	?	?	?	?	?	?	?	20	0	0	0	0	0	0	68 ?
26	0	0	0	0	0	0	13	52 ?	?	?	?	?	?	?	?	?	?	27	0	0	0	0	0	0	92 ?
27	0	0	0	0	0	0	7	31 ?	?	?	?	390	401 ?	?	?	154 ?	52	8	0	0	0	0	0	0	1043 ?
28	0	0	0	0	0	0	1	21 ?	30	48	66	95	77	75	37	51	25	5	0	0	0	0	0	0	532

Avg	0	0	0	0	0	0	3	26	85	121	144	199	216	210	195	131	52	16	0	0	0	0	0	0	495 ?
S D	0	0	0	0	0	0	4	9	42	83	114	125	127	102	82	50	24	6	0	0	0	0	0	0	564
S/A	0	0	0	0	0	0	1.16	0.35	0.49	0.68	0.79	0.63	0.59	0.49	0.42	0.38	0.46	0.39	0	0	0	0	0	0	1.14
Min	0	0	0	0	0	0	0	5	30	40	51	57	57	75	37	51	11	4	0	0	0	0	0	0	46
Max	0	0	0	0	0	0	13	52	130	228	302	390	401	325	273	205	103	29	0	0	0	0	0	0	2104
n	0	0	0	0	0	0	42	281	85	70	66	84	81	83	85	110	150	233	0	0	0	0	0	0	1385

Daylight Data Recovery: 0.0% missing; 0.0% untested; 62.0% exceed the 15% QC threshold -- 3642 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31393F3 Calibration Factor: 7.6820 μV/W/m² Calibration Date: 07/2007

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.

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

February 2009

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	1.7	1.9	2.3	2.7	3	3.2	3.7	3.5	5	7.5	9.9	11.3	12.4	13.2	14.1	14.6	14	12.4	11.1	10.4	9.8	8.8	7.9	7.9	8
2	8.4	7.9	5.9	5.3	5.1	5	5	5.5	7.2	10.5	12.7	14.1	14.9	15.5	15.5	15	14.6	13.5	12.9	11.9	11.5	11.2	11	7.2	10.3
3	4.7	4.3	4	3.7	3.3	3.5	3.4	2.7	2.6	2.6	2.7	2.9	3	3.2	3.9	4.8	4.7	4.4	3.5	2.5	2.2	2.1	2	2.7	3.3
4	2.6	1.8	1.5	0.8	-0.1	0	-0.3	-0.8	-1	-0.6	0.5	1.3	2.4	2.1	2.2	1.5	0.8	0	-0.7	-1	-1.6	-2.1	-2.8	-2.9	0.1
5	-2.8	-3.1	-3.4	-4.4	-4.8	-5	-5.2	-5.2	-4.6	-4	-3.6	-3	-2.7	-1.9	-1.3	-1	-1.1	-1.8	-2.7	-3.2	-3.9	-4.5	-5.1	-5.5	-3.5
6	-5.6	-5.4	-5.7	-5.3	-5.6	-5.5	-5.5	-4.5	-2.2	0.2	1.9	3.1	4.6	5.9	7.1	7.7	7.9	6.8	5.4	4	3.3	2.7	2.4	2.6	0.8
7	2.6	2.7	2.6	2.4	2.4	2.1	2.1	2.4	4	6.7	8.9	11.5	13.2	14.6	16.2	17.2	17	15.3	13.6	12.4	11.7	10.9	10.5	10.5	8.9
8	11	10.8	10.2	10.5	10.8	10.1	9.7	10.2	11.4	13.9	16.4	18.4	20	21.1	22.1	22.2	21.5	20	18.7	17.6	16.5	15.2	14	14.3	15.3
9	12.1	10	8	6.8	6.2	5.9	5.5	5.3	6.7	9	10.6	11.1	11.6	12.3	11.9	11.1	10.5	9	7.4	6.2	5.5	5.4	5.6	5.9	8.3
10	6.1	6.5	7.5	8.4	8.8	8.8	9.2	10	12.4	15.5	17.7	19.7	20.7	21.3	21.6	20.6	19.7	18.7	17.4	17	16.4	15.8	15.4	15.3	14.6
11	14.7	14.1	13.8	13.4	12.9	12.7	13.2	13.7	14.7	16.4	18	19.2	20.5	20.7	21.3	21.9	21.2	19.6	18.8	18.1	17.6	17.6	17.6	17.7	17.1
12	18.2	18.7	19.7	18.8	17.8	16.6	15.7	15.2	15.6	16.2	17	17.7	18.8	19.3	19.6	19	18.3	17.2	15.7	14.9	14	12.7	11.7	10.7	16.6
13	10.3	9.8	9.5	9.3	8.7	8.4	7.9	8.1	9.7	11.7	13.4	14.4	15.3	16	16.7	16.5	10.4	8.6	7.8	7.3	6.9	6.3	6	5.9	10.2
14	5.8	5.6	5.2	4.8	4.8	4.9	4.6	4.5	5.6	7.6	9	9.3	9.5	9.8	10.6	10.3	10.2	9.5	8	6.8	6.3	5.5	5	4.8	7
15	4.2	4.1	4.3	3.9	3.7	3.2	2.4	2.4	3.4	4.4	5.4	6.2	6.9	7.4	7.5	7.1	6.3	5.1	4.2	3.8	3.9	3.9	3.6	3.7	4.6
16	3.9	3.8	3.1	2.3	0.7	0.4	0.6	0.6	1.2	2.9	3.7	4.7	5.4	5.2	4.7	4.6	4.3	3.7	2.8	2.3	1.9	0.9	0	-0.7	2.6
17	-0.9	-1.3	-1.8	-1.9	-2	-2.4	-3.1	-2.7	-0.7	1.5	2.7	4	5.2	6.4	7.4	7.4	7.2	4.3	2.8	2.1	1.9	1.6	1.3	1.4	1.7
18	1.5	1.9	2.8	3.4	3.6	4	4.8	5.1	5.6	5.6	5.2	5.4	6.7	8.1	8.9	9.8	10.4	10.5	11	11.8	12.9	13.6	13.6	13.4	7.5
19	13.5	13.9	13.8	13.3	12.8	12.5	12.6	12.7	13.3	14.4	15.2	15.4	14.1	14.4	14.4	14.3	13.4	11.5	9.4	7.8	6	4.8	3.6	2.6	11.7
20	1.5	0.4	-0.5	-1.4	-2	-2.5	-2.9	-2.5	-1.3	-0.3	0.4	1.5	2.5	3	3.5	4.2	4.1	3.7	2.6	1.9	1.6	1.4	0.8	0.6	0.9
21	0.3	0	-0.6	-1.2	-1.4	-1.6	-2.1	-1.6	1.3	4	4.7	5.7	6.3	6.7	7.7	8.1	6.7	5.8	5.5	5.5	4.8	4.4	4.5	4.9	3.3
22	5.1	5.5	6.7	7.6	7.9	7.9	8.1	8.3	9.1	10	9.5	7.7	7.3	7	6.6	8	8.5	7.5	5.7	4.3	3.6	2.5	1.4	0.5	6.5
23	-0.4	-1.2	-1.8	-2.2	-2.7	-3	-3.4	-2.9	-1.2	0.3	1.2	2.1	3.1	4.1	4.8	5.2	5.1	3.8	2	1	0.1	-0.2	-0.4	-0.6	0.5
24	-1.2	-1.7	-2.2	-2.6	-3	-3.4	-3.9	-3.4	-2.4	-1.3	0	1.6	2.8	4	5	5.9	6	5.4	3.6	1.7	0.8	0.6	0.8	0.4	0.6
25	-0.4	-1.2	-1	-1.6	-1.7	-2	-3	-1.3	1.3	4.3	6.1	7.1	8.3	8.2	8.7	8.5	7.5	6.3	4.7	3.9	3.6	3.3	3.1	3.2	3.2
26	3.4	3.3	3.2	2.9	2.7	2.5	2.6	4	6.8	10	12.2	13.8	15.1	15.9	16.6	16.9	15.7	14	12.4	11.7	11.2	10.4	9.7	9.3	9.4
27	9.2	9.4	8.9	8.3	8.5	8.8	8.2	8.6	11.4	14.5	16.6	17.9	18.7	19.5	20.1	19.9	18.7	17.9	17.1	16.4	16.2	15.8	15.5	15.3	14.2
28	14.9	15.1	15.2	14.6	14.2	13.7	13.5	13.3	9.4	8.4	6.4	6	5.8	5.7	5.4	5.1	4.6	4.4	4.3	4.8	5.2	5.1	5.2	5.4	8.6

Avg	5.2	4.9	4.7	4.4	4.1	3.9	3.7	4	5.2	6.9	8	8.9	9.7	10.3	10.8	10.9	10.3	9.2	8	7.3	6.8	6.3	5.9	5.6	6.9
SD	6	6	6.1	6.1	6.1	6	6.1	6	5.7	5.9	6.2	6.4	6.5	6.6	6.6	6.5	6.2	6	6	6	6	6	5.9	5.9	5.6
S/A	1.16	1.23	1.31	1.4	1.5	1.55	1.66	1.51	1.11	0.86	0.78	0.72	0.67	0.64	0.61	0.59	0.6	0.66	0.74	0.82	0.88	0.95	1.01	1.06	0.81
Min	-5.6	-5.4	-5.7	-5.3	-5.6	-5.5	-5.5	-5.2	-4.6	-4	-3.6	-3	-2.7	-1.9	-1.3	-1	-1.1	-1.8	-2.7	-3.2	-3.9	-4.5	-5.1	-5.5	-3.5
Max	18.2	18.7	19.7	18.8	17.8	16.6	15.7	15.2	15.6	16.4	18	19.7	20.7	21.3	22.1	22.2	21.5	20	18.8	18.1	17.6	17.6	17.6	17.7	17.1
n	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	8064

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8064 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.

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

February 2009

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	81.3	82.4	77.9	72.8	69.9	69.4	70.8	77.2	74.2	64.6	57.6	54.1	51.9	50.3	47	46.1	50.3	57.1	67.3	74	73.8	76.3	78.4	77.2	66.7
2	74.4	76.2	89.1	92.4	94.4	94.9	95.2	94.6	88.9	76.7	69.4	64.6	60.5	56.8	55.7	60.8	64.3	68.2	70.9	77.5	82.3	82.3	82.3	86.4	77.5
3	91	91.6	94	96.4	98.5	96.3	97.2	103.6	104	101.9	99.7	97.3	93.5	88.7	83	72.5	71.1	68	68.1	73.7	73	71.5	71.4	70.2	86.5
4	78.9	87.6	89.3	99.7	?	89.3	77	73.3	71.1	71.7	65.4	58.1	55.1	58.7	59	60.3	62.7	64.7	70	74.8	79	81.4	83.6	82	73.6
5	76.8	74	69.9	78.6	76.7	73	69.2	67.9	63.6	59.3	55.6	48.2	42.6	43.8	42.7	40.4	40.9	45	49.9	51.2	52.3	53	56.4	58.1	57.9
6	60.7	65.7	67.7	67.1	73.5	79.1	83.3	80	70.8	54.8	47	43.6	41.8	38.6	35.8	36.5	38.6	46.5	55.1	64.1	70.5	79.6	84.8	87.9	61.4
7	88.4	86.4	86.9	87.9	88	90.8	91	91	87.5	78.1	68.2	61.4	58.5	54.8	53.8	53.8	56.7	62.4	67.1	72.5	74.9	78.9	80.1	78.1	74.9
8	73.5	72.4	74	72.5	70.6	73.5	74.3	71.4	68	61.8	56.3	55.3	54.4	54	52	51.2	52.6	58.1	62.4	65.7	69.6	74.7	79.1	72.2	65.4
9	64.9	73.8	84.2	89.6	89.1	80.7	81.7	86.6	84.7	80.1	74.1	70.4	65.9	60.7	63.6	68.9	72.8	81.5	92	98.1	102.5	104.4 ?	104.3 ?	104.4	82.5
10	103.9	103.1	102.7	103	102.8	104.1	?	?	102.6 ?	95.5	86.7	80	77.7	71.2	69.8	75.4	81.3	85.2	87.2	88.9	91.7	96.3	99.2	101.1	91.3 ?
11	102.6	104.5	?	?	?	?	104.3 ?	103.6	101.2	96.2	91.1	85.3	79.5	78.2	76.4	72.9	78.4	88.7	89.1	89.3	86.8	87	90.8	94.4	90 ?
12	94	90.7	85.2	85	82.8	76.9	65.8	65.1	65.5	61.1	54.9	50.1	43.5	39.5	33.6	30.5	29.4	30.4	32.8	34.9	38.3	42.2	44.9	47.7	55.2
13	48.9	49.9	52.4	53.8	56.8	58.2	59.8	60.8	58.2	52.8	47.5	43.5	40.4	40.4	38.5	40.3	60.1	64	69.5	73.3	78.6	82.9	82.3	78.9	58
14	75.8	78.6	84	89.8	95.7	97.3	98.8	100.5	96.1	82.5	65	58.1	58.3	60.3	64.8	70.1	76.1	82.8	87.8	97.3	101	102.9	104.3 ?	?	83.8
15	?	103.5 ?	98.1	94.9	93	89.1	86.6	83.2	76.5	66.7	59	57	59.5	58.9	57	63.3	64.5	67.9	72.2	76.3	77.4	78.1	78.6	75.9	75.5
16	73.7	77.9	82	91	?	?	?	?	102.9 ?	88.1	74.8	61.4	55.8	57.8	61.6	61.1	55.8	58	59.7	57.2	54.9	60.6	66.3	70	68.5 ?
17	73.3	77.7	80.5	82.8	85.3	87.8	90.6	89.9	82.5	68.3	62.3	53.2	48.4	45.4	43.4	40.8	44.4	69.3	75	76.7	79.2	83.2	86.5	90.7	71.6
18	94.7	98.2	98.2	95.9	93.6	89.9	85.5	92.8	93.9	97.4	103.5 ?	?	?	?	?	104.7 ?	104.8 ?	?	?	?	104.6 ?	102.8	102.4	102.9	98 ?
19	103.9	102.9	103.5	104.6 ?	?	?	?	104.9 ?	102.8	91	71.4	63.6	64.4	55	48.8	45.8	46.7	47.2	45.3	47	45.9	49.2	49.5	49.4	68.7 ?
20	52.4	58.2	59.7	61	61.9	62	62.7	62.1	56.8	47.7	43	41.1	38.2	38.4	37.8	36.8	38.7	41.8	46.2	48.7	48.1	47.8	50	51.1	49.7
21	54	55.9	58.9	59.7	59.8	60.5	64.4	64.7	61.3	55.6	45.5	40.6	44.4	41.8	33.5	40.3	62.8	69.8	68.1	59.9	73.8	83.3	87.7	84	59.6
22	78.6	81.6	86.9	94.4	97.4	101.4	102.9	103.1	102	96.6	86.3	97.6	102.4	101.4	95.1	80.6	60.9	50.7	51.9	55.2	53.1	56.4	60.6	62.3	81.6
23	64.1	66.9	69.3	71.7	74.3	74.6	75.9	72.4	66.5	56.3	52	48.6	46.3	43.7	39.7	36.7	36.9	41.3	46.6	49.9	52.5	55.9	56.9	57	56.5
24	58.1	58	60.3	60.8	62.7	63.6	66.4	65.4	61	57.5	52.6	45.8	41.6	37.5	35.9	33.5	32.5	34.7	41.3	61.8	70.6	72	71.5	76	55
25	81.5	87.2	90	95.4	97.3	99.9	103.1	99.7	88.1	56.7	48.8	48.6	36.5	37.2	33.6	34.3	44.7	55.1	66.4	75.6	84.3	89.5	94.5	97.6	72.7
26	96	97.1	97.9	98.9	100.6	102.9	103.1	101	88.1	75.6	68.4	58.8	54.7	51.8	53.4	53.6	59	69.1	76.2	79.6	77.3	84.4	95	99.3	80.9
27	102.8	104.8 ?	104.6	?	104.7 ?	104.7	104.8 ?	?	102 ?	92.8	83.6	75.6	71.9	69	60.7	58.8	64.8	72.2	76.3	83	85.4	88.3	91.5	94.6	86.2 ?
28	98.2	97.6	98.2	102.1	104.5	104.8 ?	?	?	104 ?	100	102.9	?	?	?	?	?	?	?	?	?	?	?	?	?	101.4 ?

Avg	79.5	82.3	83.2	84.7	84.7	85	83.9	83.9	83	74.6	67.6	60.1	57.2	55.2	52.9	54.4	57.5	60.8	65.2	69.5	73.4	76.5	79	78.8	73.2
S D	16.7	16.1	14.9	15.1	15.3	15.1	15.1	15.4	16.5	17.1	17.8	15.9	16.7	16.2	16.2	17.9	17.1	15.5	15.6	15.9	17.4	17.2	17.2	17.1	13.8
S/A	0.21	0.2	0.18	0.18	0.18	0.18	0.18	0.18	0.2	0.23	0.26	0.26	0.29	0.29	0.31	0.33	0.3	0.25	0.24	0.23	0.24	0.22	0.22	0.22	0.19
Min	48.9	49.9	52.4	53.8	56.8	58.2	59.8	60.8	56.8	47.7	43	40.6	36.5	37.2	33.5	30.5	29.4	30.4	32.8	34.9	38.3	42.2	44.9	47.7	49.7
Max	103.9	104.8	104.6	104.6	104.7	104.8	104.8	104.9	104	101.9	103.5	97.6	102.4	101.4	95.1	104.7	104.8	88.7	92	98.1	104.6	104.4	104.3	104.4	101.4
n	324	326	323	302	285	288	271	281	312	336	329	312	310	311	312	318	319	312	312	312	321	321	311	310	7460

Data Recovery: 0.0% missing; 0.0% untested; 7.5% failed QC -- 8064 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 2009

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	-0.8	-0.6	-0.2	0.4	1.1	1.6	2.1	2.6	4.4	7.7	11	13.7	15.1	15.9	16.4	16.9	16.7	14.8	12.2	10.5	9.5	8.5	7.3	6.8	8.1
2	6.9	7.2	6.3	5	4.2	3.8	3.6	3.7	6.1	10.4	14.9	18.1	19.7	19.7	19	17.8	16.8	15.2	13.9	12.9	12.1	11.6	11.3	10.6	11.3
3	7.5	5.6	5	4.6	3.9	3.5	3.6	3.4	3	3	3.3	3.8	4.1	4.3	4.7	6.2	6.6	5.6	4	2.7	1.4	0.7	0.4	1	3.8
4	2.1	2.3	1.8	1.5	1.1	0.6	0.2	-0.1	-0.2	0.6	3	5.6	6.9	7.4	6.5	5.5	3.7	2	0	-1.1	-2	-2.8	-3.6	-4.3	1.5
5	-4.5	-4.5	-4.6	-5	-5.8	-6.3	-6.5	-6.5	-4.5	-1.7	0.5	2.3	3.2	3.5	3.5	3.1	1.6	-1.9	-4.2	-5.4	-6.4	-7.4	-8	-2.6	
6	-8.3	-8.3	-8.7	-8.4	-8.3	-8.4	-8	-7.6	-3.7	0.9	4.8	7.8	9.4	10.2	10.8	11.2	11.4	10.2	6.7	4.4	3	2.1	1.3	0.8	1.1
7	0.9	0.9	1	1	1	0.6	0.3	0.5	3.2	7.8	12.3	15.8	18.7	19.5	19.9	20.4	20.5	19	15.4	13	11.6	10.7	10	9.7	9.7
8	9.8	9.9	9.8	9.4	9.7	9.8	9.4	9.4	11.4	14.5	17.7	20.4	22.5	23.8	24.7	25.3	24.7	22.9	20.1	18.1	16.7	15.4	13.9	13	15.9
9	12.5	11.1	9.2	7.2	5.6	4.7	4.3	4.2	6.7	10.9	14.4	17	17.8	18	17.6	15.9	14.5	12.9	9.6	7.2	5.6	4.8	4.5	4.7	10
10	4.8	5.1	5.7	6.6	7.3	7.8	8	8.5	10.6	15.3	19.3	21.9	24	24.4	24.6	24.1	22.6	20.9	19	17.6	16.7	16	15.5	15.1	15.1
11	14.7	14.2	13.7	13.3	12.9	12.4	12.3	12.8	14.3	16.5	18.5	20.4	21.7	22.7	23	23.3	23	21.8	20.1	19.1	18.1	17.7	17.6	17.6	17.6
12	17.9	18	18.7	19.1	18.4	17.5	16.3	15.6	16.6	17.9	19.4	20.6	21.5	22.3	22.4	22.2	21.3	20	17.5	15.5	14.2	12.8	11.4	10.2	17.8
13	9.1	8.7	8.6	8.6	8.3	7.7	7.1	7	9.5	12.8	16.1	18.4	19.7	20.1	20.4	20.7	19	13.8	9.7	7.6	6.4	5.1	4.1	4.1	11.4
14	4.3	4	3.8	3.2	2.6	3	2.9	2.6	4.2	7.1	10.5	12.2	12.2	12.6	14.2	14.6	13.8	11.9	9.5	7.6	5.9	4.6	3.6	3.5	7.3
15	3.6	3.4	3.4	3.3	3.1	2.9	2.3	1.9	4.1	6.8	9.1	11.4	12.9	13.6	13.5	13.2	12	9.6	6.2	4.5	3.9	3.8	3.7	3.4	6.5
16	3.3	3.3	3.2	3	2.3	1.3	0.9	0.7	1	4	7.4	9.4	10.5	10.8	9.2	8.6	7.9	6.7	4.3	2.3	1.2	0.2	-0.9	-1.8	4.1
17	-2.4	-2.8	-3.2	-3.4	-3.6	-3.9	-4.3	-4.2	-0.9	3.6	6.9	10	11.8	12.6	13.2	13.8	13.6	11.2	6.1	2.9	1.4	0.7	0	0.1	3.3
18	0.2	0.6	1.2	2.1	2.9	3.5	4	4.7	5.3	5.9	5.8	5.7	6.1	7.4	8.4	9.2	10	10.3	10.5	10.9	11.7	12.7	13.5	13.7	6.9
19	13.6	13.5	13.8	13.7	13.2	12.7	12.8	13	13.9	16.4	18.6	19.6	19.3	18.7	18.3	18	17.4	15.6	12.2	9.3	7.2	5.3	3.8	2.4	13.4
20	1.2	0	-1.1	-2.1	-3	-3.8	-4.3	-3.9	-0.8	2.4	4.6	6.2	7.5	7.8	7.5	7.6	7.6	6.5	4.1	1.9	0.6	-0.1	-0.6	-0.9	1.9
21	-1.2	-1.6	-2.2	-2.8	-3.5	-4.1	-4.5	-4.1	0.5	6.3	10.4	13	14.4	13.8	13.2	13	12.4	10.3	7.2	5.3	4.4	3.5	3.2	3.5	4.6
22	3.8	3.9	4.5	5.6	6.3	6.8	7.3	7.7	8.3	9.7	9.8	9	8.5	7.8	7.9	9.5	10.4	10.5	8	5.3	3.6	2.7	1.5	0.2	6.6
23	-1	-1.9	-2.6	-3	-3.6	-4.1	-4.5	-4.1	-1	2.4	5.3	7.2	8.5	9.2	9.3	9.3	9.2	8	4.6	1.3	-0.7	-1.9	-2.3	-2.4	1.7
24	-2.6	-2.9	-3.5	-3.8	-4.1	-4.5	-5	-4.6	-1.4	1.5	4.3	7.1	9.2	10.3	10.7	11.2	11.5	10.4	6.2	1.9	-0.1	-1.4	-1.8	-1.9	1.9
25	-2.8	-3.9	-4.6	-4.9	-5.2	-5.3	-5.6	-4.6	0.7	6.8	12.2	14.8	15.8	15.5	14.5	14	13.4	11.4	7.7	4.5	3.1	2.5	2	1.7	4.3
26	1.5	1.4	1.4	1.3	0.9	0.5	0.3	1.7	6.5	11.7	15.9	19.1	21.2	21.6	21.3	21	20.2	18.4	15.1	12.4	11.1	10.1	9.3	8.6	10.5
27	8.3	8.2	8.1	7.7	7.3	7.3	7.5	7.7	10.6	14.9	17.9	19.9	20.9	22.1	23.1	23.3	21.9	20.1	18.7	17.5	16.9	16.5	16.2	15.9	14.9
28	15.4	15.2	15.2	15.2	14.5	14	13.7	13.6	12.7	10.6	8.8	7.4	6.9	6.5	6.2	5.9	5.6	5.1	4.8	4.7	5	5.3	5.4	5.5	9.3

Avg	4.2	3.9	3.7	3.5	3.2	2.9	2.7	2.9	5	8.1	10.8	12.8	13.9	14.4	14.4	14.5	14	12.4	9.7	7.7	6.5	5.7	5.1	4.7	7.8
SD	6.6	6.6	6.7	6.7	6.7	6.7	6.6	6.5	5.8	5.5	5.7	6	6.3	6.4	6.5	6.4	6.1	5.9	6	6.2	6.4	6.5	6.5	6.5	5.5
S/A	1.57	1.68	1.8	1.91	2.09	2.29	2.44	2.23	1.15	0.68	0.53	0.47	0.45	0.45	0.45	0.44	0.44	0.48	0.62	0.81	0.97	1.13	1.28	1.38	0.71
Min	-8.3	-8.3	-8.7	-8.4	-8.3	-8.4	-8	-7.6	-4.5	-1.7	0.5	2.3	3.2	3.5	3.5	3.5	3.1	1.6	-1.9	-4.2	-5.4	-6.4	-7.4	-8	-2.6
Max	17.9	18	18.7	19.1	18.4	17.5	16.3	15.6	16.6	17.9	19.4	21.9	24	24.4	24.7	25.3	24.7	22.9	20.1	19.1	18.1	17.7	17.6	17.6	17.8
n	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	8064

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8064 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.

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

February 2009

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	1.4	1.9	2.8	3.5	4.2	4.3	4.6	4.1	4.6	5.7	6.2	7.4	8.2	8.1	7.5	6.3	4.2	3.3	2.9	3.2	2.6	2.1	2.4	3.1	4.4
2	3.9	2.6	2	2.2	2.2	2	2.6	2.6	2.6	2.8	3.3	3.1	4.3	4.8	4	2.6	1.6	2	1.4	1.4	1.4	1.4	1.2	3.7	2.6
3	4.4	4.4	4.5	4.8	4.1	4.1	3.4	2.6	3.2	3.4	3.1	3.4	3.9	3.6	3.6	3.3	2.5	2	1.6	1	1.6	1	1.4	3.3	3.1
4	3.1	1.7	0.3	1	1	2.6	3.8	3.4	4.1	3.7	4.1	4.6	4.1	4.8	4.2	4.5	4.3	3.6	2.6	3	2.4	1.8	1.6	1.9	3
5	2.7	2.8	3	2	2.2	2.5	2.6	2.4	3.4	4	4	4	3.9	3.3	3.2	3.4	2.9	2	1.1	1	0.7	0.3	0.3	0.5	2.4
6	0.7	0.2	0.5	0.6	0.1	1	0.3	0.6	2.4	3.5	2.9	3.6	3.7	4	3.8	3.8	2.5	1.3	1.8	1.6	1.9	2.1	1.1	2	1.9
7	2	2	2.1	2.2	1.3	0.8	0.6	1.3	1.5	1.9	2.3	2.1	2.7	3.3	3.6	3.5	3	1.9	2.5	3	3.3	3.4	4	4.5	2.4
8	4.5	4.4	3.8	4.1	4.7	3.6	3.5	3.9	3.7	4.9	5.7	6.3	5.8	5.6	4.7	4.5	3.5	2.8	2.2	2.2	2.2	1.9	1.6	3.6	3.9
9	2.8	3.7	2	1.5	1.5	2.2	1.9	1	1.4	2.4	2.7	3.2	3	2.8	3.3	2.9	2.5	1.9	1.7	1.7	1.6	1.4	1.3	0.6	2.1
10	1.3	1.8	2.5	1.7	1.5	1.1	1.8	1.7	2.6	3.6	6	6.1	6.3	6.5	4.9	3.4	3.6	2.9	3	3.2	3.5	3.5	3.3	2.9	3.3
11	2.9	2.8	2.4	1.6	1.7	2.5	2.9	2.5	3.2	3.7	5	6.6	8.3	8.9	6.1	6.2	3.9	5	6.4	6	6.9	8.1	7.4	8.5	5
12	8.8	7.8	8.3	6.9	6.7	5.9	6	5.7	6.4	8.2	9.2	9.1	8.2	8.3	8.1	8.5	8.5	7	5.8	5.1	3.5	2.5	2	1.7	6.6
13	2.4	2.2	2.2	2.2	1.4	2.3	2.1	2.6	4	4.2	4.2	4.5	4.6	4.4	4.1	3.6	4.5	3.4	2.3	1.8	0.9	0.5	1.1	1.4	2.8
14	1	1.3	0.2	0	0.7	1.2	0.4	1.6	2.7	2.6	3.3	3.2	4.1	3.1	2.5	2.5	1.6	1	1.9	0.9	0	0	0.4	1.5	1.6
15	2.8	3.9	4.5	3.9	4.7	4.4	3	2.2	3.6	4.9	3.8	3.4	3.1	2.9	2.7	3.3	3.3	2.6	2.3	2.2	1.2	1.7	1.1	0.7	3
16	0.3	0.2	1.2	3.7	2.8	2.2	1.3	0.3	1.1	2.4	3.7	4.5	4.4	5.4	4.8	4.6	5.3	4.5	2.8	2.1	2	1.5	1.3	1.3	2.6
17	1.5	1.2	1.8	1.9	1.7	1.4	1.2	1.4	1.9	2.9	2.2	2.4	2	1.7	1.2	1.2	1.4	2.5	1.9	1.4	1.8	1.1	1	0.8	1.6
18	1.1	1.1	1.5	1.8	1.8	2.1	2.5	2.6	1.9	1.8	1.9	2.7	3.3	3.5	3.8	3.9	3.4	3.5	2.9	4	4.3	5	4.4	3.3	2.8
19	3.9	3.9	1.7	1.7	1.9	2.9	3.2	3.3	3.8	4.1	6.2	6.3	5.2	6	6	5.5	5.1	4.9	4.5	4.6	3.7	3.1	2.9	2.8	4.1
20	2.4	2	2	1.8	1.8	1.8	2	2.1	3.4	4.3	4.5	4.4	4.5	4.9	5	4.7	5	3.3	2.2	1.8	1.6	1.3	1.6	1.8	2.9
21	1.4	1.1	0.9	1	0.4	0.6	0.2	0.1	0.8	1.5	1.6	1.5	2.5	2.3	3.3	3	4.1	3.3	2.5	3.1	2.1	1.2	1.9	1.5	1.7
22	0.4	0.3	0.8	1.8	1.3	1.4	1.4	1.9	2.5	4.7	5.5	4.5	4.5	4.6	3.9	4.7	6.1	5.4	3.7	2.7	4.2	3.4	2.4	1.8	3.1
23	1.9	1.9	2.7	2.3	2.1	2.1	1.9	2.5	3.4	4.4	4	4	3.9	3.3	3.9	3.9	3.9	4	1.8	0.5	0.6	1.3	1.5	2	2.7
24	2.1	1.9	2.2	2.6	2.3	2.3	1.4	2	3.3	3.4	2.9	2.3	2.2	2.2	1.9	1.7	1.3	0.7	0.1	0.8	0.3	0.7	0.8	0.3	1.7
25	0	0	0	0	0	0	0	0	0.1	0.2	0.8	2.1	2.2	3	3.2	2.7	3.4	2.7	1.4	1.4	1.6	1.4	1	0.9	1.2
26	0.6	0.6	0.5	0.1	0.1	0	0.2	0.5	0.8	1.9	1.9	1.7	2.2	3.1	3.6	3.3	3.3	2.4	1.5	1.6	1	1.4	0.6	1.6	1.4
27	1.4	1.5	1.1	1	1.5	2.2	1.3	1.8	3	4	5.1	6.5	6.5	5.9	6.1	5.1	4.3	4	4.3	3.8	4.3	3.1	2.8	2.9	3.5
28	3.1	3	3	2.8	2.9	0.9	0.1	0.5	3.7	3.2	4	3.9	4.9	4.9	5.1	6.2	6	5.5	4.3	5.2	3.5	3.8	3.9	3.6	3.7

Avg	2.3	2.2	2.2	2.2	2.1	2.2	2	2	2.8	3.5	3.9	4.2	4.4	4.5	4.2	4	3.7	3.2	2.6	2.5	2.3	2.1	2	2.3	2.9
SD	1.8	1.7	1.7	1.5	1.6	1.4	1.5	1.3	1.3	1.5	1.8	1.9	1.8	1.9	1.5	1.5	1.6	1.5	1.4	1.5	1.5	1.7	1.5	1.7	1.2
S/A	0.77	0.75	0.79	0.7	0.75	0.63	0.74	0.65	0.47	0.44	0.45	0.45	0.41	0.41	0.36	0.38	0.42	0.46	0.53	0.58	0.66	0.78	0.75	0.73	0.4
Min	0	0	0	0	0	0	0	0	0.1	0.2	0.8	1.5	2	1.7	1.2	1.2	1.3	0.7	0.1	0.5	0	0	0.3	0.3	1.2
Max	8.8	7.8	8.3	6.9	6.7	5.9	6	5.7	6.4	8.2	9.2	9.1	8.3	8.9	8.1	8.5	8.5	7	6.4	6	6.9	8.1	7.4	8.5	6.6
n	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	8064

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8064 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.

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

February 2009

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	174	186	192	192	202	205	203	205	205	221	219	214	217	214	213	204	197	193	180	190	189	184	196	201	205
2	218	209	189	194	187	182	187	190	196	195	189	188	191	190	193	182	181	198	180	158	161	168	201	352	192
3	357	354	347	344	342	332	322	314	304	299	298	293	290	293	295	286	272	277	267	247	231	233	249	261	308
4	268	272	249	296	330	345	333	326	322	321	327	315	324	331	322	318	331	323	310	300	292	285	288	290	316
5	293	295	297	286	293	294	299	298	313	320	319	311	321	304	289	299	297	291	290	289	275	254	222	212	301
6	215	197	220	223	221	211	191	194	197	201	207	200	192	202	182	183	180	163	161	147	159	158	174	190	188
7	188	195	196	197	188	166	161	148	169	188	197	188	162	171	178	182	179	180	174	179	188	191	195	197	184
8	200	198	203	206	213	217	221	229	249	260	258	259	253	254	267	270	265	247	243	250	253	263	280	12	243
9	28	35	43	56	52	51	34	14	19	53	59	89	97	89	85	85	81	93	71	75	86	96	98	87	67
10	89	90	101	107	112	119	151	165	183	191	196	195	196	209	196	183	190	186	182	187	190	194	198	198	184
11	192	192	192	182	184	188	198	187	196	207	219	213	211	213	213	213	191	182	190	185	193	195	190	193	199
12	197	213	229	239	242	248	245	244	240	245	256	255	265	264	267	264	267	265	264	265	266	272	271	256	250
13	270	272	259	252	241	248	244	249	259	276	278	283	278	273	277	292	66	59	55	49	53	53	46	44	283
14	52	57	82	43	55	77	64	53	64	80	89	92	93	92	107	92	92	80	78	81	87	0	11	11	80
15	355	354	345	341	341	336	325	323	329	333	334	351	11	23	28	64	54	51	68	77	75	60	50	46	3
16	45	296	303	348	350	359	336	286	296	317	334	326	320	337	328	349	338	335	325	303	299	291	288	282	329
17	291	286	289	290	293	283	287	291	301	343	339	346	302	302	19	48	75	106	115	106	103	113	131	145	333
18	160	163	162	153	147	159	149	153	157	183	171	151	167	167	164	171	182	184	178	190	192	196	196	195	174
19	202	207	235	240	234	219	230	259	257	267	259	263	277	267	267	275	271	279	288	295	285	295	292	294	264
20	292	281	282	284	286	284	283	282	287	277	279	276	283	270	265	266	256	260	254	248	238	233	224	227	270
21	232	264	276	291	301	308	300	312	347	36	95	103	141	157	184	149	113	106	137	151	143	144	135	125	140
22	116	143	156	134	143	138	159	168	182	217	232	264	229	246	277	274	264	268	276	280	277	277	277	288	249
23	271	271	268	270	267	279	281	283	286	293	291	290	295	286	278	287	293	289	290	250	241	282	303	315	285
24	309	300	305	312	316	315	306	315	318	333	326	340	344	325	341	308	331	323	20	121	128	142	142	148	321
25	155	1	197	159	0	0	0	0	198	132	105	77	68	85	98	117	118	105	111	117	114	121	120	122	104
26	140	132	133	125	138	147	142	146	155	161	192	181	159	174	197	167	128	119	133	162	167	163	174	164	161
27	192	182	169	170	175	153	175	164	174	172	183	193	186	179	183	185	185	182	181	180	185	188	184	192	182
28	194	194	196	215	227	212	272	344	5	360	18	19	31	32	34	40	41	42	36	38	31	2	5	3	26

Avg	230	234	243	252	252	254	248	245	259	262	257	253	243	241	240	240	238	233	209	201	208	209	212	228	245
n	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	8064

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8064 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.

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

February 2009

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	2.2	3.2	4.3	5.3	6.6	6.3	6.8	6.3	6.9	8.8	9.4	11.5	12.1	11.9	11.1	9.8	6.6	5.3	5	5.2	4.6	4	4	4.9	6.7
2	5.8	4	3.4	3.5	3.4	3.4	3.9	4.2	4.2	4.7	5.2	5.3	7	7.7	6.6	4.6	2.9	3.3	2.3	2.4	2.6	2.5	2	6.5	4.2
3	6.9	7.5	7.6	8.2	7.1	7.4	6.1	5.3	6.6	7.4	6.4	7	7.6	7.4	7.2	6.7	4.6	4.1	3.1	1.7	2.3	1.6	2.2	5.3	5.7
4	5.7	3.4	0.8	2.4	2.2	4.5	6.6	6.5	7.6	6.9	7.9	8.7	8.1	8.3	8	8.4	7.8	6.8	5.3	6	5	3.9	3.2	4	5.7
5	5.4	5.7	5.9	4.2	4.8	5.2	5.3	5.3	6.6	7.6	7.3	7.7	7.1	6.6	6.6	7.1	5.7	4.1	2.3	2.2	1.6	0.7	0.6	1	4.9
6	1.3	0.5	0.8	0.9	0.3	1.6	0.9	1.2	3.6	5.5	5.1	6.2	6.1	6.5	6.4	6.2	4.2	2.4	3.2	2.6	3.3	3.2	2.1	3.4	3.2
7	3.3	3.1	3.1	3.2	2.1	1.5	1.3	2.2	2.6	3.3	3.8	3.5	4.2	5.6	6.3	5.8	5.2	3.4	4	5	5.3	5.6	6.2	6.8	4
8	6.7	6.7	5.5	6	7	5.4	4.9	6.1	5.9	8.4	9.4	9.8	9.2	9.1	8.8	8.7	6.2	4.4	3.3	3.4	3.4	3	2.5	6	6.2
9	4.6	5.8	3.3	2.4	2.7	3.5	3	2	2.7	4.3	4.6	5	4.8	4.6	5.1	4.5	4.1	3	2.8	2.9	2.8	2.3	2.2	1.1	3.5
10	1.9	2.6	3.5	2.6	2.3	1.8	2.8	2.9	4.6	5.9	9.2	9.9	9.7	10.4	8.4	5.9	6	5.1	5	5.5	5.6	5.4	5.1	4.7	5.3
11	4.8	4.5	3.8	2.7	2.8	3.9	4.3	3.8	5.3	5.8	7.5	10.2	12.5	13.3	9.4	9.7	5.9	7.8	10.3	9.8	11.2	13.5	11.7	13.3	7.8
12	14.1	11.7	12.9	11.6	11.4	9.5	9.7	9.3	10.2	13.6	15.5	15	14.6	14.5	16.6	15.5	15.8	12.8	9.7	8.1	6	4.6	3.9	2.8	11.2
13	4.5	4.2	3.4	3.6	2.4	3.6	3.4	4.3	6.9	8.3	8.5	9.3	9.2	8.7	8.2	7.4	7.1	5.4	3.9	3	1.8	1.1	1.8	2.4	5.1
14	1.6	2.2	0.4	0.2	1.4	1.9	0.7	2.4	4.4	4.4	5.4	5.1	6.5	5.4	4.5	4.1	2.9	1.9	3.2	1.7	0.2	0	0.7	2.5	2.7
15	4.7	6.3	7.3	6.3	7.8	7.2	5.6	4.6	6.3	8.3	7	5.9	5.4	5.5	4.6	5.7	5.6	4.8	4.1	3.8	2.3	3.1	2.2	1.6	5.3
16	1	0.7	2.6	6.5	4.7	4.1	2.7	1.3	2.9	5.1	6.7	8.8	9	9.2	8.6	8.4	8.7	7.4	5.2	4.8	4.5	2.9	2.8	2.8	5
17	3.1	2.5	3.3	3.6	3.4	2.9	2.5	2.9	4.4	5.4	4.3	4.8	4.9	4	2.7	2.7	2.7	4.2	3.2	2.7	3	2.2	2	1.7	3.3
18	2.3	2.3	2.9	3.2	3.4	3.8	4.5	4.5	3.7	3.3	3.9	4.8	5.9	6.3	6.5	7	6.2	6.1	4.9	6.8	7	8.3	7	5.3	5
19	6.3	6	3	2.8	3	4.5	5	5.5	6.6	7.6	10.2	11.4	9.8	10.4	10.7	10.7	9.8	9.1	8.9	9	7.3	6.4	6.3	6.2	7.3
20	5.4	4.3	4.1	3.8	3.8	3.6	4.1	4.4	7.2	8.9	8.8	8.3	8.9	9.1	9.2	8.2	8.6	6	3.7	2.9	2.7	2.3	2.3	2.7	5.6
21	2.2	2	1.8	2.2	1.1	1.4	0.5	0.6	1.6	3	3.4	3.2	4.7	4.5	5.7	5.3	6.1	5.4	4.1	5.1	3.7	2.5	3.4	2.8	3.2
22	1.1	0.9	1.8	3.1	2.4	3	2.9	3.2	4.2	7.7	9.5	7.9	7.4	7.9	7.8	9.1	11	9.5	6.9	5.3	8	6.9	4.9	3.6	5.7
23	3.5	3.8	4.9	4	3.9	4.1	4	5.1	7.2	8.8	8.5	8.1	7.5	6.6	7.5	7.7	8	7.8	3.7	1.2	1.1	2.6	3.2	3.9	5.3
24	4.8	4.3	4.8	5.2	4.8	4.6	3	4.1	6.3	6	5.9	5.1	4.6	4.6	4.3	3.9	3.1	2.1	0.4	1.6	0.9	1.5	1.5	0.9	3.7
25	0.3	0	0.1	0.1	0	0	0	0	0.4	0.8	2	3.5	3.8	5.2	5.5	4.8	5.1	4.2	2.7	2.4	2.8	2.4	1.9	1.8	2.1
26	1.5	1.4	1.3	0.6	0.3	0.1	0.7	1.1	1.8	3.1	3.4	3.4	4.2	5.2	5.9	5.7	5.4	3.7	2.7	3	2.3	2.7	2	3	2.7
27	2.6	3.1	2.6	2.2	2.6	3.4	2.6	3	5.4	6.5	8.6	10.3	10.4	9.8	10.1	8.8	7.6	7	7.2	6.7	6.9	5.3	5.2	5	6
28	5.2	4.8	4.9	4.5	4.6	1.9	0.5	1.2	6.4	5.8	6.9	6.5	8.1	8.7	8.4	10	10.1	9.2	7.5	9.1	7.2	6.6	7.3	6.8	6.3

Avg	4	3.8	3.7	3.7	3.7	3.7	3.5	3.7	3.7	5.1	6.2	6.9	7.4	7.6	7.7	7.5	7.2	6.5	5.6	4.6	4.4	4.1	3.8	3.6	4	5.1
S/D	2.8	2.5	2.6	2.4	2.5	2.2	2.3	2.1	2.2	2.5	2.8	2.9	2.7	2.7	2.7	2.6	2.8	2.6	2.4	2.5	2.5	2.8	2.4	2.6	1.9	
S/A	0.68	0.65	0.7	0.65	0.69	0.58	0.65	0.58	0.43	0.41	0.4	0.4	0.36	0.35	0.36	0.37	0.44	0.46	0.51	0.56	0.62	0.72	0.68	0.64	0.37	
Min	0.3	0	0.1	0.1	0	0	0	0	0.4	0.8	2	3.2	3.8	4	2.7	2.7	2.7	1.9	0.4	1.2	0.2	0	0.6	0.9	2.1	
Max	14.1	11.7	12.9	11.6	11.4	9.5	9.7	9.3	10.2	13.6	15.5	15	14.6	14.5	16.6	15.5	15.8	12.8	10.3	9.8	11.2	13.5	11.7	13.3	11.2	
n	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	8064	

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8064 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 2009

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	1020	1020	1020	1019	1019	1020	1020	1020	1021	1021	1021	1020	1018	1017	1016	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1019
2	1017	1016	1016	1016	1016	1015	1015	1015	1016	1016	1015	1014	1012	1011	1011	1010	1010	1010	1010	1009	1009	1009	1008	1008	1008	1013
3	1007	1006	1006	1006	1005	1005	1005	1005	1006	1006	1007	1007	1007	1006	1007	1007	1008	1008	1009	1010	1010	1011	1011	1011	1011	1007
4	1011	1011	1011	1011	1011	1011	1011	1012	1013	1014	1014	1014	1014	1014	1015	1015	1016	1018	1019	1020	1020	1021	1022	1022	1022	1015
5	1022	1023	1024	1024	1025	1026	1027	1028	1028	1029	1029	1029	1028	1028	1028	1028	1029	1029	1030	1030	1030	1031	1031	1031	1031	1028
6	1031	1031	1031	1031	1031	1031	1031	1031	1031	1031	1031	1030	1029	1028	1027	1027	1027	1027	1027	1027	1027	1028	1028	1028	1028	1029
7	1028	1028	1028	1028	1028	1028	1028	1028	1029	1029	1029	1028	1027	1026	1025	1024	1023	1023	1023	1023	1023	1023	1023	1022	1022	1026
8	1022	1021	1021	1020	1020	1020	1019	1020	1020	1020	1020	1020	1018	1017	1017	1018	1018	1018	1019	1019	1020	1020	1021	1022	1020	1020
9	1023	1024	1024	1025	1026	1026	1026	1027	1028	1029	1029	1029	1029	1028	1027	1027	1027	1027	1027	1027	1027	1026	1026	1027	1027	1027
10	1026	1026	1025	1024	1025	1024	1024	1024	1024	1024	1024	1023	1022	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1023
11	1020	1020	1019	1019	1019	1019	1019	1019	1019	1019	1019	1018	1017	1015	1014	1013	1012	1011	1010	1009	1008	1007	1006	1005	1004	1014
12	1003	1003	1003	1004	1005	1005	1006	1006	1007	1007	1007	1007	1006	1006	1006	1006	1007	1008	1009	1009	1010	1011	1012	1012	1012	1007
13	1012	1012	1013	1013	1013	1014	1014	1014	1015	1014	1014	1014	1013	1013	1012	1013	1013	1014	1015	1016	1016	1016	1016	1016	1016	1014
14	1016	1016	1016	1016	1016	1015	1015	1015	1014	1014	1014	1013	1011	1010	1009	1009	1008	1008	1008	1008	1008	1009	1009	1009	1010	1012
15	1010	1011	1013	1013	1014	1015	1016	1017	1018	1019	1019	1019	1018	1017	1016	1016	1017	1017	1018	1018	1018	1018	1018	1017	1017	1016
16	1018	1018	1018	1018	1018	1017	1018	1019	1019	1019	1019	1019	1018	1018	1018	1019	1019	1019	1020	1021	1021	1022	1022	1022	1022	1019
17	1022	1022	1022	1023	1023	1023	1024	1024	1025	1024	1024	1023	1023	1023	1022	1022	1021	1022	1022	1022	1022	1021	1021	1021	1021	1023
18	1020	1020	1020	1018	1017	1017	1016	1016	1016	1016	1015	1013	1011	1009	1007	1005	1004	1003	1002	1002	1001	1001	1001	1000	1001	1011
19	999	999	998	997	997	997	997	997	998	998	998	998	998	998	998	999	1001	1003	1004	1006	1007	1008	1007	1008	1008	1000
20	1009	1010	1011	1011	1012	1012	1013	1014	1015	1015	1015	1015	1015	1014	1015	1015	1015	1016	1016	1018	1019	1019	1019	1020	1015	1015
21	1020	1021	1022	1022	1023	1024	1025	1026	1026	1027	1027	1026	1026	1025	1024	1024	1023	1023	1023	1023	1023	1023	1022	1021	1024	1024
22	1020	1019	1018	1017	1016	1015	1015	1014	1013	1013	1013	1012	1011	1011	1012	1012	1013	1015	1016	1018	1019	1020	1022	1022	1016	1016
23	1023	1023	1023	1023	1024	1024	1024	1025	1026	1025	1025	1025	1024	1022	1022	1022	1022	1022	1023	1024	1024	1025	1025	1026	1024	1024
24	1026	1026	1026	1026	1027	1027	1027	1028	1029	1029	1029	1028	1028	1027	1027	1026	1026	1027	1027	1028	1028	1028	1029	1029	1029	1027
25	1029	1029	1029	1029	1029	1029	1030	1031	1031	1031	1031	1031	1030	1030	1029	1029	1028	1028	1028	1028	1028	1028	1028	1027	1029	1029
26	1027	1027	1026	1026	1026	1027	1027	1027	1027	1027	1027	1027	1027	1026	1025	1024	1024	1023	1023	1023	1023	1024	1023	1024	1023	1025
27	1023	1023	1022	1022	1021	1021	1021	1021	1021	1020	1020	1019	1018	1017	1016	1016	1015	1015	1015	1015	1015	1015	1015	1015	1018	1018
28	1015	1015	1015	1015	1015	1015	1015	1016	1017	1017	1017	1017	1016	1016	1016	1015	1014	1014	1014	1013	1012	1012	1011	1010	1015	1015

Avg	1019	1019	1019	1018	1018	1019	1019	1019	1019	1020	1020	1020	1019	1018	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018	1018
S D	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	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	999	999	998	997	997	997	997	997	998	998	998	998	998	998	998	999	1001	1003	1002	1002	1001	1001	1001	1000	1000	
Max	1031	1031	1031	1031	1031	1031	1031	1031	1031	1031	1031	1030	1030	1029	1029	1028	1029	1029	1030	1030	1030	1031	1031	1031	1029	
n	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	8064	

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8064 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 2009

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	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13.5	13.8	13.7	13.6	13.6	13.5	13.5	13.5	13.5	13.5	13.1	12.9	12.9	12.9	12.9	12.8	12.8	13.1
2	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13.4	13.8	13.6	13.5	13.4	13.4	13.4	13.5	13.5	13.3	13	12.9	12.9	12.9	12.9	12.8	12.8	13.1
3	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.1	13.4	13.3	13.3	13.8	13.7	13.3	13	12.9	12.9	12.8	12.7	12.7	12.6	12.9
4	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.5	13.9	13.8	13.8	13.7	13.8	13.8	13.9	13.6	13	12.9	12.9	12.8	12.8	12.8	12.8	13.1
5	12.8	12.7	12.7	12.7	12.7	12.6	12.6	13.7	14.1	14	13.9	13.9	13.9	13.8	13.9	13.9	13.9	13.3	12.9	12.9	12.8	12.8	12.8	12.7	13.2
6	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.9	14	13.9	13.8	13.7	13.7	13.7	13.6	13.6	13.7	13.2	13	12.9	12.9	12.8	12.8	12.8	13.2
7	12.8	12.8	12.8	12.8	12.8	12.7	12.7	13.4	13.8	13.7	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13.1	13	12.9	12.9	12.9	12.8	12.8	13.1
8	12.8	12.8	12.8	12.8	12.8	12.8	12.7	13.3	13.6	13.5	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.1	12.9	12.9	12.9	12.9	12.8	12.8	13.1
9	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13.5	13.7	13.6	13.5	13.5	13.5	13.4	13.5	13.6	13.6	13.1	12.9	12.9	12.8	12.8	12.8	12.8	13.1
10	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.9	13.6	13.5	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13	12.9	12.9	12.9	12.9	12.8	12.8	13
11	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13	13.5	13.5	13.4	13.4	13.4	13.3	13.3	13.3	13.1	13	12.9	12.9	12.9	12.9	12.9	12.8	13
12	12.8	12.8	12.8	12.8	12.8	12.7	12.7	13.3	13.5	13.4	13.4	13.4	13.4	13.3	13.3	13.4	13.4	13.1	12.9	12.9	12.9	12.8	12.8	12.8	13.1
13	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13.5	13.7	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13	12.9	12.9	12.8	12.8	12.8	12.8	13.1
14	12.8	12.8	12.7	12.7	12.7	12.6	12.6	12.9	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.5	13.1	12.9	12.9	12.9	12.9	12.8	12.8	13.1
15	12.8	12.8	12.8	12.7	12.7	12.7	12.6	13.7	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.7	13.3	12.9	12.9	12.9	12.9	12.8	12.8	13.2
16	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13.7	13.8	13.7	13.7	13.6	13.7	13.7	13.7	13.7	13.8	13.3	12.9	12.9	12.9	12.8	12.8	13.2
17	12.8	12.8	12.7	12.7	12.7	12.6	12.6	13.9	14	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.2	12.9	12.9	12.9	12.8	12.8	12.8	13.2
18	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13.4	13.4	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
19	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.5	13.2	12.9	12.9	12.9	12.8	12.8	12.8	13
20	12.7	12.7	12.7	12.7	12.7	12.7	12.7	14.1	14	13.9	13.8	13.8	13.7	13.7	13.8	13.8	13.8	13.3	13	12.9	12.9	12.8	12.8	12.8	13.2
21	12.8	12.8	12.8	12.7	12.7	12.7	12.7	14	13.9	13.7	13.6	13.6	13.5	13.6	13.6	13.6	13.7	13.3	13	12.9	12.9	12.8	12.8	12.8	13.2
22	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13.1	13.4	13.1	13.5	13.2	13.3	13.7	13.7	13.7	13.3	13	12.9	12.9	12.8	12.8	12.8	13.1
23	12.7	12.7	12.6	12.6	12.6	12.6	12.6	14.1	14	13.9	13.8	13.7	13.7	13.7	13.7	13.7	13.7	13.3	13	12.9	12.9	12.8	12.8	12.8	13.2
24	12.8	12.8	12.8	12.7	12.7	12.7	12.8	14.1	14	13.9	13.8	13.7	13.7	13.7	13.6	13.6	13.7	13.3	13	12.9	12.9	12.8	12.8	12.8	13.2
25	12.8	12.8	12.7	12.7	12.7	12.7	12.8	14.1	13.9	13.7	13.6	13.5	13.5	13.5	13.5	13.6	13.6	13.3	13	12.9	12.9	12.8	12.8	12.8	13.2
26	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13.9	13.7	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13.2	13	12.9	12.9	12.9	12.9	12.8	13.1
27	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13.4	13.6	13.5	13.4	13.4	13.3	13.3	13.3	13.3	13.1	13	12.9	12.9	12.9	12.9	12.9	12.8	13.1
28	12.8	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.8	12.9	13.2	13.2	13.2	12.9	12.8	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.8

Avg	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13.4	13.6	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.1	12.9	12.9	12.8	12.8	12.8	12.8	13.1
S D	0	0	0	0	0	0	0.1	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1
S/A	0	0	0	0	0	0	0	0.04	0.03	0.03	0.02	0.02	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0	0	0	0	0	0.01
Min	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	12.7	12.7	12.8	13.2	13.2	12.9	12.8	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.8
Max	12.8	12.8	12.8	12.8	12.8	12.8	12.8	14.1	14.1	14	13.9	13.9	13.9	13.8	13.9	13.9	13.9	13.3	13	12.9	12.9	12.9	12.9	12.8	13.2
n	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	8064

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8064 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.