

August 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	21	101	220 ?	?	?	?	?	412 ?	407 ?	260 ?	185 ?	146	?	50	4	0	0	0	0	1806 ?	
2	0	0	0	0	0	26	78 ?	?	?	?	?	?	?	279 ?	?	?	?	101 ?	37	1	0	0	0	0	522 ?	
3	0	0	0	0	0	25	115 ?	?	?	?	?	476 ?	331 ?	?	?	262 ?	191	109 ?	41	3	0	0	0	0	1554 ?	
4	0	0	0	0	0	29	84 ?	?	?	?	350 ?	?	319 ?	249 ?	269 ?	?	?	97 ?	32	0	0	0	0	0	1431 ?	
5	0	0	0	0	0	21	138	224 ?	?	?	?	?	?	?	313 ?	380 ?	246 ?	81	27	0	0	0	0	0	1430 ?	
6	0	0	0	0	0	29	86 ?	?	?	?	?	?	?	?	430 ?	382 ?	209 ?	?	27	0	0	0	0	0	1163 ?	
7	0	0	0	0	0	19	104 ?	232 ?	371 ?	442 ?	330	414	576 ?	487 ?	363 ?	273	222 ?	120	27	0	0	0	0	0	3979 ?	
8	0	0	0	0	0	18	66	151 ?	?	410 ?	514 ?	701 ?	752	642	498	365	317	186	36	0	0	0	0	0	4654 ?	
9	0	0	0	0	0	26	153	311 ?	?	?	?	546 ?	396 ?	349	430	391 ?	375	150	27	0	0	0	0	0	3156 ?	
10	0	0	0	0	0	23	81 ?	?	?	?	423	249	583 ?	329	?	276	199 ?	119	33	0	0	0	0	0	2315 ?	
11	0	0	0	0	0	15	87 ?	?	?	355 ?	478 ?	383 ?	341 ?	?	?	281 ?	199 ?	88 ?	40	0	0	0	0	0	2268 ?	
12	0	0	0	0	0	26	87 ?	?	?	?	?	?	?	?	296 ?	236 ?	?	94 ?	40	0	0	0	0	0	778 ?	
13	0	0	0	0	0	6	55	184	177	153	170	241	342	294	244	147	45 ?	37	6	0	0	0	0	0	2099	
14	0	0	0	0	0	22	83 ?	?	?	?	?	?	?	?	?	?	?	92 ?	34	0	0	0	0	0	232 ?	
15	0	0	0	0	0	21	81 ?	?	?	?	?	623 ?	?	563 ?	?	?	107 ?	90	17	0	0	0	0	0	1502 ?	
16	0	0	0	0	0	18	77	217 ?	?	?	?	359 ?	465 ?	412	383 ?	275 ?	100	108	39	0	0	0	0	0	2451 ?	
17	0	0	0	0	0	23	80 ?	?	352 ?	305 ?	?	?	542 ?	486 ?	487 ?	370	261	162	28	0	0	0	0	0	3097 ?	
18	0	0	0	0	0	19	79 ?	?	?	?	?	?	?	?	?	?	?	?	36	0	0	0	0	0	133 ?	
19	0	0	0	0	0	19	72 ?	?	?	?	?	?	?	488 ?	?	247 ?	211 ?	126 ?	32	0	0	0	0	0	1194 ?	
20	0	0	0	0	0	15	78 ?	?	334 ?	346 ?	?	675 ?	722	503	624	509	297	155	36	0	0	0	0	0	4296 ?	
21	0	0	0	0	0	16	121	319	535	724	871	952	967	911	791	615	410	180	32	0	0	0	0	0	7444	
22	0	0	0	0	0	14	115	306	355	551	602	751	741	585	536	506	270	125	18	0	0	0	0	0	5474	
23	0	0	0	0	0	14	127	350	393	676	656	481	212	382	491	289	196	69	13	0	0	0	0	0	4349	
24	0	0	0	0	0	35	124	279	490	778	927	499	510	394	324	254	186	105	21	0	0	0	0	0	4926	
25	0	0	0	0	0	11	117	274	498	701	798	791	896	584	691	515	236	83	20	0	0	0	0	0	6215	
26	0	0	0	0	0	9	80	133	262	285	515	514	422	359	302	116	47	32	6	0	0	0	0	0	3081	
27	0	0	0	0	0	14	37	180	147	164	226	430	232	128	97	59	34 ?	19	6	0	0	0	0	0	1773	
28	0	0	0	0	0	12	28	63	125	267	364	468	503	523	228	191	96	76	19	0	0	0	0	0	2964	
29	0	0	0	0	0	64 ?	41	84	?	?	?	277 ?	?	?	234 ?	213 ?	115	51	24	0	0	0	0	0	1102 ?	
30	0	0	0	0	0	12	89	178 ?	?	316 ?	314 ?	309 ?	325	327	149	212 ?	89	42	12	0	0	0	0	0	2374 ?	
31	0	0	0	0	0	15	64 ?	?	?	?	?	?	536 ?	517	386 ?	?	233 ?	106	17	0	0	0	0	0	1874 ?	
Avg	0	0	0	0	0	21	88	218	336	431	502	507	506	443	384	302	194	100	27	0	0	0	0	0	2633 ?	
S D	0	0	0	0	0	10	29	83	137	206	230	192	205	161	170	134	98	42	11	1	0	0	0	0	1790	
S/A	0	0	0	0	0	0.5	0.33	0.38	0.41	0.48	0.46	0.38	0.41	0.36	0.44	0.44	0.5	0.42	0.42	3.22	0	0	0	0	0.68	
Min	0	0	0	0	0	6	28	63	125	153	170	241	212	128	97	59	34	19	6	0	0	0	0	0	133	
Max	0	0	0	0	0	64	153	350	535	778	927	952	967	911	791	615	410	186	50	4	0	0	0	0	7444	
n	0	0	0	0	0	227	258	162	117	146	145	162	192	216	206	243	254	292	296	4	0	0	0	0	0	2940

Daylight Data Recovery: 0.0% missing; 0.0% untested; 41.2% exceed the 15% QC threshold -- 4997 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31392F3 Calibration Factor: 7.3961 $\mu\text{V}/\text{W}/\text{m}^2$ 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

August 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	2	4?	?	?	?	?	4?	0?	1?	1?	0	1?	0	0	0	0	0	0	12?
2	0	0	0	0	0	2	6?	?	?	?	?	?	?	0?	?	?	?	0?	0	0	0	0	0	0	8?
3	0	0	0	0	0	1	7?	?	?	?	?	0?	0?	?	?	0?	1	1?	1	0	0	0	0	0	10?
4	0	0	0	0	0	3	12?	?	?	?	0?	?	0?	0?	?	?	?	0?	0	0	0	0	0	0	15?
5	0	0	0	0	0	0	5	6?	?	?	?	?	?	?	0?	1?	1?	0	0	0	0	0	0	0	13?
6	0	0	0	0	0	2	5?	?	?	?	?	?	?	?	1?	3?	0?	?	0	0	0	0	0	0	11?
7	0	0	0	0	0	1	7?	6?	6?	4?	0	4	6?	0?	0?	1	1?	0	0	0	0	0	0	0	37?
8	0	0	0	0	0	0	1	3?	6?	3?	4?	227?	356	270	195	171	292	275	63	0	0	0	0	0	1867?
9	0	0	0	0	0	96	272	403	?	230?	?	120?	35?	32	100	169?	299	73	0	0	0	0	0	0	1830?
10	0	0	0	0	0	6	23?	?	?	?	8	3?	19?	1	?	6	4?	6	3	0	0	0	0	0	78?
11	0	0	0	0	0	1	9?	?	?	10?	11?	3?	6?	?	?	4?	4?	6?	7	0	0	0	0	0	62?
12	0	0	0	0	0	5	13?	?	?	?	?	?	?	?	6?	4?	?	3?	3	0	0	0	0	0	35?
13	0	0	0	0	0	0	1	3	0	0	0	2	4	3	1	0	0	1	0	0	0	0	0	0	16
14	0	0	0	0	0	2	8?	?	?	?	?	?	?	3?	?	?	?	3?	0	0	0	0	0	0	15?
15	0	0	0	0	0	1	8?	?	?	?	?	7?	?	9?	?	?	3?	0	0	0	0	0	0	0	28?
16	0	0	0	0	0	0	3	11?	?	?	?	2?	8?	2	2?	2	0	1	1	0	0	0	0	0	30?
17	0	0	0	0	0	1	6?	?	6?	4?	?	?	4?	5?	4?	3	3	1	0	0	0	0	0	0	38?
18	0	0	0	0	0	0	6?	?	?	?	?	?	?	?	?	?	?	2?	0	0	0	0	0	0	9?
19	0	0	0	0	0	1	5?	?	?	?	?	?	?	?	?	1?	1?	3?	0	0	0	0	0	0	15?
20	0	0	0	0	0	0	7?	?	6?	4?	?	85?	292	68	279	310	224	198	68	0	0	0	0	0	1542?
21	0	0	0	0	0	43	281	509	662	769	831	862	869	872	853	810	734	429	189	0	0	0	0	0	8714
22	0	0	0	0	0	3	265	481	220	376	333	447	432	310	317	467	243	184	1	0	0	0	0	0	4080
23	0	0	0	0	0	14	289	551	253	610	331	152	2	44	24	17	15	0	0	0	0	0	0	0	2301
24	0	0	0	0	0	77	261	445	559	736	753	47	44	30	9	4	1	3	37	0	0	0	0	0	3006
25	0	0	0	0	0	8	280	347	504	608	623	452	610	309	503	413	70	4	5	0	0	0	0	0	4735
26	0	0	0	0	0	0	2	2	9	3	43	30	12	7	6	0	0	0	0	0	0	0	0	0	113
27	0	0	0	0	0	1	1	14	0	1	3	20	2	1	1	0	0	0	1	0	0	0	0	0	45
28	0	0	0	0	0	1	1	1	1	10	7	21	23	39	2	1	0	1	0	0	0	0	0	0	106
29	0	0	0	0	0	1	1	1	?	?	?	2?	?	?	0?	3?	0	0	0	0	0	0	0	0	9?
30	0	0	0	0	0	0	6	8?	?	6?	6?	4?	2	3	0	4	1	0	0	0	0	0	0	0	41?
31	0	0	0	0	0	2	8?	?	?	?	?	?	3?	4	1?	?	4?	1	0	0	0	0	0	0	23?
Avg	0	0	0	0	0	9	58	164	172	211	197	124	124	84	100	96	73	40	12	0	0	0	0	0	930?
S D	0	0	0	0	0	22	108	226	247	301	303	222	238	194	211	201	166	100	37	0	0	0	0	0	1930
S/A	0	0	0	0	0	2.54	1.86	1.37	1.44	1.43	1.54	1.78	1.92	2.31	2.1	2.1	2.27	2.51	3.02	0	0	0	0	0	2.07
Min	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Max	0	0	0	0	0	96	289	551	662	769	831	862	869	872	853	810	734	429	189	0	0	0	0	0	8714
n	0	0	0	0	0	230	262	164	119	151	145	160	193	220	207	246	266	299	297	4	0	0	0	0	2981

Daylight Data Recovery: 0.0% missing; 0.0% untested; 40.3% exceed the 15% QC threshold -- 4997 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

August 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	23	99	194 ?	?	?	?	?	329 ?	264 ?	238 ?	171 ?	139	78 ?	39	4	0	0	0	0	1580 ?
2	0	0	0	0	0	22	51 ?	?	?	?	?	?	?	275 ?	?	?	?	85 ?	37	1	0	0	0	0	471 ?
3	0	0	0	0	0	21	81 ?	?	?	?	?	309 ?	262 ?	?	?	187 ?	154	96 ?	28	3	0	0	0	0	1144 ?
4	0	0	0	0	0	22	50 ?	?	?	?	294 ?	?	284 ?	239 ?	205 ?	?	?	88 ?	30	0	0	0	0	0	1212 ?
5	0	0	0	0	0	21	117	176 ?	?	?	?	?	?	?	289 ?	332 ?	217 ?	81	26	0	0	0	0	0	1258 ?
6	0	0	0	0	0	21	50 ?	?	?	?	?	?	?	?	356 ?	307 ?	199 ?	?	22	0	0	0	0	0	956 ?
7	0	0	0	0	0	19	87 ?	182 ?	293 ?	389 ?	330	391	536 ?	374 ?	314 ?	265	209 ?	106	27	0	0	0	0	0	3521 ?
8	0	0	0	0	0	20	64	118 ?	333 ?	318 ?	388 ?	341 ?	360	364	317	239	175	116	28	0	0	0	0	0	3180 ?
9	0	0	0	0	0	19	74	96	?	222 ?	?	348 ?	340 ?	307	304	243 ?	158	111	27	0	0	0	0	0	2249 ?
10	0	0	0	0	0	18	53 ?	?	?	?	387	233	506 ?	327	?	258	186 ?	105	31	0	0	0	0	0	2104 ?
11	0	0	0	0	0	13	57 ?	?	?	302 ?	389 ?	298 ?	312 ?	?	?	243 ?	166 ?	77 ?	31	0	0	0	0	0	1888 ?
12	0	0	0	0	0	15	34 ?	?	?	?	?	?	?	?	223 ?	198 ?	?	82 ?	34	0	0	0	0	0	585 ?
13	0	0	0	0	0	6	55	179	177	153	170	241	325	294	244	147	39	37	6	0	0	0	0	0	2070
14	0	0	0	0	0	17	39 ?	?	?	?	?	?	?	310 ?	?	?	?	72 ?	30	0	0	0	0	0	468 ?
15	0	0	0	0	0	16	50 ?	?	?	?	?	?	534 ?	?	?	?	94 ?	90	17	0	0	0	0	0	1278 ?
16	0	0	0	0	0	18	73	178 ?	?	?	?	309 ?	396 ?	356	333 ?	255	94	99	34	0	0	0	0	0	2145 ?
17	0	0	0	0	0	20	55 ?	?	246 ?	264 ?	?	?	450 ?	401 ?	394 ?	320	218	154	28	0	0	0	0	0	2550 ?
18	0	0	0	0	0	18	63 ?	?	?	?	?	?	?	?	?	?	?	59 ?	28	0	0	0	0	0	168 ?
19	0	0	0	0	0	17	46 ?	?	?	?	?	?	?	?	?	?	?	92 ?	26	0	0	0	0	0	955 ?
20	0	0	0	0	0	14	59 ?	?	293 ?	296 ?	?	447 ?	416	428	395	303	193	107	31	0	0	0	0	0	2983 ?
21	0	0	0	0	0	17	68	115	131	122	116	107	103	92	87	79	69	66	18	0	0	0	0	0	1189
22	0	0	0	0	0	14	57	106	215	250	294	306	304	286	261	193	160	73	18	0	0	0	0	0	2535
23	0	0	0	0	0	13	62	122	218	182	319	327	209	336	469	273	188	69	13	0	0	0	0	0	2799
24	0	0	0	0	0	37	75	96	126	183	212	450	456	358	316	248	186	104	20	0	0	0	0	0	2866
25	0	0	0	0	0	10	59	123	173	198	217	310	280	280	257	211	197	82	20	0	0	0	0	0	2418
26	0	0	0	0	0	9	80	133	255	284	464	471	411	353	296	116	47	32	6	0	0	0	0	0	2955
27	0	0	0	0	0	16	37	175	147	164	226	408	232	128	97	59	30	19	6	0	0	0	0	0	1744
28	0	0	0	0	0	14	28	63	125	251	358	428	455	439	226	191	96	74	19	0	0	0	0	0	2768
29	0	0	0	0	0	?	38	77	?	?	?	215 ?	?	?	220 ?	199 ?	114	50	23	0	0	0	0	0	937 ?
30	0	0	0	0	0	11	74	140 ?	?	278 ?	306 ?	277 ?	288	304	129	195 ?	87	42	12	0	0	0	0	0	2144 ?
31	0	0	0	0	0	15	40 ?	?	?	?	?	?	480 ?	459	362 ?	?	175 ?	86	17	0	0	0	0	0	1635 ?
Avg	0	0	0	0	0	17	61	134	210	241	298	338	352	326	275	218	145	81	24	0	0	0	0	0	1831 ?
S D	0	0	0	0	0	6	20	40	70	71	95	101	107	91	94	69	58	28	9	1	0	0	0	0	902
S/A	0	0	0	0	0	0.33	0.32	0.3	0.33	0.29	0.32	0.3	0.3	0.28	0.34	0.32	0.4	0.34	0.38	3.25	0	0	0	0	0.49
Min	0	0	0	0	0	6	28	63	125	122	116	107	103	92	87	59	30	19	6	0	0	0	0	0	168
Max	0	0	0	0	0	37	117	194	333	389	464	534	536	478	469	332	218	154	39	4	0	0	0	0	3521
n	0	0	0	0	0	213	262	164	119	151	145	163	194	220	209	245	264	299	297	4	0	0	0	0	2967

Daylight Data Recovery: 0.0% missing; 0.0% untested; 40.6% exceed the 15% QC threshold -- 4997 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

August 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	24	23.9	23.8	23.4	22.8	22.5	22.5	23.5	25.8	28.6	29.7	30.8	31.9	32.2	32.8	32	30.4	30.3	29.5	28.6	27.8	27.3	26.6	26.3	27.4
2	25.8	25.4	25	24.8	24.4	24.7	25.4	26.8	28.5	29.8	31.4	32.2	33	33	33	33.4	33.4	32.9	31.3	28.9	28.6	27.6	27.6	26.4	28.9
3	26.1	24.9	23.7	23.5	23.4	22.7	23.2	25.6	27.3	28.2	29.2	30	30.3	30.7	31.2	31.4	30	27.7	27.3	26.1	25.5	25.3	25.1	24.6	26.8
4	24	23.7	23.1	22.6	22	21.8	23.4	26.2	28.2	29.1	30	30.1	30.5	30.8	31	31.2	30.5	29.4	28.7	28	27.7	26.9	26.5	26.2	27.1
5	25.6	25.3	24.9	24.8	24.6	24.5	24.8	26.1	28.7	30.4	31.2	32	32.4	31.9	31.3	30.8	29.8	29.1	28.5	27.7	27.4	27.5	27.3	27.4	28.1
6	26.8	26.3	25.8	25.6	24.6	24.1	24.7	25.2	26.6	28.3	29.9	30.8	31.5	32.3	32.8	33	33	33.3	31.9	30.2	28.6	27.9	27	26.8	28.6
7	26.1	25.8	24.8	24.1	23.9	23.7	25.1	27.1	28.4	29.9	29.8	29.5	30.7	31.2	30.9	30.3	30.2	29.8	28.9	28.2	27.5	27.1	26.6	26.3	27.8
8	25.4	22.7	22.1	22	22.3	22	22.3	23.2	25.2	26	27.2	28.2	29	29.1	28.9	28.9	27.6	27.2	26	25.3	24.8	24.1	22.2	21.4	25.1
9	21.3	21	21	20.6	20.3	20	22	23.5	25.2	26.9	27.4	28.1	28	26.9	27	27.2	26.9	26.2	24.4	24	23.9	24.2	23.8	23.3	24.3
10	22.8	22.3	22.2	22.1	21.7	21.6	23	24.7	25.9	26.9	27.7	25.7	23.9	24.3	25.5	26.7	25.6	25.2	24.4	23.8	23.5	24	22.7	20.6	24
11	20.7	21.1	20.8	20	19.6	19.8	20.2	21.7	23	24.7	25.5	26.2	27.2	27.6	27.8	27.5	27.4	27.7	25.4	23.6	23.1	22.3	20.4	19.7	23.5
12	19.2	18.5	17.5	17	16.6	15.9	17.3	19.5	21.8	23.8	25.1	26.1	27.1	28.4	28.7	27.9	28.7	28.4	27	25.3	23.9	23.1	22.7	22.5	23
13	22	21.4	21.4	22.1	22.3	22.6	22.8	23.9	24.6	25	24.4	23.9	24.1	24.5	24.4	24.3	21.8	20.8	20.7	20.5	20.2	20	19.7	19.4	22.4
14	18.9	18.4	17.9	17.6	17.3	17	17.7	20.6	22.9	24.6	26	27	27.8	27.9	28.2	28.1	28.3	27.6	26.4	24.9	23.9	23.5	23.4	22.8	23.3
15	22.2	21.6	21.2	21	20.5	20.1	20.8	22.6	24.9	26.7	27.5	28.4	28.7	29.3	28.8	28.2	27.9	27.1	24.2	20.4	20.6	20.7	20.9	20.8	24
16	20.5	20.4	19.6	19.9	20.3	19.7	19.6	20.6	22.9	24.9	26.4	27.6	28.3	28	28.5	28.3	26.8	25.8	25	24.1	23.3	22.6	22.3	22.2	23.7
17	21.1	20.5	20.1	19.9	19.3	18.9	20.7	23.3	25.9	26.4	27.6	28.3	28.3	27.8	27.4	26.9	26.9	26.4	25.8	24.8	24.3	23.8	22.7	21.9	24.1
18	21.4	21.6	21.2	21.4	20.9	20.6	21.3	23.8	26.2	27.5	28	28.2	28.8	28.8	28.9	28.3	27.8	27.1	26	25	24.4	23.9	23.3	22.6	24.9
19	21.8	21.6	21.3	20.9	20.6	20.6	21	22.9	25.3	27.3	28.6	30.3	30.6	30.9	31.3	30.5	29.7	29.1	27.9	26.5	25.3	24.7	24.4	24.1	25.7
20	23.5	23	22.6	22.1	22.1	22.1	22.7	24.3	26.2	27.1	27.9	28.6	28.4	27.4	27.1	27	26.2	25.5	24.8	23.6	23.1	22.7	22.6	22.8	24.7
21	22.6	22.3	22.4	22.4	22.1	21.8	22.4	23.9	24.9	25.6	26	26.3	26.5	26.8	26.7	26.3	25.8	25	23.8	22.7	21.9	21.4	21.1	20.8	23.8
22	20.8	20.7	20	19.6	19.8	20	20.4	22.8	24.8	25.9	26.4	27	27.3	27.2	27.1	27	26.6	25.5	24.2	23.6	23	22.8	22.7	22.7	23.7
23	22.2	21.9	21.9	21.5	21.8	22.1	23	24.4	24.4	26.5	27.1	26.8	25.1	25.3	26.5	25.8	25.2	25.2	24.8	24.2	23.8	23.6	23.5	23.1	24.2
24	22.8	22.8	22.7	22.5	22.7	22.6	23.8	24.9	25.6	27.1	27.7	27.6	27.1	26.8	26.3	26.6	26.2	26.1	25.1	24.3	23.8	23.4	22.9	22.8	24.8
25	23	23.2	23.3	23.2	22.7	22.1	22.4	23.8	25.5	27.1	28.7	29.4	30.3	30.5	31	30.3	29.5	28.9	27.7	26.8	26.3	25.9	25.5	25.3	26.4
26	24.9	24.6	24.4	24.2	24	23.7	23.9	24.8	25.2	26	26.6	26.6	26.9	25.5	25.5	24.5	24.1	23.6	23.3	23	22.9	23	22.6	24.5	
27	22.4	22.3	22.3	22.5	22.7	22.9	23.3	24.4	24.6	24.6	25	26	26	25	25.3	24.4	24	24	24.1	24.1	24.4	24.4	24.6	24.4	24.1
28	24.3	24.4	24.5	24	24.1	24	24.1	24.4	24.6	24.9	25.4	25.7	25.8	26.1	26	26	25.9	25.7	25.7	25.3	25.1	24.9	24.7	24.6	25
29	24.6	24.3	24.1	24.1	24.1	23.9	24.4	23.8	24.9	26.8	27.9	28.8	29.6	30.7	30.7	30.9	29.6	27.7	26.7	26.5	26.5	25.9	25.7	25.1	26.6
30	24.6	24.4	24	23.8	23.4	23	23.5	24.7	26.5	28	29.1	30.2	29.7	29.7	28.5	24.1	23.8	23	23.4	23.7	23.2	22.8	22.7	22.3	25.1
31	22.3	21.9	21.7	21.2	21	21.5	22.7	24.5	26	27.6	28.2	28.4	28.6	27.5	26.9	26.7	26	25	24.1	23.3	22.7	22.3	21.8	21.4	24.3
Avg	23	22.7	22.3	22.1	21.9	21.7	22.4	23.9	25.5	26.8	27.7	28.2	28.5	28.5	28.6	28.2	27.6	27	26	25.1	24.6	24.2	23.7	23.3	25.1
S D	2.1	2	2	2	2	2.1	2	1.7	1.6	1.7	1.8	2	2.3	2.5	2.4	2.6	2.6	2.7	2.4	2.3	2.2	2.1	2.1	2.2	1.7
S/A	0.09	0.09	0.09	0.09	0.09	0.1	0.09	0.07	0.06	0.06	0.07	0.07	0.08	0.09	0.09	0.09	0.1	0.1	0.09	0.09	0.09	0.09	0.09	0.09	0.07
Min	18.9	18.4	17.5	17	16.6	15.9	17.3	19.5	21.8	23.8	24.4	23.9	23.9	24.3	24.4	24.1	21.8	20.8	20.7	20.4	20.2	20	19.7	19.4	22.4
Max	26.8	26.3	25.8	25.6	24.6	24.7	25.4	27.1	28.7	30.4	31.4	32.2	33	33	33	33.4	33.4	33.3	31.9	30.2	28.6	27.9	27.6	27.4	28.9
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 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

August 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	?	?	104.4 ?	104.6 ?	?	?	?	103.8 ?	99	87.6	78	72.5	68.8	68.3	64.4	70.6	81.2	82.9	87.3	90.2	94.2	99	102.8	101.9	87.5 ?
2	100	102.2	103.8	104.8 ?	?	104.4 ?	101.9	94.8	85	80.7	73	68.5	64.3	66.9	67.2	63.4	63.6	67	77.8	83.4	64.5	71.3	79.5	100	82.1
3	94.7	94.1	100	100.4	98.2	100.4	100.2	94.1	88	82.9	78.4	71.7	70.5	63.5	58.2	55.8	66.7	84.8	83.6	88.1	92.4	92.7	93.7	95.2	85.3
4	97.7	98.3	100.1	101.3	103.9	104.6 ?	101.9	93.2	77.2	71.4	70.4	71.2	72	69.4	68	68.6	72.2	83	88.3	92.3	94.8	97.1	98.2	98.4	87.2
5	100	101.2	102.6	104.1	104.6	103.9	101.8	98.1	86.3	77.6	72.7	72.2	74.4	77.3	78.3	79.3	88.1	92.4	95.8	99.2	101	100.9	101.2	99.8	92.2
6	103.8	104.6 ?	?	104.3 ?	104.2	102.6	96.4	94	87	80.2	74	70.4	67.9	65.9	64.4	63.5	62.4	59	64.6	71.4	87	93.5	91.5	89.7	82.7
7	92.9	92.3	95.2	98.8	101.2	103.1	100.5	94.9	84.5	77.6	74.5	75.8	64.2	56.7	55.8	60.5	62.4	65.6	72	75.4	78.7	82.4	92.4	94.2	81.3
8	93.6	101.4	101.6 ?	104.6 ?	104	104.8 ?	103.6	98.6	91.3	88.1	79	67.6	59.3	55.3	58.7	60	69.8	72.4	76.8	80	82.8	86.6	96.1	97.8	84.7
9	99.1	100.9	100.3	101.7	101.5	100.5	90	83.6	78	67.9	67.4	65.2	66.5	69.1	69.1	69.9	69.4	74.6	85.6	88.7	87.5	84.7	87.2	91.6	83.3
10	98.2	99.4	100	100.9	102.4	104.2	101.8	98.2	92.6	86.4	77.9	81.9	91.6	84.1	77.9	74.4	82	85.2	91.3	94.1	95.5	98.3	103.5	102.6	92.7
11	103.4 ?	104.5 ?	99.1	102.6	104.8 ?	104.5 ?	103.8	99.3	96.5	88.1	77.1	69.8	64	63.9	63.1	57.9	54.7	52.8	73.4	80.8	81	87	96.2	97.1	84.4
12	93.8	92.6	93.8	91.5	90.9	94.1	88.2	82.2	78	69.5	65.9	60.6	56.6	53.4	51.6	55.7	53	53.8	62.1	67.7	75.9	84.4	90	91.5	74.9
13	95.2	97.9	97.7	95.3	93.2	90.4	88.8	83.4	81.9	78.2	77.6	76.1	74.6	76.2	75.2	77.6	95.3	102.9	104	104.6 ?	?	?	?	?	88.3 ?
14	?	?	?	?	?	?	104.4 ?	98	88.8	80.4	72.6	69	63.5	69.5	61.7	67.4	65.9	68.8	76.8	82.7	90	93.6	97.1	99.8	80.6 ?
15	101.2	102.3	103.3	103.8	?	?	103.7 ?	98.6	85.3	71	71.5	70.6	62.2	63.3	72.7	76.8	80.4	84	91.4	?	?	?	?	?	84.8 ?
16	?	?	?	?	?	?	?	?	99.4	92	82.9	76.1	72.6	71.8	68.4	68.9	81.2	88.5	89.8	88.7	93.6	96.9	97.3	96.6	85.3 ?
17	100.2	102.7	104.7 ?	?	?	?	103.7 ?	99.4	82.9	71.8	67.3	63.3	61.1	67.2	66.4	68.8	65.3	68.8	71.5	80.6	81.3	82.2	87.2	92.5	80.4 ?
18	94.8	95.8	99.5	101.2	100.2	102	99.3	93.3	83.9	69.5	64.3	65.9	65.9	68.1	66.7	68.8	71.9	78.3	83.1	89.1	93.3	94.6	97	101.5	85.3
19	104.3 ?	?	?	?	?	?	?	102.2 ?	95.7	85.7	76.4	66	68.6	65.3	56.4	65.6	66.3	70.8	72.8	79.3	89.3	97.6	102.1	104.3 ?	81.6 ?
20	?	?	?	?	?	?	102.9 ?	99.7	95.3	90.8	86.8	85	85.5	87.8	88.1	85.9	87.1	87.1	87.2	92.9	96.6	98.4	98.7	99.5	92 ?
21	100.4	100.7	100.4	99	97.3	95.7	90.3	82.8	75.5	70.4	67.1	66.3	65	63.5	63.7	66.2	69.2	76.3	83.9	89.7	93.8	96.5	98.4	99.5	83.8
22	99.6	100.3	102.6	104.5	104.6 ?	104.7	102.9 ?	97.6	89.9	84.3	82.6	79.6	78.8	79	79	79.7	80.6	87.7	97.2	98.6	100.7	102.3	101.1	100.6	93.3
23	102.2	103.9	104	104.9 ?	103.2	102.6	100.6	96.7	93.4	83.3	79.8	81	93.7	94.6	84.1	87.1	89.2	87.8	89.1	91.2	95.5	97.8	98.7	100.3	94.4
24	101.5	101.7	102.6	103	102	102.5	99.1	94.8	88.8	81.4	77.6	78.6	81.5	84.8	88.3	85.2	86.6	85.3	93	96.1	97.4	99.7	101.7	102.9	93.2
25	103.8	104	104	104.3	104.5 ?	?	?	102.4	96.4	90.6	80.1	75.3	74.1	68.1	68.6	73.2	76.9	76.7	84.1	91.9	94.8	97.9	100.8	101.2	89.7
26	101.9	103	103.9	104.4	104.7	104.5 ?	102.5	96.6	96.2	97.7	95.3	94.4	93.4	95.6	94.7	97.3	97.4	97.8	98.8	99.4	99.5	99.5	99.5	100.2	99.1
27	101.3	101.8	101.8	101.7	101.9	101.5	100.6	97.5	96.4	97.1	96.6	93.3	94.6	99.8	99.5	103.9 ?	?	?	?	?	?	?	?	?	99.3 ?
28	?	105 ?	104.4	?	?	104.7 ?	?	104.7 ?	104.1	102.9	100.6	99.9	99.4	98.9	99.4	100.1	99.6	102.2	103	102.9	103.7 ?	?	?	?	102.1 ?
29	?	104.7 ?	?	?	?	?	?	104.7 ?	101.3	97.9	94.4	90.5	85	78	77	75.8	85.3	93	96.6	97.6	99.1	100.3	99.9	101.4	93.5 ?
30	102.7	102.7	104.1	104.6	?	?	104.8 ?	103.7	97.7	91.8	87	82.8	85.5	86.8	93.3	101.7 ?	104 ?	104.7 ?	104.3 ?	102.6	104.7 ?	?	?	?	98.4 ?
31	?	?	?	?	?	?	102.8 ?	101.8	99.6	92.5	89.3	86.4	83.9	84.4	83.2	83.1	87.1	93.2	98	100.5	102.9	104.7 ?	?	?	93.3 ?
Avg	99.4	100.7	101.4	102	101.4	101.8	99.9	96.4	90.2	83.5	78.6	75.7	74.5	74.1	73	74.6	77.2	80.9	86.1	89.6	91.8	93.8	96.5	98.4	88.3 ?
S D	3.5	3.7	2.9	3.4	4	4	5.1	6.3	7.8	9.6	9.4	9.8	11.9	12.7	13.1	13.3	13.3	13.7	11.4	9.6	9.3	7.8	5.8	3.9	6.6
S/A	0.04	0.04	0.03	0.03	0.04	0.04	0.05	0.07	0.09	0.11	0.12	0.13	0.16	0.17	0.18	0.18	0.17	0.17	0.13	0.11	0.1	0.08	0.06	0.04	0.07
Min	92.9	92.3	93.8	91.5	90.9	90.4	88.2	82.2	75.5	67.9	64.3	60.6	56.6	53.4	51.6	55.7	53	52.8	62.1	67.7	64.5	71.3	79.5	89.7	74.9
Max	104.3	105	104.7	104.9	104.8	104.8	104.8	104.7	104.1	102.9	100.6	99.9	99.4	99.8	99.5	103.9	104	104.7	104.3	104.6	104.7	104.7	103.5	104.3	102.1
n	280	270	273	242	215	203	250	339	372	372	372	372	372	372	372	360	353	356	355	340	325	305	300	297	7671

Data Recovery: 0.0% missing; 0.0% untested; 14.1% failed QC -- 8928 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

August 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	24.7	24.4	24.2	23.9	23.3	22.9	23	24.2	28.1	32.9	36.2	37.7	38.2	38.9	38.9	38.7	36.3	34.4	33.5	31	28.9	27.7	26.8	26.1	30.2
2	25.7	25.2	24.7	24.3	24.2	24.1	25	27.7	31.2	34	36	37.5	37.5	37.5	37.2	37.4	37.6	37.1	35.2	32	29.6	28.3	27.5	27	31
3	26.3	26	24.9	23.7	23.2	22.8	23.1	25.8	30.4	33.4	35.4	36.7	36.9	36.3	36.6	37.1	36.3	33.1	30.9	28.7	26.5	25.3	24.8	24.3	29.5
4	23.5	22.8	22.2	21.5	21	20.8	21.9	26.5	31.6	35.4	37.3	37.6	37.4	36.8	36.3	36.5	36.5	35.1	32.1	29.8	28.3	27.5	26.6	26	29.6
5	25.5	25.1	24.9	24.8	24.8	24.7	24.9	26.7	30.4	34.8	37.8	39	39.7	39.1	38.2	36.9	35.8	33.8	31.4	29.6	28.3	27.7	27.5	27.3	30.8
6	26.9	26.4	25.7	25.5	25.1	24.4	24.9	27	28.9	31.1	33.9	35.9	36.8	37.4	38	38	38	37.5	36.3	32.9	30.2	28.3	27.1	26.3	30.9
7	26	25.6	25.2	24.4	23.9	23.6	24.2	27.5	31.3	34.3	35.5	34.6	35.2	36.4	36	34.7	33.5	33.1	31.6	29.5	28.1	27.4	27	26.5	29.8
8	26.4	25.2	23.6	22.4	21.9	21.7	21.8	22.6	26.1	29.4	31	32.8	34	34.6	34.4	34.4	33.1	31.9	30.3	27.3	25.3	24.1	22.6	21.1	27.4
9	20.4	20.3	20.2	20	19.6	19.1	20.3	23.7	27.4	30.6	33.1	35	35.1	33.6	31.8	31.4	31.9	30.9	28.5	25.8	24.2	23.9	23.7	23.2	26.4
10	22.7	22.2	21.8	21.5	21	20.6	21.6	25	28.2	30.4	31.7	31.2	28.1	28	28.3	30.7	29.8	28.9	27.2	25.2	24	23.7	23.5	21.9	25.7
11	20.7	20.8	20.7	20.4	20	19.8	20.1	22.7	25.7	28.6	30.4	31.7	32.2	33.1	33.4	33.3	31.7	31	30	26.7	24	22.4	20.7	19.2	25.8
12	18.2	17.5	16.9	16.1	15.5	15.2	16.3	20	24.2	27.8	30	31.8	32.8	33	34.3	33.8	33.3	33.6	31.3	27.6	24.8	23.2	22.5	22.1	25.1
13	21.6	20.7	20.2	20.5	21.1	21.5	22	23	24.6	25.6	25.9	25.9	26.2	26.6	27.1	26.9	25.6	22.6	21.2	20.6	20.3	20.1	19.8	19.4	22.9
14	19	18.6	18.1	17.5	17	16.7	17.3	20.9	25.4	28.8	31.4	33.1	34	33.9	33.3	33.1	33.1	32.6	30.5	27.3	24.9	23.5	23	22.6	25.7
15	22.1	21.5	20.9	20.6	20.4	19.8	20.2	23.4	27.5	31.2	33.7	35.1	35.4	35.2	35.4	34.3	33.5	31.8	28.9	24.7	22	21.2	20.9	20.7	26.7
16	20.6	20.5	20.3	19.9	19.9	19.9	19.7	20.6	23.6	27.8	31	33.5	34.6	34.6	34	34	32.3	29.5	27.7	25.6	23.7	22.4	21.4	20.8	25.7
17	20.4	19.6	19.2	18.9	18.7	18.2	18.8	21.8	27	30.1	32.7	35.1	35.6	34	32.8	31.5	30.6	29.5	28.1	26.3	24.9	24	22.7	21.2	25.9
18	20.1	20.1	20.5	20.6	20.7	20.2	20.3	23.2	28	32.1	34.6	35.5	35.4	34.9	34.6	34.4	33.5	32.2	30	27.1	25.2	24	23	22.2	27.2
19	21.2	20.8	20.8	20.5	20.3	20.2	20.5	22.7	26.8	30.8	33.9	36.3	37.4	36.8	36.9	36.7	34.5	33	31.4	28.7	26.5	25.1	24.2	23.7	27.9
20	23.3	22.8	22.4	22	21.8	21.7	21.8	24.4	27.6	29.8	31.3	33.5	34.3	33.6	32.4	32.1	31.5	29.9	28.2	25.7	23.8	22.7	22.2	22.1	26.7
21	22	21.8	21.6	21.6	21.4	21.2	21.6	24	27	29.3	30.8	31.6	31.7	31.4	31.5	31.8	31.7	30.8	28.4	25	22.6	21.3	20.5	20	25.9
22	19.7	19.6	19.4	19	18.8	18.8	19.3	22.3	26.1	28.4	30.2	31.4	32.2	32.1	32.1	31.7	31.5	30.4	27.1	24.7	23.3	22.5	22.2	22	25.2
23	21.7	21.4	21.3	21.2	21	21.3	22	25.2	27.3	29.6	31.6	32.2	29.8	26.9	27.9	29.6	28.6	27.6	26.5	25.4	24.4	24	23.7	23.5	25.6
24	22.9	22.7	22.6	22.5	22.5	22.5	23.4	26.1	28.8	31.8	34.8	35.6	33.8	32.4	30.9	30.3	29.5	28.6	27.5	25.6	24.4	23.6	22.9	22.3	27
25	22.4	22.8	23	23	22.8	22.2	22.2	24.6	27.4	30.6	33.6	35.6	36.2	36.1	35.9	36.4	34.9	32.6	30.4	28.4	27.1	26.4	25.7	25.3	28.6
26	25.1	24.8	24.6	24.4	24.2	24	24	24.8	26.2	27.7	28.8	30.3	30.8	30.3	29.6	28.6	26.8	25.6	24.8	24	23.6	23.5	23.3	23	25.9
27	22.5	22.3	22.1	22.2	22.3	22.5	23	24	25.8	26.2	26	27.3	28.8	27.5	25.9	25.5	24.7	24.4	24.3	24.1	24.2	24.4	24.5	24.5	24.5
28	24.3	24.2	24.3	24.3	24	24	24	24.4	25	25.6	26.8	27.9	28.8	29.4	29.4	28.6	27.9	27.3	26.8	26.3	25.7	25.3	25.2	24.9	26
29	24.8	24.7	24.5	24.3	24.4	24.3	24.6	24.8	26.2	30.7	33.9	35.5	35.4	35.4	35.9	35.3	35.2	32.1	29.5	27.8	27	26.6	26.2	25.8	29
30	25.1	24.8	24.4	24	23.6	23.1	23.2	25	28.3	32.2	34	36	36.7	35.1	33.8	29.4	26.5	24.9	23.9	23.8	23.5	23	22.5	22.2	27
31	21.9	21.8	21.6	21.4	21.1	20.9	21.4	24.1	27.9	31.3	33.4	34.5	35.1	34	32.7	32.4	31.6	29.7	27.1	24.6	23.2	22.3	21.6	21.1	26.5
Avg	22.8	22.5	22.1	21.8	21.6	21.4	21.8	24.2	27.4	30.4	32.5	33.8	34.1	33.7	33.4	33.1	32.2	30.8	29	26.8	25.2	24.4	23.7	23.2	27.2
SD	2.4	2.3	2.3	2.3	2.3	2.3	2.2	1.9	2.1	2.6	3	3.1	3.3	3.4	3.4	3.4	3.5	3.5	3.2	2.6	2.3	2.2	2.2	2.3	2.1
S/A	0.1	0.1	0.1	0.1	0.11	0.11	0.1	0.08	0.07	0.08	0.09	0.09	0.1	0.1	0.1	0.1	0.11	0.11	0.1	0.09	0.09	0.09	0.1	0.08	
Min	18.2	17.5	16.9	16.1	15.5	15.2	16.3	20	23.6	25.6	25.9	25.9	26.2	26.6	25.9	25.5	24.7	22.6	21.2	20.6	20.3	20.1	19.8	19.2	22.9
Max	26.9	26.4	25.7	25.5	25.1	24.7	25	27.7	31.6	35.4	37.8	39	39.7	39.1	38.9	38.7	38	37.5	36.3	32.9	30.2	28.3	27.5	27.3	31
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 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

August 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	2.3	2.6	2.5	2.2	1.8	2.1	1.4	1.7	1.3	1.2	1.8	1.5	1.5	1.8	1.1	1.5	2.4	2.2	2	1.6	1.5	1.1	0.8	1.4	1.7
2	1.2	1.2	1.1	1.5	1.2	1.6	1.7	2.3	2.1	2.7	2.7	3.7	3.8	3.6	4.8	4.1	4.3	3.5	2.3	2.3	1.8	1	1.1	1.2	2.4
3	1.9	2.9	1.3	1.3	1.3	1.2	1.4	1	1.6	1.9	1.8	2.1	2.3	2.2	2.4	1.9	2.4	2.5	2.5	2.6	1.9	1.7	1.6	0.9	1.9
4	0.7	0.3	0.1	0.1	0.4	0.3	0.1	0.4	0.7	1.2	1.2	2	2	2.4	2.5	3	3.6	2.9	2.4	1.6	1.3	1.5	1.3	1.2	1.4
5	1.2	1.7	1.8	1.7	1.1	0.8	1.4	1.1	0.8	1.1	1.6	1.8	2.6	2.7	3.1	2.9	2.8	2.2	2.6	2	1.3	0.9	1.2	0.8	1.7
6	0.9	0.3	0.6	2.4	1.8	2	2.7	2.6	3.1	2.5	2.6	2.3	1.8	2.2	2.1	2.3	2.7	1.9	1.4	0.8	0.4	0.2	0.2	1.2	1.7
7	1.7	2.1	1.6	1.5	1.1	1.5	0.9	0.7	1.2	1.2	1.2	1.6	1.5	3	3.1	2.4	2.2	1.5	0.5	0.3	0.7	1.1	0.9	2.3	1.5
8	5.3	3.7	3.2	2.2	1.9	1.8	1.6	1.7	2.3	2	2.1	2	1.6	1.9	1.6	1.7	3	2.4	2.2	2	1.5	0.7	0.1	0.3	2
9	0.3	1	0.6	0.7	1.3	1.3	1.7	2.3	2	2	2.1	2.1	2.3	2.7	2.9	2.7	3.5	3.1	2.6	0.6	1.6	1.1	1	0.9	1.8
10	1.4	1	0.7	0.8	0.6	0.6	1.1	2.6	3.7	3.8	3.6	4.2	4.1	3.3	2.1	2.8	4	4.1	2.5	2	2.3	2.6	3	1.3	2.4
11	0.5	1.1	0.8	0.7	1.2	1.2	1.1	2.5	2.4	2.4	2.6	2.2	1.5	2.5	2.3	2	1.9	1.5	1.9	2	1.4	0.5	0.4	0.8	1.6
12	0.7	1.2	1	1.3	1.2	1.6	1.9	1.7	1.7	2.4	2.2	2.3	2.1	1.6	1	2	1.8	0.7	0.8	0.5	0.5	1.4	1.5	0.8	1.4
13	0.6	0.4	0.8	1.1	0.9	1.1	1	1.9	2.6	3.3	3	2.8	3.9	2.1	2.4	2	2.3	0.1	0.3	0.5	0.1	0.8	1.6	1.6	1.5
14	1.6	1.2	1.5	1.2	1.2	0.6	0.6	0.8	1.8	1.9	1.9	2	1.8	2.7	3.4	3.2	3	2.4	1.4	1.3	1.1	2	1.8	1.4	1.8
15	1.1	0.8	0.9	1.2	0.3	0.3	0.7	1.3	1.2	1.3	1.6	2	3	1.9	4.1	4.3	3.5	2.7	3.8	2.9	2.8	2	0.6	0.7	1.9
16	0.6	1.5	1.8	1.2	0.5	0.3	0.6	1	1.5	2.2	2.2	1.7	1.6	1.9	1.9	1.9	2	2.5	1.8	1.3	0.9	0.7	0.4	0.7	1.4
17	0.1	0.3	0.4	0.3	0	0.3	0.3	0.1	0.8	1.4	1.7	2.3	2.6	3	3.7	3.7	3.1	3.2	2	1.4	0.8	0.6	0	0.1	1.3
18	0	0.1	0.5	0.7	0.9	0.9	0.9	0.9	0.9	1.4	1.9	2.7	2.6	3.3	3.5	3.6	3.6	3	2.8	2.1	1.3	0.9	0.8	0.2	1.6
19	0.5	1.2	0.6	0.9	0.8	1.3	1	1.9	2.2	1.8	2	1.4	2.4	2.4	3.6	3.4	3.8	3.1	2.3	1.7	1.8	1.5	1.2	0.9	1.8
20	0.5	1	0.8	0.8	1.7	0.3	0.4	2.2	3.6	3.3	3.7	3.8	4.1	4.6	5	4.5	4.2	3.6	2.3	1.9	1.4	1.5	2.1	2	2.5
21	1.8	1.5	1.5	1.5	1.8	2	2.1	2.7	4	3.9	3.9	4	4	3.6	3.8	3.7	3.5	3.2	2.6	1.9	1.6	1.5	1.5	1.4	2.6
22	1.3	1.2	1.2	1.2	1.1	1.3	1.2	1.5	3.1	3.7	3.9	3.9	3.8	3.9	3.8	3.9	3.3	2.8	1.9	1.1	1.1	1.5	1.5	1.3	2.3
23	1.1	1.1	1.2	1.3	1	1.4	1.9	3.3	2.4	3.6	3.8	3.6	3	2.8	3.5	3.7	3.2	3.1	2.1	1.5	1.8	1.8	1.5	1.1	2.3
24	0.8	0.6	0.8	1.1	1.2	0.8	0.6	1.3	2	1.9	2.3	2.5	3.1	3.2	2.6	3.3	3.3	2.7	2.3	1.9	1.6	1.4	0.6	1.2	1.8
25	1.4	1.2	0.9	0.9	1	0.8	1.2	2.4	2.7	2.3	2.2	2.6	2.6	3.1	3.2	3.9	3.2	2.9	2.3	1.8	1.5	1.3	1	1.2	2
26	1.3	1.4	1.1	1.1	1.1	1.2	1.2	1	2	3.3	4	4.5	3.7	4.1	3.5	3.5	3.3	3.2	3.2	3.2	2.8	2.6	2.4	2	2.5
27	1.9	1.8	1.7	1.9	1.9	2.2	2.6	3.6	4.7	3.9	3.9	4.2	4.9	4.1	4.3	3.8	3.1	2.7	3.4	3.2	2.5	2.5	3.3	3	3.1
28	3	3.1	3.9	3.2	3.5	4	2.9	3.8	3.7	4.5	5.6	5.9	5.5	5.1	5.5	5.3	4.3	4.2	3.2	3.1	2.7	2.4	2.7	2.9	3.9
29	2.8	3.7	3	3.3	2.4	2.3	1.4	1.4	1.6	1.9	2.2	2.4	2.3	2	2	1.1	2.9	2.9	1.5	1.4	1.6	2	2.2	1.5	2.2
30	1.8	1.7	1.2	1.2	1.2	0.8	0.8	1.3	1.7	1.2	0.9	1.1	2.1	2	2.4	2.5	2.7	1.5	1.1	0.6	0.2	0.1	0.1	0	1.3
31	0	0.5	0.2	0.2	0.2	0.4	0.6	1.3	1.8	3.1	3.3	3.7	3.6	3.8	3.6	3.9	3.4	3.2	1.7	1.5	1.5	1.3	1.3	1	1.9
Avg	1.3	1.4	1.3	1.3	1.2	1.2	1.3	1.8	2.2	2.4	2.6	2.7	2.8	2.9	3.1	3	3.1	2.6	2.1	1.7	1.5	1.4	1.3	1.2	2
S D	1.1	0.9	0.9	0.7	0.7	0.8	0.7	0.9	1	1	1.1	1.1	1.1	0.9	1.1	1	0.7	0.9	0.8	0.8	0.7	0.7	0.8	0.7	0.6
S/A	0.81	0.67	0.69	0.57	0.57	0.64	0.55	0.51	0.47	0.41	0.42	0.4	0.37	0.31	0.35	0.33	0.22	0.34	0.38	0.47	0.48	0.49	0.65	0.58	0.29
Min	0	0.1	0.1	0.1	0	0.3	0.1	0.1	0.7	1.1	0.9	1.1	1.5	1.6	1	1.1	1.8	0.1	0.3	0.3	0.1	0.1	0	0	1.3
Max	5.3	3.7	3.9	3.3	3.5	4	2.9	3.8	4.7	4.5	5.6	5.9	5.5	5.1	5.5	5.3	4.3	4.2	3.8	3.2	2.8	2.6	3.3	3	3.9
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 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

August 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	251	265	271	265	269	280	290	288	289	307	296	306	337	331	330	48	79	116	100	120	142	167	202	216	278
2	219	210	214	212	213	201	228	246	246	231	240	241	243	235	224	236	231	226	189	219	226	193	183	210	227
3	231	229	237	278	284	292	323	327	347	338	323	329	341	318	311	309	46	76	75	76	84	96	102	140	346
4	153	153	141	178	343	345	345	279	239	186	102	83	76	73	84	95	114	112	97	88	120	150	190	201	108
5	210	214	227	234	261	301	320	278	318	18	2	35	59	67	68	66	83	85	114	129	124	95	110	131	80
6	131	169	226	240	242	253	273	276	292	306	293	314	294	299	291	271	268	288	272	244	76	117	211	228	276
7	237	262	283	317	310	320	332	311	344	327	304	300	310	265	259	247	240	238	222	153	165	173	214	233	269
8	230	224	238	269	280	306	320	339	6	344	7	356	334	343	70	84	65	78	76	76	78	86	161	221	343
9	272	326	305	317	310	348	358	1	22	43	33	67	70	93	81	61	87	121	138	140	133	140	146	169	69
10	182	162	162	177	161	177	205	214	243	230	246	261	276	263	160	157	154	157	173	172	182	190	213	253	207
11	295	320	305	226	220	232	249	265	266	308	337	343	313	308	293	317	324	316	65	55	53	9	297	298	310
12	289	263	273	287	290	268	281	307	281	307	327	310	313	339	270	134	144	352	209	233	156	131	147	191	282
13	172	139	135	136	130	122	136	124	127	124	146	142	129	124	97	69	134	203	300	261	273	296	282	289	131
14	277	271	269	289	283	306	260	280	284	264	257	201	194	179	177	184	195	171	199	206	186	178	182	214	214
15	214	223	232	222	219	232	242	247	255	179	126	165	145	127	119	130	151	124	15	26	64	71	114	208	130
16	222	338	5	341	331	298	314	309	6	21	32	33	46	31	15	32	96	126	130	133	143	145	128	155	43
17	163	331	339	348	330	344	19	239	99	82	92	111	109	103	121	129	121	128	124	138	142	137	193	163	115
18	326	11	334	1	2	358	7	27	68	66	104	123	112	100	115	126	127	126	127	126	141	157	168	187	111
19	233	235	234	259	229	234	224	250	268	255	250	212	188	181	168	154	129	145	160	168	167	176	192	200	190
20	219	227	233	250	343	328	345	16	58	55	57	60	57	64	60	59	59	58	52	52	49	52	59	69	54
21	58	62	61	62	63	61	59	66	70	65	69	62	61	58	61	69	68	70	62	51	51	51	49	45	62
22	40	38	3	9	6	19	349	28	63	64	67	68	68	69	73	70	76	64	50	48	24	38	51	46	56
23	27	36	15	23	49	47	73	93	98	67	63	69	69	92	84	74	66	72	72	66	71	73	68	45	69
24	39	27	24	55	43	42	57	69	89	73	61	80	103	84	78	102	117	125	108	122	131	146	172	199	93
25	219	220	225	217	220	219	221	228	228	226	237	199	173	168	179	144	146	148	150	167	169	168	194	206	187
26	219	230	249	251	255	245	256	291	355	22	30	39	50	36	42	35	41	38	40	41	47	53	59	46	33
27	48	55	52	55	59	65	68	71	75	74	75	75	77	77	82	93	90	77	90	89	84	88	106	106	79
28	108	100	101	99	99	108	109	103	106	108	110	110	111	108	103	110	115	108	114	106	107	97	94	95	106
29	98	109	101	102	89	93	115	203	181	195	169	202	213	203	202	190	135	146	194	189	195	216	221	230	159
30	246	220	215	208	227	224	238	237	250	262	242	62	95	87	96	89	48	59	127	168	48	282	281	0	151
31	329	309	299	241	319	13	33	35	41	47	53	59	41	44	46	40	35	49	41	40	46	34	15	25	42
Avg	211	227	253	262	302	321	318	317	22	43	52	70	80	79	96	98	104	107	103	103	109	118	134	170	93
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 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

August 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	3.8	4.6	4.5	4	3.5	3.9	3.2	3.1	2.8	2.7	3.7	3.5	3.1	3.8	2.6	3	3.9	3.4	3.2	2.4	2.4	2	1.7	2.2	3.2
2	1.8	1.9	1.8	2.4	1.8	2.6	2.8	3.8	3.6	4.2	4.7	6.4	6.9	6	7.9	6.7	6.8	6.1	4.2	3.9	3	2	1.9	2.1	4
3	3.1	4.7	2.1	2.3	2.4	2.3	2.9	2.3	3.1	4	3.6	4.5	4.1	4.9	4.7	3.6	4.4	4.1	4	4.1	3.1	2.7	2.4	1.5	3.4
4	1.3	0.8	0.3	0.4	0.8	0.4	0.4	1.1	1.8	2.5	2.7	3.6	3.7	4.1	4.1	5	5.6	4.7	4	2.6	2	2.5	2.4	2.4	2.5
5	1.9	2.7	2.6	2.4	2	1.8	2.4	2.4	1.8	2.2	3.2	3.4	4.6	4.5	5	5	4.5	3.5	4	3	2.2	1.6	2	1.7	2.9
6	1.8	0.8	1.2	4	3	3.3	5.1	4.9	5.9	5.2	5	4.5	3.8	4.6	4	4.6	4.7	3.7	2.4	1.3	0.9	0.6	0.8	1.8	3.3
7	2.5	3.4	2.9	3	2.3	2.7	1.9	1.8	2.5	2.6	2.4	3.1	3.1	5.5	5	4	3.7	2.5	1.1	0.8	1.5	2.1	1.6	3.8	2.7
8	8.6	6.3	5.3	4.1	3.7	3.8	3.3	3.3	4.3	4	4.1	4.1	3.7	3.9	3.1	3	5.4	3.9	3.7	3.2	2.3	1.1	0.5	0.5	3.7
9	0.8	1.6	1.2	1.2	2	2.1	3	4	3.5	3.7	3.9	4.2	4.5	4.2	4.7	4.7	5.7	4.9	4.2	1.3	2.7	2	1.7	1.7	3.1
10	2.6	1.9	1.6	1.7	1.1	1.4	2.3	4.7	6.3	6.3	5.9	7.4	7.2	6	3.8	5	6.8	6.8	4.6	3.6	4.3	4.5	5.3	2.8	4.3
11	1.2	2.3	1.9	1.4	2	1.8	2.1	4.1	4.3	4.8	4.8	4.6	3.6	4.7	4.6	4	3.9	3.2	3.6	3.4	2.4	1.1	1.1	1.7	3
12	1.3	1.8	1.6	2.3	2.3	2.5	3.2	3.7	3.3	4.9	4.4	4.3	4.3	3.3	2.3	3.8	3.3	1.8	1.6	1	1	2.2	2.3	1.7	2.7
13	1.2	0.9	1.3	1.7	1.4	1.7	2	2.9	4.2	5.5	5.1	4.8	6	3.9	4	3.2	4	0.5	0.7	1	0.5	1.5	3	3.1	2.7
14	2.9	2.2	2.5	2.1	2.2	1.2	1.4	1.9	3.4	3.6	3.9	3.8	3.6	4.9	5.9	5.8	5.3	4.4	2.7	2.4	2.2	3.7	3.4	2.4	3.2
15	1.9	1.3	1.4	1.8	0.7	0.7	1.2	2.3	2.4	2.6	3.1	3.9	5.3	3.9	7	7.2	6	4.5	6.7	5.1	4.6	3.5	1.4	1.5	3.3
16	1.4	2.7	3.4	2.5	1.5	1.1	1.7	2.4	3.1	4	4	3.5	3.1	3.4	3.7	3.4	3.3	3.8	2.8	2.1	1.5	1.3	1	1.4	2.6
17	0.2	0.6	0.7	0.5	0.2	0.6	0.6	0.5	1.7	2.3	2.9	3.9	4.7	4.9	5.8	5.6	4.7	4.8	3.5	2.5	1.5	1.3	0.3	0.2	2.3
18	0.1	0.2	1	1.2	1.4	1.4	1.6	1.7	2.1	2.7	3.6	4.6	4.8	5.3	5.8	5.9	5.5	4.9	4.3	3.2	2.1	1.8	1.7	0.6	2.8
19	0.7	1.8	1.1	1.5	1.4	1.8	1.7	3.2	3.9	3.5	3.8	3.3	4.4	4.4	6.1	5.7	6.2	5.2	3.8	3.2	3	2.8	2.4	1.9	3.2
20	1	1.5	1.3	1.3	3.2	0.8	0.8	3.9	6.1	5.5	6.3	6.8	7.3	7.7	8.1	7.9	7.1	6.3	3.9	3.1	2.5	2.3	3.4	3.5	4.2
21	3	2.7	2.9	3.5	3.2	3.5	3.8	4.7	7.1	6.9	7	7	6.4	6.3	6.6	6.3	5.7	5.5	4.6	3.4	2.7	2.7	2.7	2.5	4.6
22	2.3	2.2	2.2	2.1	1.9	2.4	2.1	2.7	5.4	6.2	6.7	6.7	6.9	6.6	6.2	6.7	5.6	4.8	3.5	1.9	2.1	2.8	2.4	2.4	4
23	1.7	1.8	1.9	1.9	1.9	2.3	3.4	5.6	4.3	6.1	6.2	6.2	5.4	5	6	6.3	5.7	5.5	3.6	2.7	3.1	3	2.6	1.9	3.9
24	1.6	1.4	1.5	2.1	2.1	1.5	1.4	2.5	3.4	3.6	4.4	4.2	5.1	5.5	4.2	5.5	5.3	4.4	3.9	3	2.7	2.3	1.3	2	3.1
25	2.3	1.8	1.8	1.5	1.7	1.2	2	4	4.3	4.2	4.2	4.6	4.7	5.7	5.8	6.4	5.2	4.8	3.9	3.3	2.7	2.4	2	2.3	3.4
26	2	2.1	1.7	1.7	1.7	1.9	2.2	2.2	3.5	5.6	6.7	7.5	6.4	7.2	6.3	5.9	5.9	5.4	5.5	5.4	4.7	4.4	4.1	3.5	4.3
27	3.4	3.2	3.3	3.4	3.7	3.8	4.8	6.3	7.8	6.5	6.8	7.5	8.3	6.3	6.8	6.4	5.5	4.7	5.8	5.7	4.6	4.3	5.6	5.1	5.4
28	5.5	5.3	7.1	5.9	5.9	6.6	5.9	6.4	6.3	7.5	9.1	10	9	8.4	8.9	8.6	7.3	7	5.7	5.1	4.6	4.1	4.6	5	6.7
29	5.1	6.1	5	5.5	4	3.9	2.7	2.5	3.1	3.5	4.1	4.2	4.3	3.8	3.5	2.2	5	4.8	2.9	2.6	3	3.4	3.6	2.3	3.8
30	2.9	2.7	2	2.1	2	1.4	1.5	2.6	3	2.6	2	2.3	3.4	3.4	3.7	4.9	4.7	2.6	2.2	1.4	0.5	0.5	0.2	0	2.3
31	0.1	1	0.6	0.7	0.5	1.2	1.5	2.3	3.5	5.4	6	6	6.3	6.6	6.6	6.4	6.1	5.5	3.2	2.7	2.6	2.5	2.5	1.9	3.4
Avg	2.3	2.4	2.2	2.3	2.2	2.2	2.4	3.2	3.9	4.4	4.7	5	5.1	5.1	5.2	5.3	5.2	4.4	3.7	2.9	2.6	2.4	2.3	2.2	3.5
S/D	1.7	1.6	1.5	1.3	1.2	1.3	1.3	1.4	1.6	1.5	1.6	1.7	1.6	1.3	1.6	1.5	1.1	1.4	1.3	1.3	1.2	1.1	1.3	1.2	0.9
S/A	0.77	0.65	0.67	0.57	0.54	0.6	0.53	0.44	0.4	0.35	0.34	0.35	0.31	0.26	0.31	0.29	0.2	0.32	0.35	0.44	0.45	0.45	0.58	0.54	0.27
Min	0.1	0.2	0.3	0.4	0.2	0.4	0.4	0.5	1.7	2.2	2	2.3	3.1	3.3	2.3	2.2	3.3	0.5	0.7	0.8	0.5	0.5	0.2	0	2.3
Max	8.6	6.3	7.1	5.9	5.9	6.6	5.9	6.4	7.8	7.5	9.1	10	9	8.4	8.9	8.6	7.3	7	6.7	5.7	4.7	4.5	5.6	5.1	6.7
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 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

August 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	1005	1005	1005	1005	1005	1005	1006	1006	1006	1007	1007	1007	1007	1007	1006	1006	1006	1006	1006	1006	1007	1007	1007	1007	1006	
2	1007	1006	1006	1006	1006	1006	1007	1007	1007	1007	1007	1007	1006	1006	1005	1005	1004	1004	1004	1005	1006	1006	1006	1006	1007	1006
3	1006	1006	1006	1006	1006	1007	1008	1009	1009	1010	1010	1010	1010	1010	1010	1010	1010	1010	1011	1011	1012	1012	1013	1013	1009	
4	1013	1013	1013	1013	1013	1014	1014	1014	1015	1015	1015	1015	1015	1014	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1014	
5	1013	1012	1012	1012	1012	1013	1013	1013	1013	1013	1013	1013	1013	1012	1012	1012	1012	1012	1011	1011	1012	1012	1012	1011	1012	
6	1011	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1009	1009	1009	1008	1008	1008	1009	1009	1009	1009	1009	
7	1008	1008	1007	1007	1007	1008	1008	1008	1008	1008	1008	1008	1008	1007	1007	1006	1006	1006	1006	1006	1005	1005	1006	1005	1007	
8	1005	1005	1005	1004	1004	1004	1005	1006	1006	1007	1006	1006	1007	1006	1006	1006	1006	1006	1007	1007	1008	1008	1009	1009	1006	
9	1009	1009	1009	1009	1009	1010	1011	1011	1011	1012	1011	1011	1011	1010	1010	1010	1010	1010	1010	1010	1011	1011	1011	1011	1010	
10	1010	1010	1009	1009	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1009	1009	1009	1008	1008	1008	1008	1008	1009	1009	1009	
11	1008	1008	1008	1007	1008	1008	1008	1008	1008	1008	1008	1008	1008	1007	1007	1007	1007	1007	1007	1007	1008	1009	1009	1010	1008	
12	1009	1009	1009	1009	1009	1009	1010	1010	1011	1011	1011	1011	1010	1010	1009	1009	1008	1008	1008	1008	1009	1009	1010	1010	1009	
13	1009	1009	1009	1008	1008	1008	1008	1009	1008	1008	1008	1008	1008	1007	1007	1006	1006	1006	1005	1005	1006	1006	1006	1005	1007	
14	1005	1005	1006	1006	1007	1007	1008	1008	1009	1009	1009	1009	1009	1010	1010	1009	1009	1009	1010	1010	1011	1012	1012	1012	1009	
15	1012	1012	1012	1012	1012	1012	1013	1013	1014	1014	1013	1013	1013	1013	1012	1012	1012	1012	1012	1013	1014	1014	1014	1014	1013	
16	1013	1013	1013	1013	1013	1014	1014	1014	1015	1015	1015	1015	1015	1014	1014	1013	1013	1013	1014	1014	1014	1015	1015	1015	1014	
17	1015	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1016	1015	1015	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	
18	1015	1014	1014	1014	1014	1014	1015	1015	1015	1016	1015	1015	1014	1014	1014	1014	1013	1013	1013	1013	1013	1014	1014	1014	1014	
19	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1013	1013	1013	1013	1013	1013	1014	1014	1015	1015	1014	
20	1015	1015	1015	1015	1016	1016	1017	1017	1018	1018	1018	1019	1018	1019	1018	1018	1018	1018	1018	1018	1019	1019	1019	1019	1018	
21	1019	1019	1019	1019	1020	1020	1020	1021	1022	1022	1022	1022	1022	1022	1021	1021	1021	1021	1021	1021	1021	1022	1022	1022	1021	
22	1021	1021	1021	1021	1021	1021	1022	1022	1023	1023	1023	1023	1023	1023	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	
23	1022	1021	1021	1021	1021	1021	1022	1022	1022	1022	1022	1021	1021	1020	1020	1019	1019	1019	1019	1019	1019	1019	1018	1018	1020	
24	1018	1017	1017	1017	1016	1016	1017	1017	1017	1017	1017	1016	1016	1016	1015	1014	1014	1014	1013	1014	1014	1014	1014	1014	1016	
25	1013	1013	1012	1012	1012	1012	1013	1013	1013	1013	1013	1012	1012	1011	1011	1010	1010	1010	1010	1010	1011	1011	1011	1011	1012	
26	1011	1011	1011	1011	1011	1012	1012	1013	1013	1013	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1013	
27	1014	1014	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1013	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1013	
28	1012	1011	1011	1011	1011	1010	1011	1011	1011	1011	1011	1011	1011	1010	1010	1010	1010	1010	1010	1010	1010	1010	1011	1011	1011	
29	1010	1010	1010	1010	1010	1010	1011	1011	1011	1011	1011	1012	1012	1011	1011	1010	1010	1010	1010	1011	1011	1012	1012	1013	1011	
30	1013	1013	1013	1013	1013	1014	1014	1015	1015	1016	1016	1015	1015	1014	1014	1014	1014	1014	1015	1015	1016	1016	1016	1016	1015	
31	1016	1016	1016	1016	1016	1016	1017	1018	1018	1019	1019	1019	1019	1019	1018	1018	1018	1017	1017	1018	1019	1019	1019	1019	1018	
Avg	1012	1012	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013	1013	1012	1012	1012	1012	1012	1012	1012	1012	1013	1013	1013	1012	
SD	4	4	4	4	4	4	4	4	4	5	5	5	5	4	4	5	5	5	4	4	4	4	4	4		
StA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		
Min	1005	1005	1005	1004	1004	1004	1005	1006	1006	1007	1006	1006	1006	1006	1005	1005	1004	1004	1004	1005	1005	1006	1005	1005	1006	
Max	1022	1021	1021	1021	1021	1021	1022	1022	1023	1023	1023	1023	1023	1023	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928	

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 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

August 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	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.2	13.1	13	13	13	13	13	13	13	13	13	12.8	12.8	12.8	12.7	12.7	12.7	12.8
2	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.1	13.1	13	13	13	13	13	13	13	13	12.9	12.8	12.8	12.8	12.7	12.7	12.7	12.8
3	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.2	13.1	13	13	13	13	13	13	13	13	13	12.8	12.8	12.7	12.7	12.7	12.7	12.8
4	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.1	13	13	13	13	13	13	13	13	12.9	12.8	12.8	12.8	12.7	12.7	12.7	12.8
5	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.2	13.1	13	13	12.9	12.9	13	13	13	13	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.8
6	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.2	13.1	13.1	13	13	13	13	13	13	13	12.9	12.8	12.8	12.8	12.7	12.7	12.7	12.9
7	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.1	13.1	13	13	13	13	13	13	13.1	13.1	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9
8	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13	13.2	13.1	13.1	13.1	13	13	13	13.1	13.1	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9
9	12.7	12.7	12.7	12.6	12.6	12.6	13	13.2	13.2	13.1	13	13	13	13.1	13.1	13.1	13.1	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9
10	12.7	12.7	12.7	12.7	12.7	12.7	13	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9
11	12.7	12.7	12.7	12.7	12.7	12.7	13	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9
12	12.7	12.7	12.7	12.7	12.6	12.6	13.1	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13	13.1	13.1	13	12.9	12.8	12.8	12.8	12.8	12.7	12.9
13	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	12.9	12.9	12.8	12.8	12.8	12.8	12.8	12.7	12.9
14	12.7	12.7	12.7	12.7	12.7	12.6	13.1	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.8	12.8	12.8	12.8	12.7	12.9
15	12.7	12.7	12.7	12.7	12.7	12.6	13	13.3	13.2	13.1	13	13	13	13	13	13.1	13.1	13	12.9	12.8	12.8	12.7	12.7	12.7	12.9
16	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.3	13.2	13.1	13.1	13	13	13.1	13.1	13.1	13	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9
17	12.7	12.7	12.7	12.6	12.6	12.6	13	13.3	13.2	13.1	13.1	13	13	13.1	13.1	13.1	13.1	13.2	12.9	12.8	12.8	12.8	12.8	12.7	12.9
18	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13.3	13.1	13.1	13	13	13	13	13	13.1	13.1	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9
19	12.7	12.7	12.7	12.6	12.6	12.6	13	13.3	13.2	13.1	13	13	13	13	13	13	13.1	13	12.8	12.8	12.8	12.7	12.7	12.7	12.9
20	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.2	13.2	13.1	13.1	13	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.8	12.8	12.8	12.7	12.7	12.9
21	12.7	12.7	12.7	12.7	12.7	12.6	13	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9
22	12.7	12.7	12.7	12.7	12.6	12.6	13	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.8	12.8	12.8	12.8	12.7	12.9
23	12.7	12.7	12.7	12.7	12.7	12.6	12.9	13.2	13.2	13.1	13.1	13.1	13.2	13.2	13.2	13.2	13.2	13	12.9	12.8	12.8	12.8	12.8	12.8	12.9
24	12.7	12.7	12.7	12.7	12.7	12.7	13	13.2	13.1	13.1	13	13	13.1	13.1	13.1	13.1	13.1	13.2	13.1	12.9	12.8	12.8	12.8	12.7	12.9
25	12.7	12.7	12.7	12.7	12.7	12.7	13	13.2	13.2	13.1	13	13	13	13	13	13	13.1	13	12.8	12.8	12.8	12.8	12.7	12.7	12.9
26	12.7	12.7	12.7	12.7	12.7	12.6	12.8	13.1	13.2	13.2	13.2	13.1	13.1	13.2	13.2	13.1	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.9
27	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.1	13.2	13.2	13.2	13.2	13.1	13.2	13.1	12.9	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.9
28	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.7	12.9	13.1	13.2	13.2	13.2	13.1	13.2	13.2	13.1	12.9	12.9	12.8	12.8	12.8	12.8	12.7	12.9
29	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.2	13.1	13	13	13	13	13	13	13	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.8
30	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.2	13.1	13.1	13	13	13	13	13	13.1	13	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.8
31	12.7	12.6	12.6	12.6	12.6	12.6	13	13.2	13.1	13.1	13	13	13	13.1	13.1	13.1	13.1	13	12.8	12.8	12.8	12.7	12.7	12.7	12.9
Avg	12.7	12.7	12.7	12.7	12.6	12.6	12.9	13.2	13.1	13.1	13.1	13	13.1	13.1	13.1	13.1	13.1	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9
S D	0	0	0	0	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0.01	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0	0	0	0	0	0
Min	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.7	12.9	13	13	12.9	12.9	13	13	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.8
Max	12.7	12.7	12.7	12.7	12.7	12.7	13.1	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	12.9	12.8	12.8	12.8	12.8	12.8	12.9
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8928 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.