

**June 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	3	52	223	399 ?	?	?	?	?	706 ?	723 ?	248	394	140 ?	58 ?	22	0	0	0	0	0	2969 ?	
2	0	0	0	0	2	58	236	397 ?	?	?	?	?	?	565 ?	778 ?	640	494	229	72	3	0	0	0	0	3473 ?	
3	0	0	0	0	7	76	245	359 ?	?	?	770 ?	914 ?	872 ?	840 ?	781	497	315	189	57	4	0	0	0	0	5925 ?	
4	0	0	0	0	1	25	97	279	266	562	732	804 ?	860 ?	820	773	639	442	191	87	7	0	0	0	0	6586	
5	0	0	0	0	2	42	191	400	548 ?	665 ?	801	?	?	779 ?	793	632	437	235	68	8	0	0	0	0	5601 ?	
6	0	0	0	0	1	13	44	104	199	379 ?	?	?	?	?	?	188 ?	112	150	60	7	0	0	0	0	1257 ?	
7	0	0	0	0	4	48	?	?	?	?	?	?	396 ?	264 ?	?	208 ?	236 ?	?	39	8	0	0	0	0	1203 ?	
8	0	0	0	0	7	87	180 ?	?	?	?	?	?	?	?	304 ?	?	301 ?	168 ?	85	9	0	0	0	0	1141 ?	
9	0	0	0	0	2	56	135 ?	?	?	?	?	?	?	?	?	?	?	?	47 ?	4	0	0	0	0	245 ?	
10	0	0	0	0	6	60	?	?	321 ?	?	?	?	416 ?	300 ?	127	244	99	144	53	10	0	0	0	0	1780 ?	
11	0	0	0	0	0	27	160	?	?	?	?	?	?	?	?	?	?	200	59	7	0	0	0	0	454 ?	
12	0	0	0	0	5	57	132 ?	?	?	?	?	?	?	?	?	?	?	?	58	6	0	0	0	0	259 ?	
13	0	0	0	0	7	58 ?	?	?	?	?	?	?	?	?	?	?	?	?	51 ?	6	0	0	0	0	122 ?	
14	0	0	0	0	4	49	?	?	?	?	?	?	?	?	?	437 ?	369 ?	161 ?	63	2	0	0	0	0	1084 ?	
15	0	0	0	0	1	17	60	116	157	297	259	344 ?	610	511 ?	284 ?	229	246 ?	156 ?	70	11	0	0	0	0	3367 ?	
16	0	0	0	0	5	54	151	?	?	?	?	?	379	280 ?	208 ?	209 ?	?	?	67	8	0	0	0	0	1361 ?	
17	0	0	0	0	4	44 ?	?	?	?	?	?	646 ?	575 ?	390 ?	299 ?	250 ?	144 ?	144 ?	44 ?	10	0	0	0	0	2551 ?	
18	0	0	0	0	4	50 ?	?	?	?	?	?	?	?	?	?	217 ?	181 ?	?	64	13	0	0	0	0	530 ?	
19	0	0	0	0	4	44 ?	?	?	?	?	?	?	?	396 ?	262	223	287 ?	139 ?	50	11	0	0	0	0	1416 ?	
20	0	0	0	0	0	11	87 ?	?	?	?	?	?	?	?	430	375	203	80	24	3	0	0	0	0	1213 ?	
21	0	0	0	0	3	33	143	236	429	458	463	359	135 ?	179	218	177	295 ?	167 ?	52	8	0	0	0	0	3355 ?	
22	0	0	0	0	4	50	?	?	?	?	?	?	?	?	553 ?	?	206	36	13	3	0	0	0	0	864 ?	
23	0	0	0	0	2	17	80	246	245 ?	406	449	508	401	202	194	289 ?	294 ?	165	85	11	0	0	0	0	3595 ?	
24	0	0	0	0	2	47	?	?	?	838 ?	919	968	946	901	540	325	407	257	89	7	0	0	0	0	6246 ?	
25	0	0	0	0	6	58	250	390	611	762	902	958	788	675	623	552	394	224	82	17	0	0	0	0	7293	
26	0	0	0	0	4	55	221	297	543	732	846	892	945	902	805	474	354	227	96	9	0	0	0	0	7402	
27	0	0	0	0	1	50	199	391	581	773	869	937	943	887	508	599	296	100	33	7	0	0	0	0	7174	
28	0	0	0	0	3	51	210	399	598	770	896	944	969	897	743	677	475	244	65	10	0	0	0	0	7950	
29	0	0	0	0	4	62	225	302	234	728	933	868	956	682	727	615	386	254	70	9	0	0	0	0	7053	
30	0	0	0	0	4	43	194	386	415	604	609	456	334	300 ?	629	675	479	233	43	26 ?	0	0	0	0	5430	
Avg	0	0	0	0	3	46	165	313	396	614	727	738	661	575	492	407	304	173	59	8	0	0	0	0	3297 ?	
S D	0	0	0	0	2	18	63	101	167	177	216	241	273	265	239	183	119	61	21	5	0	0	0	0	2646	
S/A	0	0	0	0	0.54	0.38	0.38	0.32	0.42	0.29	0.3	0.33	0.41	0.46	0.49	0.45	0.39	0.35	0.35	0.59	0	0	0	0	0	0.8
Min	0	0	0	0	0	11	44	104	157	297	259	344	135	179	127	177	99	36	13	0	0	0	0	0	122	
Max	0	0	0	0	7	87	250	400	611	838	933	968	969	902	805	677	494	257	96	26	0	0	0	0	7950	
n	0	0	0	0	82	341	216	160	132	137	145	125	150	172	216	237	229	239	340	111	0	0	0	0	3045	

Daylight Data Recovery: 0.0% missing; 0.0% untested; 41.8% exceed the 15% QC threshold -- 5234 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.

**June 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	82	321	444 ?	?	?	?	339 ?	304 ?	348	36 ?	123	2	0	1	0	0	0	0	0	1999 ?
2	0	0	0	0	0	111	387	489 ?	488 ?	?	?	?	345 ?	289 ?	643 ?	552	526	418	257	0	0	0	0	0	4505 ?
3	0	0	0	0	9	178	410	430 ?	?	?	235 ?	360 ?	380	383	405	210	78	73	12	0	0	0	0	0	3163 ?
4	0	0	0	0	0	1	1	54	27	120	211	345 ?	442	428	469	476	430	171	63	0	0	0	0	0	3237
5	0	0	0	0	0	52	192	343	448 ?	366 ?	254	?	647 ?	421 ?	522	521	481	354	155	0	0	0	0	0	4758 ?
6	0	0	0	0	0	0	0	1	2	9 ?	?	?	?	?	?	7 ?	1	14	5	0	0	0	0	0	38 ?
7	0	0	0	0	0	8	?	?	?	?	?	?	9 ?	5 ?	?	0 ?	6 ?	?	6	0	0	0	0	0	35 ?
8	0	0	0	0	0	12	21 ?	?	?	?	?	?	?	?	5 ?	?	16 ?	23 ?	12	0	0	0	0	0	90 ?
9	0	0	0	0	0	10	19 ?	?	?	?	?	?	?	?	?	?	?	?	19 ?	0	0	0	0	0	47 ?
10	0	0	0	0	0	10	?	?	16 ?	?	?	?	3 ?	4 ?	0	6	3	5	1	0	0	0	0	0	49 ?
11	0	0	0	0	0	1	17	19 ?	?	?	?	?	?	?	?	?	?	19	4	0	0	0	0	0	61 ?
12	0	0	0	0	0	4	10 ?	?	?	?	?	?	?	?	?	?	?	?	1	0	0	0	0	0	15 ?
13	0	0	0	0	1	9 ?	?	?	?	?	?	?	?	?	?	?	?	?	3 ?	0	0	0	0	0	13 ?
14	0	0	0	0	0	5	?	?	?	?	?	?	?	?	?	3 ?	3 ?	3 ?	1	0	0	0	0	0	14 ?
15	0	0	0	0	0	0	0	2	3	3	2	5 ?	9	6 ?	1 ?	2	4 ?	2	0	0	0	0	0	0	41
16	0	0	0	0	0	2	8	?	?	?	?	?	2	4 ?	0 ?	0 ?	?	?	1	0	0	0	0	0	17 ?
17	0	0	0	0	0	2 ?	?	?	?	?	?	8 ?	9 ?	5 ?	4 ?	2 ?	0 ?	1 ?	1 ?	0	0	0	0	0	31 ?
18	0	0	0	0	0	4 ?	?	?	?	?	?	?	?	?	?	1 ?	2 ?	?	2	0	0	0	0	0	8 ?
19	0	0	0	0	0	4 ?	?	?	?	?	?	?	?	1 ?	0	1	4 ?	2 ?	0	0	0	0	0	0	11 ?
20	0	0	0	0	0	0	3 ?	?	?	?	?	?	?	?	1	1	0	0	0	0	0	0	0	0	6 ?
21	0	0	0	0	0	1	6	6	10	6	4	2	0 ?	1	0	1	5 ?	3 ?	0	0	0	0	0	0	44 ?
22	0	0	0	0	0	3	?	?	?	?	?	?	?	?	2 ?	?	1	0	0	0	0	0	0	0	6 ?
23	0	0	0	0	0	0	1	5	2 ?	4	4	6	3	1	1	2 ?	4 ?	1	1	0	0	0	0	0	35 ?
24	0	0	0	0	0	3	?	?	?	771 ?	794	723	639	671	294	122	405	453	284	3	0	0	0	0	5163 ?
25	0	0	0	0	4	189	409	420	607	619	630	614	413	281	308	350	271	204	78	2	0	0	0	0	5398
26	0	0	0	0	1	63	260	179	372	448	468	502	632	627	542	260	263	212	220	3	0	0	0	0	5054
27	0	0	0	0	0	111	330	495	544	563	596	615	604	563	201	443	104	25	7	0	0	0	0	0	5202
28	0	0	0	0	0	107	367	529	642	706	747	730	708	661	595	687	616	416	121	4	0	0	0	0	7636
29	0	0	0	0	0	127	377	145	4	551	757	483	524	194	336	480	298	221	41	0	0	0	0	0	4539
30	0	0	0	0	1	38	302	398	185	197	120	32	60	56	407	666	554	382	18	4	0	0	0	0	3419
Avg	0	0	0	0	1	38	164	248	239	336	371	340	302	247	217	205	163	125	44	1	0	0	0	0	1821 ?
S/D	0	0	0	0	2	56	174	212	261	292	306	283	275	252	237	247	217	164	81	1	0	0	0	0	2399
S/A	0	0	0	0	3.13	1.49	1.06	0.86	1.09	0.87	0.82	0.83	0.91	1.02	1.09	1.21	1.33	1.31	1.84	2.35	0	0	0	0	1.32
Min	0	0	0	0	0	0	0	1	2	3	2	2	0	1	0	0	0	0	0	0	0	0	0	0	6
Max	0	0	0	0	9	189	410	529	642	771	794	730	708	671	643	687	616	453	284	4	0	0	0	0	7636
n	0	0	0	0	82	344	218	166	138	138	146	137	167	183	216	239	233	244	343	112	0	0	0	0	3120

Daylight Data Recovery: 0.0% missing; 0.0% untested; 40.4% exceed the 15% QC threshold -- 5234 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**

**June 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	3	36	92	113 ?	?	?	?	247 ?	302 ?	315	216	281	139 ?	58 ?	22	0	0	0	0	0	1825 ?
2	0	0	0	0	2	37	76	99 ?	130 ?	?	?	?	217 ?	231 ?	145 ?	163	171	80	34	3	0	0	0	0	1386 ?
3	0	0	0	0	7 ?	34	72	96 ?	?	?	438 ?	371 ?	369	354	331	298	262	162	55	4	0	0	0	0	2854 ?
4	0	0	0	0	1	25	97	244	238	418	444	348 ?	298	312	276	223	174	120	77	7	0	0	0	0	3302
5	0	0	0	0	2	33	106	151	179 ?	277 ?	436	?	170 ?	248 ?	240	193	146	106	45	8	0	0	0	0	2339 ?
6	0	0	0	0	2 ?	13	44	104	199	377 ?	?	?	?	?	?	161 ?	111	114	52	7	0	0	0	0	1183 ?
7	0	0	0	0	5 ?	39	?	?	?	?	?	?	300 ?	216 ?	?	203 ?	195 ?	?	30	8	0	0	0	0	995 ?
8	0	0	0	0	9 ?	71	144 ?	?	?	?	?	?	?	?	253 ?	?	220 ?	121 ?	70	9	0	0	0	0	896 ?
9	0	0	0	0	2	42	87 ?	?	?	?	?	?	?	?	?	?	?	?	34 ?	4	0	0	0	0	170 ?
10	0	0	0	0	7 ?	43	?	?	228 ?	?	?	?	353 ?	270 ?	127	224	96	141	53	10	0	0	0	0	1552 ?
11	0	0	0	0	0	25	115	160 ?	?	?	?	?	?	?	?	?	?	144	54	7	0	0	0	0	506 ?
12	0	0	0	0	6 ?	46	95 ?	?	?	?	?	?	?	?	?	?	?	?	44	6	0	0	0	0	198 ?
13	0	0	0	0	7 ?	27 ?	?	?	?	?	?	?	?	?	?	?	?	?	27 ?	6	0	0	0	0	67 ?
14	0	0	0	0	5 ?	38	?	?	?	?	?	?	?	?	?	345 ?	294 ?	115 ?	51	2	0	0	0	0	851 ?
15	0	0	0	0	1 ?	17	60	116	157	297	259	355 ?	515	429 ?	264 ?	229	204 ?	133	63	11	0	0	0	0	3109 ?
16	0	0	0	0	6 ?	50	126	?	?	?	?	?	312	257 ?	208 ?	229 ?	?	?	56	8	0	0	0	0	1251 ?
17	0	0	0	0	5 ?	35 ?	?	?	?	?	?	506 ?	419 ?	317 ?	236 ?	193 ?	140 ?	118 ?	32 ?	10	0	0	0	0	2011 ?
18	0	0	0	0	6 ?	32 ?	?	?	?	?	?	?	?	?	?	182 ?	136 ?	?	46	13	0	0	0	0	415 ?
19	0	0	0	0	3	28 ?	?	?	?	?	?	?	?	330 ?	251	214	248 ?	121 ?	47	11	0	0	0	0	1254 ?
20	0	0	0	0	0	11	77 ?	?	?	?	?	?	?	?	387	330	201	80	24	3	0	0	0	0	1111 ?
21	0	0	0	0	2 ?	33	128	208	392	425	438	328	114 ?	179	217	177	273 ?	125 ?	51	8	0	0	0	0	3099 ?
22	0	0	0	0	5 ?	41	?	?	?	?	?	?	?	?	430 ?	?	180	36	12	3	0	0	0	0	707 ?
23	0	0	0	0	3 ?	17	80	227	243 ?	374	409	481	381	197	193	257 ?	252 ?	159	77	11	0	0	0	0	3362 ?
24	0	0	0	0	2	30	?	?	?	124 ?	131	208	266	213	280	237	192	101	48	7	0	0	0	0	1841 ?
25	0	0	0	0	5	37	130	180	183	222	274	316	349	384	346	287	243	155	71	17	0	0	0	0	3200
26	0	0	0	0	3	47	144	211	280	344	375	358	273	268	318	281	216	160	65	9	0	0	0	0	3352
27	0	0	0	0	1	37	102	150	209	297	289	298	305	320	324	273	223	80	29	7	0	0	0	0	2943
28	0	0	0	0	3	38	103	134	144	142	131	136	162	185	192	163	139	104	52	10	0	0	0	0	1838
29	0	0	0	0	5 ?	48	111	217	207	208	166	275	295	384	363	243	217	180	64	9	0	0	0	0	2993
30	0	0	0	0	4 ?	39	97	175	256	376	410	374	236	163	259	177	174	97	41	23 ?	0	0	0	0	2903
Avg	0	0	0	0	4	35	99	161	218	299	323	329	297	279	266	232	194	117	48	8	0	0	0	0	1784 ?
S D	0	0	0	0	2	12	26	49	66	100	122	97	94	76	77	53	52	35	17	5	0	0	0	0	1097
S/A	0	0	0	0	0.6	0.35	0.27	0.3	0.3	0.33	0.38	0.3	0.32	0.27	0.29	0.23	0.27	0.3	0.35	0.56	0	0	0	0	0.62
Min	0	0	0	0	0	11	44	96	130	124	131	136	114	163	127	161	96	36	12	0	0	0	0	0	67
Max	0	0	0	0	9	71	144	244	392	425	444	506	515	429	430	345	294	180	77	23	0	0	0	0	3362
n	0	0	0	0	65	344	218	166	138	138	146	137	167	182	222	239	231	243	344	110	0	0	0	0	3104

Daylight Data Recovery: 0.0% missing; 0.0% untested; 40.7% exceed the 15% QC threshold -- 5234 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**

**June 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	23.9	23.5	23.3	23	22.5	22.4	23.3	24.9	26.7	28.7	29.8	31.1	31.5	31.9	29	28.5	28.1	24	23.1	22.9	22.1	22.4	21.9	21	25.4
2	20.7	19.8	19.2	18.9	18.8	18.9	20.3	21.9	23.1	24.4	25.3	25.9	26.5	25.3	25.3	24.1	23.4	22.6	21.8	20.5	19.7	19.1	17.8	16.7	21.7
3	16.9	16.6	16.5	15.9	15.4	15.6	18.5	21.3	23.1	23.9	24.7	25.5	26.2	26.5	26.6	26.4	25.9	25.4	24.3	23.2	22.6	22.2	22.2	22.4	22
4	22.8	22.8	22.3	22.2	22.4	22.4	22.6	23.6	24.5	26.1	27.3	28.6	30.3	31.5	32.8	33.6	33.6	33	31.3	29.2	28	27.1	26.6	26.2	27.1
5	25.7	25.5	25.6	25.7	25.3	25	25.6	27.1	28.8	30.5	31.5	32.1	33.6	33.6	30.5	29.7	28.6	27.9	26.3	24.8	23.3	22.8	22.5	22.4	27.3
6	22.5	22.6	22.4	22.4	22.3	22.3	22.6	23	23.3	24.7	28.9	31.7	33	34.2	33.7	32.4	31.2	30.3	29.9	28.6	27.8	27.3	27.2	26.9	27.1
7	26.5	26.2	25.8	25.5	25.2	25.1	26.5	28.7	30.7	32.8	34.4	35.7	35.8	36.5	37.6	36.9	36.3	36	34.3	32.4	30.6	29.3	28.7	28.1	31.1
8	27.5	26.9	26.3	25.9	25.2	25.6	27	28.8	30.7	32.6	34.3	35.9	36.9	37.8	37.4	37.8	37.2	36.5	34.5	32.3	30.8	29.9	28.9	28.3	31.4
9	27.8	27.3	26.7	26.2	26.1	26	27.1	29	31.2	33.3	34.3	34.3	34.4	34.4	34.5	35.2	34.8	34.3	32.9	31.2	30.1	29.5	29	28.2	30.7
10	27.4	26.7	26.2	25.9	25.7	25.8	26.7	28.4	30.3	32.4	34.1	35.9	36	35.4	33.9	31	31.1	31.2	31	30.1	29.3	28.6	27.8	27.6	29.9
11	27.7	26.9	25.9	25.4	25.2	24.2	25.3	26.9	28.7	29.5	29.9	30	29.8	29.7	29.1	28.1	27.4	26.3	25.1	24.1	23.5	23.1	22.9	23	26.6
12	22.6	22.3	21.7	21	20.4	20.5	22.3	24.3	26.5	28.3	29.3	29.3	29.4	29.9	30	29.9	29.7	28.5	27.1	26	25.1	24.4	23.3	22.1	25.6
13	21.5	20.4	20.3	19.4	19.2	20.2	22.8	24.8	26.8	28.2	28.4	28.5	28.7	28.7	28.5	28.6	28.2	27.6	26.6	25.2	23.9	23.3	22.8	22.4	24.8
14	21.6	20.7	19.7	19.8	19.6	19.6	21.7	24.1	25.9	27.5	28.9	29.8	30.5	31.2	30.9	29.6	29.7	29.1	28	26.9	26	25.5	25.1	24.3	25.7
15	23.6	23.4	23.5	23.3	23.2	22.6	21.7	22	22.7	23.4	23.7	24.3	26.1	27.2	27.9	28.4	28.9	29.1	28	26.4	25.2	24.2	23.3	23.3	24.8
16	23.4	23.1	22.7	22.5	21.9	21.7	22.7	24	26.9	29	29.8	30.7	31.1	32.2	31.8	29.5	29.6	28	26.5	26.5	26.7	26.1	25.6	25.2	26.6
17	24.6	22.7	18.9	19.2	19.3	19.7	20.8	23.1	24.5	25.8	27.3	27.7	28.7	29.7	29.9	29.6	29.6	29.4	27.7	24.9	23.9	23.3	22.6	22	24.8
18	21.2	20.6	19.2	18.5	18.1	18.1	19.7	21.7	23.2	24.4	25.2	26.2	26.4	26.9	27.4	27.6	27.6	24.6	23.3	22.4	21.8	21.1	20.5	20.1	22.7
19	19.6	19.3	18.5	18	17.7	17.4	19.4	21.8	23.4	24.6	25.6	27	27.4	27.9	25.5	24.1	24.4	24.2	23.3	22.9	22.7	22.6	22.6	22.7	22.6
20	22.3	22.1	20.9	20.7	20.2	18.5	19.4	21.4	23.1	24.7	26.7	28	28.9	29.4	28.9	26.8	25.9	24.8	24.2	23.5	23	22.4	21.8	21.4	23.7
21	21	20.9	20.5	20.2	19.9	19.8	21.2	23	24.7	25.8	26.6	26.7	21.4	21.5	21.7	22.2	23.6	24.8	23.9	22.9	22.5	22.3	21.7	21.1	22.5
22	20.7	20.6	20.5	20.2	20	20.2	21.1	22.6	23.7	25.6	26.8	28.5	29	29.3	28.1	27.8	26.1	24.9	24.9	25.1	24.8	24.7	24.6	24.4	24.3
23	24	23.8	23.5	23	22.9	23	23.4	24.7	25.4	26.4	26.9	27.2	27.7	25.8	24.4	24.2	24.8	24.7	24.9	24.5	24.1	23.8	23.5	22.9	24.6
24	22	21.7	21.5	20.1	20.1	19.6	20.7	22.8	25	26.4	27.8	28.7	29.2	29.4	27.1	26.9	27.3	27.1	25.4	24.2	23.6	23	22.7	22.3	24.4
25	22.3	22.3	21.8	21.6	21.4	21.9	23.8	25.6	26.8	27.7	28.5	29.7	30.7	31.4	32.1	31.8	30.9	30.2	29.2	28.1	27.2	26.7	26.4	25.8	26.8
26	25.3	24.6	24	23.5	23.2	23.4	24.9	26.1	27.5	28.9	30.2	31.6	32.7	33.6	34.4	34.4	34.4	34.1	33.6	30.2	28.9	28	27.5	27.2	28.8
27	26.7	26.3	25.6	24.9	24.4	24.3	25.2	26.6	28.1	29.6	31	32.3	32.6	33.4	33.5	34.1	34	32	29	28.4	27.3	26.8	26.5	25.9	28.7
28	25.2	25.1	25.6	25.5	24.9	24.6	25.6	26.5	28.1	29.7	31.1	32.3	33.2	34	34.5	35.1	35.3	34.8	32.3	30.7	29.6	28.5	27.9	27.5	29.5
29	27	26.4	25.9	25.6	25.3	25.5	26.3	26.8	25.8	27.1	29.4	30.8	31.6	32.3	32.6	33.2	33	32.5	30.4	27.9	26.3	25.8	25.1	23.5	28.2
30	22.5	22.3	22.1	22.6	23.1	23.7	24.1	25	25.7	26.9	27.6	28.1	27.8	27.6	25.8	28	28.5	28.4	25	22.3	22.7	23	22.3	22.2	24.9
Avg	23.6	23.1	22.6	22.2	22	21.9	23.1	24.7	26.2	27.6	28.8	29.8	30.2	30.6	30.2	29.9	29.6	28.9	27.6	26.3	25.4	24.9	24.4	23.9	26.1
S D	2.7	2.7	2.8	2.8	2.8	2.8	2.5	2.4	2.6	2.8	2.9	3.1	3.4	3.6	3.9	4	3.8	3.9	3.6	3.2	3	2.8	2.8	2.8	2.7
S/A	0.12	0.12	0.12	0.13	0.13	0.13	0.11	0.1	0.1	0.1	0.1	0.1	0.11	0.12	0.13	0.13	0.13	0.14	0.13	0.12	0.12	0.11	0.11	0.12	0.1
Min	16.9	16.6	16.5	15.9	15.4	15.6	18.5	21.3	22.7	23.4	23.7	24.3	21.4	21.5	21.7	22.2	23.4	22.6	21.8	20.5	19.7	19.1	17.8	16.7	21.7
Max	27.8	27.3	26.7	26.2	26.1	26	27.1	29	31.2	33.3	34.4	35.9	36.9	37.8	37.6	37.8	37.2	36.5	34.5	32.4	30.8	29.9	29	28.3	31.4
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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**

**June 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	99.5	101	102.3	103.8	105 ?	?	103 ?	96.1	85.7	74.6	64.4	55	51.3	50.1	64.7	73.4	73.2	91.4	100.6	102.8	101.5	97.5	82.9	91.8	85.7
2	93.1	97.7	100.2	102.3	103.1	100.5	90.7	82.6	74.8	66.2	60.4	54.8	55.3	64.8	67.3	72.2	73.5	76.3	80.6	85.7	90	91.1	95.5	99.5	82.4
3	98.6	100	102.3	104	?	104.2	97	81.5	63.1	53.4	53.3	54.6	54.7	54.7	57.2	57.4	64.1	70.9	77	82.5	88.4	95	94.5	93.1	78.3
4	92.6	93.6	95.2	94.9	96.4	99.1	101.4	100.2	98.5	93.2	90	85.8	79.7	72.9	63.4	59.8	59.9	63.6	78	89.3	91.5	91.8	92.2	92.8	86.5
5	94.5	95.1	94.7	94.8	96	97.4	96.7	94	88.3	80.6	71.7	66.2	56.9	59.8	75.5	75.4	77.1	79.3	84.2	90.6	98.3	100.6	103.5	104.7 ?	86.5
6	?	?	?	?	?	?	?	?	?	103.2 ?	93.9	83	76.8	73.1	74.9	82.2	86.9	85.8	85.5	96	100.4	102.8	104.2	105 ?	90.2 ?
7	?	?	?	?	?	104.7 ?	100.3	89.5	79	70.1	62	55.7	54.7	52.8	49.8	50.8	52.1	52.1	59.6	69.9	78.3	89.8	93.4	95.7	71.6 ?
8	92.8	93.9	95.7	96.5	98.4	96.6	91.3	83.5	76.7	70.3	62.7	56.9	49.1	46.4	48.3	47	46.9	51.8	73.1	82.2	91.6	89.6	94.5	95.8	76.3
9	97.1	98.6	100.2	100.5	99.7	98.8	93.9	85.6	77.3	70.9	68.4	61.5	59.8	60.3	59.3	58.2	60.8	62.9	66.2	75.4	87.9	92.5	94.9	98.3	80.4
10	100.6	102.1	103	102.9	101.5	99.4	95.1	85.5	76.8	69.7	62	56.2	57.1	57.8	64.7	76.6	79.3	78	76.2	77.9	82.6	83.3	73.4	75.2	80.7
11	80.6	83.9	87.6	90.8	90.7	95.9	93.5	90.7	80.4	74.8	72.9	69.9	71.1	69.5	73.4	74.3	74.8	79.6	84.6	91.4	95.6	96.4	97.1	96.6	84
12	98.3	100.5	102.5	104.3 ?	?	104.2 ?	99.2	91.2	76.5	62	53.9	54.2	54.1	50.9	49.3	50.1	51.1	55.8	63.7	72.1	80.6	87.7	93.5	97.8	76.2
13	101.2	104	104.8	?	?	104 ?	101.4	92.9	77.9	65.7	65.3	64.9	64.9	64.6	62	51.2	51.1	49.5	52.8	62.7	81.9	91.4	95.4	95.7	77.5 ?
14	97.8	100.9	104.3	103.5	103.6	104.3	99.1	89.7	85.1	69.8	63.6	60.4	59.2	53.9	57.4	66.8	67.5	69.1	74.3	78.3	81.8	83.7	83.9	87.1	81
15	90.8	93.3	94.3	96.2	96.9	100.3	?	?	103.7	100.9	99.2	96.2	89.1	84.2	80.2	77.1	76	71.5	77	88.7	93.9	97.1	100.6	101.2	91.3
16	101	98.9	97.6	97.7	100.4	101.1	100.5	98.5	82.7	67.8	62.7	60.3	56.1	49.3	59.1	72.2	67.3	68.8	76.6	79.1	81.3	87.2	94.2	92.3	81.4
17	94.3	96.5	?	?	?	?	?	101.7 ?	93.7	86.3	75.5	72	70.4	62.1	59.4	58.9	56.4	53.7	69.4	87	90	76.9	74.1	74.1	76.4 ?
18	75.8	78.7	83.4	82.9	83.5	85.9	80.6	67.2	54.9	46	43.9	41.9	40.7	40.4	39.9	42.6	45.7	68	72.3	76.7	78.1	79.8	81.6	83	65.6
19	87.2	95.1	99.6	100	99.1	100.6	95.1	83	77.3	71.2	63.7	54.7	50.1	54.6	72.6	78.5	77.2	77.3	83.5	88.8	93.2	97	96.9	91.9	82.8
20	89.1	85.5	96.9	99.5	99.7	104 ?	102.4	90.5	85.4	78.8	68.4	61.5	57.8	49.8	52.6	74.9	82.4	80.3	83.8	85	84.1	85.3	89.3	95.1	82.6
21	99.4	100.5	101.1	102.2	102.5	103	100	94.8	88.6	84.6	80.8	82.3	91.8	98.1	95.4	95.6	89.2	80.6	83.7	90.3	94.9	97.8	100.6	103.2	94.2
22	104.7 ?	104.8 ?	104.4	?	?	?	?	101.4	96.9	87.9	79.9	72	72.1	66.6	80.7	73.1	84.4	88.9	95.8	96.4	98.9	100.1	100.9	101.7	90.6 ?
23	103.5	104.2	104.8 ?	?	?	?	?	101.5	95.5	88.1	85.3	81.6	80.1	89.1	95.6	97.9	96.3	95.9	97.2	99	101.3	103.5	99.1	95.5	95.7 ?
24	90.4	94.2	91.7	97.9	97.2	99.6	98.8	92.2	79.4	69.1	60	54.4	53	58.7	70.7	72.5	71.1	72.3	77.5	79.7	86	90.9	93.1	94.8	81
25	93	91.1	90	92.6	98.2	97.8	94.4	90.9	89.6	87.3	81.5	68.8	56.3	51.3	51.8	55.5	66.4	74.7	79.3	81.5	86.7	91.3	91.4	94.5	81.5
26	93.3	94.8	95.7	97.4	100.4	102.8	99.9	95	88.9	83.1	77.3	71.3	67.9	59.8	53.9	52	48.6	47.6	46.6	84	86.8	89.5	91.5	91	80
27	90.9	87.7	89.6	94.2	97.1	99.3	96.4	87.4	79.8	71.8	67.7	64.5	64.1	59.4	57.9	54.1	53.3	67.1	77.7	80.4	85.7	85.5	94.5	97.1	79.3
28	96.2	94.1	89.5	91	96.2	99.8	98.1	95.5	86.8	77.6	68.3	62.2	58.8	55.8	52.6	47.3	46.5	50.3	72.8	79.8	80.6	85.7	91.9	93.8	78
29	95.4	96.9	98.2	100	101.4	101.5	97	91.9	93.7	89.1	81.3	74.9	68	63	59	57.4	59.5	68.3	84.1	81.6	89	95.5	96.3	90.9	84.8
30	95.5	99.7	103	103.5	?	104.8 ?	102.6	93.7	84.9	81.3	80.8	79	85.2	89	97.4	82.3	78	80.4	93.1	101.8	101.7	101.1	103.2	103.4	93.3
Avg	94.5	96	97.5	98.1	98.4	100.4	97.1	91	83.5	76.5	70.7	65.9	63.5	62.1	64.9	66.2	67.2	70.4	77.6	84.6	89.4	91.9	93.3	94.4	82.5
SD	6.4	6.3	5.9	5.3	4.7	4	4.9	7.4	10.2	12.7	12.5	12.1	12.6	13.6	14.5	14.4	14.1	13.1	12	9.3	7.3	6.8	7.6	7.3	6.7
S/A	0.07	0.07	0.06	0.05	0.05	0.04	0.05	0.08	0.12	0.17	0.18	0.18	0.2	0.22	0.22	0.22	0.21	0.19	0.15	0.11	0.08	0.07	0.08	0.08	0.08
Min	75.8	78.7	83.4	82.9	83.5	85.9	80.6	67.2	54.9	46	43.9	41.9	40.7	40.4	39.9	42.6	45.7	47.6	46.6	62.7	78.1	76.9	73.4	74.1	65.6
Max	104.7	104.8	104.8	104.3	105	104.8	103	101.7	103.7	103.2	99.2	96.2	91.8	98.1	97.4	97.9	96.3	95.9	100.6	102.8	101.7	103.5	104.2	105	95.7
n	332	332	316	279	242	261	293	331	348	350	360	360	360	360	360	360	360	360	360	360	360	360	360	347	8115

Data Recovery: 0.0% missing; 0.0% untested; 6.1% failed QC -- 8640 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**

**June 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	24.3	23.8	23.5	23.2	22.7	22.4	23.2	25.7	28.7	31.6	34	35.5	36.1	36	35.5	30.9	31.1	28.5	25.4	24	23.1	22.6	22.3	21.5	27.3
2	20.7	20	19.2	18.6	18.2	18	19.5	22.5	25.5	27.7	29.9	31.2	31.4	31	30.2	30.2	29.3	28.1	26.4	23.5	20.5	18.8	17.8	16.2	23.9
3	15.2	14.8	14.7	14.4	14	13.9	16	20.9	25.2	27.9	29.2	30.2	31	31.2	31.5	31.6	30.5	28.9	27.3	25.2	23.7	22.7	22.2	22	23.5
4	22.3	22.5	22.5	22.3	22.3	22.5	22.7	23.6	25.3	27	29.1	31	32.4	33.8	35.2	36.4	37.3	36.8	35.3	32.6	30.2	28.6	27.6	27	28.6
5	26.4	25.9	25.6	25.6	25.5	25.3	25.6	27.6	30.4	33.5	36.2	37.4	38.3	39	38.2	36.4	35.2	33.8	31.6	28.4	25.6	23.9	23	22.6	30
6	22.5	22.6	22.7	22.8	22.8	22.8	22.9	23.4	24.4	26.4	31.1	36.1	38.5	39.6	40.6	39.5	36.3	33.7	32.8	31	29.2	27.9	27.3	26.9	29.3
7	26.5	26.1	25.8	25.5	25.2	25	26.3	29.2	32.6	35.9	38.6	40.2	41.1	40.6	42.2	43.5	41.8	40.5	38.6	35.3	32.4	30.4	29	28.2	33.4
8	27.5	27	26.4	25.8	25.4	25.2	26.8	29.7	33	36.3	39	41	42.2	43	43.6	43.6	43.4	42	40.1	36.8	33.2	30.9	29.6	28.7	34.2
9	27.9	27.4	26.9	26.5	26	25.9	27	29.7	33.3	37.1	39.7	40.4	40.1	39.7	39.6	40.5	41.2	40.4	38.1	34.8	31.7	30	28.9	28.2	33.4
10	27.4	26.7	26.2	25.8	25.5	25.5	26.7	29.1	31.8	35.2	38.3	40.9	42.5	41.9	40.1	36.1	34	31.8	32.1	31.3	29.9	29.1	28.5	27.9	31.8
11	27.7	27.5	26.7	25.8	25.3	24.7	24.9	27.3	30.5	32.9	34.4	35.1	35	34.7	34.7	34.3	33.3	31.7	29.3	26.6	24.7	23.6	22.8	22.6	29
12	22.4	21.9	21.5	20.8	20.1	19.8	21.2	24.6	28.5	31.9	34.3	35.2	34.7	34.1	34.7	35.3	35.2	34.2	31.5	28.3	25.9	24.2	22.9	21.3	27.7
13	20.1	19.3	19	18.5	18	18.3	20.3	24.3	28.5	32.1	34.1	34.1	33.6	33.1	33.2	33.4	33.4	32.6	31.1	28.2	25.2	23.4	22.2	21.5	26.6
14	20.9	20.1	19.3	18.6	18.3	18.2	19.9	24.3	28.2	31.1	33.4	35	35.1	35.4	35.9	35.2	33.8	33.2	31.5	29.1	27.1	25.8	25.2	24.7	27.5
15	24	23.5	23.5	23.5	23.3	23.3	22.8	22.3	22.7	23.7	25	25.8	28	30.3	31.7	31.8	32	32.8	31.8	29.4	26.4	24.5	23.1	22.5	26.1
16	22.6	23.1	23.1	22.8	22.5	22.1	22.6	24.8	29.2	33.1	35.6	36.7	36.5	36	36.9	35.8	34.3	33.3	31.2	28.5	27	26.4	25.7	25.4	29
17	25.2	24.6	22.3	20.2	19.6	19.4	20.4	23.4	27.1	29.9	32.3	33.6	34.5	35	35.3	34.6	33.9	33	32.1	28.8	25.7	24.2	23.2	22.3	27.5
18	21.6	20.5	19.4	18.1	17.3	17.2	18.9	22.4	25.6	28.6	31.1	32.1	32.4	32.3	32.3	32.5	32.7	31	28	25.1	22.8	21.2	19.8	18.7	25.1
19	18.1	17.6	17.2	16.6	16.4	16.2	18.1	22.3	25.9	28.9	31.1	32.4	32.9	33.2	32.6	29.3	27.7	28	26.4	24.6	23.3	22.6	22.3	22	24.4
20	21.8	21.7	21.4	20.8	20.5	19.6	18.9	21	24.9	28.1	30.6	32.6	33.9	34.5	34.5	32.8	30.5	28.3	26.3	24.8	23.6	22.8	22.1	21.3	25.7
21	20.5	20.2	20	19.5	19	18.8	19.5	22.3	25.4	28.4	30.1	30.8	28.6	23.4	22.8	23.3	24.2	26.5	26.9	24.8	23.2	22.4	21.7	20.8	23.5
22	20.2	19.8	19.6	19.7	19.7	19.8	21	23.8	26.5	29.5	32.7	34.2	35.2	34.8	34.3	33	31.9	28.7	26.4	25.5	25.2	24.8	24.6	24.4	26.5
23	24.1	23.9	23.6	23.2	22.8	22.8	23.1	24.4	26.3	28.7	29.8	30.4	31.2	30.7	28.6	27.1	27.6	27.5	26.8	25.9	24.8	24.2	23.7	23.2	26
24	22.8	21.9	21.6	20.8	19.9	19.4	20.7	23.8	27.4	30.2	32.5	34.1	34.4	34.5	33.5	31.8	30.8	31.2	30	27.3	24.7	23.3	22.5	21.9	26.7
25	21.4	21.3	21	20.4	19.9	20.2	22.4	26.4	29.3	31.7	33.2	34.6	35.4	35.4	35.7	36.3	35.9	34.7	32.9	30.6	28.5	27.2	26.4	25.9	28.6
26	25.4	24.8	24.1	23.5	23	22.8	24	26.5	28.6	31.2	33.5	35.1	35.9	36.5	37.4	38.2	37.7	37.2	36.5	34.2	31	29.1	28	27.5	30.5
27	27	26.4	26	25.4	24.7	24.2	25	27.2	29.8	32	34.2	35.8	36.6	36.5	36.9	36.9	37.4	36.3	33.1	30.3	28.7	27.4	26.7	26.3	30.4
28	25.7	25.1	25	25.2	25.1	24.7	25.6	27.9	30.4	32.6	34.2	35.4	36	36.5	37.3	38.1	38.7	38.5	37	33.9	31.5	29.8	28.7	28	31.3
29	27.4	26.7	26.2	25.7	25.4	25.2	26.5	28.5	28.8	28.9	31.9	34.5	35.1	35.5	35.7	36.6	36.9	36.4	34.9	31.9	28.9	27.3	26.4	24.7	30.2
30	23.6	22.8	22.3	22.2	22.4	23.1	24.1	26.2	28.1	29.5	31	31.9	32	31.3	29.3	30	32.5	32.9	31	25.5	23.1	22.8	22.6	21.9	26.8
Avg	23.4	23	22.5	22	21.7	21.5	22.6	25.2	28.1	30.7	33	34.4	35	35	35	34.5	34	33.1	31.4	28.9	26.7	25.4	24.6	23.9	28.2
S D	3.1	3.1	3.1	3.2	3.2	3.2	2.9	2.6	2.7	3.1	3.3	3.4	3.6	3.9	4.3	4.4	4.3	4.1	4.1	3.7	3.3	3.1	3	3.1	2.9
S/A	0.13	0.14	0.14	0.14	0.15	0.15	0.13	0.1	0.1	0.1	0.1	0.1	0.1	0.11	0.12	0.13	0.13	0.12	0.13	0.13	0.12	0.12	0.12	0.13	0.1
Min	15.2	14.8	14.7	14.4	14	13.9	16	20.9	22.7	23.7	25	25.8	28	23.4	22.8	23.3	24.2	26.5	25.4	23.5	20.5	18.8	17.8	16.2	23.5
Max	27.9	27.5	26.9	26.5	26	25.9	27	29.7	33.3	37.1	39.7	41	42.5	43	43.6	43.6	43.4	42	40.1	36.8	33.2	30.9	29.6	28.7	34.2
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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**

**June 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	2.9	3.4	3.6	3.3	2.4	2.5	3.3	3.3	3.2	2.9	3	2.7	3.5	3.4	3.3	1.1	1.7	2.1	0.5	1.4	1.4	2.2	1.9	1.5	2.5
2	0.3	0.3	0.2	0.6	0.9	1.5	2.5	2.7	3.9	2.6	1.9	2.7	2.3	3.5	3.6	4.1	4	2.9	2.2	1.4	1.2	1.7	0.7	0.5	2
3	0.7	0.7	0.4	0.3	0.2	0	0.7	1.5	2.4	3.3	3	2.6	2.8	3.3	3.6	3.4	4.3	3.8	3.9	3.2	3.4	2.4	2.4	3.1	2.3
4	3.5	4.1	3.7	3.8	4	4	3.3	4.1	5.2	5.7	5	5.4	4.6	4.7	5.2	4.5	4.7	3.5	3.1	3.3	3.4	3.3	3.4	4.3	4.2
5	4.1	3.8	3.6	4.4	4	3.2	3.6	4.1	3.8	2.8	3.1	2.8	1.7	2.5	4.4	4.2	3.8	3.6	3.1	3.2	3.2	2.9	2.9	3.5	3.4
6	2.9	2.1	2.3	2.4	2.1	1.5	1.1	1	0.7	0.6	0.8	1.4	1.6	1.9	3	2.6	2.6	2.8	2.3	1.8	1.5	1.3	1	1	1.8
7	0.8	1	1.2	1.3	1.6	1.8	2.2	2.7	2.7	2.6	2.9	2.5	2.1	1.7	1.6	1.3	2.3	3.3	1.5	0.7	1.1	1.1	1.4	1.3	1.8
8	1.9	1.8	1.8	1.7	2.3	2.3	2.6	2.5	2.2	2.2	2.1	1.5	2.1	1.4	0.8	1.6	2.3	2.3	0.9	0.7	0.2	0.8	1.5	1.2	1.7
9	1.2	1.8	1.9	1.8	2.1	1.8	2.5	2.2	1.9	1.9	2.5	3.5	3.2	3.7	3.1	2.2	2.2	2.5	2.4	1.4	0.9	0.7	1.3	1.1	2.1
10	1.2	1.5	1.8	2	2.2	1.6	2.3	2.6	2.4	2.5	1.8	1.1	2.2	2.3	2.1	2.4	2.9	1.7	1	1	1.5	3.1	1.8	2	1.9
11	3	3	0.9	0.7	1.2	0.8	0.7	1.7	3.4	3.7	4	4.1	4.2	4.1	4.2	4	3.5	3.6	2.7	2.4	2.6	1.6	1.3	1.2	2.6
12	0.3	0.9	0.6	0.4	0.7	1	1.5	1.7	1.9	2.4	2.8	3.4	3.8	3.3	3.3	3.3	3.2	3.5	2.8	2	1.5	1.2	0.4	0.1	1.9
13	0	0.6	0.5	0.1	0.7	0.7	1.3	2.1	2	2.3	3.2	3.8	3.7	4	4.1	3.9	3.8	3.4	3.2	1.9	1.9	1.2	1.1	1.2	2.1
14	0.7	0.6	0.5	0.4	0.5	0.2	0.8	1.7	2.6	2.5	2.3	2.3	2.7	3.2	4.1	5.1	4.3	4.2	4	2.8	2.1	1.8	2.7	2.1	2.3
15	2	1.6	1.4	1.5	2.2	3.4	1.8	1.4	1.6	2.6	2.9	2.6	2.5	2.4	2.2	1.2	1.2	1.2	0.8	0.4	0.6	0.2	0.5	1.1	1.6
16	2.3	1.9	1.2	1.3	1.3	0.9	0.7	1	1	1.7	1.9	2.5	2.1	1.8	3	4.1	4.4	4	2.9	2.4	2.5	2.4	2.7	3.1	2.2
17	1.8	3.7	2	2	0.5	0.1	1.2	1.8	2.3	2.2	2.2	2.2	1.3	1.3	2	2.6	3.3	3	2.6	2.2	2.6	3.3	3.3	2.5	2.2
18	2.2	1.5	1.1	1	1.1	1.3	1.3	2.3	2.1	1.3	1.5	1.5	2	2.1	2.3	1.9	2	3.4	3.5	2.8	2.2	1	0.7	0.9	1.8
19	0.6	0.8	0.2	1.4	0.6	0.2	0.4	0.9	1.5	1.8	1.6	1.9	2.1	1.5	3.6	3.9	3.9	3.9	3.5	3	2.9	1.8	1.9	1.3	1.9
20	2.1	1.8	0.9	0.7	1.6	0.3	0.7	1.8	2	2.5	2.1	1.8	1.9	2.3	2.8	3.7	3.2	2.9	1.9	1.7	2	1.5	1.7	1.3	1.9
21	1.5	1.3	0.7	0.3	0.2	0.3	0.2	0.6	1.6	1.9	2.4	2	2.2	1.2	2.5	2.2	2.9	3.7	2.5	1.6	1.3	0.5	0.2	0.4	1.4
22	0.2	0.5	1.2	1.2	0.8	1.2	1.7	3	2.5	1.3	1.8	1.8	2.5	3	5.1	4.8	4.3	2.6	1.6	2.2	1.7	1.9	2.2	2	2.1
23	1.6	1.2	1.6	1.1	0.8	0.8	0.8	2.2	3.6	3.6	3.7	3.8	3.2	4.2	3.8	3.6	4.7	3.6	3.2	2.4	2.4	1.9	2	3.3	2.6
24	2.6	2.2	0.8	1	1.4	1.3	1.3	1.6	2.1	1.9	1.6	2.1	2	2.4	3.8	3.4	3.5	3.5	3	2.3	2.1	2.1	1.5	1.3	2.1
25	1.7	1.2	0.6	0.6	1	0.5	1.3	2	2.3	2.9	2.8	2.9	2.9	2.7	2.8	3.4	3.7	3.5	3.4	2.5	2.3	2.3	2.7	2.6	2.3
26	2.6	1.9	1.5	1.5	1.5	1.5	3.2	3.7	3.3	3.3	3.6	3.8	3.9	4.4	4.2	4	4.1	3.1	2.7	3.7	3.3	3.2	3.6	3.4	3.1
27	2.6	3.1	2.9	2.5	2.1	2.3	3.8	3.6	4	4.1	3.5	3.7	4.9	5.2	4.9	4.1	4.1	3.4	1	1.4	1	1.1	2	1.6	3
28	1.8	2	2.6	2.8	2.1	2	2.9	3.6	3.3	4	4.6	4.9	4.5	4.6	4.5	5.3	4.9	4.2	3.4	4	3.5	3.4	3.4	3	3.5
29	2.7	2.6	2.7	2.5	2.4	3	3.4	4.6	4.3	3.7	3.4	4.3	5	4.9	5.3	4	4	4.5	4.7	6.8	5.9	5.4	4.4	2.3	4
30	1.5	1.7	1.9	1.7	2.1	2.6	2.8	3.3	3	3.6	2.9	2.4	2.3	2.9	2.5	2.7	3.2	2.3	3.4	1.8	2.1	0.8	2	0.8	2.3
Avg	1.8	1.8	1.5	1.5	1.5	1.5	1.9	2.4	2.6	2.7	2.7	2.8	2.9	3	3.4	3.3	3.4	3.2	2.6	2.3	2.1	1.9	1.9	1.8	2.4
SD	1	1	1	1.1	1	1.1	1.1	1.1	1	1	1	1.1	1	1.1	1.1	1.2	1	0.8	1	1.2	1.1	1.1	1	1.1	0.7
S/A	0.59	0.57	0.66	0.69	0.62	0.72	0.57	0.44	0.39	0.38	0.35	0.38	0.36	0.38	0.33	0.35	0.28	0.24	0.4	0.55	0.52	0.57	0.54	0.58	0.29
Min	0	0.3	0.2	0.1	0.2	0	0.2	0.6	0.7	0.6	0.8	1.1	1.3	1.2	0.8	1.1	1.2	1.2	0.5	0.4	0.2	0.2	0.2	0.1	1.4
Max	4.1	4.1	3.7	4.4	4	4	3.8	4.6	5.2	5.7	5	5.4	5	5.2	5.3	5.3	4.9	4.5	4.7	6.8	5.9	5.4	4.4	4.3	4.2
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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**

**June 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	209	226	233	233	243	229	235	256	267	278	275	278	258	259	293	286	309	215	283	225	224	18	76	161	252
2	139	325	284	296	295	313	340	2	16	22	6	345	17	69	61	92	94	85	97	76	75	81	137	197	46
3	176	205	198	228	240	229	192	162	155	137	145	161	176	162	147	130	132	157	153	156	161	173	181	180	157
4	204	205	208	205	208	214	213	213	226	230	222	228	223	225	240	230	222	215	190	190	191	192	196	202	214
5	205	208	218	233	231	233	239	259	270	293	339	357	316	6	103	88	83	73	85	88	96	94	95	100	158
6	104	88	87	97	92	88	87	84	75	55	346	22	36	66	87	145	114	109	111	102	100	116	171	173	97
7	186	199	218	223	222	227	254	266	264	274	281	275	265	275	305	238	251	244	229	220	166	180	204	212	247
8	224	224	226	230	229	235	252	251	266	251	259	297	356	336	272	251	263	270	50	58	77	195	224	221	253
9	214	228	226	224	232	237	252	267	285	342	32	64	71	94	102	80	122	139	132	112	128	148	198	210	140
10	210	226	227	225	232	237	243	255	272	250	245	254	200	351	84	62	148	169	170	173	201	233	208	223	222
11	227	234	265	108	143	269	314	22	30	32	51	59	59	61	70	69	58	57	56	51	68	59	64	50	56
12	48	11	10	331	308	322	8	10	28	64	74	89	97	89	92	84	74	76	75	81	97	67	77	101	71
13	12	331	352	345	5	15	61	61	60	79	105	102	111	106	113	104	109	108	105	135	138	140	127	142	102
14	163	215	255	195	217	224	229	230	269	234	218	219	175	173	154	134	141	151	151	166	180	184	220	215	180
15	228	222	231	222	249	269	267	287	275	262	258	266	272	265	268	331	10	25	121	141	181	177	208	224	259
16	252	262	269	264	239	234	224	228	162	144	194	193	242	253	163	125	161	176	175	173	181	183	198	217	193
17	318	346	95	145	304	194	232	238	247	273	317	309	287	313	272	294	299	307	23	70	27	27	14	13	329
18	359	347	318	329	320	315	333	352	21	40	318	334	341	259	249	296	4	94	104	116	137	148	154	166	6
19	184	213	224	299	262	116	326	15	26	14	20	15	340	48	88	77	88	94	100	116	127	136	125	155	83
20	220	241	313	347	272	237	261	261	259	268	281	310	17	30	59	77	99	194	207	212	224	219	220	221	245
21	222	223	215	181	190	305	286	230	214	222	181	179	181	219	184	163	155	152	158	152	156	182	151	123	180
22	155	219	243	232	228	230	236	258	252	255	182	149	148	164	132	144	161	173	191	164	175	183	181	188	181
23	210	221	217	214	205	223	202	208	224	221	227	221	206	131	131	160	126	136	152	182	191	199	207	242	188
24	233	222	242	289	280	281	284	317	347	2	3	326	287	123	96	92	102	102	105	95	94	104	116	141	89
25	135	132	109	89	108	119	105	88	103	94	90	156	204	223	209	165	145	161	163	166	175	186	203	212	157
26	218	218	215	215	212	210	228	235	247	241	232	229	224	221	228	238	229	233	229	198	197	203	217	223	224
27	222	230	229	228	218	220	229	230	232	238	234	214	225	222	223	215	219	201	1	202	247	176	214	256	224
28	221	211	215	219	213	206	217	230	225	227	242	245	243	232	220	224	220	219	193	196	198	198	203	205	219
29	201	200	205	201	197	198	203	206	211	205	194	214	227	223	223	206	209	181	179	203	210	215	232	254	208
30	199	192	207	218	228	225	221	249	260	248	256	247	196	177	200	177	191	186	181	155	154	166	217	169	209
Avg	212	224	222	222	229	234	239	250	257	250	244	237	221	187	156	142	147	154	141	155	163	171	191	201	191
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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**

**June 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	4.7	5.5	5.6	5.2	4	3.9	5.3	5.6	5.8	5.8	5.8	5.4	6.7	6.6	6	2.2	3.9	3.6	1.3	2.2	2.3	4.3	3.2	2.5	4.5
2	0.8	1.1	0.6	1.3	1.7	3	4.4	4.9	6.5	4.9	4.1	5.3	4.7	6	6.1	6.4	6.2	4.8	3.7	2.3	2	2.7	1.3	1.1	3.6
3	1.3	1.3	1	0.6	0.5	0.3	1.5	2.7	4.1	5.3	5.2	4.8	5.4	5.8	5.9	5.8	7	6.5	6.3	5.4	5.7	4.4	4.3	5.4	4
4	6	7.2	6.5	6.9	6.8	7	5.7	6.9	8.7	9.2	8.3	8.6	7.8	8.3	8.8	7.7	8.1	6.1	5.4	5.5	6.3	6	6	7.7	7.1
5	7.4	6.4	6.2	6.9	6.1	4.9	5.8	7.1	7	5.6	5.7	4.9	4.1	5	7.2	7	6.4	5.9	5.2	5.3	5.2	4.5	4.8	5.5	5.8
6	4.8	3.4	3.6	3.9	3.4	2.7	2	1.9	1.7	1.7	1.9	2.7	3.1	3.4	4.5	4.3	4.1	4.4	3.6	2.9	2.4	2	1.9	1.9	3
7	1.6	1.8	2.1	2	2.3	2.7	3.6	4.8	4.8	5.1	5.3	5.2	4.1	3.4	3.2	2.9	4	5.3	2.3	1.2	2	2	2.2	2.2	3.2
8	2.8	2.9	2.7	2.5	3.2	3.3	4.3	4.2	3.9	3.7	3.9	3.3	3.9	3.3	2	3	4.1	4.4	1.9	1.3	0.6	1.6	2.2	1.9	3
9	2	2.6	2.7	2.6	3	2.7	4.1	3.9	3.4	3.7	4.8	5.8	5.4	5.9	5	4	3.8	4.1	3.7	2.2	1.6	1.3	2.5	1.9	3.4
10	1.9	2.3	2.4	2.7	3.1	2.4	3.6	4.3	4.4	4.3	3.7	2.4	3.9	4.4	3.7	4	4.3	3.1	2	1.7	2.3	5	2.7	3	3.2
11	4.9	5	1.9	1.2	1.9	1.4	1.5	3.3	5.6	6.2	6.8	7.4	7	7.1	6.7	6.8	5.6	5.7	4.8	4.3	4.1	2.8	2.2	2.1	4.4
12	0.8	1.5	1.2	0.9	1.3	1.7	2.4	2.8	3.5	4.1	4.8	5.6	6.2	5.7	5.9	5.3	5.5	5.9	4.5	3.4	2.5	1.9	0.7	0.4	3.3
13	0.2	0.9	0.8	0.3	1	1.2	2.2	3.4	3.3	3.8	5.2	6.2	6.6	6.7	6.8	6.5	6.2	6	5	2.9	2.9	2.1	1.6	2.1	3.5
14	1.4	1.1	1	1	0.9	0.6	1.4	2.9	4.7	4.6	4.3	4.3	5	5.6	6.7	8.1	7	6.8	6.6	4.9	3.9	3.5	4.4	3.6	3.9
15	3.2	2.5	2.1	2.3	3.7	6.4	3.4	3	3.4	4.7	5.3	4.3	4.6	4.2	4.2	2.8	2.4	2.4	1.6	1	1.2	0.7	0.9	1.7	3
16	3.8	3.2	1.9	2.4	2	1.4	1.5	1.9	2.1	3.1	3.6	4.7	4.3	4	5.6	7	7.7	7.1	5.5	4.5	4.4	4.3	4.9	5.1	4
17	3.6	6.4	3.4	3.4	1.2	0.3	2.1	3.1	4	4.2	4.4	4.1	3	3.3	4	5.3	6.2	5.6	4.5	3.6	4.8	6	5.8	4.5	4
18	3.7	2.7	2.1	1.8	2.2	2.4	2.7	3.8	3.7	2.8	3.1	3.6	4	3.8	4.6	3.9	3.9	6	5.6	4.7	3.5	1.7	1.5	1.6	3.3
19	1.3	1.4	0.6	2.6	1.2	0.4	1.1	1.8	2.7	3.2	3.5	3.7	4	3.3	6.2	6.5	6.2	6.3	5.6	4.7	4.4	2.8	2.9	2.2	3.3
20	3.3	2.9	2	1.6	3.2	0.8	1.6	3.1	3.5	4.4	4.2	4	3.7	4.2	4.6	6.2	5	5.3	3.2	2.9	3.3	2.4	2.5	1.9	3.3
21	2.1	2	1	0.7	0.7	0.6	0.6	1.3	2.7	3.3	4.3	4.1	4.2	2.5	4.5	4.1	5	6.6	4.3	2.5	2.4	1.2	0.7	0.8	2.6
22	0.5	1.1	1.8	1.9	1.4	1.9	3	5.1	4.4	2.8	3.4	3.6	4.7	5.3	8.1	7.8	7.1	4.7	3.1	3.9	3.3	3.9	4.3	3.8	3.8
23	2.8	2	2.6	1.8	1.6	1.4	1.7	4.3	6.1	6	6.4	6	5.6	7	6.7	5.9	7.1	5.9	6	4.4	4.4	3.4	3.4	5.6	4.5
24	4.9	4.5	1.6	1.7	2.3	2.5	2.6	3.2	4.2	3.6	3.1	4.1	4.1	4.7	5.7	5.4	5.3	5.2	5	3.9	3.5	3.3	2.4	1.9	3.7
25	2.8	1.9	1.1	1	1.6	0.9	2.2	2.9	3.9	4.6	4.7	5.3	5.6	5.3	5.5	6	6.2	6.1	6.2	4.5	4.3	4.2	4.5	4.3	4
26	4.4	3.2	2.5	2.4	2.5	2.6	5.4	6.1	5.6	5.6	6	6.8	6.4	7.5	7.2	7	6.9	5	4.4	6.6	5.8	5.5	6.3	5.6	5.3
27	4.3	4.8	4.4	3.7	3.3	3.7	6.5	6	6.2	6.7	6	5.9	8.1	8.8	8	7.1	7	5.8	2	2.3	1.7	1.9	3.2	2.7	5
28	2.9	3.2	4.2	4.6	3.5	3.4	5	6	5.6	6.6	7.6	8.2	7.5	8.4	7.9	8.4	8.1	6.9	6	6.9	6.2	6.1	6	5.2	6
29	4.6	4.8	4.6	4.4	4.4	5.8	6	8	7.5	6.3	5.6	7.4	8.3	8.3	8.8	7	7.3	7.8	8.2	12	10.2	8.9	7	4	7
30	2.7	3	3.1	2.7	3.5	4.2	4.9	5.6	5.4	6.5	5.4	4.4	4.3	5.2	4.3	4.7	5.6	4	5.3	3	3.6	2.1	3.9	1.6	4.1
Avg	3.1	3.1	2.6	2.6	2.6	2.5	3.3	4.1	4.6	4.7	4.9	5.1	5.2	5.4	5.8	5.6	5.8	5.4	4.4	3.9	3.7	3.4	3.3	3.1	4.1
SD	1.7	1.7	1.6	1.7	1.5	1.8	1.7	1.7	1.6	1.5	1.4	1.5	1.5	1.8	1.7	1.7	1.5	1.2	1.7	2.2	1.9	1.9	1.8	1.8	1.2
S/A	0.57	0.57	0.62	0.66	0.58	0.7	0.52	0.41	0.35	0.33	0.28	0.3	0.29	0.32	0.29	0.3	0.25	0.23	0.39	0.56	0.53	0.54	0.53	0.57	0.28
Min	0.2	0.9	0.6	0.3	0.5	0.3	0.6	1.3	1.7	1.7	1.9	2.4	3	2.5	2	2.2	2.4	2.4	1.3	1	0.6	0.7	0.7	0.4	2.6
Max	7.4	7.2	6.5	6.9	6.8	7	6.5	8	8.7	9.2	8.3	8.6	8.3	8.8	8.8	8.4	8.1	7.8	8.2	12	10.2	8.9	7	7.7	7.1
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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**

**June 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	1009	1009	1009	1009	1009	1009	1010	1010	1010	1010	1010	1010	1009	1009	1008	1008	1008	1008	1008	1008	1010	1010	1010	1010	1009
2	1010	1009	1009	1010	1010	1010	1011	1012	1013	1013	1013	1013	1012	1012	1012	1012	1013	1013	1014	1014	1015	1015	1015	1015	1012
3	1015	1015	1015	1014	1015	1015	1016	1016	1017	1017	1017	1016	1015	1014	1014	1013	1012	1012	1012	1012	1012	1012	1012	1011	1014
4	1011	1011	1011	1010	1010	1010	1011	1011	1011	1010	1010	1010	1009	1009	1008	1008	1008	1008	1008	1008	1009	1010	1010	1010	1009
5	1009	1009	1009	1010	1011	1012	1013	1013	1014	1014	1015	1015	1015	1015	1015	1016	1016	1016	1016	1017	1017	1017	1017	1017	1014
6	1017	1017	1017	1017	1018	1018	1019	1020	1020	1020	1020	1020	1019	1019	1018	1018	1017	1017	1017	1017	1017	1018	1018	1018	1018
7	1018	1018	1017	1017	1017	1018	1018	1019	1018	1018	1018	1018	1017	1016	1016	1015	1015	1015	1015	1015	1015	1015	1016	1015	1017
8	1015	1015	1015	1015	1015	1015	1016	1016	1016	1015	1015	1014	1014	1013	1013	1012	1012	1012	1012	1012	1013	1013	1013	1012	1014
9	1012	1012	1011	1011	1011	1012	1013	1013	1013	1013	1013	1013	1013	1012	1012	1012	1011	1011	1011	1011	1011	1012	1012	1012	1012
10	1012	1011	1011	1011	1012	1012	1013	1013	1013	1013	1013	1012	1012	1011	1011	1011	1010	1010	1010	1011	1012	1012	1012	1012	1012
11	1012	1012	1013	1013	1013	1014	1014	1015	1015	1016	1016	1016	1016	1016	1016	1016	1016	1016	1017	1017	1018	1019	1019	1019	1016
12	1019	1019	1018	1018	1019	1020	1020	1021	1021	1022	1021	1021	1021	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021	1021	1020
13	1021	1021	1021	1020	1020	1021	1022	1022	1023	1023	1022	1022	1022	1021	1021	1020	1020	1019	1019	1019	1019	1019	1019	1019	1021
14	1018	1018	1017	1017	1017	1017	1017	1017	1017	1016	1016	1016	1015	1014	1013	1013	1012	1012	1012	1011	1012	1012	1012	1012	1015
15	1011	1011	1010	1010	1010	1011	1011	1011	1011	1011	1011	1011	1010	1010	1009	1009	1009	1009	1009	1009	1010	1010	1010	1010	1010
16	1010	1009	1009	1009	1009	1009	1010	1010	1010	1010	1010	1010	1009	1008	1008	1007	1007	1007	1008	1008	1008	1008	1008	1008	1009
17	1008	1009	1008	1007	1007	1007	1007	1007	1008	1008	1008	1007	1007	1006	1006	1005	1005	1005	1006	1007	1007	1008	1009	1008	1007
18	1008	1008	1008	1008	1009	1009	1009	1009	1009	1009	1009	1008	1008	1007	1007	1007	1007	1007	1007	1008	1009	1009	1009	1009	1008
19	1008	1008	1008	1009	1009	1010	1010	1011	1011	1012	1012	1011	1011	1011	1011	1011	1011	1011	1012	1012	1012	1013	1012	1012	1011
20	1013	1013	1013	1013	1014	1014	1015	1015	1015	1016	1016	1016	1016	1015	1015	1015	1015	1015	1015	1015	1016	1017	1017	1017	1015
21	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1017	1017	1017	1017	1016	1015	1015	1015	1015	1015	1015	1015	1014	1016
22	1014	1013	1013	1013	1013	1014	1014	1014	1014	1015	1015	1014	1014	1013	1012	1012	1012	1012	1013	1013	1013	1013	1013	1013	1013
23	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1012	1012	1012	1012	1012	1012	1013	1013	1013	1014	1014	1015	1013
24	1014	1015	1014	1015	1015	1016	1017	1017	1018	1018	1019	1019	1018	1018	1018	1018	1019	1019	1019	1020	1020	1021	1021	1021	1018
25	1021	1021	1021	1021	1021	1022	1022	1022	1022	1022	1022	1021	1021	1020	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1020
26	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1015	1014	1013	1012	1012	1011	1011	1011	1011	1012	1012	1013	1014
27	1012	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013	1013	1012	1011	1011	1010	1010	1010	1011	1011	1012	1012	1012	1012	1012
28	1012	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013	1013	1013	1012	1012	1011	1010	1010	1010	1010	1011	1011	1012	1012	1012
29	1012	1011	1011	1011	1011	1012	1012	1012	1012	1012	1012	1012	1011	1011	1010	1009	1008	1009	1009	1009	1010	1011	1011	1011	1011
30	1010	1009	1009	1009	1008	1009	1009	1009	1009	1009	1009	1009	1009	1009	1008	1008	1007	1007	1007	1007	1008	1009	1009	1009	1008

Avg	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014	1014	1014	1013	1013	1012	1012	1012	1012	1013	1013	1014	1014	1013	1013
SD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
S/A	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
Min	1008	1008	1008	1007	1007	1007	1007	1007	1008	1008	1008	1007	1007	1006	1006	1005	1005	1005	1006	1007	1007	1008	1008	1008	1007
Max	1021	1021	1021	1021	1021	1022	1022	1022	1023	1023	1022	1022	1022	1021	1021	1020	1020	1020	1021	1021	1021	1021	1021	1021	1021
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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.

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

**June 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	11.5	11.5	11.4	11.4	11.3	11.5	12.5	13.2	13.1	13	12.9	12.9	12.9	12.9	12.7	13	12.3	12	11.8	11.7	11.6	11.6	11.5	11.5	12.2	
2	11.4	11.3	11.3	11.2	11.2	11.3	12.6	13.2	13.2	13.1	13	13	13	13	13.1	13.1	12.8	12.2	11.9	11.7	11.6	11.5	11.5	11.4	12.2	
3	11.3	11.3	11.2	11.2	11.2	11.4	12.6	13.3	13.2	13.1	13.1	13	13	13	13	13	13	12.5	12	11.8	11.7	11.6	11.6	11.5	12.2	
4	11.5	11.4	11.4	11.4	11.3	11.3	11.9	13	12.8	13.1	13.1	13	13	13	12.9	12.9	12.7	12.3	12.1	11.8	11.7	11.7	11.6	11.5	12.2	
5	11.5	11.4	11.4	11.3	11.3	11.4	12.3	13	13	13	12.9	12.9	12.9	12.9	12.9	12.9	12.6	12.3	12	11.7	11.7	11.6	11.5	11.4	12.2	
6	11.4	11.3	11.3	11.3	11.2	11.2	11.4	11.9	12.7	13.1	13	12.9	12.9	12.9	12.8	12.6	12.1	12.1	11.9	11.7	11.6	11.5	11.5	11.4	12	
7	11.4	11.3	11.3	11.3	11.2	11.4	12.4	13.1	13	12.9	12.9	12.8	12.8	12.8	12.8	12.7	12.6	12.3	11.9	11.8	11.7	11.6	11.5	11.5	12.1	
8	11.4	11.4	11.3	11.3	11.2	11.6	12.7	13.1	13	12.9	12.9	12.8	12.8	12.8	12.8	12.8	12.7	12.4	12.1	11.8	11.7	11.6	11.5	11.5	12.2	
9	11.4	11.4	11.3	11.3	11.3	11.4	12.4	13	13	12.9	12.8	12.8	12.9	12.9	12.9	12.9	12.5	12.2	11.9	11.7	11.7	11.6	11.5	11.4	12.1	
10	11.4	11.3	11.3	11.2	11.2	11.4	12.4	13	13	12.9	12.9	12.8	12.8	12.8	12.4	12.8	12.2	12.3	11.9	11.7	11.6	11.5	11.5	11.4	12.1	
11	11.4	11.3	11.3	11.2	11.2	11.2	12.2	13.1	13	13	12.9	12.9	13	13	13	13	12.9	12.5	11.9	11.7	11.6	11.5	11.4	11.4	12.1	
12	11.3	11.3	11.2	11.2	11.1	11.4	12.5	13.2	13.1	13	12.9	12.9	13	13	13	13	12.5	12.2	11.9	11.7	11.6	11.5	11.4	11.3	12.1	
13	11.3	11.2	11.2	11.1	11.1	11.3	12.4	13.2	13.1	13	13	13	13	13	13	13	12.5	12.1	11.8	11.7	11.5	11.5	11.4	11.3	12.1	
14	11.3	11.2	11.2	11.1	11.1	11.4	12.5	13.2	13.1	13	13	12.9	13	13	12.9	13	12.9	12.4	11.9	11.7	11.6	11.5	11.4	11.3	12.1	
15	11.3	11.3	11.2	11.2	11.2	11.2	11.5	12	12.5	13.2	13	13.2	13.1	13	13	12.9	12.9	12.5	12	11.7	11.6	11.5	11.4	11.4	12.1	
16	11.3	11.3	11.2	11.2	11.1	11.4	12.4	13.2	13	13	12.9	12.9	12.9	12.9	12.9	12.9	12.8	12.4	11.9	11.7	11.6	11.5	11.4	11.4	12.1	
17	11.3	11.3	11.2	11.1	11.1	11.3	12.5	13.2	13.1	13	13	13	13	13	12.9	12.9	12.7	12.3	11.9	11.6	11.5	11.5	11.4	11.3	12.1	
18	11.3	11.2	11.1	11.1	11	11.3	12.5	13.2	13.1	13.1	13	13	13	13	13	12.9	12.7	12.2	11.8	11.6	11.5	11.4	11.3	11.2	12.1	
19	11.2	11.1	11.1	11.1	11	11.3	12.5	13.2	13.1	13.1	13	13	13	13	13	13	12.9	12.4	11.8	11.6	11.5	11.4	11.3	11.3	12.1	
20	11.2	11.2	11.2	11.1	11.1	11.1	12.2	13.3	13.2	13.1	13	13	13	13	13	13	12.8	12.1	11.7	11.5	11.4	11.4	11.3	11.3	12.1	
21	11.2	11.2	11.1	11.1	11	11.1	12.4	13	13.2	13.1	13.1	12.9	12.1	12.8	13.1	13.1	13.2	12.8	11.8	11.5	11.4	11.3	11.3	11.2	12.1	
22	11.2	11.1	11.1	11.1	11	11.2	12.5	13.2	13.1	13	13	13	13	13	13	13	12.6	11.7	11.5	11.4	11.4	11.3	11.3	11.2	12	
23	11.2	11.2	11.1	11.1	11.1	11	11.6	13	13.1	13.1	13.1	13.1	13.1	13	13	12.7	13	13.1	12.6	12.1	11.5	11.4	11.4	11.3	12.1	
24	11.2	11.2	11.1	11.1	11	11.2	12.5	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.2	13.1	13	12.9	12.9	12.9	12.8	12.8	12.5
25	12.8	12.8	12.8	12.8	12.8	12.8	13.2	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13	13	13.1	13.1	13	12.9	12.9	12.8	12.8	12.8	13
26	12.8	12.8	12.8	12.8	12.8	12.8	13.2	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13	13	13	13	13	12.9	12.9	12.8	12.8	12.8	13
27	12.8	12.8	12.8	12.8	12.8	12.8	13	13.2	13.1	13.1	13.1	13	13	13	13	13	13	13	13	12.9	12.8	12.8	12.8	12.8	12.8	12.9
28	12.8	12.8	12.7	12.7	12.7	12.8	13	13.2	13.1	13.1	13.1	13	13	13	13	13	13	13	12.9	12.9	12.8	12.8	12.8	12.8	12.9	
29	12.7	12.7	12.7	12.7	12.7	12.7	13	13.2	13.2	13.2	13.1	13	13.1	13	13	13	13	13	13	12.9	12.8	12.8	12.8	12.7	12.9	
30	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.9	12.8	12.8	12.8	12.7	12.9	
Avg	11.6	11.6	11.5	11.5	11.5	11.6	12.5	13.1	13.1	13	13	13	12.9	13	12.9	13	12.8	12.5	12.1	11.9	11.9	11.8	11.7	11.7	12.3	
S D	0.6	0.6	0.6	0.6	0.7	0.6	0.4	0.3	0.1	0.1	0.1	0.1	0.2	0.1	0.2	0.1	0.3	0.4	0.5	0.5	0.6	0.6	0.6	0.6	0.3	
S/A	0.05	0.05	0.05	0.06	0.06	0.05	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.03	0.04	0.04	0.05	0.05	0.05	0.05	0.03	
Min	11.2	11.1	11.1	11.1	11	11	11.4	11.9	12.5	12.9	12.8	12.8	12.1	12.8	12.4	12.6	12.1	11.7	11.5	11.4	11.4	11.3	11.3	11.2	12	
Max	12.8	12.8	12.8	12.8	12.8	12.8	13.2	13.3	13.2	13.2	13.1	13.2	13.1	13.1	13.1	13.1	13.2	13.1	13	12.9	12.9	12.9	12.8	12.8	13	
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640	

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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.