

May 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	33	136 ?	?	?	562 ?	?	?	?	?	?	?	?	171	29	0	0	0	0	0	932 ?	
2	0	0	0	0	0	29	142 ?	?	?	?	?	?	?	?	?	?	?	159	33	0	0	0	0	0	363 ?	
3	0	0	0	0	0	38	153 ?	?	?	?	?	?	?	?	?	406 ?	331 ?	117	29	0	0	0	0	0	1075 ?	
4	0	0	0	0	0	12	50	136	371	446 ?	?	?	?	394 ?	214	305	181	82	23	0	0	0	0	0	2215 ?	
5	0	0	0	0	0	23	122 ?	280 ?	411	375	469 ?	563 ?	386 ?	302	261	226	221 ?	82	29	0	0	0	0	0	3749 ?	
6	0	0	0	0	0	21	101	255	?	?	?	?	366 ?	263 ?	230 ?	125 ?	93	87 ?	36	0	0	0	0	0	1576 ?	
7	0	0	0	0	0	39	?	?	?	?	?	?	?	?	?	?	?	?	?	37	0	0	0	0	0	76 ?
8	0	0	0	0	0	29	125 ?	244	208	252	348	269	283	220	188	126	180	85	43	0	0	0	0	0	2601	
9	0	0	0	0	0	19	82	?	184 ?	383	477 ?	426 ?	438 ?	411 ?	366 ?	?	168 ?	94	19	0	0	0	0	0	3067 ?	
10	0	0	0	0	0	46	?	250 ?	310 ?	451 ?	?	481 ?	378 ?	233 ?	256 ?	274	211	137	39	0	0	0	0	0	3065 ?	
11	0	0	0	0	0	34	109	201	289	246	175	105	119	480	190	128	65 ?	41 ?	3	0	0	0	0	0	2185	
12	0	0	0	0	0	45	76	215 ?	283	218	161	180	330	229	212	104	91	93	13	0	0	0	0	0	2250	
13	0	0	0	0	0	44	?	?	?	?	?	?	?	?	?	625 ?	456	233	50	0	0	0	0	0	1408 ?	
14	0	0	0	0	0	53	221	439	638	825	958	1024	1022	889	618	366	221	94	12	0	0	0	0	0	7381	
15	0	0	0	0	0	39	175	295	422	627	791	950	932	603	426	370	197	119	23	0	0	0	0	0	5970	
16	0	0	0	0	1	15	46	70	66	146	278	206	578	715	683	478	321	162	14	0	0	0	0	0	3777	
17	0	0	0	0	2	57	240	458	669	849	977	1046	1045	974	846	670	462	242	55	0	0	0	0	0	8591	
18	0	0	0	0	5	59	154	437	629	827	949	979	629	941	689	605	237	78	0	0	0	0	0	0	7219	
19	0	0	0	0	2	54	163 ?	343 ?	?	?	?	?	?	?	?	?	?	182 ?	29	0	0	0	0	0	773 ?	
20	0	0	0	0	1	17	75	143	227	129 ?	494	623	668 ?	640 ?	639	321 ?	?	?	7	2	0	0	0	0	3987 ?	
21	0	0	0	0	3	58	171 ?	?	?	?	529 ?	450	319	119	597 ?	315 ?	322 ?	212	58	0	0	0	0	0	3152 ?	
22	0	0	0	0	3	59	172 ?	?	?	?	?	?	?	?	319 ?	295 ?	?	200	60	2	0	0	0	0	1110 ?	
23	0	0	0	0	6	58	144	145	508 ?	413 ?	?	825 ?	706 ?	?	447 ?	?	258 ?	146	61	5	0	0	0	0	3722 ?	
24	0	0	0	0	0	1	28 ?	58	96	430 ?	436 ?	567 ?	385 ?	?	?	?	?	244	55	2	0	0	0	0	2302 ?	
25	0	0	0	0	4	81	222	?	?	?	?	?	?	473 ?	341 ?	?	?	243	66	1	0	0	0	0	1431 ?	
26	0	0	0	0	4	82	255	?	?	?	?	?	?	?	?	609 ?	444	227	72	4	0	0	0	0	1696 ?	
27	0	0	0	0	3	51	222	359 ?	?	?	?	?	?	?	?	609 ?	424	217	45	2	0	0	0	0	1931 ?	
28	0	0	0	0	1	7	?	60 ?	56	149	207	162	177	147	256	258	136	75	30	6	0	0	0	0	1724 ?	
29	0	0	0	0	6	69	?	?	?	?	?	?	?	?	?	?	452 ?	260	78	4	0	0	0	0	869 ?	
30	0	0	0	0	11	75	212 ?	?	?	?	?	?	?	?	?	593 ?	452	207	71	11	0	0	0	0	1633 ?	
31	0	0	0	0	3	44	227	386 ?	?	?	692 ?	717	728	860	719	448	288	208	45	2	0	0	0	0	5367 ?	
Avg	0	0	0	0	2	42	147	251	335	431	529	563	527	494	425	375	270	155	38	1	0	0	0	0	2813 ?	
SD	0	0	0	0	3	21	64	129	200	239	284	320	277	285	212	183	129	66	21	2	0	0	0	0	2135	
S/A	0	0	0	0	1.44	0.51	0.44	0.51	0.6	0.55	0.54	0.57	0.53	0.58	0.5	0.49	0.48	0.42	0.57	1.8	0	0	0	0	0.76	
Min	0	0	0	0	0	1	28	58	56	129	161	105	119	119	188	104	65	41	0	0	0	0	0	0	76	
Max	0	0	0	0	11	82	255	458	669	849	977	1046	1045	974	846	670	462	260	78	11	0	0	0	0	8591	
n	0	0	0	0	27	354	255	181	169	168	142	163	173	174	188	197	223	320	354	23	0	0	0	0	3121	

Daylight Data Recovery: 0.0% missing; 0.0% untested; 40.3% exceed the 15% QC threshold -- 5232 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

May 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	51	167 ?	?	?	71 ?	?	?	?	?	?	?	?	189	33	0	0	0	0	0	512 ?
2	0	0	0	0	0	37	186 ?	?	?	?	?	?	?	?	?	?	?	139	41	0	0	0	0	0	403 ?
3	0	0	0	0	0	66	230 ?	?	?	?	?	?	?	?	?	126 ?	144 ?	18	2	0	0	0	0	0	586 ?
4	0	0	0	0	0	0	0	1	37	42 ?	?	?	?	54 ?	16	47	15	4	16	0	0	0	0	0	232 ?
5	0	0	0	0	0	1	7 ?	5 ?	6	3	5 ?	6 ?	2 ?	1	1	1	3 ?	1	0	0	0	0	0	0	41 ?
6	0	0	0	0	0	0	1	7	?	?	?	?	3 ?	0 ?	1 ?	1 ?	2	2 ?	2	0	0	0	0	0	19 ?
7	0	0	0	0	0	2	?	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	2 ?
8	0	0	0	0	0	0	3 ?	3	1	2	3	0	2	0	1	0	2	1	1	0	0	0	0	0	20
9	0	0	0	0	0	0	1	0	3	7	5 ?	3 ?	2 ?	3 ?	2 ?	?	2 ?	0	0	0	0	0	0	0	28 ?
10	0	0	0	0	0	3	?	11 ?	9 ?	6 ?	?	5 ?	4 ?	0 ?	2 ?	1	1	1	0	0	0	0	0	0	42 ?
11	0	0	0	0	0	1	1	1	2	1	0	0	0	5	0	1	1	1	1	0	0	0	0	0	14
12	0	0	0	0	0	3	1	4 ?	3	1	0	3	3	1	2	0	0	1	0	0	0	0	0	0	22
13	0	0	0	0	0	4	?	?	?	?	?	?	?	?	?	807 ?	748	588	217	0	0	0	0	0	2364 ?
14	0	0	0	0	0	196	544	704	761	837	877	880	875	627	218	37	9	0	0	0	0	0	0	0	6564
15	0	0	0	0	0	8	107	65	49	96	334	595	451	207	69	65	8	3	0	0	0	0	0	0	2056
16	0	0	0	0	1	1	1	0	0	2	6	2	101	372	359	221	145	89	0	0	0	0	0	0	1300
17	0	0	0	0	0	316	665	810	876	919	939	943	940	918	890	844	779	637	283	0	0	0	0	0	10758
18	0	0	0	0	0	96	131	570	681	826	852	752	178	763	484	586	86	0	0 ?	0	0	0	0	0	6005
19	0	0	0	0	0	91	138 ?	444 ?	?	?	?	?	?	?	?	?	?	373 ?	19	0	0	0	0	0	1065 ?
20	0	0	0	0	0	0	1	1	4	0	64	81	141 ?	180 ?	255	121 ?	0	0	0	0	0	0	0	0	849
21	0	0	0	0	0	100	245 ?	?	?	?	77 ?	44	18	0	216 ?	32 ?	248 ?	313	168	0	0	0	0	0	1461 ?
22	0	0	0	0	0	125	281 ?	?	?	?	?	?	?	?	96 ?	167 ?	?	305	191	0	0	0	0	0	1165 ?
23	0	0	0	0	1	22	55	2	80 ?	18 ?	?	142 ?	120 ?	?	110 ?	?	323 ?	62	66	0	0	0	0	0	1002 ?
24	0	0	0	0	0	0	0	0	1	50 ?	115 ?	141 ?	59 ?	?	?	?	512 ?	446	170	2	0	0	0	0	1498 ?
25	0	0	0	0	0	149	296	?	?	?	?	?	?	96 ?	74 ?	?	517 ?	423	218	0	0	0	0	0	1774 ?
26	0	0	0	0	3	139	309	?	?	?	?	?	?	?	?	464 ?	489	354	177	0	0	0	0	0	1936 ?
27	0	0	0	0	0	89	289	334 ?	?	?	?	?	?	?	?	451 ?	393	259	42	0	0	0	0	0	1857 ?
28	0	0	0	0	0	0	0	0	1	2	0	1	0	0	4	3	0	0	0	0	0	0	0	0	13
29	0	0	0	0	9	199	?	?	?	?	?	?	?	?	?	597 ?	606	510	285	0	0	0	0	0	2206 ?
30	0	0	0	0	10	216	408 ?	?	?	?	?	?	?	?	?	622 ?	541	279	130	0	0	0	0	0	2207 ?
31	0	0	0	0	0	7	292	413 ?	?	?	151 ?	137	147	299	291	140	101	157	41	0	0	0	0	0	2177 ?
Avg	0	0	0	0	1	62	162	169	157	170	228	220	169	196	155	232	218	172	68	0	0	0	0	0	1619 ?
S/D	0	0	0	0	2	83	182	271	308	331	354	338	291	291	224	284	264	203	94	0	0	0	0	0	2305
S/A	0	0	0	0	2.93	1.34	1.12	1.6	1.96	1.95	1.55	1.54	1.72	1.49	1.45	1.22	1.21	1.18	1.39	4.26	0	0	0	0	1.42
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
Max	0	0	0	0	10	316	665	810	876	919	939	943	940	918	890	844	779	637	285	2	0	0	0	0	10758
n	0	0	0	0	27	358	280	201	176	170	142	163	174	175	190	210	254	345	352	23	0	0	0	0	3249

Daylight Data Recovery: 0.0% missing; 0.0% untested; 37.9% exceed the 15% QC threshold -- 5232 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

May 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	25	68 ?	?	?	413 ?	?	?	?	?	?	?	?	82	23	0	0	0	0	0	612 ?	
2	0	0	0	0	0	21	70 ?	?	?	?	?	?	?	?	?	?	?	90	26	0	0	0	0	0	208 ?	
3	0	0	0	0	0	25	65 ?	?	?	?	?	?	?	?	?	237 ?	205 ?	109	29	0	0	0	0	0	670 ?	
4	0	0	0	0	0	12	50	136	324	379 ?	?	?	?	293 ?	189	240	167	79	21	0	0	0	0	0	1890 ?	
5	0	0	0	0	0	20	90 ?	230 ?	338	373	446 ?	474 ?	353 ?	302	260	225	190 ?	73	26	0	0	0	0	0	3399 ?	
6	0	0	0	0	0	23	101	241	?	?	?	?	299 ?	263 ?	185 ?	115 ?	90	83 ?	25	0	0	0	0	0	1426 ?	
7	0	0	0	0	0	28	?	?	?	?	?	?	?	?	?	?	?	?	?	29	0	0	0	0	0	57 ?
8	0	0	0	0	0	29	103 ?	232	207	251	342	269	282	220	188	126	162	92	40	0	0	0	0	0	2542	
9	0	0	0	0	0	19	76	?	145	342	395 ?	382 ?	347 ?	341 ?	298 ?	?	106 ?	82	19	0	0	0	0	0	2553 ?	
10	0	0	0	0	0	38	?	246 ?	286 ?	410 ?	?	399 ?	309 ?	217 ?	247 ?	267	208	126	37	0	0	0	0	0	2788 ?	
11	0	0	0	0	0	37	109	200	277	246	175	105	119	466	190	128	49	29 ?	3	0	0	0	0	0	2134	
12	0	0	0	0	0	31	76	184 ?	257	218	161	180	330	229	211	104	86	93	12	0	0	0	0	0	2172	
13	0	0	0	0	0	21	?	?	?	?	?	?	?	?	?	95 ?	82	62	25	0	0	0	0	0	285 ?	
14	0	0	0	0	0	28	71	103	129	129	126	130	134	271	417	342	219	94	12	0	0	0	0	0	2205	
15	0	0	0	0	0	39	146	261	387	543	449	331	464	401	367	324	196	119	23	0	0	0	0	0	4049	
16	0	0	0	0	?	15	46	70	66	146	278	205	469	347	364	315	246	134	14	0	0	0	0	0	2715	
17	0	0	0	0	?	23	52	67	80	83	87	90	91	93	91	86	70	54	22	0	0	0	0	0	989	
18	0	0	0	0	?	51	111	160	167	137	133	210	435	192	252	188	185	72	0	0	0	0	0	0	2292	
19	0	0	0	0	2	30	97 ?	80 ?	?	?	?	?	?	?	?	?	?	?	57 ?	24	0	0	0	0	0	289 ?
20	0	0	0	0	1	17	75	143	227	108	399	489	431 ?	393 ?	330	211 ?	23 ?	14 ?	7	2	0	0	0	0	2870 ?	
21	0	0	0	0	3	31	72 ?	?	?	?	367 ?	364	288	109	305 ?	266 ?	172 ?	79	28	0	0	0	0	0	2084 ?	
22	0	0	0	0	4 ?	30	67 ?	?	?	?	?	?	?	?	186 ?	137 ?	?	72	27	2	0	0	0	0	526 ?	
23	0	0	0	0	?	56	122	144	386 ?	379 ?	?	517 ?	435 ?	?	262 ?	?	127 ?	110	46	5	0	0	0	0	2590 ?	
24	0	0	0	0	0	1	22 ?	55	96	348 ?	248 ?	328 ?	286 ?	?	?	?	68 ?	56	26	2	0	0	0	0	1536 ?	
25	0	0	0	0	6 ?	53	89	?	?	?	?	?	?	314 ?	245 ?	?	82 ?	65	30	1	0	0	0	0	886 ?	
26	0	0	0	0	6 ?	53	116	?	?	?	?	?	?	?	?	161 ?	107	80	44	4	0	0	0	0	571 ?	
27	0	0	0	0	2	34	95	139 ?	?	?	?	?	?	?	?	179 ?	150	111	38	2	0	0	0	0	751 ?	
28	0	0	0	0	1	7	18 ?	53	54	149	207	162	177	147	256	258	136	75	30	6	0	0	0	0	1732	
29	0	0	0	0	5	26	?	?	?	?	?	?	?	?	?	113 ?	74	59	32	4	0	0	0	0	313 ?	
30	0	0	0	0	11 ?	31	58 ?	?	?	?	?	?	?	?	?	100 ?	97	89	51	11	0	0	0	0	447 ?	
31	0	0	0	0	3	42	99	117 ?	?	?	465 ?	511	515	464	388	318	224	154	39	2	0	0	0	0	3342 ?	
Avg	0	0	0	0	2	29	80	151	214	274	285	303	320	281	262	197	135	83	26	1	0	0	0	0	1643 ?	
S/D	0	0	0	0	3	13	30	70	113	135	132	146	127	110	83	83	62	29	12	2	0	0	0	0	1118	
S/A	0	0	0	0	1.69	0.46	0.37	0.46	0.53	0.49	0.46	0.48	0.4	0.39	0.32	0.42	0.46	0.35	0.46	1.82	0	0	0	0	0.68	
Min	0	0	0	0	0	1	18	53	54	83	87	90	91	93	91	86	23	14	0	0	0	0	0	0	57	
Max	0	0	0	0	11	56	146	261	387	543	465	517	515	466	417	342	246	154	51	11	0	0	0	0	4049	
n	0	0	0	0	18	350	270	188	176	171	142	163	174	177	190	211	247	332	354	23	0	0	0	0	3195	

Daylight Data Recovery: 0.0% missing; 0.0% untested; 38.9% exceed the 15% QC threshold -- 5232 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

May 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	11.5	11	11.4	11.4	11.3	11.8	13.1	15.2	16.6	17.7	18.5	19.7	20.9	21.6	22	22.1	21.5	20.6	19.4	18.6	18.4	18	17.5	17.7	17
2	17.4	17.1	16.7	16.3	16	15.8	17	18.8	20.2	21.1	22	23	23.9	24.6	25.3	25.7	25.7	25.1	24.1	21.9	20.8	20	19.4	18.9	20.7
3	18.3	17.8	17.3	17.1	16.9	16.9	17.9	19.4	20.9	22	23.1	24	24.8	25.5	26.3	26.7	27	25.2	23.5	22.3	21.5	20.9	20.6	20.3	21.5
4	20.1	19.8	19.5	19.5	19	18.9	19	19.3	20.3	21.3	22.6	24.5	25.5	26.7	25.1	23.2	21.3	20.5	20.1	19.6	18.9	18.2	17.5	17.1	20.7
5	16.7	16.3	16	15.8	15.6	15.4	16.5	17.6	18.6	18.9	19.4	20.4	20.7	20.2	19.8	19.3	19.4	18.4	17.2	16.1	15.5	15.2	14.9	14.9	17.4
6	14.7	14.4	13.8	13.7	13.3	13.4	13.8	14.6	16.3	19.2	21.4	22.1	22.8	22.4	21.4	20.1	18.9	18.8	18.6	17.6	16.8	16.2	15.7	15.7	17.3
7	15.3	15.2	14.8	15	14.8	14.5	15.5	17.7	19.9	22.3	23.9	25.5	25.7	26.5	27	26.9	26.7	25.8	23.9	22.5	21.5	20.9	20.5	20.2	20.9
8	20.1	19.7	19.3	19	18.8	18.9	19.4	20.5	21	21.2	21.6	20.8	21.1	21.7	21.6	21.8	21.6	22.1	21.6	21.1	21.1	21.2	21.1	21.3	20.7
9	21.5	21.6	21.8	22.1	22.3	22.5	23	22.2	21.4	22.5	23.7	24.8	25.2	26.3	27.3	26.9	26.7	24.3	22.1	21.1	19.9	17.8	16.3	15.4	22.4
10	14.8	14.4	14.2	13.6	13.2	13	14.8	16	17.1	18.1	19.4	21	22.4	20.5	17.9	16	15.9	15.9	15.7	14.7	14.1	13.9	13.3	12.9	15.9
11	12.7	11.1	11.2	12.1	12.6	13.3	13.9	14.7	15.7	16.2	16.4	16.3	16.5	17.7	18.7	18.5	18.7	18.5	17.3	14.8	14.5	14.3	14.2	13.8	15.1
12	13.4	13.2	12.9	12.5	12.1	11.8	11.8	12	12.3	12.1	10.8	10.1	11.1	11.8	12.1	11.7	10.7	10.6	10.1	9.9	9.7	9.7	9.7	9.4	11.3
13	9	9.1	9.3	9.2	8.6	8.6	9.5	11.5	13.8	15.2	16.4	17.2	17.8	18.2	18.2	17.3	16.6	15.4	14.1	12.9	11.4	10.1	9.6	9.4	12.9
14	8.9	8.4	7.8	7.7	7.7	8.4	10.4	13	15.6	18.9	20.5	22	22.9	23.5	23.4	23	22.7	21.8	21	20.1	19.3	18.4	18.1	17.8	16.7
15	17.5	17.2	17.2	16.9	16.6	16.4	17.6	18.5	19.6	20.6	21.3	22.9	24.3	25	24.9	25.1	24.7	24.2	23.4	22.2	21.7	21.3	20.7	20.2	20.8
16	19.7	18.7	18.4	18.4	18.4	18.9	19.5	19.3	18.8	19.4	20.7	21.4	22.7	24.4	25.9	26.6	26.5	26.1	24.5	19.4	19.3	19	18.2	17.3	20.9
17	16.3	15	14	12.7	11.9	11.4	12.4	14	15.8	17.6	18.9	19.6	20.6	21.5	22.2	22.5	22.8	22.6	21.5	19.7	18.4	17.7	17.2	16.6	17.6
18	16.2	15.9	15.7	15.4	15.1	15.1	15.9	17.8	19.8	21.8	23.4	24.6	24.4	24.8	24.9	25.2	25.1	24.4	17.7	15.8	15.8	15.7	15.8	15.8	19.3
19	15.7	15.7	15.5	15.1	14.7	14.4	14.8	15.9	17.3	18.4	19.1	19.9	20.7	21.2	21.8	22.2	22.5	22.3	20.9	19.2	17.9	18.1	18.2	17.7	18.3
20	17.7	17.7	17.6	17.9	18.3	19.1	19.9	21.3	22.6	22.3	23.7	26.1	26.6	27.2	27.8	26.6	17.3	17.3	17.2	17.1	17.1	16.6	16	15.5	20.3
21	15.3	14.2	13.2	12.6	12.4	12.4	14.3	16.5	18.2	19	19.5	19.8	20.3	19.3	21.5	22	21.9	21.5	20.7	18.9	17.3	15.8	15.4	15.4	17.4
22	15.1	14.1	13.1	12.3	12.5	12.8	14.6	17.3	19.1	20.2	21.1	21.8	22.3	22.9	23.2	23.7	23.7	23.2	22.3	20.7	18.8	18	17.3	16.7	18.6
23	16.6	16.4	15.4	15.1	14.8	15.1	15.8	16.3	17.8	18.6	20.3	21.4	22.3	23	23.6	23.6	21.9	21.5	19.4	17.5	16.8	16.3	16.6	16.8	18.5
24	16.9	16.6	16.7	16.3	15.6	15.5	15.3	15.2	15.1	16.8	19.3	20.3	20.5	20.4	21	21.3	21	20.3	19.2	17.9	16.9	15.2	14.1	13.6	17.6
25	12.9	12.7	12.3	12.6	12.6	13.2	14.8	17.1	18.9	20.7	22.2	23.1	24.2	24.2	22.7	22.9	22.8	22.1	21.1	19.2	18.1	17.6	17	16.1	18.4
26	16.1	16.1	15.8	14.9	14.9	15	17.3	19.5	21.2	22.4	23.5	24.2	25.2	25.9	26.3	26.5	26.3	25.4	23.7	22.1	21.5	20.8	20.4	20.1	21
27	19.8	19.4	19.3	18.9	18.6	18.7	19.6	20.8	22.3	23.7	25.1	26.4	27.4	28	28.6	28.8	29.1	28.7	26.9	24.8	23.6	22.9	22.6	22	23.6
28	21.5	19.5	18.8	18.7	18.9	18.8	18.8	16.5	15.3	15	14.7	15	14.3	13.6	14	14.8	14.6	14.5	14.2	13.8	13.6	13.3	12.8	11.9	15.7
29	10.3	9.6	9.4	9.6	9.5	9.9	11.9	14.3	16.8	18.4	19.3	19.6	20.3	20.4	19.9	19.9	19.9	19.4	18.4	16.9	16	15.4	15	14.7	15.6
30	13.9	13.3	13.2	12.8	12.2	13.6	16.7	19.4	21.3	22.9	24.3	24.6	24.9	25.7	26	24.6	24.5	25	24.2	23	21.9	21.4	21.1	20.9	20.5
31	20.6	20.6	20.9	21	21	21.2	21.9	23.1	24.3	25.2	26.7	27.8	28.4	29.3	29.8	29.9	29.9	29.4	28	26.4	25.6	25	24.6	24.4	25.2
Avg	16	15.5	15.2	15	14.9	15	16	17.3	18.5	19.7	20.7	21.6	22.3	22.7	22.9	22.8	22.2	21.6	20.4	19	18.2	17.6	17.1	16.8	18.7
S D	3.4	3.4	3.4	3.5	3.5	3.5	3.2	2.9	2.8	2.8	3.3	3.6	3.7	3.9	4.1	4.2	4.3	4.2	3.9	3.6	3.5	3.4	3.4	3.5	3
S/A	0.21	0.22	0.23	0.23	0.24	0.23	0.2	0.17	0.15	0.14	0.16	0.17	0.17	0.18	0.18	0.2	0.19	0.19	0.19	0.19	0.19	0.2	0.2	0.21	0.16
Min	8.9	8.4	7.8	7.7	7.7	8.4	9.5	11.5	12.3	12.1	10.8	10.1	11.1	11.8	12.1	11.7	10.7	10.6	10.1	9.9	9.7	9.7	9.6	9.4	11.3
Max	21.5	21.6	21.8	22.1	22.3	22.5	23	23.1	24.3	25.2	26.7	27.8	28.4	29.3	29.8	29.9	29.9	29.4	28	26.4	25.6	25	24.6	24.4	25.2
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

May 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	84.5	88.9	87.1	84.6	87.8	87.5	85.1	78	69.5	65.9	64.9	62.7	59.6	57.2	56.8	59.8	60.8	64.1	69.3	70.8	72.9	80.5	87.4	89.2	74
2	92.8	96.3	98.3	100.4	101.6	102.2	98.6	90.5	85.2	82.2	76.6	72.5	68.4	66.9	64.8	62.9	61.7	64.8	69.6	83.8	87.5	90.7	94.3	95.9	83.7
3	97	98.2	100.3	101	101.6	101.8	98.9	93.7	86.6	82.3	78.1	73.7	66.9	64.7	62.2	61.2	60.9	75.1	85.6	90.9	93.7	97.6	99	99.8	86.3
4	98.8	97.9	97.7	97.3	99.3	99.5	99.5	98.9	96.2	92.1	86	76.9	70.3	63.9	75	87	94.7	97.7	98.4	100.4	102.7	104.5 ?	?	?	92.5 ?
5	?	?	?	?	?	?	99.1	92.6	83.6	80.6	80	81.3	80.7	78.5	81	82.4	85.2	91.1	98.6	104.2 ?	?	?	?	?	87.1 ?
6	?	?	?	?	?	?	?	?	99.1 ?	86.7	72.5	70.1	66.6	69.1	75.9	79.3	84.1	83.7	86	88.7	90.9	95.5	98.4	99.5	84.1 ?
7	101	102.2	104.6	102.5	101.7	104.4 ?	103 ?	95.5	86.2	76.3	65.5	55.1	51.6	45	44.9	46.7	49.6	55	63.8	67.2	72.8	77.7	82.5	86.4	76.7
8	87.1	89.9	93.2	95.3	96.8	97.7	97.5	95.3	95.2	96.6	96	99.9	101.2	97.6	99	99.3	101.2	98.6	101.4	101.9	99.6	101.1	103.8	103.7	97.9
9	103.3	102.9	102.6	102	101.3	100.8	98.7	99.4 ?	104 ?	100.9	96.3	88.9	86.2	75.4	68	70.1	68.8	79.6	84.4	84.9	91.7	94.1	95.5	97.2	91.5
10	98.8	99.1	100.2	102.9	?	?	101.8 ?	98.1	96	94.4	93.1	86.8	77.4	84.7	93.4	97.6	94.6	90.6	88.8	89.3	90.1	90.9	98.7	104.7 ?	94.2 ?
11	103	?	103.8 ?	101.7	99.5	99.3	98.3	95	86.8	85.9	89.4	90.2	93.3	98.3	95.7	98.9	101.4	104 ?	103.5 ?	?	?	?	?	?	97.1 ?
12	?	104.8 ?	?	?	103.5 ?	101.9	100.2	94.8	90.8	87.9	94.1	99	95.1	93.8	93.7	96.2	101.7 ?	101.6	102.1	101.7	101.9	98.4	98.2	102	98.3 ?
13	104.3 ?	?	104	103.3	104.7	104.6	102.4	96	79	60.8	54.6	52.9	51	50.5	55.1	58.7	53.1	54.1	57.5	66.6	77.2	86.5	86.4	86.4	76.1
14	91.2	97	100.9	102.2	101.9	99.6	92.4	83.5	79.4	69.6	61.2	52.5	48.1	46.4	47.3	49.5	54.8	59	60.2	65.3	71.6	81.5	87	85.3	74.5
15	82.7	86.4	87.4	90.5	94.2	96.4	94.2	92	88.2	85.5	83.7	78.6	74.2	72.3	73.3	73	76.6	79.7	84.2	86.2	89.1	89.5	96.4	101.4	85.7
16	102.9	102.5 ?	?	?	?	?	?	?	?	?	104.6 ?	103.5	97.4	90.4	81.5	75.8	75.4	77.8	86.2	100.8 ?	?	102.3 ?	100.2	87.5	92.6 ?
17	78.7	84	85.4	90.7	91.9	93.8	89.8	84.3	75	62.3	56.9	55.4	52.1	51.3	51	50.5	47.8	49.2	54.4	64.1	74.6	89.5	90.2	93.1	71.5
18	94.6	94.7	94.8	95.9	96.4	97.3	96.3	87.9	79.4	70.6	63	57.2	54.5	52.8	54	56.2	53.8	56.1	94.1	104 ?	104.8 ?	?	?	?	79 ?
19	?	?	?	?	?	?	104 ?	100.1	92.1	76.6	54.4	47.9	45.3	44.5	41.7	41.5	44.1	46.9	53.6	64.3	73	74.3	73	89.2	63.8 ?
20	91.5	89.9	96	102.9	103.4 ?	98.1	93.1	86.1	84.5	88	86	74.7	73.8	72.2	70.1	70.6	97.7 ?	?	?	?	101.6 ?	97	93.1	95.2	88.8 ?
21	93	99.2	103.7 ?	?	?	?	100.1	86.3	69.9	65.5	70.1	77.6	78.8	85.1	73.5	64.5	60.8	63.7	66.2	76.1	82.7	90.1	91.4	90.3	80.4 ?
22	90.8	94.9	97.5	99.7	97.1	95.1	89.4	74.6	64.8	56.1	49.8	48.2	46.1	43.5	44.1	42.5	42.5	45.2	50	57.5	66.3	66.5	70.9	79.4	67.2
23	88.4	89.3	89.1	84.7	83.6	85.1	84.3	83.2	70.6	71.6	67.7	63.5	57.8	54	52.6	54.5	69	69.1	81.3	88.9	93.9	96.8	96.8	96.3	78
24	96.5	96.8	96	99	104 ?	104.4	104.8 ?	104.9 ?	104.4	96.5	80	73	75.5	70.8	64.1	59.7	61.9	65.3	72	77.9	81.8	90.8	96.3	98.1	86.4
25	100.4	102.5	103	102.8	101.3	95.8	92.4	84.2	77.7	67	55.9	50.6	47.3	50.1	68.5	65	59.3	57.4	59.3	68.9	75.6	76.5	76.8	81.1	75.8
26	86.2	91.6	95.8	99.4	100.2	101.7	97	83.2	73.7	68.5	65	62	59.7	58.6	57.6	57.6	57.7	60.6	68	76	80.5	87.3	89.8	91.4	77.9
27	94.1	96.4	97	98	98.7	97.7	94.9	90.6	83.5	78.6	74.5	71	68.5	67.7	66.4	65.9	64.8	66	73.5	78.7	81.4	83.7	82.2	85.2	81.6
28	89.6	101	?	?	?	?	?	?	104 ?	101.3	102.1	98.2	100.9	100.5	97.6	88.2	87.8	89.2	90	90.4	92.2	93.4	95.6	99.7	95.7 ?
29	104.5 ?	?	?	?	?	103.7 ?	98.5	88.7	74.2	65.4	57.5	49.7	51.3	52	51.8	51.5	58.9	63.4	69.8	82	86.5	91.9	96.9	98.9	74.9 ?
30	101.6	102.5	100.9	101.5	104.7 ?	102.6	96.3	88.8	83.3	70.9	65.3	63.1	58.7	61.5	63	64.2	71.9	76	81.7	88.4	95.6	98.7	101.9	104.1	85.3
31	?	?	?	?	?	?	103.3	99.1	94	90.4	85	81.2	79.1	77.3	76.5	76	76.7	80.6	87.1	94.9	96	97.2	97.7	98.3	88.3 ?
Avg	94.5	96.2	97.4	98.1	98.9	99	96.8	90.6	84.7	78.5	74.9	71.5	69	67.6	67.7	68	70.3	72.2	78	83.3	86.7	90.2	91.9	94	83.4 ?
S D	7.2	5.8	5.7	5.7	5.4	5	5.2	7	10.9	13.5	15.8	16.7	17.1	17.2	16.5	16.7	18	16.9	15.8	13.8	11	9.1	8.6	7.2	9.1
S/A	0.08	0.06	0.06	0.06	0.06	0.05	0.05	0.08	0.13	0.17	0.21	0.23	0.25	0.25	0.24	0.25	0.26	0.23	0.2	0.17	0.13	0.1	0.09	0.08	0.11
Min	78.7	84	85.4	84.6	83.6	85.1	84.3	74.6	64.8	54.4	47.9	45.9	45.3	43.5	41.7	41.5	42.5	45.2	50	57.5	66.3	66.5	70.9	79.4	63.8
Max	104.5	104.8	104.6	103.3	104.7	104.6	104.8	104.9	104.4	101.3	104.6	103.5	101.2	100.5	99	99.3	101.7	104	103.5	104.2	104.8	104.5	103.8	104.7	98.3
n	292	270	257	263	248	269	312	322	342	360	364	372	372	372	372	372	360	355	348	332	318	325	324	321	7842

Data Recovery: 0.0% missing; 0.0% untested; 12.2% 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

May 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	9.9	9.2	8.7	9	9.3	9.5	11	14.7	18	20.6	22.3	23.3	24.1	24.5	25.1	25.7	25.8	24.8	22.8	20.1	18.8	18.1	17.4	17	17.9
2	17.1	17	16.5	15.9	15.3	14.9	15.7	18.5	21.4	23.2	24.5	25.4	26.3	26.9	27.7	28.7	29.1	28.6	26.9	24.1	21.8	20.3	19.4	18.7	21.8
3	18.2	17.6	16.9	16.5	16.3	16.1	17.1	19.6	22.3	24.2	25.7	26.9	27.7	28.1	29	29.7	30.3	29.7	27	24.3	22.5	21.4	20.8	20.4	22.8
4	20.1	20	19.7	19.6	19.5	19.2	19.1	19.5	20.4	22.6	25.2	28	29.9	31.2	31.1	29.1	26.6	24	22.3	21.1	19.8	18.8	18	17.4	22.6
5	16.9	16.4	16.1	15.9	15.6	15.3	15.5	17.7	19.7	21.3	22	23.6	25	24.5	23.5	22.6	22.4	22.5	20.1	18	16.7	15.8	15.1	14.7	19
6	14.5	14.2	13.8	13.9	13.9	13.8	14	15	17.5	22.3	26.2	28.4	28.9	28.6	27.4	24.6	22	19.1	19.3	18.2	16.7	15.6	14.9	14.5	19
7	14.2	14	13.8	13.6	13.7	13.7	14.7	17.5	21	24.5	27.5	29.3	30.1	30	30.6	31.1	31.2	30.5	28	24.8	22.5	21.2	20.5	20	22.4
8	19.7	19.6	19.3	18.8	18.5	18.4	18.9	20.6	21.8	22.2	22.6	23	22.1	22.5	22.6	22.8	22.5	23.2	23	22	21.2	20.8	20.7	20.8	21.2
9	21.1	21.3	21.5	21.8	22	22.3	22.6	23.1	22.1	22.3	24.6	26.6	27.4	28.1	29.3	29.9	30	29	25.9	23.3	21.4	19.6	17.7	16.2	23.7
10	15.1	14.2	13.5	13.2	13.2	12.9	13.9	17.2	19.7	22.6	24.4	25.3	25.7	26	23.8	21.3	19.5	18.5	17.7	16	14.2	12.9	12.5	12	17.7
11	11.7	10.9	9.9	9.8	10.1	10.6	11.7	13.4	15.3	16.9	17.6	17.7	17.5	17.4	19.1	19.6	19.5	19.1	18.7	16.9	15.3	14.5	14.1	13.8	15
12	13.7	13.3	13.1	12.9	12.6	12.1	12.3	12.9	14	14.3	13.6	12.1	12	13.1	13.5	13.6	12.6	11.5	10.9	10.3	9.8	9.6	9.7	9.7	12.2
13	9.3	9.1	9.1	9.1	8.5	8	9.1	11.9	15.1	17.3	18.9	19.8	20.2	20.5	21.2	21.8	21.6	20.6	18.4	15.1	11.8	9.6	8.1	7.4	14.2
14	6.8	6.1	5.6	5.1	5	5.4	7.8	12.6	16.7	20.3	23.6	25.3	26.2	26.9	27.4	27	26	24.7	22.8	21.2	19.9	18.9	18.2	17.9	17.4
15	17.7	17.5	17.3	17.1	16.8	16.2	16.9	18.8	20.5	22.7	24.3	26	27.6	28.9	28.8	28.4	27.9	26.8	25.5	24	22.8	22	21.4	20.7	22.4
16	20.3	19.5	18.8	18.6	18.5	18.6	19	19.4	19.4	19.4	20.1	21.6	23	25.3	27.2	28.8	29.1	28.6	27.3	23.8	20.7	19.7	18.8	18.3	21.8
17	17.6	16.1	14.7	13.3	11.9	11.1	12.3	15.3	18.3	20.9	23	24.2	24.1	24.2	24.7	25.6	26	25.9	24.8	21.9	18.9	17.2	16.6	16.1	19.4
18	15.7	15.5	15.2	15.1	14.8	14.6	15.3	17.3	20.9	23.8	26	27.3	27.8	27.5	27.6	27.9	27.9	26.7	23.8	18.8	16.7	16	15.8	15.7	20.6
19	15.5	15.6	15.5	15.2	14.7	14.2	14.8	16.7	19.4	21.3	22.3	22.8	22.9	23.2	23.9	24.9	25.5	25.6	24.2	20.8	17.9	17.3	17.4	17.5	19.5
20	17.3	17.2	17	17	17.4	18.1	18.8	20.1	21.8	23.2	22.8	25.6	28.1	29.2	30.1	30.6	25.8	20.1	18.3	17.6	17.2	16.7	16.1	15.8	20.9
21	15.3	14.5	13.2	12.3	11.8	11.5	13	17	21.3	24.1	25.6	25.1	24.6	23.3	22.7	24.9	25.9	25.5	24.4	21.3	18	15.4	13.9	13.6	19.1
22	13.5	13.1	12.2	11.5	11	11	13.3	17.6	21.4	23.6	24.6	25.3	25.5	25.6	26.2	27	27.6	27.1	25.6	22.9	19.5	16.9	15.7	15.1	19.7
23	14.8	14.9	14.6	14.2	13.8	14	15	16.3	18.3	21.5	24.1	26.9	27.9	28.1	28.5	29.4	29.1	27.2	24.1	20.8	18.1	16.6	16	16.3	20.4
24	16.6	16.6	16.5	16.2	15.9	15.5	15.4	15.3	15.3	16	20.6	24.3	25.5	24.7	25.1	26	26.7	26	24	20.5	17.5	15.4	13.4	12.2	19.2
25	11.3	10.9	10.8	10.7	11	11.3	13.8	17.5	21.2	23.8	26.1	27.8	28.7	29.1	28.4	27.5	28	27.4	25.7	22.5	19.3	17.6	16.6	15.5	20.1
26	14.5	14.3	14.3	13.7	12.9	12.9	15.7	19.8	23.1	25.3	26.7	28	28.4	28.8	29.6	30.4	30.7	30.1	28.1	25	22.4	21.1	20.3	19.8	22.3
27	19.5	19.1	18.9	18.7	18.4	18.3	19.4	21.6	23.8	25.9	27.7	29.1	30.3	30.9	31.6	32.5	33	32.7	31.1	27.9	25.3	23.8	23.2	22.7	25.2
28	22.2	21.2	19.7	19	18.8	18.8	18.9	18.5	16.9	15.9	15.8	15.7	15.3	14.7	14.1	14.9	15.9	15.9	15.4	14.8	14	13.3	12.5	11.5	16.4
29	10.2	9	8.3	8	8.1	8.2	10	13.8	18	21.4	23.6	24.6	24.4	24.4	24.5	24.6	24.9	24.6	23.1	20	16.8	15.3	14.2	13.4	17.2
30	12.7	11.8	11.1	10.9	10.4	10.7	13.8	19.2	23.7	27.2	30	31.1	30.5	29.7	30.1	30.4	29.5	29.2	27.7	25.5	23.4	22	21.2	20.7	22.2
31	20.4	20.3	20.4	20.8	21	21.3	22.1	24.5	27.2	29	30.4	31.8	32.3	32.8	33.7	33.7	33.3	32.7	31.6	29.1	27.1	26	25.3	24.7	27.1
Avg	15.6	15.2	14.7	14.4	14.2	14.2	15.2	17.5	19.8	21.9	23.6	24.9	25.5	25.8	26.1	26.3	26	25.1	23.5	21	19	17.7	16.9	16.5	20
S D	3.8	3.9	3.9	4	4	4	3.5	3	2.9	3.3	3.7	4.2	4.5	4.6	4.6	4.7	4.7	4.9	4.5	4	3.8	3.8	3.8	3.8	3.1
S/A	0.24	0.26	0.27	0.28	0.28	0.28	0.23	0.17	0.15	0.15	0.16	0.17	0.18	0.18	0.18	0.18	0.18	0.19	0.19	0.19	0.2	0.21	0.22	0.23	0.16
Min	6.8	6.1	5.6	5.1	5	5.4	7.8	11.9	14	14.3	13.6	12.1	12	13.1	13.5	13.6	12.6	11.5	10.9	10.3	9.8	9.6	8.1	7.4	12.2
Max	22.2	21.3	21.5	21.8	22	22.3	22.6	24.5	27.2	29	30.4	31.8	32.3	32.8	33.7	33.7	33.3	32.7	31.6	29.1	27.1	26	25.3	24.7	27.1
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.

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

May 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	0.9	0.5	1.1	1.5	1.3	1.2	1.6	3.1	3.8	3.4	3.6	3.8	3.9	4.2	4.6	4.9	4.8	4.3	3.7	3.4	3.5	3.3	2.8	3.2	3
2	3	3	2.4	2.1	1.7	1.9	2.7	4.1	5.8	6.2	6.2	5.6	5.7	5.5	5	4.4	4.1	2.9	1.7	2.4	2.9	3.1	3.4	3.7	3.7
3	2.9	2.4	2.5	3.1	2.9	2.6	3.8	4.8	5.9	5.8	4.5	4.5	4.9	4.4	4	3.3	3.1	3	3.4	3.1	3	3.1	2.7	2.7	3.6
4	2.7	2.7	2.6	2.5	2.1	2.3	3.4	2.8	3	3	2.6	1.7	1.8	1.6	1.8	3.8	3.3	2.7	2.2	2	2.2	2.2	2.5	2.2	2.5
5	2.1	1.8	1.6	2.3	1.2	1.3	2.1	2.4	3.4	3.6	3.9	3.6	3.2	2.8	2.6	2.7	3	2.7	2.8	2.4	2.2	2.5	1.3	1.2	2.4
6	1	0.1	0.2	0.1	0.6	0.3	0.2	0.2	0.4	0.8	1.1	1.8	1.6	2.3	3.5	3.4	1.8	1.9	1.2	1.4	0.9	1	1.1	0.9	1.2
7	0.9	0.9	0.6	1.9	1.8	1.7	2.2	2.4	2.6	2.1	2.6	2.6	3.2	3.6	3.4	3.6	3.2	3.1	3.4	3.2	3.2	4	4.3	4.4	2.7
8	4.4	4	3.3	3.3	3.4	3.6	4.1	4.7	4.5	4.7	4.9	4.9	4	4.3	2.4	2	1.8	2.6	2.4	2.4	3.1	3.3	3.6	3.6	3.6
9	3.5	3.7	3.6	4	3.7	3.9	4.4	3.8	3.6	5.1	5.6	6.8	5.9	6.3	6.9	6.3	5.3	4.3	3.6	2.3	2.8	2.9	2.7	1.9	4.3
10	1.6	0.7	0.8	0.6	1.1	0.2	0.4	0.8	1.2	1.8	2.8	3.5	2.9	4.6	4.7	4.6	3.9	3.7	2.9	2.3	1.1	1.6	1.8	1.6	2.1
11	1	0.1	0.6	1	1.6	2.4	3.1	4	4.1	4.2	4.1	3.8	4.2	5.9	8.9	8.3	9	7.2	7.7	1.3	0.5	1.1	2	2.8	3.7
12	3.2	3.2	3	3.4	3.9	4.1	4.5	6	7	6.5	6.2	5.9	6.7	5.8	5.5	4.8	4.5	4.5	4.1	3.5	3.3	3.7	3.9	3.8	4.6
13	2.3	1.8	1.3	1.9	1.8	2.3	2.2	3	4.7	4.9	6.2	6.2	6.3	5.5	5	4.5	4.7	3.9	2.7	1.1	0.3	0.1	0.3	0.3	3.1
14	0	0.1	0	0	0.6	0.5	1.2	2.4	3.2	2.6	3.1	3.1	2.7	3	3.2	2.8	2	1.9	1.6	1	0.8	1	1.3	1.9	1.7
15	1.8	1.6	2.1	1.7	1.4	1.4	3	3.4	3.6	4.1	3.7	3.4	3.4	3.2	3.6	3.8	2.7	2.2	1.8	2	1.7	1.7	1.5	1.8	2.5
16	2.9	0.5	0.6	0.4	1.2	1.3	2.4	2.4	2.4	2.9	4	3.8	5.1	5.3	5.5	6	5	4.1	3.3	2.6	1.6	2.3	2.2	4.4	3
17	4	3.6	3.3	2.4	2.1	1.8	2.2	2.4	2.8	2.5	2.5	2.8	3.1	3.9	4.1	4.4	4.4	3.6	2.6	1.4	1.4	2.1	3	3	2.9
18	3.3	3.4	3.5	3.3	2.6	2.1	2.6	3.9	4.1	4.1	5.1	5.8	6.6	7.2	6.6	6	6.2	5.1	4.9	3.7	3.3	3	3.7	3	4.3
19	2.5	2.3	2.1	2.2	2.3	2.6	3.4	3.4	4.5	5.3	5.9	7.1	6.4	6.8	6.3	5.3	4.1	3.2	1.3	0.1	0.2	0.6	1.8	1.7	3.4
20	1.1	1.7	1.6	1.8	3.5	2.8	2.8	3.7	4.9	4.5	4.4	5.8	6.7	5.9	5.8	6.2	3.3	1.3	0.3	0.2	1.7	2.3	1.6	1	3.1
21	0.7	0	0	0	0.2	0	0.4	1	1.5	1.8	2.3	2.2	3	1.3	3	3.1	3.9	2.6	1.6	0.8	0.5	0.4	1	1.2	1.4
22	1.4	0.9	1	1.2	1.2	1.2	0.9	1.6	3	4.8	4.8	4.1	4.3	4.5	3.4	3.7	3.8	3.2	1.8	0.7	0.3	0.5	1	1.4	2.3
23	2	1.7	2.2	2	1.6	1.5	1.7	1.3	2.1	2	1.6	1.7	1.3	1.7	1.7	1.8	2.7	2.3	2.7	2.5	2.2	1.1	1.5	1.3	1.8
24	1.5	1.3	1.2	0.2	0.3	1	0.7	0.7	0.4	1.1	1.6	1.8	2.9	3.4	2.9	2.8	2.8	2.6	2.1	1.4	0.9	0.3	0.5	0.3	1.4
25	0.3	1	0.6	1.7	1.2	1.6	1.5	1.7	3.1	3	2.3	2.2	2.5	2.3	3.5	3.4	3.2	3	2.2	2.1	1.8	1.8	1.3	0.8	2
26	1.2	1.3	0.7	0.1	0.2	0.7	1.5	2.9	4.1	4.7	3.8	4.3	4.3	4.4	4.4	4.2	4.1	4.2	3.6	3	3.1	3	3.6	3.7	3
27	3.4	3	3.4	3.1	3.1	3.4	4	5.5	5.6	5.7	5.7	4.9	4.7	4.9	4.7	4.5	4.1	3.7	3	3.2	3.1	3.3	3.1	3.1	4
28	2.9	3.1	2.7	1.9	2.1	1.7	1.4	6.1	5.2	4.5	4.8	4.7	4.4	3.7	3.6	4.4	4.1	3	2.4	1.6	1.7	1.6	1.2	0.6	3
29	0.5	0.5	0.2	0.9	0.9	0.3	0.6	2.1	2.2	2.6	2.5	3.2	2.7	3.4	3.9	3.3	2.8	2.8	2.6	1.5	1.5	1.3	0.9	0.7	1.8
30	0.3	0.1	0.3	0	0.1	0.2	0.5	1.7	1.6	1.4	1.1	2.5	2.9	3.4	3.4	5	3.7	3.6	3.4	3.1	3.2	2.7	2.5	2.4	2.1
31	1.9	2.3	2.7	2.7	3.3	3.1	2.9	3.4	3.9	4.7	4.2	4.6	4.9	4.8	5.3	5.4	4.5	3.6	3	2.7	3.2	3.4	3.3	3.4	3.6
Avg	2	1.7	1.7	1.7	1.8	1.8	2.2	3	3.5	3.7	3.8	4	4.1	4.2	4.3	4.3	3.9	3.3	2.8	2.1	2	2.1	2.2	2.2	2.8
SD	1.2	1.2	1.2	1.2	1.1	1.1	1.3	1.5	1.6	1.6	1.5	1.6	1.6	1.5	1.6	1.4	1.4	1.1	1.3	1	1.1	1.1	1.1	1.2	0.9
S/A	0.6	0.72	0.7	0.67	0.61	0.63	0.57	0.51	0.46	0.42	0.41	0.39	0.38	0.37	0.37	0.33	0.36	0.34	0.47	0.47	0.55	0.54	0.5	0.56	0.32
Min	0	0	0	0	0.1	0	0.2	0.2	0.4	0.8	1.1	1.7	1.3	1.3	1.7	1.8	1.8	1.3	0.3	0.1	0.2	0.1	0.3	0.3	1.2
Max	4.4	4	3.6	4	3.9	4.1	4.5	6.1	7	6.5	6.2	7.1	6.7	7.2	8.9	8.3	9	7.2	7.7	3.7	3.5	4	4.3	4.4	4.6
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

May 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	160	160	149	142	157	152	148	154	167	173	179	174	184	186	178	176	171	169	171	181	185	189	195	202	175
2	197	204	200	202	204	204	213	225	225	222	225	226	221	219	218	217	223	220	183	177	181	190	197	208	213
3	213	210	208	225	225	227	232	234	235	234	233	218	222	213	210	203	208	166	168	178	188	189	187	185	212
4	194	196	201	207	199	214	231	230	223	240	253	234	250	238	55	60	50	61	50	48	45	42	48	42	196
5	52	44	43	51	15	31	38	46	52	62	65	66	63	61	71	70	62	70	74	72	73	67	55	37	59
6	43	9	317	309	306	327	353	338	302	293	19	62	77	120	134	121	108	135	142	153	170	182	198	203	122
7	214	209	214	222	225	226	229	246	253	229	223	206	212	186	191	193	187	192	184	186	191	198	203	207	206
8	206	208	207	212	207	210	215	221	228	226	223	230	222	223	218	204	170	170	154	160	171	182	185	184	206
9	185	186	181	183	185	188	191	199	186	199	210	227	239	249	251	263	268	311	317	315	349	351	360	8	232
10	359	10	10	235	223	284	315	358	85	150	218	264	307	18	31	28	11	352	12	26	18	38	55	76	10
11	91	291	110	100	88	82	98	100	103	96	99	93	91	105	130	127	128	132	174	225	152	202	249	256	122
12	267	266	260	257	270	269	269	270	266	276	281	281	292	295	301	301	301	317	314	320	316	321	320	332	289
13	327	309	303	314	299	302	306	316	344	355	357	356	1	360	32	49	55	62	67	83	174	215	223	238	2
14	38	48	0	0	254	220	229	251	263	272	260	258	250	223	239	228	194	213	220	199	189	203	196	195	235
15	201	206	219	202	208	202	215	232	241	244	242	256	252	248	241	240	227	218	210	216	213	203	192	202	228
16	228	243	146	170	146	172	195	188	176	204	225	234	246	243	240	236	234	232	241	261	284	356	341	329	237
17	323	318	302	295	296	292	298	287	287	293	283	249	253	236	238	234	235	232	226	205	183	187	203	203	258
18	212	222	223	223	224	215	213	226	219	213	211	203	223	218	222	225	234	234	295	263	242	222	227	237	226
19	239	245	243	255	257	264	268	272	278	278	273	267	266	260	270	272	276	276	287	274	138	155	140	140	265
20	138	129	141	141	147	167	173	189	204	226	222	230	224	226	230	256	288	304	211	215	44	53	39	15	213
21	11	0	222	283	256	229	233	210	158	144	201	202	207	316	277	291	298	301	279	253	229	209	222	225	250
22	274	294	246	248	270	273	272	279	270	276	278	280	262	270	272	274	276	269	255	246	210	284	272	37	273
23	66	62	50	48	49	19	31	17	14	26	32	37	298	266	305	28	108	119	107	127	126	107	122	102	63
24	80	86	111	335	252	264	283	314	284	247	301	273	26	41	37	57	65	71	61	79	88	207	233	252	45
25	260	259	266	280	289	281	291	293	302	306	308	294	302	2	89	92	69	75	77	106	131	132	133	148	7
26	158	144	150	206	170	242	224	238	227	222	215	206	197	194	190	181	183	177	168	173	184	193	198	198	196
27	199	203	206	209	216	215	215	227	221	222	222	208	208	220	230	223	210	208	182	189	189	201	201	210	212
28	222	223	208	208	224	235	286	43	37	24	36	36	42	46	52	46	49	43	48	43	32	33	40	353	39
29	308	311	324	347	342	335	331	349	24	65	104	104	99	103	119	119	122	116	132	135	144	142	148	152	103
30	143	146	208	229	228	172	176	202	210	234	214	162	168	174	147	110	106	125	149	170	168	176	193	195	161
31	189	193	196	208	229	216	207	205	199	209	198	212	203	207	206	216	215	212	198	187	192	194	197	203	205
Avg	215	217	211	220	224	227	228	236	236	238	237	234	237	229	216	210	202	186	177	180	178	184	199	210	219
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

May 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	1.5	1	1.7	2.4	2	2	2.7	4.9	6.6	6.3	6	6.3	7	6.9	8	8.7	8.3	7.7	6.6	6.1	6.5	5.9	4.8	5.8	5.2
2	5.1	5.1	4.4	3.9	3.1	3.2	4.7	7.2	9.5	10.4	9.8	9.3	9.2	8.9	8.4	7.4	7	4.7	3.3	4.1	5.4	5.5	5.7	6.5	6.3
3	4.9	4.2	4.1	5.3	4.9	4.4	6.1	7.6	9.6	9	7.5	7.4	8	7.3	7	5.8	5.4	5.2	5.9	6	5.9	5.7	4.9	5	6.1
4	4.6	4.7	4.5	4.5	3.5	3.7	5.6	4.7	4.7	5	4.6	3.7	3.8	3.1	3.2	6.6	5.5	4.6	3.7	3.4	3.7	3.7	4.1	3.4	4.3
5	3.4	3	2.7	3.8	2.4	2.5	4.1	4.5	5.6	5.9	6.4	5.8	5.1	4.6	4.3	4.3	4.8	4.4	4.4	4	3.7	4.2	2.5	2.2	4.1
6	1.8	0.5	1	0.6	1.7	1.3	1.1	1.1	1.5	2	2.7	3.7	3.2	4	5.5	5.3	3	3.3	2.1	2.2	1.9	1.8	2	1.7	2.3
7	1.4	1.4	1.2	2.7	2.7	2.5	3.3	4.1	4.2	3.8	4.6	4.6	5.8	6.2	6.1	6.3	5.4	5.7	6	5.9	5.7	7.3	7.3	7.3	4.6
8	7.8	7.1	5.7	5.9	5.6	6.5	6.9	8.1	7.9	7.7	8.5	8.3	6.6	6.9	3.9	3.9	3.5	4.7	3.9	4.2	5.3	6.3	6.7	6.6	6.2
9	6.5	7.2	6.6	7.4	7.1	7	7.7	6.5	6.8	8.8	9.3	11	9.5	10.3	11.4	11.2	9.8	8.4	7.4	4.9	5.1	5.1	4.9	3.4	7.6
10	3	1.7	1.7	1.3	2.3	0.5	1.3	1.9	2.4	3.6	4.8	6.5	6	7.9	8.3	7.9	6.5	6.4	5.3	4.4	2.1	2.8	3.1	2.8	3.9
11	1.9	0.4	1.2	2	3	4	5.5	6.9	7.1	7.2	7	6.3	7	9.8	14.5	12.9	14.3	12.2	13.4	2.8	1.4	2.6	3.4	5.3	6.3
12	6.2	6.2	5.3	6.3	7.3	7.9	8.2	10.6	12.5	12.7	11.7	11.6	12.9	11.5	10.8	9.4	8.9	9.5	8	7.5	6.9	8	7.3	7.6	9
13	5.3	4.2	3.8	4.7	4.3	5	5.4	6.3	8.3	8.8	10.7	10.8	11	9.9	9	7.4	8	6.6	4.5	2	0.7	0.3	0.8	0.5	5.8
14	0.1	0.4	0	0	1	0.9	1.9	3.8	5.4	4.5	5.3	5.7	5.1	5.3	5.7	4.7	3.4	3.1	2.6	1.7	1.6	1.7	2.4	3.4	2.9
15	3.4	2.9	3.5	2.8	2.4	2.4	4.9	5.6	6	7	6.1	5.6	6	5.8	6.1	6	4.5	3.7	3.2	3.3	2.7	2.9	2.7	3.4	4.3
16	4.9	1.3	1.3	1.5	2.4	3	5	5.1	4.6	5.5	7	6.3	8.4	8.6	9.3	9.5	8.2	6.4	5.3	4.8	3.4	4.5	4.5	8.2	5.4
17	7.7	7.1	6.7	4.8	4.5	3.8	4.7	4.8	5.1	4.9	5	5.8	5.7	7	7.3	7.5	6.9	6.1	4.2	2.4	2.5	4	5.1	5.2	5.4
18	5.3	5.4	5.5	5.3	4.1	3.5	4.3	6.4	6.3	6.6	8.6	9.8	10.8	12.2	11	10.1	10.1	8.1	9.7	6.4	5.3	5	5.9	5.2	7.1
19	4.5	4	3.6	3.8	3.9	4.5	6	6.2	8	10.2	11.5	12.9	11.4	11.8	11.6	9.9	7.9	6.2	3	0.3	0.6	1.3	2.6	2.8	6.2
20	1.7	2.5	2.5	3	6	4.9	4.9	6.9	8.2	7.5	7.9	9.6	10.9	10.3	9.6	11.4	6.8	2.9	0.9	0.8	3.2	4	3.3	2.4	5.5
21	1.6	0	0.1	0.2	0.6	0.3	1.1	2	2.9	3.7	4.3	4	5.4	2.8	6.3	6.1	7.4	5.2	3.3	1.4	1.1	0.8	1.5	1.9	2.6
22	2.3	1.7	1.4	1.8	1.9	1.9	1.8	3.4	5.6	9	8.6	8.1	7.9	8.8	6.2	7	7.4	5.8	3.1	1.4	0.8	1	2	2.2	4.2
23	3.1	2.5	3.6	3.3	2.7	2.7	3.1	2.4	3.9	3.6	3.4	3.6	3	4	3.9	4.1	4.4	3.6	4.4	3.7	3.4	1.8	2.4	2.1	3.3
24	2.5	2.4	2.1	0.6	0.7	1.8	1.5	1.7	1.3	2.2	3.4	3.9	5.2	5.9	5.4	4.9	5	4.4	3.7	2.3	1.5	0.8	0.8	0.6	2.7
25	0.7	1.3	1.2	2.9	2.3	2.9	3	3.8	5.8	5.7	4.2	4.2	5.2	4.6	5.9	5.9	5.4	4.4	3.6	3.2	2.9	3.1	2.2	1.4	3.6
26	1.8	1.9	1.3	0.7	0.6	1.2	2.6	4.7	6.3	7.5	6.7	7.4	7.5	7.5	7.2	7.6	7.3	7.5	6.7	5.5	6.1	5.4	6.2	6.5	5.2
27	5.6	5.1	6.2	5.3	5.3	6.2	7.1	8.8	9.1	9.1	9.1	7.9	8.1	8	7.8	7.5	6.7	6.3	5.5	5.6	5.8	5.5	5.4	5.5	6.8
28	4.9	5.1	4.5	3.3	3.3	2.9	3.5	10.5	9.3	8.4	8.8	8.2	8.1	6.7	6.8	8.1	7.1	5.4	4.2	3	3.3	2.9	2.2	1.3	5.5
29	1.1	1.1	0.9	1.9	1.7	1.3	1.9	3.5	3.7	4.5	4.5	5.3	4.9	5.6	6.4	5.6	4.9	4.4	3.9	2.4	2.4	2.2	1.5	1.1	3.2
30	0.7	0.5	0.6	0.2	0.3	0.7	1.2	2.9	2.9	3.1	2.6	4.8	5	5.7	6.3	7.6	6.1	5.7	5.6	5.4	5.6	5.1	4.7	4.4	3.6
31	3.5	4.2	4.9	5.1	5.3	5.2	4.9	5.7	6.3	7.8	6.8	7.9	8	8.4	9.1	9.3	8.1	6.2	5.1	4.7	5.5	6.2	5.4	6	6.2
Avg	3.5	3.1	3	3.1	3.2	3.2	4.1	5.2	6	6.5	6.7	7	7.2	7.3	7.5	7.4	6.7	5.8	4.9	3.8	3.6	3.8	3.8	3.9	5
SD	2.1	2.2	2	2	1.9	2	2.1	2.4	2.6	2.6	2.5	2.5	2.5	2.5	2.6	2.3	2.3	2	2.4	1.8	1.9	2.1	1.9	2.2	1.6
S/A	0.6	0.71	0.67	0.64	0.59	0.61	0.51	0.46	0.43	0.4	0.38	0.37	0.35	0.35	0.34	0.31	0.34	0.35	0.49	0.49	0.54	0.54	0.5	0.57	0.32
Min	0.1	0	0	0	0.3	0.3	1.1	1.1	1.3	2	2.6	3.6	3	2.8	3.2	3.9	3	2.9	0.9	0.3	0.6	0.3	0.8	0.5	2.3
Max	7.8	7.2	6.7	7.4	7.3	7.9	8.2	10.6	12.5	12.7	11.7	12.9	12.9	12.2	14.5	12.9	14.3	12.2	13.4	7.5	6.9	8	7.3	8.2	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.

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

May 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	1019	1019	1019	1019	1019	1020	1020	1021	1021	1021	1021	1020	1019	1018	1017	1017	1017	1017	1017	1017	1017	1017	1017	1018	1019	
2	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1017	1017	1016	1016	1015	1015	1014	1014	1014	1015	1015	1016	1016	1016	1016	1016
3	1016	1015	1015	1015	1015	1015	1016	1016	1016	1015	1015	1015	1014	1013	1012	1012	1011	1011	1010	1011	1012	1012	1012	1012	1014	
4	1012	1011	1011	1011	1011	1011	1012	1012	1013	1013	1013	1013	1012	1012	1011	1011	1012	1012	1012	1013	1013	1014	1014	1014	1012	
5	1014	1013	1013	1013	1014	1014	1015	1015	1015	1016	1016	1016	1016	1016	1015	1014	1014	1014	1014	1015	1015	1014	1014	1015	1015	
6	1014	1014	1014	1014	1014	1015	1015	1015	1015	1016	1016	1016	1015	1015	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015	
7	1015	1014	1014	1014	1014	1015	1015	1016	1016	1016	1016	1016	1015	1014	1013	1013	1012	1012	1012	1012	1012	1012	1012	1012	1014	
8	1011	1010	1010	1010	1010	1010	1011	1011	1012	1012	1012	1011	1011	1010	1010	1010	1009	1009	1009	1008	1008	1007	1007	1006	1010	
9	1006	1005	1004	1003	1003	1002	1002	1002	1000	1000	1000	999	999	998	997	998	999	1000	1001	1002	1003	1003	1004	1004	1001	
10	1004	1003	1003	1003	1004	1004	1004	1005	1005	1004	1004	1004	1004	1005	1006	1007	1008	1009	1010	1010	1011	1011	1011	1011	1006	
11	1010	1010	1010	1009	1009	1009	1008	1009	1008	1008	1007	1005	1003	1000	998	995	993	991	990	992	992	992	991	991	1001	
12	991	991	991	991	992	992	993	993	993	993	994	995	995	997	998	1000	1001	1003	1004	1006	1007	1008	1008	1009	998	
13	1009	1009	1010	1010	1011	1012	1013	1014	1014	1015	1016	1016	1016	1016	1016	1017	1017	1017	1018	1018	1019	1019	1019	1018	1015	
14	1018	1018	1017	1017	1018	1018	1019	1019	1019	1019	1018	1018	1018	1017	1017	1016	1015	1015	1016	1015	1015	1015	1015	1015	1017	
15	1015	1014	1014	1014	1013	1014	1014	1014	1014	1014	1014	1013	1013	1013	1012	1012	1011	1011	1011	1012	1012	1011	1010	1009	1013	
16	1010	1009	1008	1008	1007	1006	1006	1005	1004	1003	1002	1001	1001	1001	1000	999	999	999	999	1000	1000	1002	1002	1003	1003	
17	1003	1003	1004	1004	1005	1006	1007	1007	1007	1007	1007	1007	1006	1005	1005	1004	1004	1004	1004	1004	1004	1004	1004	1004	1005	
18	1003	1003	1002	1002	1002	1002	1002	1002	1001	1001	1000	999	997	996	996	995	995	995	998	998	999	999	998	999	999	
19	999	999	999	1000	1000	1002	1003	1003	1004	1004	1004	1003	1003	1003	1003	1004	1004	1004	1004	1005	1005	1006	1005	1005	1003	
20	1004	1004	1002	1002	1000	1000	999	998	997	997	996	996	995	994	993	994	995	995	996	997	998	999	999	1000	998	
21	1000	999	999	999	1000	1000	1001	1001	1001	1001	1001	1001	1000	1000	1000	1000	1000	1000	1001	1002	1002	1003	1003	1003	1001	
22	1003	1003	1003	1003	1003	1004	1005	1006	1006	1006	1006	1005	1005	1005	1005	1005	1006	1007	1007	1007	1008	1009	1009	1010	1006	
23	1010	1010	1010	1011	1011	1012	1012	1013	1014	1014	1014	1014	1013	1013	1012	1012	1011	1011	1012	1012	1013	1013	1013	1013	1012	
24	1013	1013	1012	1012	1012	1013	1013	1014	1014	1014	1014	1014	1013	1013	1013	1013	1013	1013	1014	1014	1015	1015	1015	1015	1013	
25	1015	1014	1015	1015	1016	1016	1017	1018	1018	1018	1018	1018	1018	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1017	
26	1017	1017	1017	1017	1018	1018	1019	1019	1019	1019	1018	1017	1017	1016	1015	1015	1014	1014	1014	1015	1015	1016	1016	1015	1017	
27	1015	1014	1014	1014	1015	1015	1015	1015	1015	1015	1015	1014	1014	1013	1013	1012	1012	1012	1012	1012	1013	1013	1013	1013	1014	
28	1013	1013	1013	1013	1013	1014	1015	1017	1018	1019	1019	1020	1020	1020	1020	1020	1021	1021	1021	1021	1021	1022	1022	1022	1018	
29	1022	1021	1021	1021	1021	1022	1022	1022	1022	1022	1022	1022	1021	1021	1021	1020	1020	1019	1019	1019	1019	1020	1020	1020	1021	
30	1019	1019	1018	1018	1019	1020	1020	1020	1020	1021	1020	1019	1019	1018	1017	1017	1017	1016	1016	1016	1017	1017	1017	1017	1018	
31	1016	1016	1015	1015	1015	1015	1015	1015	1014	1014	1013	1013	1011	1010	1009	1008	1008	1008	1009	1009	1009	1010	1010	1009	1012	
Avg	1011	1010	1010	1010	1010	1011	1011	1011	1012	1011	1011	1011	1010	1010	1009	1009	1009	1009	1009	1010	1010	1011	1011	1011	1010	
SD	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Min	991	991	991	991	992	992	993	993	993	993	994	995	995	994	993	994	993	991	990	992	992	992	991	991	998	
Max	1022	1021	1021	1021	1021	1022	1022	1022	1022	1022	1022	1021	1021	1021	1020	1020	1021	1021	1021	1021	1021	1022	1022	1022	1021	
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

May 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	11.6	11.5	11.5	11.4	11.3	11.4	12.6	13.4	13.4	13.3	13.3	13.3	13.3	13.2	13.2	13.2	13.2	12.9	12.7	12.4	12.2	12.1	11.9	11.8	12.5
2	11.7	11.7	11.6	11.5	11.4	11.4	12.5	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.1	12.9	12.7	12.5	12	11.6	11.4	11.3	12.4
3	11.2	11.3	11.3	11.3	11.3	11.3	12.5	13.3	13.2	13.2	13.2	13.2	13.2	13.1	13.1	13.1	13.1	12.9	12.7	12.4	12.2	12.1	11.9	11.8	12.4
4	11.7	11.6	11.6	11.5	11.4	11.4	11.5	12.1	13.1	13.2	13.2	13.2	13.1	13.1	13	13.1	13.1	12.8	12.4	12.2	12	11.9	11.8	11.7	12.3
5	11.6	11.5	11.4	11.4	11.3	11.3	12.5	13.4	13.3	13.3	13.3	13.2	13.2	13.3	13.3	13.3	13.3	12.9	12.5	12	11.6	11.5	11.4	11.3	12.4
6	11.4	11.3	11.3	11.3	11.2	11.2	11.6	12.8	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13	12.6	12.3	11.8	11.6	11.4	11.4	11.3	11.3	12.1
7	11.3	11.3	11.2	11.3	11.3	11.3	12.3	13.3	13.2	13.1	13.1	13	13.1	13.1	13	13.1	12.9	12.6	12.2	12.1	11.9	11.8	11.8	11.7	12.3
8	11.6	11.6	11.6	11.5	11.5	11.5	12.3	12.9	12.8	13	13.2	13.2	13.2	13.1	13.1	12.8	12.9	12.5	12.2	12	11.9	11.8	11.8	11.7	12.3
9	11.7	11.6	11.5	11.5	11.5	11.5	11.8	11.5	12.1	13	13.2	13.1	13.1	13.1	13.1	13.1	12.9	12.4	12.1	12	11.9	11.8	11.7	11.6	12.2
10	11.6	11.5	11.4	11.4	11.4	11.4	12.6	13.3	13.3	13.2	13.2	13.2	13.2	13.1	13.1	13.3	13.3	12.9	12.3	12.1	11.9	11.8	11.7	11.7	12.4
11	11.6	11.5	11.5	11.4	11.4	11.5	12.1	12.8	13.2	13.2	12.9	12.5	12.7	13.4	13	12.7	12.3	12.1	11.9	11.8	11.7	11.6	11.6	11.5	12.2
12	11.4	11.4	11.3	11.3	11.3	11.4	11.8	13.1	13.2	13	12.8	13	13.5	13.3	13.1	12.6	12.4	12.4	12	11.8	11.7	11.6	11.6	11.5	12.2
13	11.5	11.4	11.3	11.3	11.2	11.3	12.6	13.5	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.3	12.8	12.3	12	11.8	11.7	11.6	11.4	11.4	12.3
14	11.3	11.3	11.2	11.2	11.2	11.3	12.6	13.5	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.2	12.9	12.5	12.1	12	11.9	11.8	11.7	11.7	12.3
15	11.6	11.6	11.5	11.5	11.4	11.5	12.4	13.1	13.3	13.2	13.2	13.2	13.1	13.1	13.1	13.2	13.2	13	12.5	12.2	12.1	11.9	11.8	11.7	12.4
16	11.7	11.6	11.6	11.5	11.4	11.4	11.5	11.7	11.7	12.3	12.9	12.8	13.2	13.2	13.1	13.1	13.1	13	12.6	12.3	12.1	12	11.8	11.7	12.2
17	11.6	11.5	11.5	11.4	11.3	11.4	12.6	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	12.9	12.4	12.1	11.8	11.8	11.7	11.6	11.6	12.4
18	11.5	11.5	11.4	11.4	11.2	11.4	12.1	13.3	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.4	12.1	12	11.8	11.7	11.7	11.6	12.3
19	11.6	11.5	11.5	11.4	11.4	11.3	12.5	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	12.8	12.3	12.1	12	11.8	11.8	11.7	11.6	12.4
20	11.5	11.4	11.5	11.4	11.4	11.3	11.7	12.3	12.8	12.4	13.2	13.1	13.1	13.1	13.1	12.8	12.2	12	11.9	11.8	11.7	11.6	11.6	11.5	12.1
21	11.4	11.4	11.3	11.2	11.1	11.3	12.6	13.4	13.2	13.2	13.2	13.2	13.1	12.8	13.2	13.2	13	12.6	12.2	12	11.9	11.8	11.7	11.6	12.3
22	11.6	11.5	11.4	11.4	11.3	11.4	12.6	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.1	12.8	12.4	12.2	12	11.9	11.8	11.7	11.6	12.3
23	11.6	11.5	11.4	11.4	11.3	11.6	12.4	12.5	13.3	13.3	13.2	13.1	13.1	13.1	13.1	13.1	12.9	12.6	12.3	12	11.9	11.8	11.7	11.6	12.3
24	11.6	11.5	11.5	11.4	11.4	11.3	11.3	11.5	11.9	13.3	13.2	13.1	13.1	13.2	13.2	13.2	12.7	12.3	12.1	11.9	11.8	11.7	11.6	11.5	12.1
25	11.5	11.4	11.3	11.3	11.2	11.5	12.7	13.4	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	12.7	12.4	12.1	12	11.8	11.7	11.6	11.6	12.3
26	11.5	11.3	11.4	11.3	11.2	11.4	12.7	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.7	12.3	12.1	12	11.9	11.8	11.7	11.6	12.3
27	11.6	11.5	11.5	11.4	11.4	11.5	12.5	13.3	13.2	13.1	13.1	13.1	13.1	13	13	13	12.7	12.4	12.1	12	11.9	11.8	11.7	11.7	12.3
28	11.6	11.5	11.5	11.4	11.3	11.3	11.3	11.4	11.6	12.1	12.9	12.7	12.9	12.7	13.2	13.3	12.6	12.2	11.8	11.6	11.5	11.5	11.4	11.3	11.9
29	11.2	11.1	11.1	11	11	11.2	12.6	13.5	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	12.5	12.2	12	11.8	11.6	11.5	11.4	11.4	12.2
30	11.3	11.2	11.2	11.1	11.1	11.3	12.5	13.3	13.2	13.1	13	13	13.1	13.1	13.1	13.1	12.5	12.2	12	11.8	11.7	11.6	11.5	11.4	12.2
31	11.4	11.4	11.3	11.3	11.3	11.4	12.5	13.2	13.1	13.1	13	13	13	13	13	13	12.7	12.4	12	11.8	11.7	11.7	11.6	11.6	12.2
Avg	11.5	11.5	11.4	11.4	11.3	11.4	12.2	13	13	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.8	12.5	12.2	12	11.8	11.7	11.6	11.6	12.3
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.6	0.5	0.3	0.1	0.2	0.1	0.1	0.1	0.2	0.3	0.3	0.3	0.2	0.2	0.2	0.1	0.1	0.1
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.04	0.05	0.04	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.01	0.01	0.01	0.01
Min	11.2	11.1	11.1	11	11	11.2	11.3	11.4	11.6	12.1	12.8	12.5	12.7	12.7	13	12.6	12.2	12	11.8	11.6	11.4	11.4	11.3	11.3	11.9
Max	11.7	11.7	11.6	11.5	11.5	11.6	12.7	13.5	13.4	13.4	13.3	13.3	13.5	13.4	13.3	13.3	13.3	13	12.7	12.5	12.2	12.1	11.9	11.8	12.5
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.

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