

January 2006

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	32	134	212	241	341	392	410	316	148	34	0	0	0	0	0	0	0	2261
2	0	0	0	0	0	0	0	26	97 ?	191	187	283	193	172	35	25	4	0	0	0	0	0	0	0	1213
3	0	0	0	0	0	0	0	19	37	46	51	77	86	48	47	37	8	0	0	0	0	0	0	0	456
4	0	0	0	0	0	0	0	5	24	60	103	105	112	103	83	39	11	0	0	0	0	0	0	0	646
5	0	0	0	0	0	0	0	9	71	152	312	350 ?	?	?	277 ?	180	44	0	0	0	0	0	0	0	1395 ?
6	0	0	0	0	0	0	0	11	27	78 ?	71	91	73	53	88	113	19	0	0	0	0	0	0	0	624
7	0	0	0	0	0	0	0	30	106 ?	?	?	?	?	?	276 ?	142	41	0	0	0	0	0	0	0	594 ?
8	0	0	0	0	0	0	0	29	99 ?	?	?	?	?	?	327 ?	294 ?	150 ?	50	0	0	0	0	0	0	950 ?
9	0	0	0	0	0	0	0	28	100 ?	?	?	?	?	?	346 ?	187	59	6	0	0	0	0	0	0	726 ?
10	0	0	0	0	0	0	0	32	149	267	413	486	506	460	331	176	47	5	0	0	0	0	0	0	2873
11	0	0	0	0	0	0	0	19	107	250	395	417	378	240	144	87	37	12	0	0	0	0	0	0	2086
12	0	0	0	0	0	0	0	22	59	133	163	222	467	477	372	213	61	3	0	0	0	0	0	0	2191
13	0	0	0	0	0	0	0	18	70	134	184	178	190	213	161	144	52	4	0	0	0	0	0	0	1350
14	0	0	0	0	0	0	0	11	50	145	147	411	261	121	82	34 ?	4	0	0	0	0	0	0	0	1265
15	0	0	0	0	0	0	0	36	180	361	497	579	594	544	433	264	88	4	0	0	0	0	0	0	3580
16	0	0	0	0	0	0	0	33	148	283	317	400	368	512	332	244	79	5	0	0	0	0	0	0	2721
17	0	0	0	0	0	0	0	22	115	229	383	453	496	392	157	125	68	5	0	0	0	0	0	0	2445
18	0	0	0	0	0	0	0	3	18	35	133	375	556	362	441	275	97	7	0	0	0	0	0	0	2303
19	0	0	0	0	0	0	0	37	175	349	479	558	495	510	356	290	95	4	0	0	0	0	0	0	3348
20	0	0	0	0	0	0	0	33	178	336	495	579	592	529	423	255	81	6	0	0	0	0	0	0	3508
21	0	0	0	0	0	0	0	29	201	336	346	444	178	161	149	51	14	1	0	0	0	0	0	0	1910
22	0	0	0	0	0	0	0	13	67	163	131	215	168	109	48	32 ?	12	2	0	0	0	0	0	0	957
23	0	0	0	0	0	0	0	11	49	72	121	212	143	157	86	35	22	2	0	0	0	0	0	0	909
24	0	0	0	0	0	0	0	16	128	211	224	378	426	294	351	269	101	10	0	0	0	0	0	0	2407
25	0	0	0	0	0	0	0	39	192	374	512	595	429	359	276	206	125	17	0	0	0	0	0	0	3125
26	0	0	0	0	0	0	0	41	194	378	520	604	624	580	470	302	119	17	0	0	0	0	0	0	3849
27	0	0	0	0	0	0	0	43	200	385	523	602	616	569	458	296	114	13	0	0	0	0	0	0	3818
28	0	0	0	0	0	0	0	27	200	381	516	594	621	575	470	306	122	14	0	0	0	0	0	0	3826
29	0	0	0	0	0	0	0	25	114	123	85	107	111	113	95	99	40	14	0	0	0	0	0	0	929
30	0	0	0	0	0	0	0	15	59	130	134	218	146	204	214	159	51	8	0	0	0	0	0	0	1338
31	0	0	0	0	0	0	0	3	21 ?	33 ?	66	77	160	180	364	226	61	16	0	0	0	0	0	0	1206 ?
Avg	0	0	0	0	0	0	0	23	109	209	277	355	347	313	257	165	57	6	0	0	0	0	0	0	1962
S D	0	0	0	0	0	0	0	12	60	119	168	181	194	179	144	93	37	6	0	0	0	0	0	0	1110
S/A	0	0	0	0	0	0	0	0.5	0.56	0.57	0.61	0.51	0.56	0.57	0.56	0.56	0.66	1.01	0	0	0	0	0	0	0.57
Min	0	0	0	0	0	0	0	3	18	33	51	77	73	48	35	25	4	0	0	0	0	0	0	0	456
Max	0	0	0	0	0	0	0	43	201	385	523	604	624	580	470	306	125	17	0	0	0	0	0	0	3849
n	0	0	0	0	0	0	0	293	331	321	331	329	322	328	345	355	369	70	0	0	0	0	0	0	3394

Daylight Data Recovery: 0.0% missing; 0.0% untested; 8.5% exceed the 15% QC threshold -- 3710 total daylight measurements.

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

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

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

January 2006

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	145	287	127	75	122	225	395	376	165	123	0	0	0	0	0	0	0	2041
2	0	0	0	0	0	0	0	9	120 ?	62	1	17	0	8	0	0	1	0	0	0	0	0	0	0	218
3	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
4	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
5	0	0	0	0	0	0	0	0	0	9	115	96 ?	?	?	347 ?	354	121	0	0	0	0	0	0	0	1043 ?
6	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	14	0	0	0	0	0	0	0	16
7	0	0	0	0	0	0	0	179	354 ?	?	?	?	?	?	285 ?	114	117	0	0	0	0	0	0	0	1048 ?
8	0	0	0	0	0	0	0	109	277 ?	?	?	?	?	149 ?	98 ?	423 ?	182	3	0	0	0	0	0	0	1242 ?
9	0	0	0	0	0	0	0	100	254 ?	?	?	?	?	?	650 ?	405	195	3	0	0	0	0	0	0	1607 ?
10	0	0	0	0	0	0	0	128	346	376	513	576	625	576	445	275	6	0	0	0	0	0	0	0	3866
11	0	0	0	0	0	0	0	0	51	297	491	292	126	48	1	0	18	1	0	0	0	0	0	0	1325
12	0	0	0	0	0	0	0	0	0	0	1	2	515	723	678	558	214	0	0	0	0	0	0	0	2692
13	0	0	0	0	0	0	0	0	0	0	1	1	1	13	14	61	9	0	0	0	0	0	0	0	101
14	0	0	0	0	0	0	0	0	0	4	1	221	10	0	0	0	0	0	0	0	0	0	0	0	236
15	0	0	0	0	0	0	0	344	744	895	957	986	991	972	923	818	551	85	0	0	0	0	0	0	8267
16	0	0	0	0	0	0	0	278	366	357	311	315	208	727	484	637	328	1	0	0	0	0	0	0	4010
17	0	0	0	0	0	0	0	5	166	146	349	530	552	348	23	2	18	0	0	0	0	0	0	0	2140
18	0	0	0	0	0	0	0	0	0	1	34	282	729	469	841	802	542	111	0	0	0	0	0	0	3809
19	0	0	0	0	0	0	0	291	698	836	907	931	705	839	563	739	552	86	0	0	0	0	0	0	7148
20	0	0	0	0	0	0	0	224	595	689	888	924	915	820	684	405	92	0	0	0	0	0	0	0	6238
21	0	0	0	0	0	0	0	138	451	618	264	297	0	0	3	0	0	0	0	0	0	0	0	0	1771
22	0	0	0	0	0	0	0	0	0	2	0	3	0	0	0	0	1	0	0	0	0	0	0	0	6
23	0	0	0	0	0	0	0	0	0	0	1	6	0	1	0	0	0	0	0	0	0	0	0	0	9
24	0	0	0	0	0	0	0	0	64	46	1	48	136	20	396	663	452	99	0	0	0	0	0	0	1925
25	0	0	0	0	0	0	0	346	721	861	922	942	452	199	251	381	514	125	0	0	0	0	0	0	5714
26	0	0	0	0	0	0	0	343	711	861	927	951	952	941	896	787	550	182	0	0	0	0	0	0	8100
27	0	0	0	0	0	0	0	343	723	872	932	952	950	921	879	784	554	176	0	0	0	0	0	0	8088
28	0	0	0	0	0	0	0	101	653	831	897	896	921	906	865	774	548	144	0	0	0	0	0	0	7536
29	0	0	0	0	0	0	0	29	48	1	0	0	0	0	0	0	2	2	0	0	0	0	0	0	82
30	0	0	0	0	0	0	0	0	0	0	0	5	0	1	5	17	0	0	0	0	0	0	0	0	28
31	0	0	0	0	0	0	0	0	0	0	0	1	2	0	484	332	110	84	0	0	0	0	0	0	1014
Avg	0	0	0	0	0	0	0	100	246	282	307	336	334	324	329	306	187	36	0	0	0	0	0	0	2623
S D	0	0	0	0	0	0	0	128	280	358	389	389	382	379	339	313	222	59	0	0	0	0	0	0	2846
S/A	0	0	0	0	0	0	0	1.28	1.14	1.27	1.27	1.16	1.14	1.17	1.03	1.02	1.18	1.66	0	0	0	0	0	0	1.09
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	346	744	895	957	986	991	972	923	818	554	182	0	0	0	0	0	0	8267
n	0	0	0	0	0	0	0	293	350	336	336	330	323	328	348	367	371	70	0	0	0	0	0	0	3452

Daylight Data Recovery: 0.0% missing; 0.0% untested; 7.0% exceed the 15% QC threshold -- 3710 total daylight measurements.

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

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

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

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

**January 2006**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	20	64	156	191	275	217	160	120	110	23	0	0	0	0	0	0	0	1337
2	0	0	0	0	0	0	0	27	87 ?	172	187	270	193	167	35	25	4	0	0	0	0	0	0	0	1166
3	0	0	0	0	0	0	0	21	37	46	51	77	86	48	47	35	8	0	0	0	0	0	0	0	456
4	0	0	0	0	0	0	0	6	24	60	103	105	112	103	83	39	11	0	0	0	0	0	0	0	646
5	0	0	0	0	0	0	0	10	71	146	223	262 ?	?	?	98 ?	65	27	0	0	0	0	0	0	0	900 ?
6	0	0	0	0	0	0	0	11	27	49	71	91	73	53	88	113	18	0	0	0	0	0	0	0	594
7	0	0	0	0	0	0	0	14	30 ?	?	?	?	?	?	122 ?	90	24	0	0	0	0	0	0	0	279 ?
8	0	0	0	0	0	0	0	18	36 ?	?	?	?	?	?	194 ?	218 ?	39 ?	16	0	0	0	0	0	0	521 ?
9	0	0	0	0	0	0	0	18	37 ?	?	?	?	?	?	89 ?	73	32	5	0	0	0	0	0	0	254 ?
10	0	0	0	0	0	0	0	23	84	123	161	166	151	153	133	93	44	5	0	0	0	0	0	0	1136
11	0	0	0	0	0	0	0	21	95	130	161	249	299	212	144	87	36	11	0	0	0	0	0	0	1445
12	0	0	0	0	0	0	0	24	59	133	163	221	171	100	82	60	31	3	0	0	0	0	0	0	1047
13	0	0	0	0	0	0	0	20	70	134	184	178	190	210	155	130	51	4	0	0	0	0	0	0	1327
14	0	0	0	0	0	0	0	11	50	144	147	278	254	121	82	30	4	0	0	0	0	0	0	0	1121
15	0	0	0	0	0	0	0	12	31	42	48	49	49	47	44	36	20	3	0	0	0	0	0	0	381
16	0	0	0	0	0	0	0	18	86	133	164	208	233	124	119	57	32	5	0	0	0	0	0	0	1180
17	0	0	0	0	0	0	0	23	82	172	224	152	171	195	142	125	65	5	0	0	0	0	0	0	1356
18	0	0	0	0	0	0	0	3	18	35	104	211	142	116	75	42	25	6	0	0	0	0	0	0	776
19	0	0	0	0	0	0	0	19	34	48	47	47	85	62	92	74	20	3	0	0	0	0	0	0	531
20	0	0	0	0	0	0	0	18	51	75	66	66	68	85	109	119	61	6	0	0	0	0	0	0	725
21	0	0	0	0	0	0	0	22	99	106	206	270	178	161	148	51	14	1	0	0	0	0	0	0	1256
22	0	0	0	0	0	0	0	14	67	162	131	214	168	109	46	27	12	2	0	0	0	0	0	0	951
23	0	0	0	0	0	0	0	12	49	72	121	209	143	157	86	33	22	2	0	0	0	0	0	0	906
24	0	0	0	0	0	0	0	18	111	195	223	348	331	280	170	61	33	7	0	0	0	0	0	0	1777
25	0	0	0	0	0	0	0	15	35	46	53	60	154	238	148	93	44	13	0	0	0	0	0	0	900
26	0	0	0	0	0	0	0	17	38	50	56	60	62	59	54	46	30	9	0	0	0	0	0	0	481
27	0	0	0	0	0	0	0	19	39	48	53	55	53	49	39	25	7	0	0	0	0	0	0	0	440
28	0	0	0	0	0	0	0	18	49	56	60	72	66	61	58	47	30	8	0	0	0	0	0	0	523
29	0	0	0	0	0	0	0	29	103	123	85	107	111	113	95	99	40	14	0	0	0	0	0	0	921
30	0	0	0	0	0	0	0	15	59	130	134	217	146	204	214	152	51	8	0	0	0	0	0	0	1330
31	0	0	0	0	0	0	0	3	14 ?	29	59	77	150	180	138	96	50	11	0	0	0	0	0	0	806
Avg	0	0	0	0	0	0	0	17	56	100	124	164	150	134	106	71	29	5	0	0	0	0	0	0	886
S D	0	0	0	0	0	0	0	6	27	51	62	90	74	64	47	35	16	4	0	0	0	0	0	0	388
S/A	0	0	0	0	0	0	0	0.38	0.48	0.51	0.5	0.55	0.49	0.48	0.45	0.5	0.54	0.93	0	0	0	0	0	0	0.44
Min	0	0	0	0	0	0	0	3	14	29	47	47	49	47	35	25	4	0	0	0	0	0	0	0	254
Max	0	0	0	0	0	0	0	29	111	195	224	348	331	280	218	152	65	14	0	0	0	0	0	0	1777
n	0	0	0	0	0	0	0	268	347	333	335	330	323	329	348	368	370	70	0	0	0	0	0	0	3421

Daylight Data Recovery: 0.0% missing; 0.0% untested; 7.8% exceed the 15% QC threshold -- 3710 total daylight measurements.

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

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

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

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

**January 2006**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	8.8	7.7	7.1	6.3	5.2	4.7	4.6	4.3	5.4	7.8	8.9	10.3	11.3	12.4	13.2	12.9	12.5	10.6	8	7	6.3	5.9	5.6	5.3	8
2	4.8	4.3	3.8	4.1	4.9	5.3	5.6	6.2	7.4	9.7	11.3	12.7	13.1	13.7	12.9	11.9	12.9	14.5	15.2	15.5	16	16.1	16	15.6	10.6
3	15.5	15.3	14.7	14.7	14.6	14.5	14.6	14.7	13.2	12.1	11	10	9.6	9.5	9.2	8.8	8.4	7.9	7.5	7.6	6.9	6.4	6	5.8	10.8
4	5.6	5.3	5.2	5.1	5	4.9	4.9	4.9	4.9	4.9	5.4	5.8	5.9	5.7	5.7	5.5	5.3	4.9	5	5.2	5.3	5.4	5.4	5.5	5.3
5	5.6	6.2	6.5	6.6	7.1	7.7	7.7	7.8	8.1	8.6	10	11.5	13.1	14.1	13.9	13.1	11	9.6	8.4	7.8	7.5	7.6	7.5	7.7	8.9
6	7.9	7.7	7.3	7	6.4	5.2	4.7	4.1	3.2	3.5	4.3	5.2	5.8	5.8	5.7	6.1	6.1	5.7	5.5	5.5	4.9	3.7	2.7	2	5.3
7	1.5	0.7	0.1	-0.3	-0.5	-1	-1.6	-2	-0.7	1.8	2.9	3.3	3.7	4.2	4.5	4.5	4.5	3.6	3.1	2.6	2.4	2.4	2.6	2.5	1.9
8	2.5	2.5	2.3	2.1	2.1	2	1.8	1.8	3.1	4.9	6.6	8.7	9.8	10.4	11.4	12.4	12.2	10.5	10	9.3	9.1	9	8.5	9	6.8
9	9.7	10	10.2	10	9.8	9.7	9.8	10.1	11	12.5	13.8	15.1	16.4	17.3	18.2	18.6	18.2	16.9	15.8	14.8	13.8	12.5	11.5	11.1	13.2
10	10.7	10.7	10.8	10.7	10.3	9.2	8.9	8.9	9.8	11	11.7	12.1	12.3	12.5	12.4	11.6	9.9	8.6	7.8	7.6	8	8.5	8	7.8	10
11	8.1	8.2	8.1	7.9	8	9	9.4	9.9	11.1	14.4	18.2	19.3	20.2	20.5	19.5	19	18.1	17.6	17.1	16.9	16.8	16.3	15.9	15.6	14.4
12	15.3	14.9	13.8	13.4	13.2	13	12.7	12.1	12	12.6	13	13.2	14.9	17.1	17.6	17.9	16.4	15.2	14.2	12.8	12.4	13.4	13.2	13	14.1
13	13.2	13.7	13.7	13.4	13.7	13.9	13.9	13.9	14.1	14	14.4	15.2	16.1	18	18.8	18.6	18.6	17.8	17.1	16.8	16.9	17	17.5	18	15.8
14	17.9	17.6	17.4	15.8	13.6	13.4	13	12.8	12.6	11.3	10.9	11	10.6	9.2	7.4	6.9	6.6	6.4	6.4	6.1	5	4	3.9	2.9	10.1
15	0.3	-0.3	0.6	1.1	0.8	0.6	0.4	0.5	1	1.7	2.8	3.9	5.3	6.6	7.3	7.8	7.3	5.8	5	4.4	3.6	3.1	2.8	2.9	3.1
16	3	2.8	3.2	3	2.4	2	1.5	0.7	2.6	4.5	5.5	6.2	7	7.9	7.8	8.2	7.5	6.7	6.3	5.4	5.2	5.9	5.9	6	4.9
17	5.7	5.3	5.2	4.5	5.3	5.9	6.5	8	9	10.5	13.3	13.5	15.6	16.8	15.2	13.8	13.8	13.7	13.6	15.5	16.6	16.9	17.9	18.5	11.7
18	18.9	19.1	19.3	19.5	19.6	19.7	18	14.3	13.2	12.6	12.1	11	10.9	10.2	10.4	9.8	9.1	7.7	7	6.4	5.7	5.2	4.8	4.6	12
19	4.5	4.3	4	3.9	3.6	3.2	2.9	3.6	4.7	6.9	9.5	10.7	11.8	12.1	12.1	13	12.1	9.6	7.8	7.9	7.7	7.5	7.4	7.3	7.4
20	7.4	7.2	7	7	7.1	6.5	6.2	6.2	7.5	10.2	12.6	14.2	15.3	16.2	16.9	17.1	16.6	15.3	13.9	12.9	12.2	11.4	11.6	11.7	11.3
21	11.2	11.1	10.7	10.7	10.5	10.2	10.3	10.9	13.1	15.6	16.6	18.1	18.4	18.9	19.1	18.9	17.2	16.6	17	16.8	16.4	15.9	14.9	11.9	14.6
22	10.3	9.1	8.2	7.6	7.4	6.9	6.6	6.7	7	7.7	7.9	8	8.1	7.9	7.5	7.4	7.4	7.8	7.9	8.3	8.7	8.6	8.5	8.8	7.9
23	9.1	9.4	9.3	9	9.4	8.3	7.5	7	7	7.9	8.3	10.7	12.3	13	14	14.1	14.4	14.3	14.3	14	13.5	12.9	12.4	11.9	11
24	11.4	10.8	9.5	7.8	7.5	7.3	7.1	6.9	7.1	7.7	8	8.8	9.6	9.9	10.5	11.1	10.4	8.7	7.5	7.2	7.7	8.7	9.2	9.5	8.8
25	9.5	9.6	9.7	9.2	8.4	8	7.5	6.7	7.4	8.4	8.9	9.4	9.4	9.2	9.1	9.1	8.9	7.6	6.6	6	5.3	4.6	4	3.3	7.7
26	2.6	2	1.6	1.1	0.4	0	-0.1	-0.2	1.4	2.8	3.6	4.4	5.3	5.9	6.5	7	6.5	5.4	4.4	3.6	2.7	2.1	1.6	0.8	3
27	0.4	0	-0.1	-0.7	-1	-1	-1.4	-1.4	0	1.7	3.6	5.3	7.3	8.1	9.1	9.2	8.9	6.3	4.5	3.2	2.7	2.4	1.9	2	3
28	2.5	2.2	2.1	2.4	2.1	1.7	1.9	1.8	3.4	6.1	8.5	10.7	12.2	13.4	14.1	14.7	14.3	12.6	11.3	10.4	9.8	9.3	8.5	8	7.7
29	7.8	7.6	6.9	6.7	6.8	7.9	8.4	8.6	11.1	13.1	13.8	14.1	14.8	16.1	16.5	16.6	16.1	15.5	15.1	14.9	15.3	15.7	16.2	16	12.6
30	15.5	14.9	14.4	14.8	15	14.5	13.8	13.2	13.5	14.1	14.8	14.9	15.6	16.1	16.5	16.6	15.6	13.9	13.7	13.2	13	13.5	13	12.4	14.4
31	12.2	12.1	11.9	11.6	11.2	10.8	10.9	10.7	10.1	9.6	9	8.4	8.5	9.4	10.7	11.8	10.6	10.1	9	7.7	7.3	6.9	5.9	5.4	9.7
Avg	8.4	8.1	7.9	7.6	7.4	7.2	7	6.9	7.6	8.7	9.7	10.5	11.3	11.9	12.1	12.1	11.5	10.6	9.9	9.5	9.2	9	8.7	8.5	9.2
S D	5.1	5.2	5.1	5.1	5	5.1	5	4.8	4.4	4.1	4.1	4.1	4.2	4.4	4.4	4.4	4.2	4.3	4.4	4.5	4.7	4.8	5	5	3.8
S/A	0.61	0.64	0.65	0.66	0.68	0.7	0.71	0.69	0.58	0.47	0.42	0.39	0.37	0.37	0.37	0.36	0.37	0.4	0.44	0.48	0.51	0.54	0.57	0.59	0.42
Min	0.3	-0.3	-0.1	-0.7	-1	-1	-1.6	-2	-0.7	1.7	2.8	3.3	3.7	4.2	4.5	4.5	4.5	3.6	3.1	2.6	2.4	2.1	1.6	0.8	1.9
Max	18.9	19.1	19.3	19.5	19.6	19.7	18	14.7	14.1	15.6	18.2	19.3	20.2	20.5	19.5	19	18.6	17.8	17.1	16.9	16.9	17	17.9	18.5	15.8
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**

**January 2006**

**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	78.3	84.7	90.1	95.5	99.8	102.2	101.8	102	97.7	86	79.5	72.1	70.1	66.3	61.7	61.6	61.3	73.5	91.9	97	102.1	104.2 ?	?	?	85.4 ?	
2	?	?	?	?	?	?	?	?	?	?	96.2	89.2	83.9	86.4	88.5	96.8	104.5	?	?	?	?	?	?	?	92.2 ?	
3	?	?	?	?	?	?	?	?	?	104.9 ?	?	?	?	104.1	102.5	101.8	101.2	103.4	?	102.3	100.6	99.3	99.7	99.8	101.8 ?	
4	99.9	100.4	100.3	100.6	100.7	100.7	99.7	98.8	99.3	99.1	98.3	97.4	97.4	98.6	99	100.4	101.3	102.6	103.4	103.8	103.7	104	104.4	105 ?	100.8	
5	?	?	?	?	?	?	?	?	?	?	102.1	95.7	87.4	83.4	83.7	83.5	85	89.6	99.4	101.6	103.5	102.9	103.2	100.8	94.4 ?	
6	95.9	85.6	86.3	84.9	85.3	94	98.4	102.4	104.2	104.3 ?	103.7	101.3	94.8	94.8	92.9	87.3	80.5	78.7	78	72.6	73.4	79	83.2	83.3	89.4	
7	76.5	75.6	75.7	77.6	77.4	79.9	84.4	89.2	85.5	72.7	66	63.4	58.2	59	60.2	61.1	64	69.7	71.5	73.8	76.2	80.2	79.9	84.5	73.4	
8	83.4	81.9	83	84.4	86.3	87.5	87.7	87.5	82.8	75.9	69.4	63.7	65.4	57.7	54.7	52.5	55.4	63.2	65.1	73.5	76.2	76.7	81.2	78.8	73.9	
9	79.2	78	78.6	79.5	80.9	82.4	84.7	86.3	85.4	84.1	83	80.4	77.3	74.6	72.8	72.9	75.9	81.7	86.3	90.9	95.2	99.1	102.4	104	84	
10	104.8 ?	?	?	?	?	?	?	98.7 ?	91.2	81.8	76.4	75.5	72.8	65.8	67.1	77.4	88.4	95.5	99.3	102	103	103.3	104.4 ?	?	88.7 ?	
11	?	?	?	?	?	?	?	?	?	101.8 ?	87.9	83.8	80.5	75.5	82.3	84.4	89.1	92.9	95.8	97.5	97.7	99.4	101	102.6	91.5 ?	
12	102.4	103.6	105 ?	?	?	?	?	?	?	?	?	?	99.5 ?	92.3	89.5	83.1	87.1	93.4	97	100.5	101.2	101.2	103.7	?	97.1 ?	
13	?	?	?	?	?	?	?	?	?	?	?	?	?	100.1	97.1	97.3	98.5	99.3	99.4	101.1	103.7	?	102.7 ?	99.6	99.9 ?	
14	100.2	101.1	104.1	104.3 ?	?	?	103.3 ?	102.8	100.7	98.9	96.4	83	78.8	83.3	97.3	97.9	98.3	101.1	98.7	82.8	87.3	97.6	94	93.7	95.7 ?	
15	100 ?	?	92.2 ?	77.8	70.4	66.1	64.7	60.7	55.2	47.1	41	36.3	32.9	29.2	28.1	29.2	31.4	36.7	39.4	42.2	47.7	52.8	54.9	53.6	51.7	
16	51	51.6	48.7	48.9	52.7	58.3	62.9	71.8	60	53.9	55.5	57	54.4	49.2	56.6	59.1	70.6	79	84.8	86.7	92.1	93.6	96.7	98.3	66.4	
17	100.1	102.2	104	?	104.5 ?	104.1	103.2	97.6	96	96.7	89.3	89.5	84	82.6	90.9	97.5	100.3	102.3	104.6	102.8	100.9	102.3	99.5	97.6	97.9	
18	96.9	96	96.2	96.2	96.3	94.3	97 ?	104.7	102.7	99.6	92.8	81	69.5	66.8	49.8	40.3	41.5	47.2	51.6	53.8	57.8	60.5	62.9	64.8	75.8	
19	66.9	69.7	73	76	76.4	78	79.2	75.7	70.7	59	50.7	46.3	45.3	54.7	52.6	43.6	48.1	64.3	81.7	83.9	78.6	81.1	82.5	85.5	67.6	
20	84.2	85.3	88.4	88.1	82.4	86.1	89.1	91.2	88.9	83.5	77.7	61.1	55.6	59.9	62	61.4	62.5	69.7	76.7	82.6	88.9	94.7	93.9	92.9	79.5	
21	94.4	95	96.7	97.3	98.4	99	99.2	98.3	94.1	88.9	85.4	82.6	84	86.2	87.1	89.9	102.6	104.8 ?	?	?	?	?	85.2 ?	71.4	92 ?	
22	65.4	69.7	73.8	75.6	75.8	78.1	81.2	82.8	81.5	79.5	79.4	80.7	80.8	84.2	89.1	93.9	97.9	98.9	101.2	100.7	99.8	100	101.5	102.9	86.4	
23	103.3	103.8	104.8 ?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
24	?	?	?	103.8 ?	102.4	101.8	101.7	100.3	98	94.8	93.7	90.6	86.4	83.7	79.9	79.3	84.1	97.3	101.5	102.7	103	104.1	103.6	103.9	96 ?	
25	104.8	102.7	99.5	96.2	86	70.6	59.7	60.9	57.4	49.5	44.5	42.3	42.3	43.3	43.1	41.6	41.7	47.7	51.1	52.9	54.9	56.8	58.5	61.4	61.2	
26	64.6	66.8	66.9	67.8	69.5	72.9	73.1	72.8	66.3	58.1	54.2	47.3	43.7	37.7	35.1	34.9	32	34	37.3	39.7	42.9	45.2	46.8	50.5	52.5	
27	54.3	58.4	61.1	64.4	66	64.5	66.9	67.8	65.5	67.2	62.6	56.2	48	45.5	40.7	40.8	43.9	64.5	75.9	83.1	87.7	91.4	94.6	90.7	65.1	
28	87	94.6	93.5	79.3	73.6	73.6	67.8	64.7	57	49.8	42	35.1	31	30.6	29	29.4	31.7	35.4	38.6	42.9	45.9	47.4	54.9	69.2	54.3	
29	79	87.5	95.3	96.5	96.9	97.7	99.3	102	99	93.5	95.1	100.6	96	91.9	92.9	91.6	93.4	96.8	98.5	99.6	97.6	95.2	94.1	95.4	95.2	
30	97.7	99.8	101.7	100.8	99.6	100.7	102.8	104.8	104.7	103.4	101.3	101.7	99.2	96.2	92.7	94.2	99.2	102	103.2	104.3 ?	?	?	?	?	100.5 ?	
31	?	?	?	?	?	?	?	?	?	?	102.9 ?	101.5	95	86.3	75.8	68.1	74	72.4	75	80.3	79.3	78.4	81.3	74.5	81.8 ?	
Avg	86.3	86.1	87.8	85.5	84.8	85.4	86.7	88	84.5	81.9	78.5	74.5	72	72.4	72.1	72	73.8	79.2	81.7	84.2	85.2	86.6	87.8	86.6	83.1 ?	
S D	16.4	15.6	15.4	14.5	14.2	14.3	15.1	15.2	16.9	19.1	20	20.9	21	21.5	22.8	24	24.2	22.6	21.7	20.7	19.8	19.2	17.7	16.7	15.4	
S/A	0.19	0.18	0.18	0.17	0.17	0.17	0.17	0.17	0.2	0.23	0.25	0.28	0.29	0.3	0.32	0.33	0.33	0.28	0.27	0.25	0.23	0.22	0.2	0.19	0.19	
Min	51	51.6	48.7	48.9	52.7	58.3	59.7	60.7	55.2	47.1	41	35.1	31	29.2	28.1	29.2	31.4	34	37.3	39.7	42.9	45.2	46.8	50.5	51.7	
Max	104.8	103.8	105	104.3	104.5	104.1	103.3	104.8	104.7	104.9	103.7	101.7	99.5	104.1	102.5	104.5	102.6	104.8	104.6	104.3	103.7	104.2	104.4	105	101.8	
n	274	262	250	239	243	252	258	271	276	297	317	324	331	360	360	360	348	338	323	330	324	306	310	290	7219	

Data Recovery: 0.0% missing; 0.0% untested; 18.8% 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**

**January 2006**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	8.9	7.9	7.1	6.4	5.1	3.8	3.2	3.1	4.1	6.5	8.7	10.6	12.7	14.4	15.7	15.5	14.7	12.3	9.6	7.5	5.9	5	4.5	4.1	8.2
2	3.7	3.5	3.3	3.4	3.9	4.5	4.9	5.2	6.1	8.3	10.2	12.3	14.1	14.8	14.7	13.3	12.7	13.4	14.5	15.2	15.7	16.1	16.2	16.1	10.3
3	15.9	15.8	15.6	15.3	15.1	14.9	14.8	14.9	14.6	13.6	12.8	12.1	11.5	11.3	10.8	10.3	9.8	9.2	8.6	8.2	8	7.5	7.1	6.7	11.8
4	6.4	6.2	5.9	5.8	5.6	5.5	5.4	5.4	5.4	5.5	5.8	6.6	7.2	7.4	7.4	7.3	6.8	6.2	5.8	5.7	5.7	5.8	5.8	5.8	6.1
5	5.6	5.6	5.8	5.8	6	6.9	7.5	7.9	8.2	8.9	10.4	13	15.9	18	18.6	17.6	15.5	12.3	9.8	8.7	8.1	7.8	7.7	7.5	10
6	7.6	7.8	7.9	7.6	7.3	6.6	5.8	5.1	4.3	3.7	3.9	4.5	5.4	6.1	6.1	6.5	6.7	6.4	5.9	5.6	5.2	3.3	1.4	0.5	5.5
7	0.2	-0.3	-1.2	-1.9	-2.2	-2.4	-3.2	-4	-2.6	1.1	4.9	7.4	8.2	8.5	8	7.3	5.9	4.3	2.4	1.2	0.4	0.1	0.2	0.4	1.8
8	0.6	0.7	0.8	0.6	0.3	0.2	0	0	1.4	4.4	7.4	10.2	12.5	13.7	13.8	14.4	14.3	12.2	10.2	9.3	8.6	8.2	7.9	7.5	6.6
9	7.9	8.5	8.9	9.1	9.1	8.9	8.9	8.9	10	12.4	14.7	16.5	18	19.1	19.8	20.2	19.9	18.5	16.4	14.9	13.7	12.5	11.3	10.7	13.3
10	10.2	9.9	9.9	10	10	9.5	8.7	8.6	8.7	10.5	12.6	14.3	15.5	16.1	16.1	15.4	13.7	11.1	9.1	7.9	7.6	7.9	7.9	7.3	10.8
11	7.2	7.5	7.7	7.6	7.9	8.5	9.1	9.6	10.3	12.2	16.5	19.9	21.7	22.5	21.9	20.8	19.7	18.7	17.8	17.2	16.9	16.5	15.9	15.4	14.5
12	15	14.7	14.2	13.3	12.9	12.8	12.6	12.4	12.4	12.9	13.7	14.2	15.6	18.4	20.1	20.5	19.7	17.1	14.4	13	12.3	12.1	12.3	12.3	14.5
13	12.5	13	13.3	13.5	13.7	13.9	14	14.1	14.3	14.8	15.2	16	17.1	18.4	19.6	19.9	19.8	19.1	18	17.1	16.8	16.7	16.9	17.4	16
14	17.8	17.8	17.6	17.3	15.7	14.5	13.7	12.9	12.5	12.3	12.3	12.6	13	12.4	10.5	8.8	7.7	6.9	6.4	5.7	5.3	4.8	4	3.5	11.1
15	2.5	1.2	0.7	0.2	-0.4	-0.9	-1.2	-1.2	0.1	2.1	4	5.6	7	8.2	9.1	9.5	9.4	7.7	5.2	4	3	2.1	1.5	1.5	3.4
16	1.7	1.7	1.6	1.9	1.7	1.6	0.9	-0.7	0.4	3.3	6.6	8.1	9.5	10.3	11.1	10.9	10.5	8.6	6.6	5.3	4.4	4.2	4.3	4.5	5
17	4.5	3.9	3.8	4	4.2	4.7	5.5	6.3	7.5	9.6	13.2	16.1	17.9	19.6	19.3	17.2	15.9	15.2	14.3	14.3	15.2	15.8	16.2	17	11.7
18	17.8	18.3	18.7	19.1	19.3	19.4	19.4	17.3	14.9	13.5	12.3	11.7	12.7	12.8	12.4	12.2	11.5	9.9	7.6	6.2	5.2	4.2	3.6	3.1	12.6
19	3	2.9	2.7	2.5	2.4	2.1	1.7	1.7	3.4	6.6	10.4	13.4	15.3	15.8	15.6	15.3	15.4	13.1	9.5	7.6	6.7	6.1	5.7	5.5	7.7
20	5.5	5.5	5.5	5.3	5.5	5.4	5	4.9	6.2	9.1	12.3	15.1	16.9	18	18.7	19	18.5	16.7	14.4	12.6	11.6	10.8	10.3	10.3	11
21	10.2	9.9	9.6	9.3	9.2	9	9	9.3	10.9	14.7	17.5	19.1	20.1	20	19.9	19.9	18.7	17.5	17.1	17.1	16.9	16.4	15.9	14.4	14.6
22	12.7	11.2	9.9	8.8	8.2	7.7	7.1	6.9	7.2	7.9	8.8	9.2	9.7	9.7	9.3	8.7	8.3	8	8	8.3	8.7	9	9.2	9.3	8.8
23	9.6	10	10.1	9.9	9.9	9.7	9	8.3	7.9	8.1	8.7	9.7	11.6	12.8	14	14.6	14.7	14.8	14.8	14.8	14.5	14	13.3	12.7	11.6
24	12.2	11.7	11.1	9.9	8.7	8.2	7.9	7.7	7.6	8.5	9.6	10.6	12.4	13.6	14.1	14.7	14.3	12.2	8.8	7	6.5	6.8	7.4	8.1	10
25	8.8	8.8	8.7	8.6	8.3	7.3	6.9	6.3	7	9.1	10.8	11.8	12.4	11.9	11.4	10.9	10.9	9.7	7.3	5.8	5	4.2	3.6	2.8	8.3
26	2	1.2	0.5	0	-0.6	-1.2	-1.7	-1.9	-0.2	2.8	5.2	6.8	7.8	8.6	8.9	9.1	9	7.4	4.7	3	1.7	0.7	0.2	-0.5	3.1
27	-1.2	-1.6	-1.9	-2.1	-2.7	-2.8	-3	-3.2	-1.5	1.6	4.6	7.5	10.4	12.2	12.7	13.1	12.6	10.3	6.2	3.2	1	0.3	-0.1	-0.5	3.1
28	-0.4	0.1	0.2	0.3	0.7	0.7	0.4	0.6	1.7	5	8.4	11.3	13.5	15	15.8	16.4	16.5	15	12	10.3	9.2	8.5	7.8	7	7.3
29	6.6	6.3	5.9	5.5	5.3	5.6	6.7	7.3	8.4	11	13.1	13.6	14	15	16.2	16.9	17.1	16.5	15.5	15	15.2	15.5	15.8	16.1	11.8
30	15.9	15.1	14.5	14.1	14.4	14.4	14	13.4	13.4	14	15.4	16.2	17	17.5	18.1	18.4	18.1	16.6	14.8	14	13.3	13.2	13.2	12.6	15.1
31	12.2	12	11.9	11.7	11.5	11.3	11.3	11.2	10.9	10.5	10	9.1	8.4	9	10.4	12.6	12.5	11.6	9.3	7.3	6.1	5.5	4.9	4.4	9.8
Avg	7.8	7.6	7.4	7.2	7	6.8	6.6	6.4	7	8.5	10.3	11.8	13.1	13.9	14.2	14.1	13.6	12.2	10.5	9.5	8.8	8.4	8.1	7.9	9.5
SD	5.5	5.6	5.6	5.6	5.6	5.6	5.6	5.6	4.9	4.1	3.8	3.9	4	4.2	4.4	4.4	4.3	4.2	4.4	4.7	5	5.2	5.4	5.5	3.9
StA	0.7	0.73	0.75	0.78	0.8	0.82	0.86	0.87	0.71	0.48	0.37	0.33	0.31	0.3	0.31	0.31	0.32	0.34	0.42	0.49	0.56	0.62	0.66	0.7	0.41
Min	-1.2	-1.6	-1.9	-2.1	-2.7	-2.8	-3.2	-4	-2.6	1.1	3.9	4.5	5.4	6.1	6.1	6.5	5.9	4.3	2.4	1.2	0.4	0.1	-0.1	-0.5	1.8
Max	17.8	18.3	18.7	19.1	19.3	19.4	19.4	17.3	14.9	14.8	17.5	19.9	21.7	22.5	21.9	20.8	19.9	19.1	18	17.2	16.9	16.7	16.9	17.4	16
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**

**January 2006**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	1.7	1.3	1	0.5	0.6	0.7	1.1	1.4	1.2	0.8	1	1.2	1.5	1.3	1.1	0.7	0.6	1.2	1.9	1	0.9	0.7	0.6	0.2	1
2	0.1	0.1	0.4	0.3	0.6	0.2	0.9	0.7	1.2	2.2	2.3	1.6	2.8	3.6	2.4	1.3	1.3	1.9	2.1	2	2.5	4.2	1.9	0.2	1.5
3	0.4	1.4	2.5	2	2	1.3	2.4	2.4	2.4	2	2.2	2.4	1.7	3.1	3.3	3.2	3.9	3.9	3.6	4.1	4.2	4.6	4.4	3.9	2.8
4	3.6	4	3.5	3.2	3	2.7	2.5	2.4	2.6	3.2	1.7	0.7	1.2	1.2	1	1.3	1.7	2	1.5	1.9	2.2	3	2.4	1.7	2.3
5	2.1	1.9	1.6	0.9	1.6	3.1	3	2.5	2.1	1.7	1.4	1.2	0.9	1.1	1.6	2.2	2.5	2.2	2.4	2.6	2.3	1.4	1.8	2.8	2
6	3	3.7	4.3	4.1	5	4.5	4.1	3.5	4.1	2.7	1.9	2	2.8	2.5	2.9	3	3.3	2.2	1.7	1.7	1.1	0.6	0.9	1.9	2.8
7	2	1.6	1.4	1.6	1.9	1.1	0.6	0.6	0.5	0.6	1.1	1.9	1.8	2.9	3	2.3	1.5	1.2	1.2	0.8	1.1	1.4	1.7	1.8	1.5
8	1.8	2.4	1.6	1.5	1.6	1.3	1.2	1.5	2.4	2.9	2.7	2.1	2.3	2.5	2.7	2.8	1.7	2.5	3.5	3.1	3.3	3.5	3.1	3.6	2.4
9	4.6	4.4	4.4	4.4	3.8	3.8	3.5	3.7	4	4.5	5.8	5.2	5.2	5.1	5.1	3.9	3.3	2.1	1.4	1.2	1	1	1.1	1.1	3.5
10	1	1.3	1.5	1.5	1.3	0.7	1	3.3	3.1	4.2	5	4.5	3.9	3.9	3.9	3.4	3.3	2.8	2.3	1.9	1.1	1	0.7	1.2	2.4
11	1	0.6	0.5	0	0.1	0.9	0.7	0.1	0.3	0.7	2.7	3.5	4.6	3.9	3.7	3.4	3.7	3.9	3.1	3.9	4	2.8	2.7	2.6	2.2
12	2.3	2.1	0.7	0.7	1.6	1.6	1.4	0.8	1.4	0.9	1.2	0.9	1.4	2	2.2	2.3	2.2	0.1	0.5	1	1.3	1.9	1.2	1.6	1.4
13	1.9	2.4	1.8	2	1.3	1.3	1.3	1.7	1.6	2	1.4	1.3	1.4	1.7	2.6	2.4	2.8	2.6	2.3	2.6	2.9	3.7	4.5	6.1	2.3
14	6.2	5.2	4.7	6.1	3.6	1.3	1.2	2.7	3.8	5.6	5.1	6.8	6.4	5.8	5.2	5.2	4.1	3	2.5	6.8	5.4	4.4	5.3	5.9	4.7
15	5.6	1.9	3.6	4.1	4.4	4.4	5.1	5.3	5	5.6	5.9	6	5.3	5.2	5.9	4.5	4	2.9	3.1	2.7	1.9	1.4	1.7	1.4	4
16	1.1	1.2	1.5	1.4	0.6	1.1	0.1	0.3	0.4	0.8	2.4	2.2	2.9	2.9	3.3	3.8	3.8	2.9	1.8	1.7	1.9	1.9	1.7	1.5	1.8
17	0.6	0.1	0.4	0.3	0.6	1.2	2.2	2.7	1.2	1.3	1.5	2.3	2	2.5	4.1	3.5	4.2	3.7	3.7	3.1	3.2	3.5	5.5	6.7	2.5
18	7	7.4	7.4	8.5	9.1	9.3	7.8	7.2	6.5	8	9.3	9.9	11	10.6	10.2	9.3	6.2	4.9	3.9	2.9	2.5	2.2	2.3	2.5	6.9
19	2.8	2.6	2.4	2.8	2.3	2.3	1.8	1.7	1.7	1.6	1.4	1.8	1.5	2.5	2.5	2.4	2.3	2.6	2.5	2.5	2.3	2.4	2.5	2.1	2.2
20	2.3	2.4	2.3	2.7	2.7	2	2.5	2.7	3.6	4.3	5.1	5.4	5.1	5.2	5.5	4.6	4	1.5	0.7	1	1.4	1.7	2.1	2.3	3.1
21	2	2	2.2	2.2	2.2	2.1	2.1	2	2.8	4	5	5.4	4.6	3.5	4.3	3.5	3.4	2.9	3.2	2.2	1.6	1.2	3.2	5	3
22	5.5	5	3.9	3.6	4	4.7	3.9	4.4	4.2	4.4	4.8	5.1	5.4	4.8	4.8	4.4	3.8	3.5	3.2	2.8	1.8	2.2	1.7	1.3	3.9
23	0.6	0.2	0.7	0.4	1.5	1.9	1.6	1.5	0.9	1.8	1.9	2.8	3.3	3.1	3.7	3.7	2	2.8	3.2	2.6	2.7	2.1	1	1	1.9
24	1.3	1.3	2.8	2	1.7	1.3	1.7	1.6	1.4	1.8	2.5	2.1	1.6	1	0.8	1.3	1.5	1.8	1.4	2.1	2.5	3.1	3.7	4.7	2
25	4	3.8	3.6	3.1	2.5	4.6	4	2.9	3.2	5	6.5	6.4	6.1	5.7	5.5	5.3	4.8	3.5	3.2	3.8	3.5	3.5	3.4	3.2	4.2
26	2.7	2.5	2.7	2.5	2.4	2.2	2	2.4	2.8	3.9	5	6.1	5	5.1	5	4.3	4.4	2.7	2.2	2.1	1.6	2.3	2.2	1.9	3.2
27	2	1.8	2.4	1.8	2.2	2.4	2	1.9	2.4	2.8	2.6	1.7	0.9	1.3	1	0.9	1	1.7	0.9	0.2	0.8	0.9	0.6	1.2	1.6
28	1.5	1.5	1.5	2.6	1.9	1.4	2.1	2.7	3.6	4.2	4.4	4.7	5.2	4.4	4.9	3.6	3.2	4.4	2.2	2.5	2.2	2.6	1.9	2	2.9
29	2	1.9	1.7	1.6	1.5	1.8	1.8	1.7	2.3	2.9	3.6	4.8	4.2	4.8	4.5	4.9	4.1	3.8	3.7	3.4	3.8	3.5	4.5	4.2	3.2
30	3.1	2.7	2.8	4.2	4.6	3	1.9	1	0.7	0.7	1.2	1.8	1.7	1.9	1.9	1.4	1.2	1.4	0.8	1.1	0.7	1.4	1	2.2	1.8
31	2.5	2.4	0.7	0.2	0.5	1.1	1.4	2.4	3.3	3.5	5.8	5.7	4.6	4.7	4.3	4.1	3.6	2.1	1	1.3	1.6	2	2.2	2.2	2.6
Avg	2.5	2.4	2.3	2.4	2.3	2.3	2.2	2.3	2.5	2.9	3.4	3.5	3.5	3.5	3.6	3.3	3	2.5	2.3	2.3	2.2	2.3	2.4	2.6	2.7
SD	1.7	1.6	1.6	1.8	1.8	1.8	1.5	1.5	1.5	1.8	2.1	2.2	2.2	2	1.9	1.7	1.3	1	1	1.3	1.1	1.1	1.4	1.7	1.2
S/A	0.68	0.68	0.66	0.79	0.76	0.78	0.69	0.64	0.59	0.62	0.62	0.63	0.63	0.56	0.53	0.51	0.43	0.39	0.44	0.54	0.5	0.49	0.58	0.65	0.44
Min	0.1	0.1	0.4	0	0.1	0.2	0.1	0.1	0.3	0.6	1	0.7	0.9	1	0.8	0.7	0.6	0.1	0.5	0.2	0.7	0.6	0.6	0.2	1
Max	7	7.4	7.4	8.5	9.1	9.3	7.8	7.2	6.5	8	9.3	9.9	11	10.6	10.2	9.3	6.2	4.9	3.9	6.8	5.4	4.6	5.5	6.7	6.9
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

**January 2006**

**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	284	288	299	263	245	269	278	265	255	264	260	284	278	294	281	280	297	33	46	58	72	81	83	97	295
2	61	54	34	83	82	95	83	93	84	92	95	100	104	110	114	98	118	143	145	154	129	231	223	203	124
3	230	167	176	193	209	211	240	266	280	288	295	305	300	316	317	312	322	315	320	332	332	340	346	339	307
4	335	339	341	337	330	333	335	338	358	349	360	334	299	267	236	221	192	196	191	187	182	171	186	170	310
5	165	180	178	186	223	231	234	233	237	243	276	337	54	43	59	63	71	40	45	53	43	44	33	41	71
6	5	354	353	352	345	341	333	327	341	342	322	316	326	315	322	320	315	315	308	306	310	295	297	322	333
7	325	302	303	317	320	311	294	281	293	342	55	242	236	215	217	213	217	205	201	208	196	195	197	204	243
8	206	210	206	203	194	198	211	213	215	227	224	202	174	167	185	197	181	156	164	174	186	187	180	190	192
9	204	202	199	203	208	202	201	198	206	214	226	224	221	216	222	224	223	212	200	205	194	189	207	210	211
10	199	213	217	221	296	14	17	43	47	55	53	59	49	60	62	64	56	48	46	44	48	36	34	59	52
11	83	97	78	11	101	108	103	110	113	100	153	176	168	179	188	176	164	169	181	172	191	192	195	206	173
12	206	228	198	203	222	225	224	233	267	269	255	254	234	203	191	218	229	216	135	117	141	166	186	167	210
13	191	191	183	182	188	180	175	178	180	179	191	183	177	161	150	115	148	148	146	149	143	143	156	157	162
14	154	144	147	180	206	153	179	219	235	234	241	252	265	270	269	266	265	275	299	307	304	292	297	294	251
15	310	308	296	298	298	301	299	300	302	303	307	305	302	299	293	288	289	278	279	270	266	275	277	283	296
16	286	299	336	327	298	240	262	196	212	139	91	97	121	106	104	115	100	92	70	57	61	87	104	121	95
17	139	47	29	119	118	78	62	208	184	172	77	75	92	97	109	107	108	104	118	127	148	153	155	157	125
18	159	166	167	164	165	170	204	227	222	219	224	231	241	249	246	256	264	263	255	241	227	222	219	220	217
19	224	220	215	227	233	239	255	273	268	291	286	276	217	164	156	163	152	123	120	153	171	184	185	194	201
20	201	211	196	208	218	214	221	222	227	228	224	225	229	221	219	221	220	213	172	180	166	171	189	200	215
21	201	194	194	194	189	194	192	208	211	211	219	220	224	221	218	219	219	235	249	259	268	285	348	1	224
22	359	3	8	9	27	33	35	40	41	46	41	40	36	35	34	38	42	39	48	45	2	345	19	33	30
23	36	27	266	185	247	259	266	264	241	242	236	209	231	214	225	226	229	245	242	257	264	255	273	286	241
24	305	325	0	353	355	1	355	20	13	26	12	26	353	10	100	106	111	163	149	161	163	187	209	225	18
25	226	229	239	281	276	259	270	271	272	273	271	277	280	280	280	280	285	281	276	277	278	282	282	275	272
26	281	273	277	275	269	268	276	289	295	305	311	308	306	306	308	309	307	310	320	320	315	321	312	313	301
27	316	322	329	304	316	317	315	313	338	12	26	27	4	269	46	310	156	138	141	95	147	150	180	198	335
28	207	204	206	220	218	206	226	226	237	237	239	229	224	214	227	217	215	214	209	212	212	213	201	206	221
29	205	202	195	191	186	188	178	170	174	184	198	179	168	174	174	183	187	186	189	196	201	207	221	227	190
30	221	221	231	242	240	246	228	227	201	208	170	158	179	176	158	112	78	93	104	108	199	169	209	241	206
31	227	227	242	190	158	189	203	244	273	301	301	303	305	307	296	293	283	290	303	260	277	319	338	322	288
Avg	229	224	230	231	241	238	250	254	258	257	259	253	248	239	233	236	230	213	206	220	214	216	222	225	241
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**

**January 2006**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	3.1	2.5	1.9	1.1	1	1.2	1.8	1.9	1.9	1.6	1.8	2.6	3.2	2.7	2.9	2.1	1.5	2.1	2.8	1.6	1.6	1.1	1	0.4	1.9
2	0.3	0.3	0.8	0.6	1.1	0.5	1.7	1.4	2.3	4	3.9	3	4.4	5.6	3.8	2.1	2.5	3.4	3.8	3.6	4.9	7	3.4	1	2.7
3	0.8	2.9	4.8	3.8	3.6	2.8	4.3	4.8	4.9	4.4	4.7	5.2	4.2	6.3	6.7	7.1	7.6	7.6	7.3	7.1	7.7	7.9	8	6.7	5.5
4	6.6	7	6.2	5.6	5.2	4.9	4.6	4.3	4.6	5.3	3.4	1.6	2.7	2.4	2.2	2.3	3.1	3.5	2.9	3.6	4	5.4	4.4	3.1	4.1
5	3.4	3.2	3	1.9	2.9	4.6	4.4	4	3.5	3.1	2.8	2.7	2.1	2.3	3	3.4	4	3.5	3.8	4.1	3.9	2.4	3.2	4.9	3.3
6	5.3	6.3	7.1	7.2	8.5	7.3	7.6	6.4	7.3	5	4.2	4.4	5.4	5.4	6.2	6.2	6.5	4.4	4	3.9	2.6	1.4	2.1	3.2	5.3
7	3.6	3.4	2.7	3	3.6	2.1	1.5	1.5	1.5	1.8	2.4	3.4	3.7	5.3	4.9	4	2.5	2.1	2.2	1.3	1.8	2.5	2.8	2.9	2.8
8	3.1	4	2.8	2.5	2.8	2.3	1.9	2.5	4.3	4.7	4.3	3.6	4	4.2	4.5	4.5	3.1	4.1	5.5	5	5.5	5.8	5.3	6.1	4
9	7.6	7.5	7.3	7.3	6.2	6.5	5.8	5.9	7	7.6	9.2	8.6	8.7	8.3	7.8	6.1	5.3	3.2	2.2	1.8	1.5	1.5	1.9	1.8	5.7
10	1.7	2.1	2.2	2.3	2.4	1.4	1.8	5.3	5	6.7	8.2	7.4	6.1	6.6	6.2	5.4	5.2	4.5	3.7	3.1	2	1.7	1.1	1.9	3.9
11	1.7	1.3	1.1	0	0.2	1.8	1.5	0.5	0.7	1.8	4.7	6	7.6	6.5	6.3	6	6.3	6.2	5.5	6.6	7.2	4.6	4.7	4.5	3.9
12	3.9	3.2	1.5	1.6	2.7	2.5	2.5	1.9	2.7	2.4	2.6	2.3	3.3	3.6	3.9	3.8	3.3	0.3	1.1	1.6	2.1	3.1	2.4	2.7	2.5
13	3.4	4.1	3.2	3.5	2.7	2.6	2.6	3.5	3.4	3.9	2.9	3.1	3	3.5	4.5	3.9	4.5	4.1	3.8	4.3	4.6	5.9	7.4	9.8	4.1
14	9.9	8.6	8	10.9	6.1	2.7	3	5	5.9	8.9	8.5	11	11.4	10.8	9.2	9	7.8	5.7	5.6	14.3	10.8	8.7	10.6	11.3	8.5
15	10.6	4.3	7.2	8.6	8.2	8.9	10.5	10.4	10.4	11.4	11.8	11.2	10.8	10.9	12	8.9	7.8	6.1	6.1	4.8	3.3	2.6	3	2.4	8
16	2.2	2.1	3	2.9	1.3	1.8	0.3	0.7	1.1	1.6	3.9	3.6	4.6	4.8	5.3	5.8	6	4.4	2.8	2.6	3.2	2.9	2.5	2.3	3
17	1.2	0.3	0.8	0.8	1.1	1.9	3.8	5.1	2.2	2.4	2.5	3.3	3.3	3.8	6.3	5.6	6.5	6.3	6	5	5.4	5.9	9	10.8	4.1
18	12	12.4	12.6	13.5	14.9	15.5	12.7	11.1	10.3	13.3	15.6	15.6	17.3	17	17	15.9	11.5	7.9	6.3	4.5	3.7	3.2	3.6	4.1	11.3
19	4.2	4	3.7	4.2	3.4	3.3	2.9	3.1	3.2	3.1	3	3.6	3.1	4.1	4	3.9	3.6	3.9	3.8	4	3.8	3.9	4	3.7	3.6
20	3.7	3.6	3.6	4.2	4.1	3	3.7	4	5.3	6.6	8	8.3	7.9	8.1	8.9	7.5	6.4	2.2	1.4	1.8	2.2	2.7	3.5	3.9	4.8
21	3.2	3.4	3.5	3.5	3.6	3	3.2	3.1	4.6	6.5	8.4	9	7.1	5.8	6.9	5.7	5.4	4.7	5.5	3.9	3.7	3.4	6.3	8.5	5.1
22	9.4	9.2	7.2	6.4	7.1	7.9	6.4	7.4	6.8	7.5	8	8	8.6	7.6	7.6	7.1	6.4	5.6	5.3	4.5	3.1	3.7	3.1	2.4	6.5
23	1.3	0.7	1.5	1	2.9	3.7	3.3	3.3	2.3	3.6	3.8	4.8	5.5	5.7	6.5	6.3	4.2	4.5	5.3	4.5	5.4	4.1	3.1	3.2	3.8
24	3.5	3.5	5.2	4	4	3.3	3.4	3.4	3.2	3.8	4.1	3.5	3.1	2.4	2.1	2.4	2.5	3.1	2.4	3.4	4.1	5.2	5.9	7.5	3.7
25	5.9	5.8	5.5	6	4.9	8	7.4	5	6.3	9.7	11.8	11.7	11.6	10.6	10.5	10	9.6	7	6.5	7.4	6.7	7.4	6.7	6.1	7.8
26	5.2	5.2	5.2	5	4.1	4	3.9	4.6	5.3	7.2	9.2	11.3	10.5	10	9.7	8.8	8.7	5.6	3.7	3.8	3.1	4.3	3.9	3.4	6.1
27	3.7	3.3	4.3	3.7	4.3	4.3	3.6	3.5	4.5	5.1	4.3	3.2	2.4	2.9	2	2	2.2	2.8	1.5	0.5	1.2	1.4	1.2	1.8	2.9
28	2.4	2.4	2.5	3.9	3.1	2.4	3.1	3.6	5.3	6.4	6.9	7.5	8.3	6.9	7.9	5.6	5.1	3.6	3.4	3.7	3.2	4.1	3.1	3.1	4.5
29	3.2	3	2.7	2.7	2.6	3	2.9	3	3.9	5	6.3	8.2	7.3	8.5	7.5	8.6	7.1	6.3	6.1	5.7	6.4	6	7	6.6	5.4
30	4.9	4.1	4.3	6.6	7	4.6	2.8	1.8	1.4	1.3	2.1	3.1	2.9	3.1	3.1	2.4	2.1	2.1	1.3	1.8	1.5	2.7	2	3.4	3
31	4.1	4	1.9	1	1.3	2.7	3	4.2	6.3	7.5	12.3	11.3	10.2	9.7	9.5	8.8	7	4.2	2	1.8	2.6	3.6	3.9	4.1	5.3
Avg	4.4	4.1	4.1	4.2	4.1	4	3.9	4.1	4.4	5.3	6	6.2	6.3	6.3	6.4	5.8	5.3	4.4	4	4.1	4	4.1	4.2	4.4	4.7
S/D	2.9	2.7	2.6	3.1	2.9	3	2.7	2.4	2.4	3	3.6	3.6	3.3	3.3	3.3	3	2.4	1.8	1.8	2.5	2.2	2	2.4	2.8	2
S/A	0.67	0.65	0.64	0.74	0.71	0.75	0.67	0.59	0.54	0.56	0.59	0.59	0.57	0.53	0.51	0.52	0.46	0.41	0.45	0.63	0.54	0.5	0.57	0.63	0.43
Min	0.3	0.3	0.8	0	0.2	0.5	0.3	0.5	0.7	1.3	1.8	1.6	2.1	2.3	2	2	1.5	0.3	1.1	0.5	1.2	1.1	1	0.4	1.9
Max	12	12.4	12.6	13.5	14.9	15.5	12.7	11.1	10.4	13.3	15.6	15.6	17.3	17	17	15.9	11.5	7.9	7.3	14.3	10.8	8.7	10.6	11.3	11.3
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**

**January 2006**

**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	1010	1011	1011	1012	1012	1013	1014	1015	1016	1017	1017	1017	1017	1017	1017	1017	1018	1019	1019	1020	1020	1020	1020	1020	1016
2	1020	1020	1020	1020	1020	1020	1019	1019	1019	1019	1018	1017	1016	1014	1013	1012	1011	1010	1009	1008	1005	1005	1006	1005	1014
3	1004	1004	1003	1002	1002	1002	1002	1002	1003	1004	1005	1004	1004	1004	1005	1006	1007	1008	1009	1010	1011	1012	1012	1012	1006
4	1013	1013	1014	1014	1014	1015	1015	1015	1016	1016	1016	1015	1014	1013	1012	1012	1012	1011	1011	1011	1009	1009	1009	1009	1013
5	1008	1007	1006	1006	1005	1005	1005	1006	1006	1007	1006	1005	1004	1003	1003	1003	1003	1004	1004	1003	1003	1003	1003	1002	1005
6	1002	1002	1002	1002	1002	1002	1003	1004	1004	1005	1005	1004	1004	1004	1005	1006	1006	1007	1008	1009	1010	1010	1011	1011	1005
7	1012	1012	1013	1013	1013	1013	1014	1015	1016	1016	1016	1015	1014	1014	1013	1013	1014	1014	1015	1015	1016	1016	1016	1016	1014
8	1015	1016	1016	1016	1016	1016	1017	1018	1019	1019	1020	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018
9	1018	1018	1018	1018	1018	1018	1019	1019	1020	1020	1020	1020	1019	1019	1019	1019	1020	1020	1021	1022	1023	1023	1023	1024	1020
10	1024	1024	1025	1025	1025	1026	1027	1028	1029	1029	1030	1030	1029	1028	1028	1028	1028	1028	1028	1028	1028	1027	1027	1026	1027
11	1025	1025	1024	1024	1024	1023	1022	1023	1023	1022	1021	1020	1019	1018	1017	1017	1016	1016	1016	1016	1015	1016	1015	1015	1020
12	1015	1015	1015	1015	1015	1015	1016	1017	1018	1018	1018	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016
13	1016	1016	1016	1015	1015	1015	1015	1016	1016	1016	1016	1015	1014	1012	1011	1010	1009	1008	1007	1006	1005	1004	1002	1001	1011
14	998	996	994	993	993	991	991	991	991	990	990	989	989	989	989	990	991	992	993	994	995	996	996	997	992
15	998	998	999	1000	1000	1001	1002	1003	1004	1005	1006	1006	1006	1006	1006	1007	1008	1009	1010	1011	1011	1011	1011	1012	1005
16	1011	1012	1012	1012	1012	1012	1013	1013	1014	1014	1014	1014	1013	1012	1011	1011	1011	1011	1011	1011	1012	1012	1012	1012	1012
17	1012	1013	1013	1014	1014	1014	1013	1015	1016	1016	1016	1015	1015	1014	1013	1013	1012	1012	1011	1011	1010	1010	1009	1008	1013
18	1007	1006	1005	1004	1003	1002	1003	1003	1004	1005	1005	1006	1007	1008	1009	1011	1014	1016	1018	1019	1020	1021	1022	1022	1010
19	1023	1023	1024	1025	1025	1025	1025	1026	1027	1028	1028	1028	1027	1026	1026	1026	1026	1026	1026	1026	1026	1026	1026	1026	1026
20	1025	1025	1025	1025	1025	1025	1026	1026	1027	1027	1027	1027	1025	1024	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1024
21	1023	1022	1022	1022	1021	1021	1021	1022	1022	1022	1022	1022	1022	1021	1020	1019	1020	1020	1021	1022	1022	1024	1025	1026	1022
22	1028	1029	1029	1030	1031	1031	1032	1033	1033	1034	1034	1033	1032	1031	1031	1030	1030	1030	1029	1029	1028	1027	1026	1024	1030
23	1023	1022	1021	1020	1019	1019	1019	1019	1019	1019	1019	1017	1016	1015	1014	1013	1013	1014	1013	1013	1013	1013	1013	1013	1017
24	1012	1012	1012	1012	1012	1012	1012	1012	1013	1013	1013	1012	1011	1011	1010	1009	1008	1008	1008	1007	1007	1006	1006	1006	1010
25	1006	1006	1006	1007	1008	1008	1009	1009	1010	1010	1010	1010	1009	1010	1010	1010	1011	1012	1013	1014	1015	1015	1016	1017	1010
26	1017	1018	1018	1018	1018	1019	1020	1021	1022	1023	1023	1023	1023	1023	1023	1023	1024	1026	1027	1028	1029	1030	1030	1031	1023
27	1031	1031	1032	1032	1032	1033	1034	1034	1034	1034	1035	1034	1034	1033	1032	1032	1032	1032	1033	1033	1033	1033	1032	1032	1033
28	1031	1031	1031	1030	1030	1030	1030	1030	1030	1030	1029	1028	1026	1025	1024	1024	1024	1024	1024	1023	1023	1023	1023	1022	1027
29	1022	1021	1020	1020	1019	1019	1018	1018	1017	1017	1017	1016	1013	1011	1010	1010	1009	1009	1009	1009	1009	1008	1008	1009	1014
30	1008	1008	1008	1008	1008	1008	1008	1008	1009	1009	1009	1008	1007	1006	1005	1004	1004	1004	1004	1004	1003	1003	1001	1000	1006
31	999	999	998	997	997	996	996	995	995	996	998	1000	1001	1002	1004	1005	1006	1007	1008	1009	1010	1011	1012	1013	1002
Avg	1015	1015	1015	1014	1014	1015	1015	1015	1016	1016	1016	1016	1015	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015	1015	1015
S D	9	10	10	10	10	10	10	10	10	10	10	10	10	10	9	9	9	9	9	9	9	9	9	9	9
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	998	996	994	993	993	991	991	991	991	990	990	989	989	989	989	990	991	992	993	994	995	996	996	997	992
Max	1031	1031	1032	1032	1032	1033	1034	1034	1034	1034	1035	1034	1034	1033	1032	1032	1032	1032	1033	1033	1033	1033	1033	1032	1033
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**

**January 2006**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13	13.8	13.8	13.8	13.7	13.7	13.6	13.6	13.6	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.6	13
2	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.6	13.6	13.8	13.7	13.7	13.6	13.5	12.9	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
3	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.6	12.6	12.6	12.7	12.8	12.7	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6
4	12.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5	12.9	13	13.1	13.1	13	12.8	12.6	12.6	12.5	12.4	12.4	12.4	12.4	12.4	12.4	12.6
5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.6	13.2	13.5	13.5	13.4	13.4	13.5	13.2	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
6	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.7	12.8	12.9	12.9	12.8	12.9	13.1	12.8	12.7	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.7
7	12.5	12.5	12.5	12.5	12.5	12.5	12.4	13.1	14	13.9	13.8	13.8	13.8	13.8	13.8	13.8	13.6	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13.1
8	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13	13.9	13.8	13.8	13.7	13.6	13.6	13.6	13.6	13.3	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.1
9	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.7	13.6	13.6	13.5	13.5	13.5	13.4	13.4	13.3	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
10	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13
11	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.6	13.5	13.4	13.4	13.4	13.4	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
12	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13	13.2	13.5	13.5	13.5	13.4	13.4	13.3	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
13	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	13	13.3	13.4	13.5	13.5	13.4	13.5	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
14	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.3	13.6	13.7	13.5	13.1	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.5	12.8
15	12.5	12.5	12.5	12.4	12.4	12.4	12.4	13.1	14	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.8	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.6	13.1
16	12.6	12.6	12.6	12.6	12.6	12.6	12.5	13.2	13.9	13.9	13.8	13.8	13.8	13.7	13.7	13.7	13.6	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.1
17	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.3	13.6	13.6	13.5	13.5	13.5	13.5	13.5	13.3	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
18	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.6	13.6	13.7	13.7	13.7	13.7	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.9
19	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.1	13.9	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.6	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
20	12.6	12.6	12.6	12.6	12.6	12.6	12.5	13.1	13.8	13.7	13.6	13.6	13.5	13.5	13.5	13.5	13.2	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
21	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.6	13.6	13.5	13.5	13.5	13.5	13.3	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
22	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.6	13.3	13.2	13.5	13.6	13.2	12.8	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.5	12.5	12.5	12.8
23	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.8	13.3	13.2	13.2	13	12.8	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.5	12.5	12.7
24	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13.2	13.7	13.7	13.7	13.6	13.6	13.6	13.6	13.6	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13
25	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.2	13.8	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	12.9	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.1
26	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.3	14	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.8	12.9	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13.1
27	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.3	14	13.9	13.9	13.8	13.7	13.7	13.6	13.7	13.7	12.9	12.8	12.7	12.7	12.7	12.6	12.6	12.6	13.1
28	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.8	13.9	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
29	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.2	13	13.1	13.2	13.1	13.1	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.8
30	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13	13.3	13.3	13.5	13.5	13.5	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8
31	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.8	13	13.3	13.6	13.5	13.1	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.8
Avg	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.8	13.3	13.4	13.4	13.5	13.5	13.5	13.4	13.4	13.2	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.9
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.6	0.5	0.4	0.3	0.3	0.3	0.3	0.4	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
S/A	0.01	0.01	0.01	0.01	0.01	0	0	0.02	0.05	0.04	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5	12.6	12.7	12.8	12.7	12.6	12.5	12.5	12.5	12.5	12.4	12.4	12.4	12.4	12.4	12.4	12.6
Max	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.3	14	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.8	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.1
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	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.