

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

**March 2010**

**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	17	124	329	517	668	758	780	727	604	440	235	26	0	0	0	0	0	0	5225
2	0	0	0	0	0	0	8	46	148	294	254	259	259	123	123	38 ?	22 ?	3	0	0	0	0	0	0	1577 ?
3	0	0	0	0	0	0	2	33	92	146	156	92	101	97	141	93	46	4	0	0	0	0	0	0	1003
4	0	0	0	0	0	0	11	131	343	544	675	779	773	752	622	460	241	55	0	0	0	0	0	0	5386
5	0	0	0	0	0	0	22	142	347	548	662	794	749	681	607	327	140	29	0	0	0	0	0	0	5049
6	0	0	0	0	0	0	15	139	356	547	698	791	818	771	651	475	262	63	0	0	0	0	0	0	5584
7	0	0	0	0	0	0	24	151	365	556	704	794	819	751	560	405	211	46	0	0	0	0	0	0	5386
8	0	0	0	0	0	0	25	147	370	552	709	794	816	769	645	469	260	65	0	0	0	0	0	0	5622
9	0	0	0	0	0	0	30	156	361	550	698	786	803	740	620	444	236	55	1	0	0	0	0	0	5481
10	0	0	0	0	0	0	12	113	256	401	381	579	633	448	254	225	114	26	0	0	0	0	0	0	3442
11	0	0	0	0	0	0	3	56	124	224	189	304	403	339	180	129	92	24	0	0	0	0	0	0	2065
12	0	0	0	0	0	0	6	53	64	421	191	267	188	159	126 ?	107	29	11	2	0	0	0	0	0	1624
13	0	0	0	0	0	0	7	31 ?	36 ?	208	463	744	786	663	595	451	279	72	1	0	0	0	0	0	4335
14	0	0	0	0	0	0	21	155	379	481	341	227	182	346	125	195	55	17	3	0	0	0	0	0	2527
15	0	0	0	0	0	0	25	137	351	390	255	144	133	134 ?	214	155	70	26	2	0	0	0	0	0	2036
16	0	0	0	0	0	0	6	36	56	85	101	141	173	254	344	331	269	49	4	0	0	0	0	0	1849
17	0	0	0	0	0	0	39	203	420	610	760	835	852	773	500	373	185	48	4	0	0	0	0	0	5602
18	0	0	0	0	0	0	35	228	484	641	667	828	827	737	496	245	144	50	2	0	0	0	0	0	5384
19	0	0	0	0	0	0	44	209	424	614	761	841	862	803	685	509	294	85	7	0	0	0	0	0	6139
20	0	0	0	0	0	0	40	207	417	603	749	835	847	795	677	498	294	91	7	0	0	0	0	0	6060
21	0	0	0	0	0	0	43	205	405	604	725	705	621	419	333	231	158	37	3	0	0	0	0	0	4489
22	0	0	0	0	0	0	36	46	44	130	93	79 ?	117 ?	140	195	120	104	55	14	0	0	0	0	0	1172
23	0	0	0	0	0	0	38	95	74	137	318	395	332	747	559	441	310	99	11	0	0	0	0	0	3558
24	0	0	0	0	0	0	49	234	448	640	787	874	884	827	697	514	302	96	6	0	0	0	0	0	6359
25	0	0	0	0	0	0	46	224	387	431	771	860	771	627	467	303	245	57	7	0	0	0	0	0	5197
26	0	0	0	0	0	0	34	174	288	397	489	309	647	101 ?	59 ?	67	41 ?	14	1	0	0	0	0	0	2621
27	0	0	0	0	0	1	56	255	478	662	823	882	906	795	639	522	291	96	14	0	0	0	0	0	6422
28	0	0	0	0	0	2	64	181	416	641	787	872	877	826	697	494	295	77	7	0	0	0	0	0	6237
29	0	0	0	0	0	0	1	?	?	61 ?	73	80	78	76 ?	137	126	83	41	4	0	0	0	0	0	759 ?
30	0	0	0	0	0	2	10	96	119	406	693	643	618	692	598	557	345	119	7	0	0	0	0	0	4905
31	0	0	0	0	0	3	88	300	396	672	811	891	904	846	722	543	332	117	12	0	0	0	0	0	6638
Avg	0	0	0	0	0	0	28	144	293	442	531	586	599	547	448	332	193	53	4	0	0	0	0	0	4185
S D	0	0	0	0	0	1	21	73	148	191	257	298	297	280	225	167	103	32	4	0	0	0	0	0	1896
S/A	0	0	0	0	0	2.77	0.74	0.51	0.51	0.43	0.48	0.51	0.5	0.51	0.5	0.5	0.53	0.61	1.14	0	0	0	0	0	0.45
Min	0	0	0	0	0	0	1	31	36	61	73	79	78	76	59	38	22	3	0	0	0	0	0	0	759
Max	0	0	0	0	0	3	88	300	484	672	823	891	906	846	722	557	345	119	14	0	0	0	0	0	6638
n	0	0	0	0	0	6	283	355	355	364	370	368	366	360	359	363	355	368	59	0	0	0	0	0	4331

Daylight Data Recovery: 0.0% missing; 0.0% untested; 2.5% exceed the 15% QC threshold -- 4440 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**

**March 2010**

**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	0	0	0	0	0	*	
2	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
3	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	*	
5	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
6	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
7	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
8	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
9	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
10	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
11	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
12	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
13	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
14	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
15	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
16	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
17	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
18	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
19	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
20	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
21	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
22	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
23	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
24	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
25	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
26	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
27	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
28	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
29	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
30	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
31	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
Avg	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	N/A	*
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A
Max	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A
n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 100.0% missing; 0.0% untested; 0.0% exceed the 15% QC threshold -- 4440 total daylight measurements.

Instrument: Eppley NIP    Serial Number: 23398E6    Calibration Factor: 7.1447 μV/W/m<sup>2</sup>    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**

**March 2010**

**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	12	38	58	70	77	79	78	81	78	72	56	20	0	0	0	0	0	0	719
2	0	0	0	0	0	0	8	46	145	273	254	259	259	123	115	29	18	2	0	0	0	0	0	0	1530
3	0	0	0	0	0	0	2	33	92	146	156	92	101	97	141	93	41	4	0	0	0	0	0	0	998
4	0	0	0	0	0	0	10	40	57	68	84	72	96	85	74	63	52	20	0	0	0	0	0	0	721
5	0	0	0	0	0	0	12	36	64	118	134	117	107	148	132	156	137	29	0	0	0	0	0	0	1192
6	0	0	0	0	0	0	10	39	54	61	67	69	70	67	65	55	40	17	0	0	0	0	0	0	613
7	0	0	0	0	0	0	14	37	51	58	62	66	69	107	198	200	140	43	0	0	0	0	0	0	1045
8	0	0	0	0	0	0	13	40	59	110	79	81	80	73	64	60	48	22	0	0	0	0	0	0	730
9	0	0	0	0	0	0	15	46	65	77	88	96	99	105	98	88	78	32	1	0	0	0	0	0	887
10	0	0	0	0	0	0	13	78	202	327	311	285	408	386	251	222	114	26	0	0	0	0	0	0	2625
11	0	0	0	0	0	0	3	55	124	215	189	288	367	331	180	129	92	24	0	0	0	0	0	0	1998
12	0	0	0	0	0	0	6	53	64	306	171	267	188	159	85 ?	107	29	11	2	0	0	0	0	0	1448
13	0	0	0	0	0	0	7	28	33	190	289	236	184	256	166	113	52	25	1	0	0	0	0	0	1578
14	0	0	0	0	0	0	14	54	75	232	301	227	181	306	125	192	49	17	3	0	0	0	0	0	1778
15	0	0	0	0	0	0	26	91	183	266	245	144	133	112	214	155	70	26	2	0	0	0	0	0	1665
16	0	0	0	0	0	0	6	33	56	85	101	141	173	254	344	229	109	39	4	0	0	0	0	0	1574
17	0	0	0	0	0	0	18	42	53	58	61	85	117	148	233	249	140	48	3	0	0	0	0	0	1254
18	0	0	0	0	0	0	35	123	165	110	169	101	142	262	242	206	143	50	2	0	0	0	0	0	1750
19	0	0	0	0	0	0	22	49	63	72	79	79	78	74	67	59	48	31	6	0	0	0	0	0	728
20	0	0	0	0	0	0	24	69	92	108	117	123	126	127	115	97	67	33	6	0	0	0	0	0	1102
21	0	0	0	0	0	0	24	61	101	185	163	258	431	379	319	230	154	37	3	0	0	0	0	0	2345
22	0	0	0	0	0	0	35	46	41	130	85	69	93	132	195	120	103	55	12	0	0	0	0	0	1118
23	0	0	0	0	0	0	29	87	74	137	308	357	293	218	283	125	85	36	9	0	0	0	0	0	2041
24	0	0	0	0	0	0	25	61	82	92	97	101	99	96	91	83	66	35	5	0	0	0	0	0	932
25	0	0	0	0	0	0	33	92	180	254	139	145	286	401	291	237	142	56	7	0	0	0	0	0	2264
26	0	0	0	0	0	0	31	106	170	266	324	235	241	80	51	67	33	14	1	0	0	0	0	0	1620
27	0	0	0	0	0	?	31	72	104	119	142	138	193	298	263	190	128	71	14	0	0	0	0	0	1763
28	0	0	0	0	0	?	50	153	165	143	150	169	171	170	161	186	137	58	7	0	0	0	0	0	1719
29	0	0	0	0	0	0	1	?	?	45	73	78	75	70	137	126	83	41	4	0	0	0	0	0	731 ?
30	0	0	0	0	0	2	10	96	119	280	271	375	347	219	186	81	59	34	6	0	0	0	0	0	2084
31	0	0	0	0	0	4 ?	46	108	110	70	79	81	84	82	76	67	54	31	7	0	0	0	0	0	898
Avg	0	0	0	0	0	0	19	64	97	151	157	158	173	176	163	132	83	32	3	0	0	0	0	0	1402
S D	0	0	0	0	0	1	13	31	49	86	87	92	106	105	84	65	41	16	4	0	0	0	0	0	554
S/A	0	0	0	0	0	4.06	0.68	0.48	0.5	0.57	0.55	0.58	0.61	0.6	0.51	0.5	0.49	0.5	1.11	0	0	0	0	0	0.4
Min	0	0	0	0	0	0	1	28	33	45	61	66	69	67	51	29	18	2	0	0	0	0	0	0	613
Max	0	0	0	0	0	4	50	153	202	327	324	375	431	401	344	249	154	71	14	0	0	0	0	0	2625
n	0	0	0	0	0	3	273	360	360	371	372	372	371	371	369	371	372	369	59	0	0	0	0	0	4393

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.1% exceed the 15% QC threshold -- 4440 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31393F3 Calibration Factor: 7.6820  $\mu\text{V}/\text{W}/\text{m}^2$  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**

**March 2010**

**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	2.7	2	1.8	1.4	1	0.6	0.2	1.1	3.4	6.1	7.9	9.3	10.3	11.3	12.1	12.4	12.1	11	9.7	8.6	7.1	6	6.2	6	6.3
2	5.7	5.2	4.6	3.9	3.1	2.1	2.4	3.1	4.1	5.5	6.5	6.8	6.8	6.5	5.7	4.9	4.1	3.1	2.1	2.1	2.2	3.3	4.6	4.2	
3	4.8	4.3	3.8	3.3	2.4	1.7	0.6	1	1.6	2.2	2.9	3.5	3.9	3.7	3.6	3.6	3.7	3.6	3.5	3.3	3.1	3.1	3.2	3.2	3.1
4	3.2	3.3	3.2	3.1	3	2.7	1.9	2.5	3.9	5.1	5.8	6.8	7.9	8.5	9.3	9.6	9.7	9.1	7.6	6.5	5.6	4.9	4	2.8	5.4
5	2.1	1.8	1.7	0.9	-0.2	-0.4	-0.7	1	3	4	5	6.3	7.1	8	8.7	8.5	8.1	7.4	6.3	6.1	5.9	5.7	4.8	4.1	4.4
6	4.7	4.8	4.2	4.4	3.8	3	2.3	3.1	4.3	5.3	6.2	7.4	8.4	9.3	9.8	9.9	10	9.1	7.3	6	4.9	3.5	2.8	2.5	5.7
7	1.9	1.5	1.1	1.2	0.9	0.5	0.2	1.7	4.6	8.2	10.4	11.8	12.9	14.1	14.8	15.4	14.9	13.8	11.6	10.4	9.8	8.6	7.9	7.3	7.7
8	6.5	6.4	5.9	5.4	4.7	4.5	4.2	5.3	8.1	10.2	11.8	13.3	14.7	15.4	16.2	15	13.5	11.8	10	8.6	7.6	6.6	6.4	6.3	9.1
9	5.7	5.1	4.7	4.8	4.3	3.1	3.1	4.9	9.3	13.1	14.4	15.9	17.9	19	19.7	20	14.8	13.8	11.4	10.2	9.6	9.6	9.9	9.3	10.6
10	8.7	8.6	8.8	8.8	9	9.4	10.1	10.9	13	15	15.8	17	19.1	20.8	21.3	21.3	20.9	20.2	18.6	17.6	16.4	15.6	14.9	14	14.8
11	13.5	13.1	12.6	12.6	12.2	12.1	11.8	12.3	12.9	14	14.3	15.6	17.8	18.4	18.3	17.7	17.2	16.3	14.9	15.1	14.8	14.6	14.5	14.6	14.6
12	14.2	13.6	13.3	13.8	14.2	14.1	13.9	13.7	14	15.4	16.2	16.1	16	15.9	14.7	14.1	14.2	14.2	14	14.8	13.9	14	14.8	15.2	14.5
13	14.9	14.7	14.4	14.3	14.5	14.3	14.2	14.6	14.6	14.8	16.6	17.5	19	19.8	19.9	20.4	19.7	18.6	16.8	16.2	15.5	14.9	14.5	13.9	16.2
14	13.4	12.5	11.4	10.4	9.9	9.7	9.4	10	10.7	11.7	11.9	10.7	10.4	11.7	11.2	11.7	11.8	11.6	11.2	10.7	10.1	9.8	9.5	9.2	10.9
15	9.2	9.4	8.8	8.9	8.7	8.3	7.3	7.8	10.1	11.8	12	11.7	11.1	9.3	10.3	9.8	9.5	9.1	8.9	8.8	8.7	8.3	8.5	8.7	9.4
16	8.2	8.3	7.5	7.4	7.2	7.3	7.4	6.6	7	7.2	7.4	7.8	8.2	9.2	10.1	10.5	11.4	11.2	10.2	9.1	8.1	7	5.8	4.6	8.1
17	4.2	4.4	3.7	3.2	3.3	2.9	2.9	5.7	10.5	13.4	14.6	15.3	15.9	16	16	15.5	14.3	12.9	11.4	10	9.5	9.1	8.8	8.5	9.7
18	8.4	8.2	8	7.4	6.4	6.2	6.8	8	11.3	14	15.1	16.1	16.5	16.6	16.5	15.8	14.9	13.8	12.3	11.2	10.6	10	9	7.8	11.3
19	7.4	7.2	7.1	7.3	7.3	6.9	7.3	9.8	13.4	16.5	18.4	20.1	21.1	21.8	22.1	21.6	21.6	18.8	16.2	14.1	13	12.1	11.6	11.3	13.9
20	11.1	11.2	11.3	10.6	9.9	9.2	9.1	10.8	14.1	17.7	20.4	22.2	23.3	23.7	23.9	24.2	23	21.3	19.5	18	16.5	14.7	14	13.8	16.4
21	13.4	13	12.4	11.8	11.8	11.2	11.1	13.1	16.2	18.7	19.9	21	21.5	21.5	21.4	21	20.6	19.2	16.7	16.3	15.9	15.9	15.9	16.2	16.5
22	16.1	15.7	15.9	16.7	17.4	17.6	17.7	17.6	17.9	18.5	18.8	18.4	17.9	16	15.5	14.9	14.7	14.3	13.3	12.6	12	12.6	12.7	12.1	15.7
23	10.9	9.7	8.5	7.6	7	6.6	6.8	7.1	6.4	6	7.8	10	11	12.3	13.3	14.2	15	15.2	14.2	13.4	13.3	12.6	11.8	11	10.5
24	10.4	9.6	8.9	8.4	8.1	8	7.9	9.5	11.7	14.7	16.3	17.4	19	20	20.8	21.5	21.4	21.1	18.5	15.2	14.2	13.4	13.3	12.8	14.3
25	12.1	11.5	11.1	10.7	10.6	10.3	10.5	12.1	14.9	16.2	18.5	20.5	21.4	21.8	21.9	21.4	20.9	19.6	18.6	17.8	17.4	17.2	17	16.9	16.3
26	16.8	16.8	16.6	16.8	16.6	16	15.8	16	16.9	17.8	19.1	19.4	19.3	11.4	7.7	6.9	6.9	6.5	6.1	6.2	5.8	4.9	5.4	5.6	12.4
27	5	4.6	4.3	3.9	3.6	3.2	4.2	5.9	6.9	7.6	8.2	8.7	9	9.3	8.8	8.5	7.9	7	6	5.5	5.7	5.8	6.2	5.7	6.3
28	5.6	5.8	5.9	6.1	6.4	7.1	7.5	8.9	11.2	14.5	16.4	17.9	18.3	18.9	19	18.9	18.5	17.8	17.1	16.8	16.7	16.5	17.1	17.4	13.6
29	17.2	16.8	16.8	17.4	17.1	16.4	13.3	12.9	12.8	12.9	13	13.1	13.3	13.5	13.7	14.1	14.2	14	13.4	13	12.8	12.3	12.1	12.2	14.1
30	12.3	12.3	12.5	12.4	12	11.8	11.5	10.5	10.3	11.4	13.3	14.7	15.4	16.5	17.4	18.4	18.8	18.5	16.6	15.1	14.6	14.1	13.7	13.2	14
31	12.4	12.2	11.9	12.2	12.3	11.4	11.1	13	14.2	15.7	17	18.8	19.8	20.7	21.5	22.1	22.5	22.3	20.7	18.1	15.1	13.8	13.1	12.6	16
Avg	9.1	8.8	8.5	8.3	8	7.7	7.5	8.4	10.1	11.8	13	13.9	14.6	14.9	15	15	14.5	13.7	12.4	11.5	10.8	10.3	10.1	9.8	11.2
SD	4.6	4.5	4.6	4.8	5	5.1	5	4.7	4.6	4.8	5	5.1	5.2	5.3	5.5	5.6	5.4	5.3	4.9	4.6	4.4	4.4	4.4	4.5	4.2
StA	0.5	0.51	0.54	0.58	0.62	0.66	0.66	0.56	0.45	0.4	0.38	0.37	0.36	0.36	0.36	0.37	0.37	0.38	0.4	0.4	0.41	0.43	0.44	0.46	0.38
Min	1.9	1.5	1.1	0.9	-0.2	-0.4	-0.7	1	1.6	2.2	2.9	3.5	3.9	3.7	3.6	3.6	3.7	3.1	2.1	2.1	2.1	2.2	2.8	2.5	3.1
Max	17.2	16.8	16.8	17.4	17.4	17.6	17.7	17.6	17.9	18.7	20.4	22.2	23.3	23.7	23.9	24.2	23	22.3	20.7	18.1	17.4	17.2	17.1	17.4	16.5
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 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**

**March 2010**

**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	78.7	80.8	80.7	83	85.2	88.2	90.8	87.9	81	72.1	63.1	58	55.1	52.8	49.8	48.9	48.8	52.7	58.3	63.5	74.7	82.1	79.5	80.2	70.7	
2	80.2	82.7	83.6	87	92.2	96.8	97.1	93	87.4	82.3	81.6	80.5	81.5	85	92.4	98.4	?	?	?	?	?	?	?	104.1 ?	88.6 ?	
3	104 ?	?	?	?	?	?	?	?	?	104.6	102.7	100.9	99	100.2	102.3	102.2	101	101.3	103.3	104.7 ?	?	?	?	?	102.2 ?	
4	?	?	104.5 ?	104.4	103.9	100.9	100.1	96.1	85.3	76.7	68.9	59.3	55.2	53.4	49.8	48.1	47.5	49.4	54.9	59	61.7	63.1	65.9	72.4	71.8 ?	
5	73.9	72.3	70.1	74.8	81.3	82.7	84.4	74.9	66.7	61.5	59.3	58.1	56	55.2	53.8	54.4	56.7	62.7	70.2	71.9	75.4	76.9	82.5	88.7	69.3	
6	80.5	76.8	77.3	71.9	72.7	75.8	79.8	75	72.4	69.7	65.2	59.6	52.7	46.6	42.6	41.8	41.8	45.8	57	65.5	74.3	81	82.2	89.7	66.6	
7	97.7	99.3	99.7	98.5	98.5	98.2	95	81.8	66.4	51.3	40	35.7	32.4	30.4	30.9	30.2	32.4	38.1	46.3	49.7	51.3	62.7	76.8	82	63.6	
8	89.2	87.8	85.2	84.9	85.9	85.7	86	77.8	63.1	50.4	43.6	38	31.1	30.2	28.6	41.9	43.9	47.8	52.9	54.3	59.6	67.9	71	81.6	62	
9	90.2	95.5	97.5	95.6	97.3	101.7	101.4	92.7	68.9	47.9	42.9	42.8	43	42.8	43	43.5	55.8	62.7	78.7	91.8	96.3	90	83.3	89.1	74.8	
10	97.2	99.7	98.2	99.1	100.6	100.3	96.9	92.2	80.7	71.5	67.2	63.1	56.6	51.2	50.9	52.2	54.1	58.4	66.1	72.5	82.3	88.6	93.1	99.4	78.8	
11	102.6	104.3 ?	?	?	?	?	?	?	?	103.9 ?	98.4	97.2	95.9	94.3	93.9	94.9	99.7	103.8	104.3	?	?	?	?	?	99.4 ?	
12	?	?	?	?	?	?	?	?	?	?	?	?	?	103.5	103.5	?	?	?	?	104.6 ?	102.9	104.5 ?	?	?	103.8 ?	
13	?	?	104.6 ?	104.5	104.8	105 ?	?	104.5	104.1	103.3	92.7	85.9	79.6	76.2	75.5	71.5	67.8	73.2	80.5	83	85.5	84.5	81	82.2	88.1 ?	
14	82.7	84.1	88.5	93.5	96.6	97.9	98.3	96.3	94.2	92.7	92.5	101.1	103.2 ?	100.2	99.6	95.1	92.9	95.3	96.4	98.5	100.4	102	104.1	104.8 ?	96.3	
15	?	104.9 ?	?	?	?	?	?	?	104 ?	98.4	90.9	88.2	87.9	92.2	102.8	97.3	98.5	98.5	96.6	97.9	99.4	101	104.3 ?	102.3	104.8 ?	97.8 ?
16	98.2	98	101.1	100.9	100.8	98.2	96.2	102.3	99.7	99	97.1	96.7	93.8	85	77.8	73.8	65.4	65.7	74.3	76.5	79.4	80	87.9	95.2	89.3	
17	96.7	91.3	92.4	92.8	85	85.7	86	76.6	53.4	38	33.2	35.5	33.6	28.8	27.9	30.6	35.3	41.6	50.9	63.6	68.4	72.4	78.1	85.9	61.8	
18	91.7	95.9	97.7	101.4	103.7	104.5 ?	103.7	99	83.1	63	49	43.1	37.5	35	33.1	36.5	42.8	51.4	58.1	58.8	62.4	66.8	74.2	80.3	69.7	
19	83.9	82.4	77.5	72.5	75.7	80.2	79.2	70.1	58.8	47.9	41.2	37.3	32.3	30.4	29	28.4	30.2	49.3	59.9	62.2	65.2	72.3	82.2	84.6	59.7	
20	82.2	77.2	74.5	78.6	84.2	88.9	93.1	90.5	79.9	67.8	54	41.9	35.1	29.9	27.3	29.2	35.8	44.3	55.3	62.4	70.7	80.2	84.5	85.9	64.7	
21	84.6	83.3	85.8	88.7	90.1	95.2	99.2	95.7	84.8	76.3	73	69.7	66.3	67	64.1	66.8	72.4	82	93.2	97	101.1	102.2	104.4 ?	?	84.5	
22	?	?	?	103.9	101	99.3	99.3	100.9	102.3 ?	103.6	103.3	104.5 ?	104.6 ?	102.6	102.1	101.8	94.2	88.9	93	92.8	94.1	92.6	90.9	85.2	98.2 ?	
23	83.2	74.7	73.6	81.3	82.1	84.9	85.8	87.4	96.9	102.6	95.6	82.7	75	71	65.6	63.8	63.5	64.3	70.5	75.7	76.3	77.8	80.3	83.7	79.1	
24	85.5	88.6	91.2	92.6	93.7	94.9	96.1	91.5	82.9	68.9	58.3	53.4	47.9	43.8	41.8	40.9	40.1	41.3	53.2	72.4	75.2	82.7	88	94	71.6	
25	98.7	101.8	104	?	?	?	104.4 ?	100.9	87.5	77.8	63	50.3	48.1	54.1	61.8	67.7	73.9	80.6	87	92.1	95.1	96.4	96.6	98.3	82.9 ?	
26	101.4	102	102.7	103.1	104.7 ?	?	?	?	101.5 ?	95.6	86.9	84.5	82.1	100.9	103.1 ?	?	104.3 ?	102.8	104.4	101.2	99.8	99.9	93	88	98.1 ?	
27	91.3	91.8	92.1	92.1	93.8	95.6	91.4	85.1	79.3	78.4	74.2	71.3	71.3	73.4	76.4	78.9	83.4	89.2	97.2	101.6	102.4	100.6	94.6	98.1	87.6	
28	99.5	102	102.7	103.1	103.7	104.9 ?	?	104.5	100	89	80.7	74.2	76.1	71.6	73.1	73.8	77.1	82.6	90.5	92	90.6	93.9	95.7	96.1	90.3	
29	98.9	100.1	100.1	97.9	99.5	99	104.1 ?	?	?	?	?	?	?	?	?	?	?	?	?	104.6	103	101.1	102.4	102.8	101.7	101.2 ?
30	101.5	101.3	99.9	101.2	104.5	104.7	104.4	100.2	95.7	89.9	74.4	69.7	71.5	67.8	57.9	38.2	31.9	33	39.1	49.5	51	53.4	45.9	47.1	72.2	
31	55.9	59.5	61.2	59.5	57.5	61.9	65.6	56.9	49.2	39.5	41.1	44.4	47.2	47.9	45.9	44.3	41.9	41.1	45.8	58.2	78.9	90.7	93	96.6	57.6	
Avg	89.6	89.9	90.2	91	92.3	93.2	93.3	89.9	83.1	76.2	70	66.4	65.3	64.5	62	60.7	62	65.9	73.9	78.5	81.4	84	85.7	88.6	80.7 ?	
S D	11.1	11.8	12.3	12.1	11.9	10.6	9.6	12.2	15.9	20.3	21.3	22.2	24.2	25.8	25.8	25	24.4	22.5	21.1	18.5	16.5	14.1	12.9	11.7	14.5	
S/A	0.12	0.13	0.14	0.13	0.13	0.11	0.1	0.14	0.19	0.27	0.3	0.33	0.37	0.4	0.42	0.41	0.39	0.34	0.29	0.24	0.2	0.17	0.15	0.13	0.18	
Min	55.9	59.5	61.2	59.5	57.5	61.9	65.6	56.9	49.2	38	33.2	35.5	31.1	28.8	27.3	28.4	30.2	33	39.1	49.5	51	53.4	45.9	47.1	57.6	
Max	104	104.9	104.6	104.5	104.8	105	104.4	104.5	104.1	104.6	103.3	104.5	104.6	103.5	103.1	102.2	104.3	104.3	104.6	104.7	104.5	104.3	104.4	104.8	103.8	
n	307	298	301	312	307	287	270	302	321	346	348	339	344	360	339	336	331	334	337	339	330	321	320	308	7740	

Data Recovery: 0.0% missing; 0.0% untested; 13.3% 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**

**March 2010**

**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	2	1.3	0.7	0.2	0	-0.4	-0.7	0.2	3.7	8.1	11.6	13.9	15.4	16.1	16.2	16.3	16.2	14.5	11.3	8.8	7.3	5.8	5.2	5.3	7.5
2	5.2	4.8	3.9	3	2.1	1.3	1.1	1.5	2.7	5.2	7.4	8.6	9.1	9.2	8.3	7.1	5.6	4.5	3.5	2.8	2.5	2.4	2.6	3.3	4.5
3	4.2	4.5	4.3	4	3.4	2.8	1.8	1.2	1.2	1.7	2.6	3.5	4	4.5	4.6	4.7	4.5	4.4	4.1	3.7	3.4	3.3	3.2	3.2	3.5
4	3.2	3.3	3.3	3.1	2.9	2.6	1.7	1.9	4.8	7.9	10.1	11.6	12.8	13	13.1	13.5	13.6	12.9	10	6.9	5	3.6	2.5	1.6	6.9
5	0.5	-0.1	-0.2	-0.3	-1	-1.8	-2.1	-0.8	3.5	6.9	9	10.9	12.5	12.8	13.2	13.4	11.8	10.1	8.3	7	6.3	5.9	4.9	3.9	5.6
6	3.7	3.9	3.2	2.9	2.9	2.4	1.6	2.1	5.3	8.1	10.3	12.1	13.6	14.1	14.3	14.4	14.5	13.8	10.4	6.3	3.5	1.4	0.5	0.3	6.9
7	0.1	0	-0.3	-0.3	-0.4	-0.6	-1	0.5	5.1	9.9	14.7	17.9	19.1	19.4	19.6	19.9	19.6	17.5	14	11.2	9.2	8	7.2	6.5	9
8	5.5	4.7	4.4	3.9	3.4	2.9	2.6	4.1	8.7	12.9	15.5	18.1	20.3	21.3	21.4	21.7	20.2	17.8	13.7	9.7	7.3	5.5	4.3	3.8	10.6
9	3.7	3.3	2.9	2.6	2.3	1.7	1.2	2.7	9	15.3	19.7	22.7	24.4	24.7	24.7	24.9	23.2	19.2	15.1	11.9	9.7	8.7	8.5	8.4	12.1
10	7.9	7.4	7	7.1	7.4	8.1	8.7	9.7	12.6	15.9	18.3	19.7	21.8	23.9	24.2	23.7	23.4	22.3	20.7	19	17.8	16.7	15.7	14.9	15.6
11	14	13.4	13	12.8	12.6	12.4	12.2	12.2	12.9	14.4	15.7	16.5	18.6	20.8	21.3	20.6	19.6	18.7	17.1	15.9	15.5	15.2	15	14.9	15.6
12	15	14.5	14.2	13.9	14.2	14.4	14.4	14.4	14.5	15.4	18	17.9	18	18	17.1	15.7	15	14.7	14.6	14.4	14.5	14.3	14.6	15.1	15.3
13	15.4	15.3	15.1	14.8	14.8	14.8	14.7	14.7	14.9	15	17.1	20.1	23.1	24	24.1	24.3	24.2	23	19.9	17	15.6	14.7	14.3	14	17.7
14	13.6	12.6	11.4	10	9	8.7	8.5	9.3	12.2	15	15.9	14.9	13.6	13.3	13.7	13.2	13.4	12.8	12.1	11.2	10.4	10	9.7	9.4	11.8
15	9	9.2	9.3	9.2	9.2	9	8.1	7.8	10.5	14.1	15.1	14.9	13.8	12.5	11.3	10.9	10.3	9.5	8.9	8.8	8.9	8.7	8.4	8.3	10.2
16	8.4	8.4	8.2	7.8	7.6	7.4	7.5	7.5	7.4	7.6	8	8.5	9.1	10.1	11.5	12.5	13.8	13.7	11.9	9.5	7.6	6.2	4.7	3.4	8.7
17	2.5	2	1.9	1.6	1.3	1	0.7	3.9	10.2	15.8	20	22	22.6	21.9	21.3	19.8	18.6	16	13.4	11	9.3	8.6	8.2	8	10.9
18	7.7	7.4	7.2	6.8	5.8	5.1	5.1	6.7	11.3	16.8	19.5	21	21.9	21.6	21.4	20.2	18.2	16.2	14	11.8	10.4	9.4	8.4	7.1	12.5
19	6.2	5.7	5.5	5.2	4.9	4.6	4.6	7.7	13.2	18.3	21.6	24.3	26.1	26.5	26.9	27.1	27.1	25.3	20.8	16.2	13.5	11.8	10.6	9.8	15.1
20	9.3	8.9	8.8	8.6	8	7.1	6.7	9	14.4	19.9	24.6	27.5	28.8	28.8	28.4	28.4	28.3	26.3	23	19.6	17.3	15.4	13.7	12.8	17.6
21	12.1	11.7	11.1	10.5	9.9	9.8	9.5	11.9	16.8	21.3	24.4	25.9	26.6	26.2	25.4	24.5	23.4	22	19.9	17.7	16.8	16.3	16.2	16.2	17.8
22	16.3	16.3	15.9	16.1	16.7	17.2	17.6	18.1	18.2	18.2	18.9	19	18.7	17.8	16.8	16.7	16.4	15.9	14.8	13.4	12.1	11.8	12.1	12.3	16.1
23	11.5	10.5	9.3	7.9	6.8	5.8	5.8	6.8	7.4	6.7	7.1	9.5	11.7	13.2	14.8	16	16.9	17.4	16.3	14	13	12.6	11.9	11.1	11
24	10.4	9.6	8.7	7.9	7.4	7	6.9	9	12.9	16.5	19.6	21.4	22.8	23.6	24.3	25.2	26	25.3	22.4	17.9	15	13.2	12.2	11.8	15.7
25	11.2	10.7	10.2	9.8	9.6	9.5	9.4	10.9	15	18	20.3	23.1	24.7	25.1	25.4	24.7	24.2	22.9	20.6	19	17.9	17.4	17.2	17	17.3
26	17	16.9	16.7	16.6	16.5	16.3	16.1	16.1	17.6	19.4	21.7	22.9	23.2	21	14	9.8	8.2	7.3	6.8	6.2	5.9	5.5	4.9	4.9	13.8
27	4.8	4.1	3.4	2.9	2.4	2	1.9	4.5	8	10.7	12.5	13.9	14.2	14.3	14.3	14.1	13.6	11.7	8.9	6.4	5.2	5.1	4.8	4.7	7.9
28	4.4	4.3	4.4	4.6	4.9	5.5	6.3	8.2	11.1	15.4	19	20.9	22	22.1	22.2	22.2	22	21.1	19.2	17.8	17.3	16.7	16.6	17.2	14.4
29	17.5	16.9	16.4	16.3	16.5	16.4	15.4	14.2	13.6	13.4	13.5	13.7	14	14.1	14.4	14.8	15.2	15.3	14.8	14	13.3	12.7	12.4	12.5	14.6
30	12.6	12.7	12.7	12.8	12.6	12.3	12.1	11.7	11.1	11.6	15	17.7	18.8	19.2	19.8	20.7	21.5	21.6	19.5	15.7	13.7	12.7	12.3	11.9	15.1
31	11.6	11.6	11.6	11.7	11.7	11.4	10.8	13.2	16.1	18.3	20.3	22.5	24	24.3	24.8	25.6	26.3	26.1	24.2	19.7	16.3	14.2	12.6	11.3	17.5
Avg	8.6	8.2	7.9	7.5	7.3	7	6.8	7.8	10.5	13.3	15.7	17.3	18.4	18.6	18.5	18.3	17.9	16.8	14.7	12.4	11	10.1	9.5	9.2	12.2
S D	5.1	5.1	5.1	5.1	5.3	5.5	5.5	5.2	4.7	4.9	5.4	5.7	6	5.9	5.9	6.1	6.2	6	5.5	4.9	4.8	4.7	4.8	4.9	4.3
S/A	0.59	0.62	0.64	0.68	0.72	0.78	0.82	0.67	0.44	0.37	0.34	0.33	0.33	0.32	0.32	0.33	0.35	0.36	0.38	0.4	0.43	0.47	0.51	0.53	0.35
Min	0.1	-0.1	-0.3	-0.3	-1	-1.8	-2.1	-0.8	1.2	1.7	2.6	3.5	4	4.5	4.6	4.7	4.5	4.4	3.5	2.8	2.5	1.4	0.5	0.3	3.5
Max	17.5	16.9	16.7	16.6	16.7	17.2	17.6	18.1	18.2	21.3	24.6	27.5	28.8	28.8	28.4	28.4	28.3	26.3	24.2	19.7	17.9	17.4	17.2	17.2	17.8
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 Serial Number: Internal Temp Calibration Factor: N/A Calibration Date: 06/1995

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

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

Prepared by: Afshin M. Andreas, NREL

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

**March 2010**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	2.2	1.9	1.7	2.2	2.1	2	2.5	2.6	2.3	3	3.9	3.6	3.4	3.5	3.5	3.6	4.2	2.7	0.9	0.5	1.5	1.6	2	1.2	2.4
2	1.3	0.8	0.5	0.1	0	0.1	0.2	0.2	1.8	2.8	2.8	3.2	3.5	3	4.4	4.1	4.5	4.4	5.8	6.8	7.4	7	7.2	6.9	3.3
3	7	7.4	7.2	6.7	5.6	4.9	4.8	5	4.9	4.1	4.9	4.1	3.6	3.4	3.3	3.2	3	2.6	1.9	2.2	2.2	1.8	2.1	2.3	4.1
4	2	2.1	2.2	1.3	1.8	2	1.3	2.1	3.6	3.9	4	4	3.9	4.4	3.9	3.7	3.2	2.5	1.6	1.7	1.3	1.1	1.2	1	2.5
5	1.2	1.8	2.3	1.6	1.5	1.8	1.6	2.1	2.8	4	4	3.5	3.6	3.2	3	3.5	3.3	3.1	2.8	1.9	1.2	0.6	0.3	1	2.3
6	1.6	1.1	2	2.7	2.3	2	1.7	2.4	3.6	4.1	4.2	3.4	3.5	3.4	3.9	3.5	2.7	2.5	0.8	0.4	0.1	0.2	0.9	1	2.2
7	1.5	1.3	2.1	2.2	2	1.5	1.9	1.5	1.9	1.5	1.7	2.3	2.5	2.2	1.9	1.6	1.9	1.3	1.5	1.1	0.8	1.1	1.4	1.1	1.7
8	1.1	1.7	1.4	1.3	1.2	1.5	1.4	1.2	1.4	3.1	2.9	2.2	2	2.2	1.3	2.6	2.7	2.1	1.4	1.1	0.9	0.7	0.7	1.4	1.6
9	1.3	0.9	1.2	0.9	0.5	1.1	0.1	0.2	0.5	1	1.2	1.2	1.8	1.9	2.2	2.3	4.5	3.7	3	1.1	1.2	1.2	1.2	1	1.5
10	0.7	0.7	0.9	1	0.6	0.7	1	0.7	1.5	2.2	2.6	2.6	2.5	3.1	2.8	2	1.4	0.6	1.3	2.9	1.9	1.3	1.2	1.3	1.6
11	0.9	0.2	0.4	0.8	0.8	0.1	0.9	0.5	2	3.4	2.9	3.5	2.7	3	2.9	2.8	2.3	1.6	1.5	1.8	1.6	1.8	0.9	1.2	1.7
12	0.8	0.4	0.1	1.2	1	1.4	1.8	1.2	1	2.5	3.5	3.3	4.1	5	5.1	5.8	5.5	6	6.2	8.5	5.9	3	3.2	3.2	3.3
13	3.6	3.7	2.7	2.8	2	1.9	0.9	2.4	1.7	2.7	2.7	2.8	3.5	4	3.9	4.1	3.8	2.8	2	2.2	2.1	2.9	2.2	1.8	2.7
14	2.2	2.3	1.5	1.3	1.7	2.3	2	2.4	3.1	3.5	4.4	4.1	3.4	4	3.9	3.3	3.5	3.2	1.9	2.1	2.3	2	1.7	1.7	2.7
15	1.8	1.9	2.1	1.9	1.9	2.4	1.9	1.8	2.8	2.9	3.7	4.2	3.6	2.7	3.2	3.6	3.6	3.8	3.2	2.9	2.7	2.5	2	3.9	2.8
16	2.8	3.2	3.5	2.7	3.4	3.4	3.8	3.7	3.7	4.1	4.6	4.2	3	3.3	4.5	4	3.8	2.3	2	1.1	1.1	0.8	0.4	0.5	2.9
17	0.8	1.2	1	1.4	1.1	1	1	0.9	0.9	1.3	1.7	2.2	2.5	2.7	3.2	3.4	3.1	2.7	1.9	1.2	1.2	1.1	1.5	1.4	1.7
18	1.2	1.2	1	0.4	0.5	1.1	2	2.4	1.9	2.9	3.2	3.5	4	4	3.7	3.2	2.4	2.1	1.5	1.6	1.3	1.2	0.6	0.7	2
19	0.9	1.8	1.4	1.1	1.1	1	1.8	2	1.6	2.7	2.9	2.6	2.8	2.3	2.5	2.4	2.4	2.4	1.7	1.7	1.4	1.4	1.2	1.2	1.8
20	1.3	0.8	1.1	0.8	0.6	0.5	0.8	1.1	1.1	1	1.7	2.2	2.2	3.1	3.4	2.9	3.8	3.5	3.1	2.7	2.4	1.9	1.9	1.7	1.9
21	1.6	1.6	1.5	1.1	1.6	1.1	1	1.2	1.6	2.2	3.4	3.5	3.8	3.3	3.5	4	3.1	3.5	2.9	3	3.1	3.1	3	2.6	2.5
22	2.3	2.2	2.9	2.5	3.8	3.9	4.2	4	4	4.8	4	2.8	2.7	4.3	3.6	3.3	3.9	3.6	3	2.5	2.4	2.7	3.1	4.4	3.4
23	4.3	4.4	3.3	2.4	1.9	2	3.9	4.8	5.1	5.6	5.9	6.2	6.4	7	7.2	6.5	5.7	4.7	2.4	3.2	4	4	3.8	3.8	4.5
24	3.8	3.1	2.9	2.7	2.7	2.7	1.6	2.7	3	3.6	4.2	4.3	3.6	3.6	3.2	2.3	2.2	1.1	1.1	1.8	1.4	1.2	1.5	1.4	2.6
25	1.7	1.6	1.6	1.6	1.4	1.7	1.8	2.7	2.8	3.6	4.8	5.5	6.3	5.2	5.7	5.5	5.4	5	4.7	3.7	3.9	4.2	4.1	4.2	3.7
26	3.8	3.9	4.1	4.9	4.4	3.2	2.3	1.7	3.5	3.4	2.8	2.7	5	7	6.7	6.5	5.8	6.8	5.2	4.5	4.4	4.3	3.5	2.4	4.3
27	2.8	2.3	1.9	1.8	1.8	1.4	2.6	4.7	4.8	5.1	4.7	4.6	4.7	3.9	4.5	4.4	4.1	3.8	3.7	2.8	2.7	2.1	2.9	2	3.3
28	1.9	2	2.4	2.6	3.4	3.5	3.3	2.9	3	3.6	5.1	5.5	5.9	7.2	7.6	7.5	7	6.6	4.6	4.9	4.9	5.2	5.8	5.8	4.7
29	5.8	5.2	5.3	6.7	5.9	3.8	3.7	2.9	2.1	3.2	2.9	1.1	1.5	0.9	1.4	0.8	1.7	2.5	2.5	3.4	3.6	2.7	2.7	2.7	3.1
30	2.1	2.6	2.4	2.1	2.5	2.6	3.5	4.5	3.7	3.6	4.4	4.2	4.8	5.5	5.4	6	4.7	3.1	1.4	1.4	1.5	2.4	2.2	2.7	3.3
31	2.7	3.1	2.7	2.8	3	2.8	2.6	3.1	3.6	5	4.1	3.1	4	4	3.6	3.8	3.4	2	0.8	0.3	1.6	1.1	0.6	0.6	2.7
Avg	2.2	2.2	2.2	2.1	2.1	2	2.1	2.3	2.6	3.2	3.6	3.4	3.6	3.8	3.8	3.7	3.6	3.2	2.5	2.5	2.4	2.2	2.2	2.2	2.7
SD	1.5	1.5	1.4	1.5	1.4	1.1	1.2	1.3	1.2	1.1	1.1	1.2	1.2	1.5	1.5	1.5	1.3	1.5	1.5	1.8	1.6	1.5	1.6	1.5	0.9
S/A	0.66	0.69	0.67	0.73	0.69	0.58	0.58	0.58	0.47	0.35	0.32	0.34	0.34	0.39	0.39	0.4	0.36	0.47	0.58	0.72	0.68	0.68	0.72	0.7	0.33
Min	0.7	0.2	0.1	0.1	0	0.1	0.1	0.2	0.5	1	1.2	1.1	1.5	0.9	1.3	0.8	1.4	0.6	0.8	0.3	0.1	0.2	0.3	0.5	1.5
Max	7	7.4	7.2	6.7	5.9	4.9	4.8	5	5.1	5.6	5.9	6.2	6.4	7.2	7.6	7.5	7	6.8	6.2	8.5	7.4	7	7.2	6.9	4.7
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

**March 2010**

**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	269	283	279	271	272	273	271	271	287	287	297	291	293	288	274	268	262	265	271	247	53	59	45	41	284
2	34	21	358	5	27	256	323	4	35	52	50	42	54	52	48	39	25	14	23	28	16	12	15	8	27
3	359	349	333	316	318	313	317	313	312	307	317	314	310	304	308	311	309	298	298	296	294	297	294	291	317
4	295	292	293	282	286	289	284	290	302	307	313	300	297	287	294	290	293	300	318	330	326	308	298	280	298
5	286	287	291	283	279	286	281	294	305	326	323	308	325	330	338	319	335	349	349	325	335	348	273	266	316
6	298	301	306	316	317	308	297	316	336	340	342	360	326	352	4	19	11	22	39	29	54	218	225	243	339
7	251	254	262	266	267	271	267	282	308	323	323	295	296	294	279	275	249	215	192	194	193	164	180	179	265
8	182	193	199	208	218	223	251	285	345	25	6	25	15	20	360	169	161	132	126	140	142	157	165	193	146
9	192	210	222	229	327	334	332	328	13	56	99	174	196	227	217	164	102	95	88	75	81	104	108	104	129
10	94	106	142	153	174	167	176	165	185	213	219	210	217	228	241	251	257	204	159	185	182	181	142	168	199
11	199	94	75	110	104	53	62	80	95	113	114	122	137	141	149	153	137	90	77	92	95	95	115	124	118
12	107	86	70	100	92	81	74	63	61	74	74	83	86	92	88	83	83	78	67	68	68	75	113	148	82
13	161	188	185	191	184	112	155	193	187	261	249	226	242	226	222	220	214	206	199	191	187	195	221	224	206
14	212	197	194	192	179	187	191	196	202	216	231	230	248	280	277	276	269	257	277	273	275	285	277	287	241
15	290	292	273	286	284	273	273	283	294	290	294	302	307	336	302	313	312	312	304	302	317	324	318	343	303
16	331	332	329	326	331	329	332	331	332	342	353	351	353	337	360	352	0	348	357	353	43	1	311	272	342
17	290	302	281	276	298	290	289	296	339	35	24	37	91	110	103	91	95	104	120	117	89	71	60	58	73
18	69	52	42	346	298	357	349	5	23	37	38	41	41	45	33	47	48	57	74	56	49	27	318	293	36
19	290	294	296	295	292	287	294	293	305	333	340	1	12	3	336	12	38	124	132	128	125	148	165	166	344
20	153	163	150	165	173	154	153	153	146	173	206	212	196	173	164	171	126	123	154	159	164	160	167	178	162
21	175	175	179	178	192	170	163	171	180	163	174	170	169	170	159	180	155	121	105	119	118	122	119	112	152
22	108	101	118	128	134	141	124	119	130	132	155	155	165	163	169	180	181	183	177	172	169	181	200	232	155
23	234	238	230	220	215	216	220	221	233	234	243	253	257	245	248	258	251	264	260	258	262	267	267	269	246
24	270	273	270	270	263	265	242	259	262	280	275	276	292	302	301	302	294	273	100	115	105	115	148	148	273
25	157	156	153	157	154	155	154	161	174	182	179	181	187	178	180	177	176	176	179	178	175	176	176	183	175
26	182	180	172	186	188	199	200	220	259	261	278	286	286	10	8	19	18	17	15	6	2	2	24	356	342
27	348	356	355	346	349	345	35	41	45	54	52	39	50	53	61	56	53	56	61	60	70	58	69	50	45
28	45	57	63	66	72	76	74	77	92	101	115	125	104	127	143	137	140	153	144	150	150	152	158	160	124
29	156	162	160	155	151	174	354	15	30	64	68	58	72	9	31	24	325	298	315	325	337	329	328	319	83
30	313	315	308	289	283	286	290	299	302	293	296	283	269	266	267	267	280	278	274	244	261	261	276	266	282
31	266	271	272	272	270	268	267	284	289	298	296	300	312	289	284	298	297	308	310	230	106	126	161	168	286
Avg	247	262	259	245	247	257	284	291	301	317	310	294	293	292	289	285	326	63	75	86	74	100	150	227	298
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**

**March 2010**

**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	3.7	3.7	3.4	3.8	3.8	3.6	4.2	4.6	4.9	6.3	7.6	7.4	6.9	7.1	7	6.9	6.9	5	1.8	1	2.8	2.6	3.3	2.1	4.6
2	2.1	1.6	1.1	0.5	0	0.4	0.7	0.8	2.9	4.8	4.5	5.2	5.4	4.8	7.3	6.9	8.2	8.1	10.3	11.3	12.7	12.3	12.7	11.9	5.7
3	12	13	12.2	12.4	10.8	9.4	9.3	9.2	9.8	8.3	9.2	8.5	7.9	7.7	7.3	7.2	7.2	5.8	5.2	5.3	5.4	4.6	4.8	5	8.2
4	5	5.2	5.1	3.7	4.3	4.6	3.3	5.1	7.4	7.6	7.7	8	7.6	8.8	8.2	7.5	7	5.2	2.9	2.8	2.1	1.9	2.3	2	5.2
5	2.4	3.3	4.2	3.2	2.9	3.4	3	4.3	5.9	7.1	7.4	7	7.2	6.3	5.8	6.7	5.7	5.4	4.9	3.7	2.3	1.2	0.8	1.7	4.4
6	3.1	2.2	4.1	4.8	4.3	3.8	3.7	5	6.5	6.8	6.9	6.2	6.2	6.2	6.5	6.2	4.9	4.2	1.5	0.8	0.2	0.5	1.2	1.4	4
7	2.1	1.9	2.7	3	3	2.7	2.9	3.1	3.8	3.1	3.4	4.6	5.2	4.6	3.9	3.4	3.5	2.4	2.4	1.9	1.6	2.1	2.4	1.9	3
8	2.1	2.6	2.3	2	1.9	2.5	2.1	2.5	2.9	5.1	4.9	4	3.7	4.1	2.9	4.4	4.5	3.2	2.4	1.9	1.6	1.3	1.4	2.4	2.9
9	2.1	1.5	1.9	1.3	0.9	1.7	0.3	0.5	1.2	2	2.2	2.5	3.4	3.9	4.4	4.3	6.9	5.8	4.7	1.9	1.7	1.6	1.7	1.5	2.5
10	1.1	1.1	1.5	1.7	1.4	1.6	2.2	1.6	2.9	3.9	4.7	4.7	4.6	5.2	4.6	3.8	2.7	1.1	2.2	5	3.6	2.3	1.9	2.4	2.8
11	1.8	0.8	0.8	1.5	1.4	0.5	1.7	1.4	3.2	5.2	4.8	5.3	4.7	4.9	4.8	4.6	3.8	2.3	2.4	2.8	2.8	3	2.1	2.6	2.9
12	2	1.2	0.5	2.3	2	2.6	3	2.4	2.2	4.7	5.9	5.7	7.1	8.4	8.6	9.6	9	10.1	10.9	13.9	9.2	5.3	5.7	5.8	5.8
13	6.6	6.9	4.8	5	4	3.5	2.1	4.6	3.8	5.2	5.1	5.1	5.7	6.7	7	7.5	7.4	5.2	3.1	3.5	3.5	4.5	4.2	3.3	4.9
14	3.8	3.5	2.4	2.1	2.8	3.8	3.4	4.3	5.2	6.2	7.7	7.3	5.8	7.9	7.3	6.7	6.1	5.5	3.5	3.9	4.1	3.9	3.5	3.4	4.8
15	3.4	4	4	3.9	3.9	4.5	3.6	3.9	6.2	6.4	7.2	8.3	7	5	7.2	7.4	7.2	7.4	6.5	6.2	5.2	4.8	4.3	6.9	5.6
16	5.3	5.8	6.4	5	6.2	6.1	6.8	6.9	7	7.1	7.6	6.9	5.4	6.3	7.7	6.6	6.3	3.9	3.5	1.9	2	1.2	0.8	0.9	5.2
17	1.3	1.8	1.6	2.3	1.8	1.7	1.6	1.8	1.9	2.3	3.1	4.1	4.2	4.6	4.9	5.4	4.8	4.1	3.1	1.9	1.9	1.9	2.4	2.4	2.8
18	1.9	1.8	1.6	0.9	0.9	2	3	3.8	3.1	4.6	5.4	5.9	6.7	6.3	6.1	5.5	4.1	3.3	2.5	2.6	2	1.8	1	1.3	3.3
19	1.7	2.8	2	1.8	1.7	1.8	2.7	3.4	3.6	4.6	4.6	4.7	5.4	4.4	4.7	4.5	4.3	3.8	2.6	2.6	2	2.1	2.2	2	3.2
20	2	1.6	1.8	1.4	1.3	1	1.4	1.7	1.8	1.9	3.2	4.1	4.1	5.3	5.9	4.7	5.9	5.6	5	4.8	4.1	3	3.2	3.1	3.3
21	3	2.7	2.5	1.8	2.4	1.9	1.6	2.2	2.7	3.6	5.7	6	6.5	5.7	6.1	7	5.3	5.5	4.6	4.6	4.9	4.9	4.8	4.3	4.2
22	3.4	3.3	4.5	4.1	6.3	6.5	7	6.6	6.7	7.9	7.2	5	4.9	7.7	6.4	5.8	6.7	6.2	5.3	4.3	4.3	4.7	5.3	7	5.7
23	7.3	7.3	5.4	4.6	3.6	3.8	7.8	8.8	9	9	10.5	11	11.1	12.2	12.3	10.9	9.6	8.5	4.2	5.2	7	6.7	6.3	6.7	7.9
24	6.4	5.8	5.1	4.7	4.5	4.5	2.9	4.9	5.4	7	8.2	8	7	7	6.3	5	4.4	2.3	2	2.5	2.1	1.7	2.3	2.4	4.7
25	2.7	2.4	2.5	2.6	2.5	2.8	2.9	4.4	4.8	5.9	8.1	9	10	8.3	10.5	9.4	9.1	8.3	7.4	6.2	6.9	7.2	7	7.3	6.2
26	6.5	6.9	7.8	8	7.3	5.3	4.1	3.6	6.2	6.6	5.5	5.7	8.7	11.5	11.1	11.7	10.8	11.4	9.6	7.9	7.9	7.7	6.3	4.6	7.6
27	4.5	4	3.2	3.1	3	2.5	4.6	7.9	7.8	8.5	7.7	7.6	7.7	7	7.3	6.7	6.8	6.4	6.4	4.9	4.5	3.7	4.6	3.4	5.6
28	2.9	3.7	3.9	4.4	5.4	5.8	5.5	4.7	4.6	5.9	8.4	9.2	9.6	11.9	12.6	12.3	12.2	11.2	8	7.8	8.3	8.7	10.6	10.1	7.8
29	10.5	9.5	9.4	11.7	10.8	7.1	6.7	5.3	4	5.1	4.8	2.7	2.9	2.1	3	2	3.9	5.3	5.4	6.3	6.6	5.3	5.7	5.4	5.9
30	4.9	5.4	5.1	4.7	5.4	5.6	7.4	9.2	7.7	8.1	9.2	8.1	9.3	10.3	9.9	11.4	9.5	5.8	2.5	2.2	2.2	3.7	4	4.4	6.5
31	4.8	5.6	5	5.2	5.4	4.6	4.6	6.4	8.1	9.9	8.6	6.9	8	8.5	7.4	7.5	6.5	4.2	1.9	0.6	2.6	1.9	1.3	1.2	5.3
Avg	4	4	3.8	3.8	3.7	3.6	3.7	4.4	4.9	5.8	6.4	6.3	6.4	6.8	6.9	6.8	6.5	5.6	4.5	4.3	4.1	3.8	3.9	3.9	4.9
S D	2.6	2.7	2.6	2.7	2.6	2.1	2.2	2.4	2.3	2	2.1	2	2.4	2.4	2.5	2.5	2.3	2.5	2.6	3	2.8	2.6	2.8	2.7	1.6
S/A	0.65	0.69	0.67	0.72	0.7	0.58	0.59	0.55	0.46	0.35	0.32	0.31	0.31	0.35	0.35	0.37	0.35	0.45	0.58	0.7	0.67	0.69	0.71	0.69	0.33
Min	1.1	0.8	0.5	0.5	0	0.4	0.3	0.5	1.2	1.9	2.2	2.5	2.9	2.1	2.9	2	2.7	1.1	1.5	0.6	0.2	0.5	0.8	0.9	2.5
Max	12	13	12.2	12.4	10.8	9.4	9.3	9.2	9.8	9.9	10.5	11	11.1	12.2	12.6	12.3	12.2	11.4	10.9	13.9	12.7	12.3	12.7	11.9	8.2
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: 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**

**March 2010**

**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	1010	1010	1010	1010	1010	1011	1012	1013	1013	1013	1012	1011	1011	1011	1010	1011	1011	1012	1012	1012	1012	1013	1013	1011
2	1013	1013	1012	1012	1011	1012	1012	1013	1012	1011	1010	1009	1008	1007	1004	1004	1003	1003	1001	1000	998	996	994	992	1006
3	992	991	990	990	991	993	993	994	995	996	996	997	998	998	999	999	1000	1001	1002	1002	1003	1003	1004	1004	997
4	1004	1004	1004	1004	1005	1005	1005	1006	1007	1007	1007	1007	1007	1006	1006	1006	1007	1008	1008	1009	1010	1010	1011	1011	1007
5	1011	1011	1011	1011	1012	1012	1013	1013	1014	1014	1014	1014	1014	1013	1013	1014	1014	1014	1015	1016	1016	1016	1017	1017	1014
6	1017	1017	1017	1017	1018	1018	1019	1019	1020	1020	1020	1020	1019	1019	1019	1019	1019	1019	1019	1020	1020	1020	1020	1020	1019
7	1020	1020	1019	1019	1019	1020	1021	1022	1021	1021	1021	1020	1019	1018	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1019
8	1015	1015	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1014	1013	1013	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014
9	1014	1014	1014	1014	1014	1014	1015	1015	1015	1016	1016	1015	1015	1014	1013	1013	1013	1013	1013	1014	1014	1014	1014	1013	1014
10	1013	1012	1012	1012	1012	1012	1013	1013	1013	1014	1014	1013	1013	1012	1012	1012	1012	1013	1013	1014	1014	1014	1014	1014	1013
11	1014	1014	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1013	1012	1012	1012	1011	1011	1011	1011	1011	1011	1011	1011	1012
12	1010	1010	1009	1009	1008	1008	1008	1008	1009	1008	1008	1007	1006	1005	1004	1002	1001	1000	999	997	996	995	995	994	1004
13	994	994	994	994	994	993	993	994	994	993	994	993	993	993	992	992	991	991	992	992	993	993	994	994	993
14	994	994	994	993	994	994	995	995	995	996	995	995	995	995	996	997	997	998	998	999	999	1000	1000	1000	996
15	1000	999	999	999	999	999	1000	1000	1000	1001	1000	1000	1001	1001	1001	1002	1002	1003	1004	1005	1005	1006	1006	1006	1002
16	1007	1007	1008	1008	1008	1009	1010	1011	1012	1012	1012	1013	1013	1013	1013	1013	1013	1014	1014	1015	1015	1016	1016	1016	1012
17	1015	1015	1015	1015	1015	1015	1016	1016	1016	1017	1016	1016	1015	1015	1014	1014	1014	1014	1013	1013	1013	1013	1012	1012	1015
18	1011	1011	1010	1009	1009	1010	1010	1010	1010	1010	1010	1009	1009	1008	1008	1007	1007	1007	1007	1007	1007	1007	1007	1007	1009
19	1007	1008	1008	1008	1008	1009	1009	1010	1010	1011	1011	1011	1011	1011	1011	1011	1012	1012	1013	1013	1014	1014	1014	1014	1011
20	1014	1014	1014	1014	1014	1015	1015	1016	1016	1017	1017	1017	1016	1016	1015	1015	1015	1015	1016	1016	1016	1017	1017	1017	1016
21	1017	1017	1016	1016	1017	1017	1018	1018	1019	1019	1018	1018	1017	1017	1016	1016	1015	1015	1014	1015	1015	1014	1014	1014	1016
22	1013	1011	1011	1010	1009	1009	1009	1008	1009	1008	1008	1007	1007	1006	1005	1004	1004	1004	1004	1005	1005	1004	1004	1004	1007
23	1004	1004	1004	1003	1003	1003	1003	1003	1003	1003	1003	1003	1002	1002	1003	1003	1004	1004	1005	1005	1006	1007	1008	1009	1004
24	1010	1010	1011	1011	1011	1012	1013	1014	1014	1014	1014	1014	1013	1013	1014	1014	1015	1015	1016	1016	1016	1016	1016	1016	1014
25	1016	1016	1015	1015	1015	1016	1016	1016	1016	1016	1016	1015	1014	1012	1010	1009	1009	1008	1009	1008	1007	1006	1005	1005	1012
26	1004	1003	1001	1001	1000	1000	1000	1000	1000	999	1000	1000	1000	1000	1002	1004	1006	1007	1009	1010	1012	1014	1015	1016	1005
27	1017	1017	1018	1018	1019	1021	1022	1022	1024	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1023
28	1025	1024	1023	1022	1022	1022	1022	1022	1022	1021	1020	1018	1017	1015	1014	1013	1012	1013	1012	1011	1011	1010	1010	1009	1017
29	1008	1007	1006	1005	1004	1004	1004	1004	1005	1004	1004	1004	1004	1003	1002	1000	1000	1000	1000	1001	1001	1001	1000	1000	1003
30	999	999	999	999	999	1000	1000	1001	1002	1003	1004	1003	1003	1002	1001	1001	1002	1002	1003	1003	1004	1004	1005	1005	1002
31	1006	1006	1006	1006	1007	1008	1009	1010	1010	1010	1010	1011	1010	1010	1010	1011	1011	1011	1012	1012	1013	1013	1014	1014	1010
Avg	1009	1009	1009	1009	1009	1009	1010	1010	1010	1011	1011	1010	1010	1009	1009	1009	1009	1009	1009	1010	1010	1010	1010	1010	1010
S D	8	8	8	8	8	8	8	8	8	8	8	8	8	7	7	7	7	7	7	7	7	8	8	8	7
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	992	991	990	990	991	993	993	994	994	993	994	993	993	993	992	992	991	991	992	992	993	993	994	992	993
Max	1025	1024	1023	1022	1022	1022	1022	1022	1024	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1023
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**

**March 2010**

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

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