

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

**May 2011**

**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	37	162	362	562	739	873	942	912	704	496	509	403	176	34	0	0	0	0	0	6913	
2	0	0	0	0	0	24	165	281	552	730	856	921	918	888	740	519	378	181	32	0	0	0	0	0	7184	
3	0	0	0	0	0	35	162	351	561	718	834	870	915	854	751	583	348	183	39	0	0	0	0	0	7205	
4	0	0	0	0	0	52	117	113	59 ?	106	263	129	131	130 ?	125	283	264	211	40	0	0	0	0	0	2025	
5	0	0	0	0	0	39	204	422	627	807	945	995	904	949	821	640	431	208	43	0	0	0	0	0	8035	
6	0	0	0	0	0	39	198	379	618	665	610	912	1005	859	572	248	130	153	40	0	0	0	0	0	6427	
7	0	0	0	0	0	42	177	414	605	777	904	978	873	792	759	563	380	172	39	0	0	0	0	0	7473	
8	0	0	0	0	0	4	?	61 ?	250	136	409	432	353	149	502	405	192	130	29	0	0	0	0	0	3053	
9	0	0	0	0	0	41	178	377	582	772	888	863	594	831	686	612	321	178	40	0	0	0	0	0	6962	
10	0	0	0	0	0	38	174	398	597	763	919	953	931	858	736	608	411	213	44	0	0	0	0	0	7644	
11	0	0	0	0	0	35	103	213	381	439	537	759	1004	925	801	635	419	207	44	0	0	0	0	0	6500	
12	0	0	0	0	0	53	215	418	617	784	903	918	1043	725	793	604	390	134	45	0	0	0	0	0	7641	
13	0	0	0	0	0	49	165	259	202	180	93	162	167	172	200	155	113	98	13	0	0	0	0	0	2029	
14	0	0	0	0	0	20	133	224	393	351	687	686	623	597	642	470	351	110	25	0	0	0	0	0	5314	
15	0	0	0	0	0	27	127	211	173	447	588	737	617	398	226	256	72	179	21	0	0	0	0	0	4079	
16	0	0	0	0	1	26	48	213	545	780	761	496	801	651	305	184	126	158	60	0	0	0	0	0	5156	
17	0	0	0	0	0	21	90	299	371	537	691	377	573	507	536	303	325	230	54	0	0	0	0	0	4912	
18	0	0	0	0	0	15	149	309	259	554	505	476	862	954	706	353	232	101	39	2	0	0	0	0	5516	
19	0	0	0	0	2	56	182	287	346	601	782	363	868	572	588	572	433	171	50	0	0	0	0	0	5874	
20	0	0	0	0	2	43	77	131	420	790	743	962	823	542	448	404	343	99	37	1	0	0	0	0	5864	
21	0	0	0	0	4	53	192	420	622	793	925	953	890	585	582	497	244	181	72	1	0	0	0	0	7014	
22	0	0	0	0	2	61	185	432	616	781	837	920	968	827	629	478	359	210	52	4	0	0	0	0	7362	
23	0	0	0	0	3	19	135	133	336	168	256 ?	478	853	870	761	486	383	191	12	0	0	0	0	0	5085	
24	0	0	0	0	2	39	189	307	567	763	882	947	943	744	730	523	259	158	65	2	0	0	0	0	7121	
25	0	0	0	0	2	32	160	341	555	735	887	956	914	771	480	391	259	214	52	3	0	0	0	0	6752	
26	0	0	0	0	3	50	191	378	573	740	867	929	941	872	776	597	393	169	52	2	0	0	0	0	7531	
27	0	0	0	0	4	55	157	375	539	778	955	872	992	957	705	512	430	133	51	7	0	0	0	0	7520	
28	0	0	0	0	3	74	194	262	455	627	886	960	994	865	818	538	329	167	59	4	0	0	0	0	7236	
29	0	0	0	0	4	65	208	401	607	677	663	1007	1035	611	723	624	444	181	43	5	0	0	0	0	7298	
30	0	0	0	0	3	51	207	339	594	750	870	914	913	677	712	522	237	166	60	3	0	0	0	0	7018	
31	0	0	0	0	6	48	182	328	569	723	863	917	909	875	774	618	425	226	63	6	0	0	0	0	7532	
Avg	0	0	0	0	1	40	161	304	476	620	732	767	815	700	617	474	317	171	44	1	0	0	0	0	6235	
S D	0	0	0	0	2	16	41	101	158	218	226	261	236	233	191	140	106	37	14	2	0	0	0	0	1617	
S/A	0	0	0	0	1.25	0.39	0.26	0.33	0.33	0.35	0.31	0.34	0.29	0.33	0.31	0.3	0.34	0.22	0.33	1.56	0	0	0	0	0.26	
Min	0	0	0	0	0	4	48	61	59	106	93	129	131	130	125	155	72	98	12	0	0	0	0	0	2025	
Max	0	0	0	0	6	74	215	432	627	807	955	1007	1043	957	821	640	444	230	72	7	0	0	0	0	8035	
n	0	0	0	0	25	359	360	368	364	370	369	370	371	369	372	372	372	372	372	356	21	0	0	0	0	5191

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.7% exceed the 15% QC threshold -- 5225 total daylight measurements.

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

May 2011

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	*	
2	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
3	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
4	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
5	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
6	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
7	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
8	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
9	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
10	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
11	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
12	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
13	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
14	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
15	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
16	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
17	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
18	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
19	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
20	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
21	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
22	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
23	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
24	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
25	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
26	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
27	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
28	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
29	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
30	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
31	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
Avg	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	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	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	0
Min	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	N/A	N/A	0	0	0	0	0	N/A	N/A
Max	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	N/A	N/A	0	0	0	0	0	N/A	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	0

Daylight Data Recovery: 100.0% missing; 0.0% untested; 0.0% exceed the 15% QC threshold -- 5225 total daylight measurements.

Instrument: Eppley NIP Serial Number: 23398E6 Calibration Factor: 7.1447 μV/W/m² Calibration Date: 07/2007

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

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

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

**May 2011**

**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	34	87	133	173	195	197	206	323	400	373	251	210	102	32	0	0	0	0	0	2715
2	0	0	0	0	0	20	103	147	165	191	208	210	198	200	192	194	124	77	23	0	0	0	0	0	2053
3	0	0	0	0	0	29	86	131	164	222	273	307	274	244	187	156	132	85	28	0	0	0	0	0	2318
4	0	0	0	0	0	50	112	113	47 ?	97	258	129	124	110	125	265	121	56	19	0	0	0	0	0	1625
5	0	0	0	0	0	19	48	61	71	79	82	110	139	88	81	75	64	48	19	0	0	0	0	0	984
6	0	0	0	0	0	23	71	108	120	233	298	289	210	189	229	240	128	102	26	0	0	0	0	0	2266
7	0	0	0	0	0	26	63	85	116	140	146	144	196	204	186	157	133	97	33	0	0	0	0	0	1727
8	0	0	0	0	0	4	15 ?	48	246	136	308	407	330	145	414	303	182	121	28	0	0	0	0	0	2686
9	0	0	0	0	0	27	72	93	110	129	190	298	310	255	248	250	142	78	25	0	0	0	0	0	2228
10	0	0	0	0	0	30	74	98	127	157	176	238	316	324	244	155	105	57	21	0	0	0	0	0	2120
11	0	0	0	0	0	25	79	179	322	389	522	442	150	115	108	100	92	64	27	0	0	0	0	0	2615
12	0	0	0	0	0	27	55	71	95	116	147	256	333	271	189	171	151	126	41	0	0	0	0	0	2048
13	0	0	0	0	0	52	150	243	202	180	93	162	167	172	200	155	113	97	13	0	0	0	0	0	2000
14	0	0	0	0	0	20	122	199	368	317	461	481	403	392	368	294	207	106	25	0	0	0	0	0	3763
15	0	0	0	0	0	27	100	197	173	390	390	426	415	347	223	210	68	123	20	0	0	0	0	0	3109
16	0	0	0	0	?	26	48	186	222	214	338	346	385	459	300	182	126	152	52	0	0	0	0	0	3035
17	0	0	0	0	0	21	89	209	241	388	376	290	423	342	371	281	160	141	48	0	0	0	0	0	3381
18	0	0	0	0	0	15	114	216	219	384	420	460	345	195	206	249	183	73	36	2	0	0	0	0	3117
19	0	0	0	0	?	37	153	246	305	387	444	350	399	475	364	180	119	80	28	0	0	0	0	0	3565
20	0	0	0	0	2	36	76	131	157	242	334	300	343	302	290	244	236	96	37	1	0	0	0	0	2829
21	0	0	0	0	4	29	64	78	97	112	126	248	288	270	219	255	191	149	56	1	0	0	0	0	2186
22	0	0	0	0	2	33	78	101	106	131	192	228	156	230	330	256	184	100	37	4	0	0	0	0	2169
23	0	0	0	0	4 ?	19	128	133	326	168	203	388	393	266	239	241	181	100	12	0	0	0	0	0	2802
24	0	0	0	0	4 ?	37	123	190	194	177	207	227	253	310	273	240	200	135	56	2	0	0	0	0	2628
25	0	0	0	0	3 ?	32	131	157	260	246	202	214	256	322	289	231	166	93	35	3	0	0	0	0	2640
26	0	0	0	0	4 ?	39	108	166	214	243	253	262	258	244	197	177	151	92	36	2	0	0	0	0	2446
27	0	0	0	0	5 ?	36	100	155	220	161	200	265	199	193	269	194	112	91	49	7	0	0	0	0	2255
28	0	0	0	0	3	55	139	243	347	283	166	226	178	156	153	198	121	99	44	4	0	0	0	0	2415
29	0	0	0	0	3	32	77	151	220	286	293	222	194	236	208	134	109	93	39	5	0	0	0	0	2304
30	0	0	0	0	2	34	117	176	187	228	234	296	334	323	284	223	145	108	42	2	0	0	0	0	2733
31	0	0	0	0	6	44	113	189	244	236	238	269	268	221	174	148	121	84	39	6	0	0	0	0	2401
Avg	0	0	0	0	1	30	93	149	195	221	257	281	276	258	243	207	144	98	33	1	0	0	0	0	2489
S/D	0	0	0	0	2	11	32	55	83	94	110	96	97	82	56	42	26	12	2	0	0	0	0	0	574
S/A	0	0	0	0	1.33	0.36	0.35	0.37	0.42	0.42	0.43	0.34	0.33	0.38	0.34	0.27	0.29	0.27	0.36	1.6	0	0	0	0	0.23
Min	0	0	0	0	0	4	15	48	47	79	82	110	124	88	81	75	64	48	12	0	0	0	0	0	984
Max	0	0	0	0	6	55	153	246	368	390	522	481	423	475	414	303	236	152	56	7	0	0	0	0	3763
n	0	0	0	0	18	350	365	372	367	372	372	370	372	372	372	372	372	372	356	21	0	0	0	0	5195

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.6% exceed the 15% QC threshold -- 5225 total daylight measurements.

Instrument: Eppley PSP    Serial Number: 31393F3    Calibration Factor: 7.6820 μV/W/m²    Calibration Date: 07/2007

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

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

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

**May 2011**

**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	13.5	11.9	11.2	11.4	11.5	10.6	13.8	15.7	16.6	17.3	18.2	19.6	20.2	20.6	19.7	18.9	18.1	17.2	16	15.1	14.9	14.7	14.3	14.2	15.6
2	13.9	13.9	13.1	12.8	13	13.4	15.6	17.5	19.2	20.7	22.1	23.3	24.5	25.4	26	26.1	26	25.1	23.7	22.1	20.9	20	19.6	19.1	19.9
3	18.7	18.2	18.1	17.7	17.4	17.2	18.3	20.3	22	22.9	24.1	25.1	25.9	26.4	26.8	27.1	26.8	25.7	23.9	22.8	22	21.4	20.9	20.6	22.1
4	20.3	20.1	19.8	19.5	19.4	19.4	20.4	21.1	17.7	13.6	13.9	13.8	13.2	12.9	11.8	12.5	13.7	15	14.5	12.9	11.8	11.3	10.9	10.7	15.4
5	10.9	10.7	9.6	8.7	6.9	6.5	7.8	10.3	12.5	14.2	15.7	16.7	17.5	18.4	19.2	19.3	19.3	19	17.8	15.8	14.4	13	12.7	11.8	13.7
6	12.1	12.3	12.1	11.8	11.6	11.8	13.4	15.6	17.3	18.1	18.6	19.7	20.4	21.1	21.2	20.6	20.4	19.8	17.8	16	14.7	14	13.2	12.9	16.1
7	12.4	12.2	12	11.5	11.3	11.7	12.6	15	17.8	19.8	20.6	21.4	22.5	23	23.2	23.7	24.1	21.4	19.8	18.2	17.6	17.4	17.4	17.2	17.7
8	17	16.5	16.1	15.7	15.4	15.1	14.5	14.5	15.5	16.1	16.5	17.3	18.2	17.9	18.3	19	19.1	18.8	18.1	17.3	16.6	15.4	14.1	13.4	16.5
9	13	12.5	12.1	12.1	12	12.1	13.7	15.9	18.5	20.7	22.2	23.6	23.6	24.5	24.8	23	22.2	21.5	19.8	18	17	16.2	15.6	14.6	17.9
10	13.8	13.2	12.4	11.9	11.3	11.4	12.9	15.5	18.4	20.4	21.7	22.5	22.6	22.3	22.6	22.3	21.7	20.6	19	16.6	15.5	15.1	14.3	13.8	17.2
11	12.4	11.9	12	12.4	11.6	12.1	13.2	14.5	16	16.8	17.1	17.8	19	19.7	19.8	19.4	18.3	17.2	15.3	13.8	13.4	13.2	13	12.5	15.1
12	12.5	12.3	10.9	10.5	10.9	11.5	13.7	15.8	17.2	19.1	20	20.8	21.8	21.2	21.1	20.6	19.9	18.2	17.2	16.4	16.4	16	15.7	15.5	16.5
13	15.2	15.3	15	15.1	15.1	15.5	16.9	17.7	18.3	18.7	18.6	18.4	18.1	18.4	18.6	18.3	17.6	17.8	17.6	17.4	17.5	17.6	17.6	17.6	17.2
14	17.6	17.9	17.9	18	18.1	18.2	18.7	20	21.7	22.7	24.4	26	26.3	27.5	27.2	27.1	26.9	25.8	24.9	23.9	23.2	22.6	22	21.6	22.5
15	21.4	20.9	20.8	20.5	20.3	20.2	20.5	21.4	21.4	22.4	23.2	24.3	24.7	25.1	24.8	24.5	24.1	23.7	23.4	23	22.4	21.7	21.4	20.8	22.4
16	20.1	19.7	19.2	18.6	18.6	18.5	18.4	18.5	20.7	22.9	24.3	24.8	25.4	25.4	24.6	23.9	23.1	22.8	21.5	20.6	20	19.9	19.7	19.3	21.3
17	19.3	19.3	19.1	19	18.5	18.3	18.8	19.8	20.9	21.3	22.7	19.7	20.2	21.9	23.2	22.9	22.3	21.8	21	20.1	19.8	19.4	19.1	18.6	20.3
18	18	17.6	17.3	17.6	17.7	17.7	18.7	19.9	20.6	21.9	22.6	22.8	23	24.2	24.2	24.3	24.4	23.6	22.8	21.8	21	19.9	19.3	18.7	20.8
19	18.1	17.3	16.6	16	15.5	15.2	16.1	17.3	18.4	20.2	21.5	21.5	22.1	22.7	22.8	23	23.3	22.8	22.3	20.8	19.9	20	19.7	19.6	19.7
20	18.6	17.8	17.4	17.1	17	16.9	17.4	17.8	17.8	20.3	21.9	23.3	24.1	24.6	24.8	25.2	25.2	22.6	21.4	20.3	19.3	18.2	17.3	16.9	20.1
21	16.7	16.9	17	16.8	16.3	16.2	17.6	20.3	22.3	23.5	24.5	25.4	26.3	26.6	26.5	24.9	23.7	23.1	22.4	21.1	20.1	19.7	19	18.6	21.1
22	18.3	18	17.5	16.9	17	16.9	18.3	21.1	23.6	25.3	26.2	27.2	27.4	27.8	27.6	26.7	26.2	25.5	24.6	23.9	23.2	22.6	22.4	22.4	22.8
23	22.1	21.7	21.5	21.7	21.6	21.9	22.7	23.1	24	24.1	24.5	25.1	26.9	28.2	29.2	29.2	28.9	28.3	26.8	26	25	24.5	24.1	23.7	24.8
24	23.3	23.2	22.8	22.6	22.5	22.7	23.4	24.2	25.4	27.2	28.8	29.6	30.6	31.6	32.1	32	28.7	27.1	27.6	26.3	25.5	24.4	22.4	19.4	26
25	19.4	19.5	19.3	19.5	19.8	19.9	20.4	22.5	24.1	25.1	26.5	28.1	29.8	29.9	29.3	29.8	29.2	29.3	28.3	26.8	26.3	25.6	25	24.4	24.9
26	24	24	23.8	23.3	23	22.9	23.6	25.1	26.9	28.4	29.4	30.3	31.4	31.9	32.3	32.5	32	30.6	28.7	26.7	25.5	24.7	24	23.5	27
27	23.2	22.9	22.5	22	21.7	21.9	22.7	23.9	24.9	26.1	27	27.8	28.4	29	28.8	28.4	28.2	27	26	24.8	24	23.4	23.3	22.9	25
28	22.4	22	21.8	21.5	20.9	21.4	23.4	23.8	24.8	25.4	26.5	27.7	27	28.1	28.3	28.3	27.9	27.3	26.7	25.3	24.3	23.6	23.2	22.7	24.8
29	22.5	22.4	22.2	22.2	22	22.3	23.6	25	25.9	26.9	27.5	29	30	30	29.7	29.3	28.8	28.1	27.3	26.4	25.5	24.7	24.1	23.8	25.8
30	23.4	23	22.8	22.6	22.4	22.3	23	24.4	26.2	27.7	29.2	30.6	31.7	32.5	33.1	33.6	32.3	31.8	32.1	30.3	28.6	27.5	26.6	25.8	27.6
31	25.2	24.7	24.3	24	23.9	23.9	25.4	27.9	29.9	31.8	32.9	33	32.7	33.1	32.8	30.6	29.5	28.5	27	25.6	24.9	24.2	23.8	24	27.7
Avg	18	17.7	17.4	17.1	16.9	16.9	18	19.5	20.9	22	23	23.7	24.4	24.9	25	24.7	24.3	23.5	22.4	21.2	20.4	19.7	19.2	18.7	20.8
S D	4.2	4.2	4.3	4.4	4.5	4.5	4.3	4.1	4	4.3	4.4	4.6	4.7	4.8	4.9	4.8	4.5	4.4	4.5	4.5	4.4	4.3	4.3	4.2	4.1
S/A	0.23	0.24	0.25	0.26	0.27	0.27	0.24	0.21	0.19	0.19	0.19	0.19	0.19	0.19	0.2	0.2	0.19	0.19	0.2	0.21	0.22	0.22	0.22	0.23	0.2
Min	10.9	10.7	9.6	8.7	6.9	6.5	7.8	10.3	12.5	13.6	13.9	13.8	13.2	12.9	11.8	12.5	13.7	15	14.5	12.9	11.8	11.3	10.9	10.7	13.7
Max	25.2	24.7	24.3	24	23.9	23.9	25.4	27.9	29.9	31.8	32.9	33	32.7	33.1	33.1	33.6	32.3	31.8	32.1	30.3	28.6	27.5	26.6	25.8	27.7
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: CSI HMP-35C    Serial Number: P0520031    Calibration Factor: 1.00 deg C/mV    Calibration Date: 03/1988

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

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

Prepared by: Afshin M. Andreas, NREL

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

**May 2011**

**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	91.7	99.7	102.9	99.1	97.9	103.1	91.2	75.7	66.5	63	57.4	53.4	52.3	53.1	58.9	60.5	62.3	67	73.6	80.1	83.7	87.3	90.8	94.1	77.7
2	97.6	97.5	101.5	103.1	103.9	104.2	100.3	96.7	89.9	85.3	76.4	72.1	68.7	66.5	64.5	65	66.1	72.3	79.6	85.8	86.8	89.9	91.8	96.1	85.9
3	99.6	102.1	103.6	104.7	?	?	103.5 ?	97.7	88.8	81.9	78.8	77.1	73.5	72.9	72.2	70.5	70.9	76.3	82.3	88	91.4	94.6	97.3	99.8	87.6
4	101.1	101.5	102.8	104.4	104.7	104.7 ?	102.8	101.3	102.2 ?	103.9	102.8	103	102.6	102.2	103.3	95.7	87	82.5	85.2	94.5	99.8	102.1	103.3	103.4	99.9
5	95.8	88.4	93.3	97.4	103.4 ?	104.1	100.1	89.2	74.6	65.8	56.5	52.1	47.7	42.7	40.2	39.7	40.5	42.1	48.4	58.8	66.7	78.7	80.4	88.2	70.6
6	92	98.4	99.3	100.7	101.2	101.6	97.7	88.5	77.3	70.2	62.6	58.7	53.6	49.8	48.1	51.8	54.8	62.5	76.2	85.8	94.5	98.4	102.5	104.1 ?	80.4
7	?	?	?	?	?	?	?	96.1	77.9	64.1	59.1	54.5	52.5	48.9	47.9	45.5	46.5	67.8	77.3	84.5	88.3	91.5	95.1	97.4	70.3 ?
8	98.6	100	97.6	99	101.2	103.4 ?	?	?	?	103.7	103.9 ?	100.4	94	96.1	94.4	88.8	87.5	90.3	90.6	93.4	95.9	100.6	104.2 ?	?	97.2 ?
9	?	?	?	?	?	?	?	101.6 ?	92.2	79.9	70.4	60.2	58.2	50.9	52.1	73.3	69.3	70.1	79.3	92.7	101	104.2	104.9 ?	?	78.8 ?
10	?	?	?	?	?	?	?	95.3	78.5	61.8	54.7	49.9	48.4	60.4	53.4	54.6	56.5	58.4	67.7	83.4	93.9	92.6	95.5	97.5	70.7 ?
11	102.2	104.3 ?	103.9 ?	?	?	?	103.3	101.8	97.5	92	85.5	82.1	79.1	77.5	76	80	84.8	89.4	97.7	100.6	101.4	101.9	102	103.3	93.6 ?
12	103.4	103.6	?	?	?	?	102.2	97.7	93.1	81.1	74.7	71.3	69.5	73.7	74.8	76.4	77.3	84.5	89.2	92.8	94.7	96.6	97.2	97.6	87.6 ?
13	98.5	98.4	99.4	99.7	100.6	101	98.5	97.5	96.9	95.8	96.5	97.8	101.4	101.8	100.4	100.3	101.6	98.3	98.2	101	101.4	101.6	102.9	103.6	99.7
14	104.6 ?	104.3	104.9 ?	103.9	104.9 ?	?	?	103.9	101.9	101.7	97.3	91.4	90.4	82.6	84.5	82.3	87.2	92.2	95.1	98.7	100.6	104.1	105 ?	102.2 ?	97.4 ?
15	99.3	100.6	102.3	102.9	104.4	?	103.6 ?	99.8	100.3	98.3	93.8	90.5	88.4	82.3	84.8	87.6	89.6	94.3	93.6	94.8	98.3	102.3	102.2	100.3	96.3
16	102.6	104.3	?	?	?	?	?	?	101.6	91.5	82.5	77.5	63.1	61.6	67.7	69.4	76.5	83.3	95.6	101.4	103.9	104.4	?	?	86.7 ?
17	?	?	?	?	103.2 ?	103.5 ?	99.7	95.4	88.4	86.7	80.5	86.8 ?	92.6	83.1	77.5	86.5	91.4	93.2	98.5	102.5	103	103.5	102.9	101.5	94 ?
18	102.1	104.1	104.4	103.1	103.5	?	104.3 ?	100.3	99	94.5	81.7	80.7	82.8	74.7	80.5	74.1	72.7	72.9	70	66.6	74.6	84.7	89.1	83.9	87.1
19	84	92.5	96.2	99.7	101.1	102.7	101.9	98.2	93.9	86.2	74.9	72.7	68.7	68	70.8	70.7	70.5	74	75.5	83.1	89.8	94	96.8	94.3	85.8
20	97.9	101.9	104.4 ?	?	?	104 ?	100.5	98.3	98.9	87.1	79	72.3	68.6	67.4	65.4	62.7	67.8	84.6	88.6	93	99.5	?	?	?	86.4 ?
21	?	?	?	?	?	?	103.3 ?	92.5	78.6	72.7	68.7	65.1	61.6	60.5	61.8	77.7	81.1	82.1	85	92.7	96.5	98.3	100.9	103.2	82.3 ?
22	104.5 ?	?	?	?	?	?	104.5 ?	97.5	89.2	77.5	67.1	63.3	58.5	57.7	63.1	65.4	70.2	75.8	81.8	81.3	85.3	92.9	97	98.4	80.6 ?
23	100.9	103.4	105 ?	?	?	?	104.6 ?	104.8 ?	103	102.7	102.1	98.6	86.5	78.3	76.8	79.4	82.1	84.7	88.5	91.6	97.8	100.7	103	104.1	95.2 ?
24	104.3	104.6 ?	?	?	?	?	103.9 ?	101.1	97	91.1	85	78.6	73.8	67.8	62.3	63.7	69.6	73.1	74.5	79.9	83.9	91.6	97.6	?	84.4 ?
25	?	?	?	?	?	?	?	101.9	95.8	89.5	84	80.8	75.2	79.8	82.5	81.2	85.3	87	88.6	90.4	98.6	101.8	104.5	?	89.2 ?
26	?	104.3 ?	103.8	103.7	101.1	97.7	93.8	87.2	78.1	71.4	68.2	66.7	62.5	59.3	56.5	56.7	66.6	73.7	78.7	83.1	89.9	94.3	98.6	101	82.5
27	102.5	103.6	104.6	?	?	?	104.6 ?	100.5	93.9	85.9	80.4	74	67.9	66.7	70.4	71.8	72.3	79	84	89.2	94	97.4	98.3	101	87.7 ?
28	102.6	102.7	103.1	104.3	?	104.6 ?	99.8	96.1	90.3	87	78.9	73.8	79.5	71.8	73.1	74.9	77.5	80	79	83.8	90.3	98.5	101.6	104	89.4
29	?	?	?	?	?	?	103.7 ?	98.6	92.9	88	82	74.7	69.4	68.3	73.5	78.2	82.9	85.1	86.6	89.5	93.8	97	100.2	101.9	87 ?
30	102.9	102.9	104.2	104.8	104.8 ?	?	104.3 ?	99.2	91.5	87.4	83.4	78	72.9	70.2	68.1	68.5	75.1	77.7	76.2	83.3	91.9	97.4	102.4	104.6 ?	89.2 ?
31	?	?	?	?	?	?	101.2 ?	90.7	81.5	77.4	72.9	72.9	72.4	65.9	64.8	77.7	81.5	85.6	90.3	94.5	96.8	99.4	101.4	101.3	84.9 ?
Avg	99.5	101	102	102	102.6	102.9	101.4	96.7	90.4	84.7	78.8	75.2	72.1	69.8	70	72	74.4	78.7	83.1	88.4	93.2	96.7	98.9	99.5	86.7 ?
S D	5	4.1	3.3	2.5	2.1	2	3.4	6	9.6	12.1	13.5	14.3	15	14.5	14.8	13.7	13.3	11.7	10.6	9.5	8.3	6.2	5.5	5.1	8
S/A	0.05	0.04	0.03	0.02	0.02	0.02	0.03	0.06	0.11	0.14	0.17	0.19	0.21	0.21	0.21	0.19	0.18	0.15	0.13	0.11	0.09	0.06	0.06	0.05	0.09
Min	84	88.4	93.3	97.4	97.9	97.7	91.2	75.7	66.5	61.8	54.7	49.9	47.7	42.7	40.2	39.7	40.5	42.1	48.4	58.8	66.7	78.7	80.4	83.9	70.3
Max	104.6	104.6	105	104.8	104.9	104.7	104.6	104.8	103	103.9	103.9	103	102.6	102.2	103.3	100.3	101.6	98.3	98.5	102.5	103.9	104.4	105	104.6	99.9
n	252	248	202	176	139	107	206	331	351	372	369	368	372	372	372	372	372	372	372	372	370	357	323	288	7438

Data Recovery: 0.0% missing; 0.0% untested; 16.7% failed QC -- 8928 total measurements.

Instrument: CSI HMP-35C    Serial Number: P0520031    Calibration Factor: 0.10 %/mV    Calibration Date: 01/1999

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

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

Prepared by: Afshin M. Andreas, NREL

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

**May 2011**

**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	12.3	11.1	9.8	9	9.1	8.8	10.1	14.6	18.6	21.3	23.6	25.3	26.4	26.6	25.9	24.6	23.6	22.5	19.9	17	15.3	14.2	13.6	13.2	17.3
2	13	12.7	12.4	11.7	11.2	11.2	12.8	16.8	20.6	24	26.4	28.2	28.9	29.5	30.2	30.9	31	30.6	28.3	24.7	22	20.4	19.4	18.9	21.5
3	18.4	18	17.7	17.3	16.9	16.6	17.6	20.9	24.3	26.6	28	29.3	30	30.4	30.8	31.4	31.5	30.6	28.3	25	23	21.9	21.1	20.5	24
4	20	19.8	19.5	19.2	19.1	19	19.9	21.3	21.4	17.5	15.8	16.1	15.6	14.9	14.3	14.1	15.2	16.7	17.4	14.7	11.9	10.7	10	9.6	16.4
5	9.3	9.5	9	8.1	7	6	7.4	11.1	14.8	17.3	19.3	20.4	21	21.5	22.5	23.7	24	23.7	21.9	18.2	14.7	12.4	10.8	9.9	15.1
6	9.4	10	10.4	10.5	10.3	10.1	12	15.8	19.2	21.4	22	22.7	23.7	24.2	24.7	24	23.1	22	21.2	18.4	15.8	14.1	13.1	12.5	17.1
7	11.9	11.4	11.2	11	10.8	10.9	12.2	15.2	19.2	23.1	25.7	27.2	27.8	27.7	28	28.3	29.3	28.4	24.9	21	18.7	17.7	17.4	17	19.8
8	16.6	16.4	16.1	15.9	15.5	15.2	14.9	14.6	15.2	16.8	17.3	18.6	20.9	22	21.2	23.1	23.6	22.4	21.2	19.3	17.5	15.7	13.7	12.7	17.8
9	12	11.3	10.8	10.8	11	11.4	12.9	16.5	20.3	24	27	28.9	29.4	28.9	29.3	30.1	28.6	26.9	24.8	21	18	16.3	15.1	14.1	20
10	13.1	12.3	11.6	11.3	11	10.8	12.2	15.9	19.9	23.6	26	27.1	27.3	27.4	28	28.1	27.8	26.6	24.2	20.1	16.7	14.7	13.5	12.3	19.2
11	11.6	10.8	10.2	10.2	10.5	10.2	11.7	13.3	16.1	19.2	20.9	21.9	23	24	24.8	25.5	25.1	23.7	21	16.9	14.2	13	12.5	11.9	16.8
12	11.5	11.2	10.7	9.9	9.7	10	12.3	16.7	20.4	23.7	26.2	27.4	28.1	28.1	27.2	27	26.3	24.2	21	18.6	17.2	16.6	16.1	15.6	19
13	15	14.9	14.8	14.7	14.7	14.8	16.1	18.5	20.1	20.8	21.1	20.5	20.6	20.5	20.7	20.6	20.1	19.7	19.3	18.6	18.2	18.1	18.1	17.9	18.3
14	18	18.1	18.3	18.4	18.4	18.4	18.7	20.2	22.1	24.2	25.9	28.6	30.5	31.2	31.7	31.4	31	29.9	27.5	25.6	24.3	23.5	22.7	21.9	24.2
15	21.6	21.1	20.9	20.8	20.6	20.2	20.4	22	23	23.7	25.7	27.4	28.6	28.6	28.1	27.1	26.5	25.6	25.1	23.8	22.8	22	21.4	21	23.7
16	20.4	20.1	19.6	18.9	18.8	19	19.2	19.5	22	26.4	28.4	29.1	29.1	29.5	29.1	27.6	26	25.1	24.3	22.7	21.3	20.5	20.1	19.6	23.2
17	19.3	19.2	19.2	19	18.7	18.1	18	19.4	22.2	23.3	25.2	25.6	22.2	23.1	25.7	26.2	25.8	25.4	24.4	22.1	20.5	19.6	19	18.3	21.6
18	17.5	17	16.6	16.4	16.4	16.4	17.1	19.8	22.5	24.6	26.7	27.3	27.3	27.7	28.5	28	27.8	27.1	25.4	23.3	21.7	20.3	19	18.5	22.2
19	17.8	17	16.3	15.6	15.1	14.8	16.1	18.2	20.3	22.4	25.2	26.4	25.5	26.6	27.1	27.7	27.9	27.6	26.1	23.3	20.3	19.4	19.4	19.4	21.5
20	18.8	17.8	17.1	16.7	16.4	16.5	17.2	18	18.8	22.3	25.6	27	28.1	28.2	28.3	28.3	29.3	28.3	25.2	22.6	20.9	19	17.6	16.7	21.9
21	16.1	16.3	16.5	16.5	16	15.8	17.4	21.1	25.1	28	29.6	30.5	31.1	31.8	31.4	31.4	29.4	27.2	25.9	23.7	21.2	19.8	18.8	18.1	23.3
22	17.6	17.1	16.6	16.1	15.9	15.9	17.5	21	26.5	30.5	32.6	33.5	33.1	32.7	33.1	31.8	31.2	30.2	28.5	26	24.4	23.3	22.6	22.4	25
23	22.2	21.7	21.3	21.2	21.3	21.5	22.2	23.6	24.9	26.3	26.1	25.7	27.7	30	31.9	33.1	33.4	32.9	30.7	28	26.4	25.4	24.8	24.2	26.1
24	23.7	23.3	23	22.7	22.4	22.4	23.1	25.2	27.3	30.3	32.9	34.5	34.7	35.3	36	36.6	35.4	32.3	30.9	28.9	26.5	25	23.8	21.6	28.3
25	20.1	19.7	19.5	19.6	19.7	19.8	20.2	22.5	26.2	29.2	31.5	33.6	35.4	36.4	36.2	35.3	34.5	34.1	33.2	30	27.4	26.2	25.4	24.8	27.5
26	24.2	23.7	23.6	23.3	22.9	22.6	23.6	26.2	29.2	31.7	33.2	34.3	35	35.4	36	36.8	37.2	36	33.3	29.9	27	25.4	24.4	23.7	29.1
27	23.3	22.9	22.6	22.1	21.4	21.2	22.4	24.6	27.3	29.4	31	32	32.2	32.3	33	32.9	32.8	31.8	29.2	26.9	24.9	23.6	23	22.6	26.9
28	22	21.4	21	20.8	20.4	20.3	22.8	25.4	27.3	29.2	31	32.4	32.5	31.7	32.3	33.1	33.2	31.5	30.3	28.1	25.6	24.1	23.2	22.6	26.8
29	22.1	21.8	21.7	21.6	21.5	21.6	23.6	26.7	29.7	31.7	32.7	33.8	35.5	35.7	34.9	34.9	34.6	33.5	30.9	28.6	26.8	25.5	24.6	23.9	28.2
30	23.4	23	22.6	22.4	22.2	22.1	23.3	25.7	28.2	31.4	33.9	35.6	36.9	37.9	38.6	40.1	39.6	36.7	35.7	33.5	30.6	28.6	27.4	26.3	30.2
31	25.4	24.9	24.4	24	23.7	23.6	24.7	28.1	31.8	35.5	38.4	39.6	39.1	38.4	38.4	38	36.6	35.3	32.8	29.3	26.4	24.9	23.9	23.3	30.4
Avg	17.7	17.3	16.9	16.6	16.4	16.3	17.4	19.9	22.7	25.1	26.9	28.1	28.6	29	29.3	29.4	29.1	28	26.2	23.5	21.4	20.1	19.2	18.6	22.7
S D	4.7	4.7	4.7	4.8	4.8	4.8	4.7	4.4	4.3	4.7	5.1	5.3	5.4	5.4	5.4	5.5	5.3	4.9	4.6	4.7	4.7	4.7	4.7	4.7	4.4
S/A	0.27	0.27	0.28	0.29	0.29	0.3	0.27	0.22	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.2	0.22	0.23	0.24	0.25	0.19
Min	9.3	9.5	9	8.1	7	6	7.4	11.1	14.8	16.8	15.8	16.1	15.6	14.9	14.3	14.1	15.2	16.7	17.4	14.7	11.9	10.7	10	9.6	15.1
Max	25.4	24.9	24.4	24	23.7	23.6	24.7	28.1	31.8	35.5	38.4	39.6	39.1	38.4	38.6	40.1	39.6	36.7	35.7	33.5	30.6	28.6	27.4	26.3	30.4
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: CSI Serial Number: Internal Temp Calibration Factor: N/A Calibration Date: 06/1995

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

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

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

**May 2011**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0.4	0.1	0.1	0.8	0.3	0.1	1.4	2.2	2.6	2	1.8	1.4	1.8	2.2	2.8	3.6	3.4	3.3	3.2	2.8	1.8	1	1	0.7	1.7
2	0.7	0.9	0.1	0	0.1	0.3	0.5	1.2	2.5	2.7	2.3	2.6	2.4	3	2.7	2.9	2.8	2.4	1.4	1.8	1.6	2	3.1	2.9	1.8
3	2.9	3.1	2.3	1.8	1.4	1.3	0.9	2	3.1	3.7	3.5	3.5	3.8	4.1	4.1	4.4	4.1	4.3	3.8	3.4	4	3.8	3.3	3.4	3.2
4	3.2	2.4	1.7	1.8	2.1	1.9	2.5	3.8	4.7	2.9	2.8	2.5	3.3	2.7	3.2	3.8	3.7	2.4	1.1	0.2	0.9	1.2	1.3	1	2.4
5	2.3	1.9	1.5	1.2	1.6	1.7	2.1	2.4	3.5	3.4	4	3.7	2.7	2.8	2.8	3	2.8	2.5	1.5	0.7	0.3	0.1	0.2	0.3	2.1
6	1.3	1.7	2	1.9	1.6	1.7	2.3	2.4	4.5	4.9	4.5	4.5	5	4.1	3.9	2.3	2.3	3.8	3.1	2	0.9	1.4	1.1	1	2.7
7	0.8	1.4	0.8	0.8	1.4	2.1	1.8	2.2	2.1	2.3	1.8	2	1.8	2.1	2.9	2.3	1.4	2.3	2.3	2	2.1	1.1	0.7	0	1.7
8	0.2	0.4	0.5	0.7	0.1	0.1	0.3	0.2	0	0.1	0.7	1.1	1	2.2	1.6	1.8	1.4	1.3	1.2	1.3	0.3	0	0.4	0	0.7
9	0	0	0.1	0.3	0.7	0.3	1.1	1.6	2.4	1.9	2.3	2.4	2.1	3	2.5	3.4	3.2	2.5	2.2	1.6	1.6	0.5	0.3	0	1.5
10	0	0	0.1	0.2	0	0.4	0.7	1.6	1.6	2.7	3.4	3.8	4	2.8	2.9	3.1	2.9	3.2	2.5	2.7	1.8	1.3	0.2	0.1	1.8
11	0.6	0	0.3	0.3	0.1	0.9	1	1	1.4	2.6	3	2.8	2.6	2.6	2.7	3.4	3.6	3.2	3.5	1.9	2.2	2.4	1.4	1.3	1.9
12	1	0.6	0.5	0.9	1.3	0.9	1.1	1.7	1.7	1.5	1.8	1.6	2.1	2.6	3.1	3.7	3.4	3.3	2.8	2.1	2.1	2	1.7	0.7	1.8
13	0.4	0.3	1	0.5	0.4	1.2	2	2.3	1.9	1.6	1.7	1.9	2.9	2.4	3.7	3.7	3.5	3.3	3.1	3	2.8	3	3.2	3	2.2
14	2.8	3.4	2.5	2.9	3	3	3.3	3.6	3.9	3.5	3.5	3.5	3.2	3.1	5.2	5.5	4.7	4.1	3.6	2.4	1.8	1.8	1.9	2.1	3.3
15	2.1	1.5	1.8	1.3	1.3	1.3	1.9	2.5	2.6	3.6	3.8	4.5	4.8	4.5	4.7	3.5	3.1	1.6	2	2.8	2.2	2.2	3.1	2.7	2.7
16	1.3	0.6	1.4	1.2	1.5	1.6	1.4	1.1	1.2	3.3	3.6	3.6	4.5	4.8	4.4	4.2	3.7	3.8	3.1	2.9	2.6	1.8	1.4	0.7	2.5
17	0.3	0.3	0.2	0.4	0.2	0.4	1.3	2.5	3.4	3.7	4.7	3.6	3.1	2.1	4.6	4.4	5.9	5.4	4.7	3.3	3.7	3	2	0.7	2.7
18	0.5	0.8	0.4	0.8	0.4	0.6	1.6	2.1	1.3	1.6	2	2.5	3.1	4.3	5.2	2.8	2.4	2.5	2.4	2.2	1.9	1	2.1	2.1	1.9
19	1.6	2	1.7	1.8	1.5	1.2	1.5	1.2	1.5	1.7	2.9	3.3	3.2	2.7	2.9	3.3	3	2.6	1.5	0.3	0.6	0.8	0.9	1.2	1.9
20	1.3	0.9	1	0.9	1.3	1.2	1.2	1.8	1.4	2.5	3	3.6	3.9	3.4	3.1	2.5	2.5	2.2	1.8	0.8	0.2	0.1	0	0	1.7
21	0	0.2	0.3	0.1	0.2	0.4	0.7	1.2	2	2.5	2.6	2.9	2.2	2	2.4	3.6	3	2.5	1.7	1	0.6	0.4	0.5	0.7	1.4
22	0.2	0	0	0	0	0	0.1	0.7	1	1.3	1.7	2.2	2.5	2.7	3.6	4.2	4.2	4.1	3	2.4	2.4	2.3	2.4	2.2	1.8
23	1.6	1.5	1.9	2	2.5	2.8	1.9	2.5	3.8	3.9	2.3	3.4	5.3	5.1	5.2	4.5	4.8	4.1	4.1	4.8	4.6	4.5	4.2	3.9	3.6
24	3.7	4	3.4	3	2.9	3.1	3.5	3.4	3.2	2.8	2.8	3.9	3.3	2.7	3.8	3.9	2.4	0.7	0.9	1	0.6	0.3	4.1	1.2	2.7
25	0.5	0.7	1.4	0.8	0.3	0.8	0.4	1.8	2.2	2.4	1.9	1.2	1	1.6	2.8	1.7	2.1	1.8	2.2	1.8	1.6	1.6	2	2	1.5
26	1.3	1.7	1.5	1.7	1.8	2	2	2.2	2.8	4	4.3	3.9	4.3	4.5	4.3	3.9	3.8	4.2	3.8	3.4	3.4	3.4	3.6	4	3.2
27	4	3	2.1	0.7	0.7	1	2.1	3.7	4.1	4.5	4.8	4.8	5.2	4.9	5.2	5.4	4.9	3.7	3.4	2.5	1.9	2.3	2.3	1.4	3.3
28	1.2	0.9	0.9	0.2	0	0.4	1.6	2	2.1	2.7	3.2	3.5	5.1	4.3	4.1	3.8	3.5	3.3	2.4	1.8	1.4	1.1	1.2	0.5	2.1
29	0.9	0.6	1	0.8	0.6	0.3	1.3	2.7	3.5	2.6	2.4	2.1	2.3	2.7	3.7	4.3	4.2	4.1	2.9	2.4	2.2	2.2	2	1.7	2.2
30	1.7	1.8	2.1	2.2	2.1	1.7	2.2	2.9	2.9	2.9	2.5	2.3	2.2	1.8	1.3	1.3	1.8	1.4	0.5	0.6	0.4	1	0.5	0.2	1.7
31	0.5	0.4	0.6	0.8	0.8	0.9	0.8	1.7	2.4	1.8	2.3	3	3.6	3.4	3.8	4.2	3.2	2.7	2.8	1.8	1.2	0.9	0.9	1.9	1.9
Avg	1.3	1.2	1.1	1.1	1	1.1	1.5	2.1	2.5	2.7	2.8	2.9	3.2	3.1	3.5	3.5	3.3	3	2.5	2	1.8	1.6	1.7	1.4	2.2
SD	1.1	1.1	0.9	0.8	0.9	0.9	0.8	0.9	1.1	1	1	1	1.2	1	1	1	1	1.1	1	1	1.1	1.1	1.2	1.2	0.7
S/A	0.87	0.91	0.78	0.76	0.85	0.75	0.54	0.42	0.44	0.38	0.35	0.34	0.38	0.32	0.29	0.28	0.31	0.35	0.4	0.51	0.62	0.69	0.7	0.84	0.3
Min	0	0	0	0	0	0	0.1	0.2	0	0.1	0.7	1.1	1	1.6	1.3	1.3	1.4	0.7	0.5	0.2	0.2	0	0	0	0.7
Max	4	4	3.4	3	3	3.1	3.5	3.8	4.7	4.9	4.8	4.8	5.3	5.1	5.2	5.5	5.9	5.4	4.7	4.8	4.6	4.5	4.2	4	3.6
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

**May 2011**

**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	82	303	119	118	113	308	74	74	83	95	100	85	78	82	105	100	104	93	88	99	104	119	130	141	95
2	121	154	164	201	207	94	121	132	155	185	211	204	208	199	198	188	172	159	161	172	164	174	189	189	181
3	191	198	196	199	210	199	193	195	198	216	211	193	183	169	174	177	174	165	166	176	184	185	179	179	185
4	187	195	196	192	194	185	176	184	293	327	323	320	311	317	298	310	315	312	302	292	257	256	256	284	273
5	320	318	300	286	265	271	277	293	318	326	327	328	311	282	278	271	266	258	243	225	208	203	211	202	294
6	192	195	193	196	196	189	191	203	193	207	198	194	191	195	200	223	208	190	224	227	245	226	201	208	201
7	236	246	235	240	263	272	288	305	325	340	301	289	309	279	264	294	296	97	96	98	125	144	104	97	287
8	271	254	269	325	326	336	203	317	15	31	56	21	13	51	65	61	66	76	53	67	66	0	223	0	49
9	0	0	251	257	261	292	273	277	279	292	319	298	294	326	327	87	67	63	48	64	70	85	99	111	350
10	265	0	280	291	278	274	296	290	330	329	333	354	11	47	15	35	54	54	64	69	70	78	108	119	22
11	243	76	61	44	306	24	22	31	44	58	57	61	53	49	49	60	62	58	61	64	68	63	53	51	55
12	50	359	289	335	352	12	18	48	65	71	100	95	63	98	136	99	106	121	111	122	122	121	127	135	96
13	123	129	119	123	125	110	133	135	127	153	152	120	125	125	106	91	94	112	105	101	109	102	99	100	112
14	108	112	91	117	111	94	101	115	130	123	132	132	110	146	137	133	141	144	155	159	160	163	162	178	130
15	174	200	180	197	178	179	187	177	181	181	177	160	162	158	153	163	162	184	171	176	180	174	187	190	173
16	209	201	198	209	204	217	201	195	142	154	172	163	168	170	155	145	125	113	109	100	108	113	116	106	152
17	138	53	43	92	92	110	133	149	138	131	129	157	156	148	132	116	102	113	109	110	115	128	141	151	126
18	135	129	112	109	86	64	88	113	145	133	161	150	136	124	126	169	174	174	161	158	163	170	191	196	146
19	193	193	195	196	198	207	221	235	232	233	246	233	253	219	195	204	200	195	211	196	158	179	217	204	213
20	196	214	248	257	253	254	258	257	244	233	224	248	247	249	252	256	0	65	43	50	196	191	226	0	250
21	8	232	262	271	266	257	281	309	325	321	316	318	310	342	13	94	94	93	81	111	127	158	174	193	7
22	192	151	0	359	0	230	228	200	223	239	138	135	137	137	118	123	111	112	119	137	140	141	141	147	133
23	146	159	158	181	159	161	176	184	185	178	208	170	165	163	177	176	169	178	176	184	182	186	188	188	176
24	191	191	193	190	192	191	192	212	216	209	212	235	235	239	247	250	318	122	199	196	173	164	293	294	219
25	152	134	217	113	130	165	197	176	172	166	188	208	206	87	72	63	75	74	117	127	151	138	149	163	139
26	174	194	192	198	198	195	198	210	215	212	209	201	191	193	196	184	176	163	159	164	176	183	187	191	189
27	189	197	221	194	166	159	157	162	178	165	161	165	164	175	162	165	167	166	157	165	159	143	154	150	168
28	166	186	186	183	0	130	172	166	185	181	165	154	133	146	132	137	136	138	182	155	152	161	159	171	153
29	159	159	160	163	165	159	167	185	186	195	192	189	185	177	158	142	138	143	160	160	161	162	173	187	166
30	195	195	190	194	196	225	215	230	244	247	236	247	256	269	280	223	169	149	269	210	224	194	198	206	222
31	229	232	249	265	274	294	302	318	352	25	40	47	60	44	46	62	61	60	79	76	46	47	54	87	46
Avg	181	188	193	190	195	192	184	189	197	193	191	186	173	164	154	141	128	129	130	137	144	153	169	172	165
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: NRG Vane Serial Number: 0 Calibration Factor: 0.1408 deg/mV Calibration Date: 06/1995

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

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



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

**May 2011**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	1	0.3	0.4	1.3	0.7	0.4	2.5	3.8	4.6	4.1	3.5	2.9	3.4	4	4.6	5.6	5.6	5.5	5.4	4.7	3.2	2.1	1.7	1.6	3
2	1.4	1.7	0.5	0.1	0.2	0.6	1	2.3	4.1	4.6	4.1	4.9	4.9	5.1	5.1	5.1	5.2	4.2	2.6	3.4	3.1	3.4	5	4.8	3.2
3	4.7	4.9	4.2	3.4	3	2.5	1.9	4	5.5	6.5	6.6	6.2	6.6	6.8	6.8	7.4	7.1	7.6	6.6	5.9	6.9	6.3	5.8	5.7	5.5
4	5.7	4.7	3.3	3.1	3.5	3.4	4.7	6.4	8.6	6	5.9	5.2	6.2	5.2	6.5	7.2	6.9	4.8	2.7	0.8	1.5	1.8	2	2.2	4.5
5	4.2	3.9	3	2.5	2.6	3.4	4	4.7	6.3	6.7	7.8	7.3	6.2	5.5	5.6	5.8	5	4.9	2.7	1.4	1	0.6	0.7	1	4
6	2.2	2.7	3	3.1	2.6	2.9	4.1	4.5	7.6	8.7	8	8.3	8.4	6.7	6.9	4.4	4.2	6.7	5.5	3.8	1.9	2.6	2.1	1.9	4.7
7	1.5	2.3	1.8	1.6	2.6	3.9	4.2	4.4	4.2	4.8	4.1	4	4.3	4.5	5.5	5.1	3.4	4	4	3.3	3.5	2	1.5	0.1	3.4
8	0.6	1.1	1.1	1.5	0.3	0.4	1.1	0.5	0.3	0.5	1.7	2.6	2.2	4	3.4	3.2	2.5	2.2	2.2	2.1	1	0	0.7	0	1.5
9	0	0	0.4	1	1.6	1.1	2.4	3.9	4.8	3.9	4.6	5.1	4.5	5.6	4.8	5.6	5.6	4.5	4.2	3.2	2.6	1.3	0.8	0	3
10	0	0	0.3	0.9	0.4	1.2	2.1	3.5	3.6	5.3	6.5	7	6.8	4.8	5.4	5.7	4.7	5.3	4.3	4.3	3.2	2.5	0.8	0.6	3.3
11	1.1	0.2	0.7	0.7	0.4	1.7	2.4	2.3	3	4.5	5.7	5.3	5	5	5	5.9	5.9	5.5	6.3	3.9	3.9	4.3	3.1	2.7	3.5
12	2.1	1.4	1	1.7	2.1	1.7	2.2	3.1	3.2	3.3	3.5	3.6	3.8	4.5	5.3	5.9	5.4	5.2	4.6	3.5	3.7	3.1	2.8	1.5	3.2
13	1.1	1	1.7	1.4	1.1	2.1	3.4	3.5	3.3	2.8	2.9	3.6	4.5	4	5.8	6	5.6	5.5	5.2	5	4.6	4.8	5.3	5.1	3.7
14	4.7	5.9	4.7	4.7	5	5.1	5.8	6	6.4	5.8	6.1	5.9	5.3	5.4	8.1	8.9	7.4	6.8	6.3	4.4	3.5	3.4	3.6	4	5.6
15	3.7	2.9	3.3	2.5	2.6	2.7	3.7	4.2	4.5	6.1	6	7.3	7.9	7.8	8.3	6.1	5.5	3.5	3.6	5	4.1	4.1	5	4.3	4.8
16	2.7	1.6	2.3	2.5	2.8	3.1	2.7	2.2	2.4	5.4	6.1	5.8	8	8.4	7.6	7.2	6	6.6	5.3	5	4.7	3.3	2.7	1.4	4.4
17	1	0.8	0.7	1	0.6	1	2.4	4.3	5.5	6.1	7.7	6.4	5.4	3.9	7.8	7.7	9.7	9.1	7.9	5.7	6.2	5.3	3.7	2.2	4.7
18	1.5	1.7	0.7	1.5	0.9	1.6	3	3.8	2.7	3	3.8	4.4	5	7.2	8.4	5.2	4.6	4.9	4.2	3.8	3.6	2.1	3.6	3.7	3.5
19	2.9	3.4	3	3	2.7	2.4	3	2.5	2.8	3.4	5.2	5.7	5.7	5	5.3	5.7	5.4	4.3	2.9	0.5	1.5	2.2	2.1	2.6	3.5
20	2.3	2.3	2.2	1.9	2.9	2.7	2.6	3.5	2.9	4.5	5.2	6.6	6.8	6.3	5.6	5	4.6	3.7	3.5	1.9	0.7	0.4	0	0	3.3
21	0	0.6	0.9	0.6	1	1.3	2	2.7	4.1	5.1	5.4	5.8	4.7	3.9	4.6	5.7	5.2	4.3	3.1	1.9	1.5	1.1	1.4	1.8	2.9
22	0.9	0.1	0	0	0	0.1	0.8	1.9	2.1	3.1	3.7	4.7	4.7	5.2	6	6.6	6.7	6.6	5.1	4.1	4	3.9	4.1	4.1	3.3
23	3	3.2	3.6	3.6	4.6	4.9	4.1	4.4	6.6	6.6	4.3	5.8	8.7	8.6	8.5	7.7	8.5	7.6	7.3	7.8	7.8	7.8	7.2	6.6	6.2
24	6.4	6.5	5.8	5.3	4.8	5.4	5.5	6	5.7	5.1	5.4	7.1	6.1	5.5	6.5	7.1	4.7	1.5	1.6	1.8	1.5	1	8.6	2.5	4.9
25	1.4	1.6	3.1	1.8	0.9	1.7	1.2	3.4	3.7	4.2	3.9	2.8	2.3	3.2	4.2	3	3.4	2.9	3.5	3	3	2.8	3.6	3.5	2.8
26	2.9	3.2	3	3.2	3.4	3.2	3.4	4.3	5.5	7.2	7.5	7.2	7.1	7.8	7.2	6.7	6.5	7.3	6.6	6.2	6.4	6	6.7	6.9	5.6
27	6.5	5.8	4.2	1.7	1.8	2.5	3.7	6.1	6.6	8.2	7.9	8	8.6	8.1	8.7	8.9	8.5	6.8	6	4.5	3.5	4.2	4.2	2.9	5.8
28	2.5	2.3	2.1	0.8	0	1.1	3.1	3.3	3.8	5.1	5.4	6.3	8	7.5	7	6.4	5.9	5.3	4.1	3.2	2.8	2.2	2.4	1.7	3.9
29	2.1	1.7	2.2	1.8	1.6	1.1	2.6	4.6	5.9	4.5	4.5	4.2	4.5	4.8	6.2	7.1	7.2	6.7	5	4.4	4.1	4.1	3.7	3.4	4.1
30	3.2	3	3.6	3.9	3.4	3.5	4.3	5.1	5.6	5.1	4.7	4.3	4.6	3.9	2.9	3.1	3.2	2.6	1.6	1.2	0.9	2	1.2	0.9	3.2
31	1.4	1.5	1.9	1.7	1.8	1.8	1.9	3.5	4	3.4	4.2	5.2	5.8	5.9	6.4	7.1	5.5	4.4	4.3	3.3	2	1.7	1.7	3.4	3.5
Avg	2.4	2.3	2.2	2.1	2	2.3	3	3.8	4.5	5	5.2	5.5	5.7	5.6	6.1	6.1	5.7	5.2	4.5	3.6	3.3	3	3.2	2.7	3.9
SD	1.8	1.8	1.5	1.3	1.4	1.4	1.3	1.3	1.8	1.7	1.6	1.5	1.7	1.5	1.5	1.5	1.6	1.7	1.6	1.7	1.8	1.8	2.1	1.9	1.1
S/A	0.74	0.77	0.67	0.62	0.72	0.61	0.42	0.34	0.39	0.34	0.3	0.28	0.31	0.27	0.25	0.24	0.28	0.33	0.37	0.46	0.55	0.61	0.66	0.7	0.27
Min	0	0	0	0	0	0.1	0.8	0.5	0.3	0.5	1.7	2.6	2.2	3.2	2.9	3	2.5	1.5	1.6	0.5	0.7	0	0	0	1.5
Max	6.5	6.5	5.8	5.3	5	5.4	5.8	6.4	8.6	8.7	8	8.3	8.7	8.6	8.7	8.9	9.7	9.1	7.9	7.8	7.8	7.8	8.6	6.9	6.2
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**

**May 2011**

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

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

**May 2011**

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