

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

May 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	35	174	385	591	769	900	970	971	901	773	592	361	168	35	0	0	0	0	0	7624
2	0	0	0	0	0	16	99	277	550	733	841	876	886	772	624	590	374	165	32	0	0	0	0	0	6835
3	0	0	0	0	0	33	163	360	514	678	596	434	568	398	242	153	62	29 ?	12	0	0	0	0	0	4241
4	0	0	0	0	0	14	44	73	173	132	267	372	365	323	196	125	82	54	37	0	0	0	0	0	2257
5	0	0	0	0	0	26	112	326	488	824	902	970	977	924	817	625	400	191	39	0	0	0	0	0	7622
6	0	0	0	0	0	43	197	309	581	764	889	966	974	868	663	633	327	105	26	0	0	0	0	0	7344
7	0	0	0	0	0	40	198	413	618	797	927	1001	989	934	799	613	403	213	50	0	0	0	0	0	7995
8	0	0	0	0	0	41	189	395	583	748	869	919	883	793	598	510	349	197	44	0	0	0	0	0	7117
9	0	0	0	0	0	47	214	432	640	820	951	1024	1024	958	829	651	436	204	43	0	0	0	0	0	8272
10	0	0	0	0	0	42	215	433	635	811	942	1016	1017	950	825	567	266	139	32	0	0	0	0	0	7892
11	0	0	0	0	0	44	255	316	562	591	537	442	587	386	224	139	128	106	26	0	0	0	0	0	4344
12	0	0	0	0	0	30	186	383	582	757	805	947	963	676	591	368	326	76	3	0	0	0	0	0	6694
13	0	0	0	0	0	13	77	138	247	395	537	533	553	490	350	232	192	81	17	0	0	0	0	0	3854
14	0	0	0	0	0	22	104	352	503	623	864	914	919	899	764	596	391	176	31	0	0	0	0	0	7158
15	0	0	0	0	0	36	164	398	601	718	820	950	962	755	599	606	410	204	40	0	0	0	0	0	7263
16	0	0	0	0	1	19	73	62	174 ?	184	500	710	958	734	368	357	379	170	35	0	0	0	0	0	4722
17	0	0	0	0	2	14	60	174	272	292	232	153	129	190	109	62	63 ?	28 ?	3	0	0	0	0	0	1784
18	0	0	0	0	0	11	47	83	140	201	166	187	302	271	270	191	109	40	9	1	0	0	0	0	2027
19	0	0	0	0	4	4	66	120	163	568	604	463	818	889	642	335	95	73	40	2	0	0	0	0	4888
20	0	0	0	0	4	45	121	406	632	778	895	946	918	583	731	603	305	217	49	1	0	0	0	0	7234
21	0	0	0	0	4	50	211	398	620	779	925	968	989	859	751	580	425	281	76	6	0	0	0	0	7923
22	0	0	0	0	3	36	188	294	500	490	829	1001	877	896	818	614	444	199	49	2	0	0	0	0	7239
23	0	0	0	0	1	29	153	235	534	717	369	674	422 ?	303 ?	131	100	?	?	6 ?	2	0	0	0	0	3676 ?
24	0	0	0	0	3	10	29 ?	161	198	321	422	628	654	796	515	557	260	240	46	6	0	0	0	0	4845
25	0	0	0	0	3	37	117	219	476	677	717	838	458	505	364	548	354	221	59	1	0	0	0	0	5595
26	0	0	0	0	1	35	210	399	567	611	724	747	1047	972	820	654	487	133	31	0	0	0	0	0	7438
27	0	0	0	0	4	58	212	404	601	779	904	972	967	864	557	265	105	64	12	1	0	0	0	0	6769
28	0	0	0	0	1	12	92	168	409	798	926	987	917	900	789	613	425	213	46	2	0	0	0	0	7298
29	0	0	0	0	3	23	78	450	509	712	845	892	603	653	788	491	295	219	63	5	0	0	0	0	6630
30	0	0	0	0	3	32	178	322	443	710	841	907	962	839	654	583	383	226	61	4	0	0	0	0	7148
31	0	0	0	0	5	59	221	425	619	783	896	883	912	887	816	600	299	208	46	3	0	0	0	0	7661
Avg	0	0	0	0	1	31	143	300	475	631	724	784	793	715	581	457	298	155	35	1	0	0	0	0	6109
S/D	0	0	0	0	2	15	64	122	165	207	234	255	251	237	198	131	72	18	2	0	0	0	0	0	1899
S/A	0	0	0	0	1.23	0.47	0.45	0.41	0.35	0.33	0.32	0.33	0.32	0.33	0.41	0.43	0.44	0.46	0.52	1.56	0	0	0	0	0.31
Min	0	0	0	0	0	4	29	62	140	132	166	153	129	190	109	62	62	28	3	0	0	0	0	0	1784
Max	0	0	0	0	5	59	255	450	640	824	951	1024	1047	972	829	654	487	281	76	6	0	0	0	0	8272
n	0	0	0	0	25	358	367	370	366	372	372	372	364	367	371	370	356	353	350	21	0	0	0	0	5154

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.4% exceed the 15% QC threshold -- 5225 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31392F3 Calibration Factor: 7.3961 μV/W/m² Calibration Date: 07/2007

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

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

May 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	*	
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	*	
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	
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	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	
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	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: 91.5% missing; 0.0% untested; 8.5% 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 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	26	70	93	106	115	120	125	127	131	129	119	140	108	27	0	0	0	0	0	1438	
2	0	0	0	0	0	17	98	190	187	180	235	286	279	355	298	172	139	80	24	0	0	0	0	0	2541	
3	0	0	0	0	0	31	128	233	322	298	462	395	431	384	240	153	62	25	12	0	0	0	0	0	3177	
4	0	0	0	0	0	14	44	73	173	132	267	353	365	323	196	125	82	54	31	0	0	0	0	0	2231	
5	0	0	0	0	0	29	111	178	223	286	151	138	129	119	122	95	97	67	24	0	0	0	0	0	1770	
6	0	0	0	0	0	28	74	243	140	133	142	135	147	209	233	163	140	79	26	0	209	0	0	0	0	1893
7	0	0	0	0	0	21	54	69	78	83	88	87	95	100	108	113	108	81	29	0	0	0	0	0	1114	
8	0	0	0	0	0	29	72	107	145	177	201	244	356	324	238	221	162	76	23	0	0	0	0	0	2375	
9	0	0	0	0	0	22	52	69	79	84	92	96	100	102	97	93	75	54	20	0	0	0	0	0	1035	
10	0	0	0	0	0	20	55	73	87	99	105	104	106	118	102	174	219	127	32	0	0	0	0	0	1421	
11	0	0	0	0	0	24	106	262	243	434	493	433	531	383	224	139	125	105	26	0	0	0	0	0	3527	
12	0	0	0	0	0	28	104	147	194	239	265	301	238	345	363	305	227	76	3 ?	0	0	0	0	0	2835	
13	0	0	0	0	0	13	77	138	247	395	513	529	545	486	350	232	192	81	17	0	0	0	0	0	3814	
14	0	0	0	0	0	22	104	202	307	287	245	235	220	219	183	161	141	102	30	0	0	0	0	0	2457	
15	0	0	0	0	0	28	90	120	145	196	218	167	154	245	209	141	113	77	26	0	0	0	0	0	1932	
16	0	0	0	0	?	19	73	55	110	182	444	365	303	280	311	301	163	121	34	0	0	0	0	0	2761	
17	0	0	0	0	?	14	60	174	271	292	232	153	129	190	104	58	49	25	3	0	0	0	0	0	1755	
18	0	0	0	0	0	11	47	83	140	201	166	187	302	271	270	191	109	40	9	1	0	0	0	0	2026	
19	0	0	0	0	?	4	61	119	163	460	514	452	463	391	334	279	95	72	31	2	0	0	0	0	3441	
20	0	0	0	0	?	40	112	142	116	112	144	170	223	240	244	198	154	71	31	1	0	0	0	0	1999	
21	0	0	0	0	4	29	72	110	96	120	139	186	193	255	249	245	187	129	53	6	0	0	0	0	2073	
22	0	0	0	0	3	31	124	251	340	392	309	350	416	218	129	123	80	59	31	2	0	0	0	0	2855	
23	0	0	0	0	1 ?	28	133	195	272	310	314	456	249 ?	186 ?	131	100	27 ?	14 ?	8	2	0	0	0	0	0	2424 ?
24	0	0	0	0	4 ?	10	25	161	198	312	409	492	447	381	388	356	183	196	45	6	0	0	0	0	0	3612
25	0	0	0	0	3 ?	37	117	219	407	458	442	449	444	492	342	329	220	109	32	1	0	0	0	0	0	4102
26	0	0	0	0	1	35	144	208	294	348	375	557	394	176	78	70	121	114	31	0	0	0	0	0	2944	
27	0	0	0	0	6 ?	34	82	119	130	133	136	138	149	185	231	148	105	64	12	1	0	0	0	0	0	1672
28	0	0	0	0	1	11	92	161	294	162	163	183	262	225	203	175	143	89	38	2	0	0	0	0	0	2205
29	0	0	0	0	2	22	77	103	246	386	425	404	426	435	274	239	146	87	36	5	0	0	0	0	0	3311
30	0	0	0	0	3	31	105	233	333	292	306	275	232	260	288	223	162	99	40	4	0	0	0	0	0	2885
31	0	0	0	0	5	35	84	105	123	138	166	251	221	243	271	234	193	143	32	3	0	0	0	0	0	2246
Avg	0	0	0	0	1	24	85	150	200	240	267	281	280	267	224	183	134	85	26	1	0	0	0	0	0	2447
S/D	0	0	0	0	2	9	29	62	90	118	137	142	135	109	88	77	51	37	12	2	0	0	0	0	0	793
S/A	0	0	0	0	1.48	0.37	0.34	0.41	0.45	0.49	0.51	0.48	0.41	0.39	0.42	0.38	0.44	0.44	1.59	0.41	0	0	0	0	0	0.32
Min	0	0	0	0	0	4	25	55	78	83	88	87	95	100	78	58	27	14	3	0	0	0	0	0	0	1035
Max	0	0	0	0	6	40	144	262	407	460	514	557	545	492	388	356	227	196	53	6	0	0	0	0	0	4102
n	0	0	0	0	17	351	372	372	370	372	372	372	366	369	372	372	363	366	353	21	0	0	0	0	0	5180

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.9% exceed the 15% QC threshold -- 5225 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

May 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	19	18.7	18.4	18.5	18.3	18.2	19.2	21	22.7	24.7	26.3	27.7	28.8	29.6	30.1	30.7	30.5	29.9	27.8	25.7	24.3	23.5	22.8	22.1	24.1
2	21.6	21.4	21.4	21.5	21.4	21.5	22.1	23.1	24.8	26.2	27.6	29.2	30.5	31.2	31.9	32.7	31.7	30.1	28.2	26.4	24.8	23.7	23.2	22.8	25.8
3	22.5	22.3	22.2	22.2	22.1	22.1	22.8	23.8	24.8	26.3	27.5	27.8	29	28.8	29.1	28.5	28.2	27.8	26.8	25.9	25.1	24.6	24.2	24.2	25.4
4	23.7	23.2	23.1	22.8	22.7	22.6	22.8	22.7	21.9	22.2	22.7	24	24.8	25.9	25.8	25.1	24.4	23.4	23.2	22.4	21.7	21	20.2	19.4	23
5	19	18.4	17.3	16.6	16.3	16.7	17.9	19.3	20.8	22.7	23.4	24.9	26.5	28.1	28.7	28.7	28.2	27.5	25.8	23.9	22.4	21.6	21.2	20.7	22.4
6	20.2	20	19.7	19.5	19.3	19.5	20.3	20.8	22.3	24.3	25.8	27.2	29.3	30.3	30.8	31.6	31.2	30.4	29.1	26.8	25.5	25.1	24.6	23.5	24.9
7	22.3	21.2	20.5	19.8	19	19.2	20.3	21.7	22	22.3	22.5	23.1	23.4	24.5	25.1	24.5	23.2	22	21	20.2	20.2	20.5	20.5	20.8	21.7
8	21.3	22	21.9	21.8	21.7	21.9	22.6	24.1	25.8	27	28.4	30	30.8	31	31.4	31.4	30.7	28.7	26.6	24.1	22.7	21.1	20	18.9	25.3
9	17.6	16.5	15.2	14.1	13.2	12.7	12.6	14	15	15.8	16.2	17.1	18	18.6	19.5	19.6	19.8	19.5	18.5	16.6	15.4	14	12.6	11.7	16
10	12.2	12.5	12.3	11.7	10.5	10	10.9	11.8	12.9	14.1	15	16.1	17.1	17.9	18.2	16.5	15.2	14.7	13.8	13.1	12.7	12.9	13	12.8	13.7
11	12.4	12.6	12.6	12.7	12.4	12.9	15	15.7	16.6	17	17.1	17.1	17.4	17.8	17.5	17.2	16.8	16.9	16.9	16.9	16.7	16.4	16.5	16.9	15.7
12	17.3	17.5	17.8	18	18.5	18.7	19.6	21.2	22.3	23.7	24.9	26.2	27.2	27.7	28	28	28.2	27.5	26.7	22.8	21.7	20.8	20.4	19.1	22.7
13	18.7	17.9	15.7	14.9	14.7	14.6	14.4	14.6	14.9	15.6	16.1	16.4	16.5	16.5	16.1	15.8	15.6	15	14.4	14.2	14.4	14.8	15.4	16.2	15.6
14	16.6	16.9	17.2	17.6	17.9	18	18.7	20.1	21.9	23.2	25.3	26.8	28.3	29.4	30.3	30.7	31	30.5	29.1	27	25.9	25.2	24.3	23.4	24
15	23	23.2	22.5	21.8	21.5	21.4	21.8	23.3	25.1	26.7	28.3	29.5	30.4	31.3	26.5	25.6	24.3	23.1	21.6	20.5	19.7	19.7	19.6	19.8	23.8
16	20.4	20.5	20.5	19.3	16.7	17.3	18.1	17.6	16.8	17.4	18.8	20.8	23.2	24.4	24.2	23.2	21	19.5	18.6	17.9	17.6	17.6	17.5	16.9	19.4
17	16.6	16	15.6	15.5	15.6	15.9	16.2	17	17.9	18.7	18.6	18	18	18.4	18.3	17.3	17.6	17.8	17.5	16.8	17.3	18.7	19.7	20.5	17.5
18	20.5	20.6	20.6	20.6	20.7	20.3	20	19.5	17	17.2	16.9	16.7	17	17.6	17.9	17.6	17.2	16.4	16	15.6	15.3	15.1	14.9	14.8	17.8
19	14.7	14.6	14.5	14.2	14	13.9	14	14.6	14.9	16.6	17.8	18.8	19.7	20.4	21.3	20.9	19.6	18.6	18	16.7	16.2	16.2	16.1	15.4	16.7
20	14.9	14.6	14.2	14.1	14	14.5	15.7	17.7	19.7	20.9	22.1	23.1	23.9	24	25.1	24.3	22.8	22.5	21.5	20.4	19.8	18.8	18	17.5	19.3
21	17.1	16.5	16.1	16.3	16.6	16.4	17.5	19.8	22.8	24.6	24.8	25.4	25.4	25.3	25.1	24.4	23.8	23	22.1	20.4	19.6	19.1	18.7	18.4	20.8
22	18.1	17.5	16.9	17.1	17.3	16.9	18.4	20.5	22	23.2	23.7	25	25.4	25.4	25.7	24.9	24.4	23.8	22.9	22.1	21.6	21.4	20.8	20.6	21.5
23	20.5	20.5	20.6	20.6	20.3	20.3	21.1	22.4	23.8	24.8	25.9	25.3	22.7	19.1	20.7	20.8	20.1	19.9	19.7	19.7	19.9	20.1	19.9	19.7	21.2
24	19.6	19.3	18.9	18.7	18.6	18.7	18.9	19.4	20.2	20.5	21.3	22.8	23.7	23.7	23.4	23.1	21.9	21.5	20.6	20	19.7	19.6	19.4	19.5	20.5
25	19.7	19.7	19.5	19.2	18.8	18.6	19.1	19.8	20.9	22.1	22.6	23.2	22.2	21.4	21	22.2	21.6	21.2	20.4	19.5	19	18.5	18.4	18.5	20.3
26	18.7	18.8	18.8	18.7	18.4	18	18.6	20.7	22.2	23.3	23.9	24.5	25	25.4	25.6	26.2	26.5	25	23.2	21.4	20.4	19	18.3	18.1	21.6
27	17.7	17.9	17.4	17.3	17.4	17.8	19.8	22.7	25.6	28	30	31.4	32.6	33.4	31.4	27.3	23.2	20.8	20	19.1	18.5	17.9	17.5	17.7	22.6
28	17.8	18.3	19.1	18.6	18.4	19.2	19.3	19.9	21.1	22.8	23.7	24.4	24.7	24.5	24.5	24.3	23.7	23.3	22.1	21.4	21.2	21.3	21.6	21.7	21.5
29	20.3	19.8	19.8	20.1	20.4	20.7	21.1	22.6	23.4	24	24.9	25.1	25.4	25.8	26.5	26.7	26.3	26.1	25.3	23.8	22.9	22.4	22.2	21.9	23.2
30	21.3	21	20.7	20.3	20	20.1	20.8	22.4	23.1	24.2	25.1	26	27.3	28.5	29.1	29.7	29.8	29.6	28.8	27.4	26.2	25.3	24.8	24	24.8
31	23.7	23.3	23	22.3	21.9	22.1	23	24.5	26	27.3	28.6	29.3	30.2	30.6	31	31	30.3	29.5	28.1	26.7	25.7	24.8	24	23.2	26.3
Avg	19	18.8	18.5	18.3	18	18.1	18.8	19.9	21	22.2	23.1	24	24.7	25	25.2	24.9	24.2	23.4	22.4	21.1	20.5	20	19.7	19.4	21.3
S D	2.9	2.9	3	3	3.1	3.1	3.1	3.2	3.6	3.9	4.2	4.4	4.7	4.9	4.7	4.9	5	4.8	4.5	4	3.6	3.4	3.3	3.2	3.4
S/A	0.15	0.15	0.16	0.16	0.17	0.17	0.16	0.16	0.17	0.17	0.18	0.18	0.19	0.2	0.19	0.2	0.21	0.21	0.2	0.19	0.18	0.17	0.17	0.16	0.16
Min	12.2	12.5	12.3	11.7	10.5	10	10.9	11.8	12.9	14.1	15	16.1	16.5	16.5	16.1	15.8	15.2	14.7	13.8	13.1	12.7	12.9	12.6	11.7	13.7
Max	23.7	23.3	23.1	22.8	22.7	22.6	23	24.5	26	28	30	31.4	32.6	33.4	31.9	32.7	31.7	30.5	29.1	27.4	26.2	25.3	24.8	24.2	26.3
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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 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	98.4	102.6	104.8 ?	?	?	?	104.8 ?	101.9	97.4	90.3	81.1	73.9	68.2	67.1	63.9	61.6	63.8	68	81.2	90.6	96.6	99.4	100.2	103	86.6 ?
2	?	?	?	?	?	?	104.2 ?	102	97.7	94	89.4	83.5	76.1	73.5	70.1	65.6	76.2	81	86.9	92.6	97.7	99.4	96.8	96.8	88 ?
3	98.5	100.1	100.8	101.6	102.4	102.2	99.6	96.9	95.2	92	88.8	89.1	84.8	85.7	84.1	85.4	83.8	86.9	88.9	89.2	92.4	93.7	95.7	96.6	93.1
4	102.2	?	105 ?	?	?	?	104.5 ?	103.3	?	104.6 ?	103	98.1	94.6	88.4	87.2	95.3	101.5	104.4	104.5	?	?	?	?	?	99.7 ?
5	?	?	?	?	?	?	?	?	101.6 ?	95.6	91.1	83.1	74.7	61.2	58.2	56.3	52	51.6	71.5	84.3	96.5	102.2	104.1	?	78.9 ?
6	?	?	?	?	?	?	104.2 ?	104.4	100.4	95.2	89.6	83.3	71.8	65.6	59.6	55.2	55.2	56.2	62.4	84.6	94.4	92.3	68	70.8	78.5 ?
7	74.1	77.3	78.4	78.7	78.5	74.7	68.7	61.3	61.8	61.5	60.6	59.9	57.1	53	52.1	61.2	65.7	72.1	78.9	88.8	97.8	103.6	?	?	71.2
8	102.3 ?	97.1	96.7	97.6	99.8	100	98.5	93	85.2	79.8	75.8	71.2	67.4	65.8	63.3	61.8	51.7	41.9	37.5	35.8	34.7	35.6	36.2	38.9	69.5
9	43.9	45.2	50.3	54.3	56.1	57.9	64.1	56.9	51.7	47.3	45	42.7	41.5	39.4	37.6	38.8	38.7	40.3	43.9	52.1	58.1	66.3	73.8	80.2	51.1
10	84	84.5	79.1	75.6	80.5	80.5	71.7	62.4	63.1	58.1	52.3	48.7	47.2	40.5	39.1	58.7	62.9	64	67.7	72.7	76.5	78	80.8	83.6	67.2
11	86.4	86	86.4	81	81	78.4	70.3	64.3	58.7	54.9	51.5	49.2	48.5	51.4	52.9	56.9	65.8	67.7	69.5	73	86	96.2	99.3	102.3	71.6
12	104.6 ?	?	?	?	104.2	102	99.1	94.8	89.4	85.7	82.5	78.8	75.6	74.3	73.5	73.7	73.3	74.9	78.5	98.3	101.1	103.2 ?	?	?	87.8 ?
13	?	?	?	?	?	?	104.7 ?	103	100.7	98	96.4	95.2	94.8	95	95.9	96.8	97.4	99.4	101.1	102.4	103.6	104.5	?	?	99.3 ?
14	104.9 ?	?	?	?	?	?	?	103.5 ?	99	95.4	89.1	84.5	81.1	78	75.6	73.9	71.6	74.2	79.9	90.6	95.2	95	96.3	98.3	88.1 ?
15	98.6	97.3	99.5	101.7	102.6	102.4	101.9	98	91.5	82.8	71.7	69.6	66.1	62.9	76.4	72.2	74.6	75.8	80.9	86.2	91.9	95.8	101.1	104.3	87.7
16	102.8	104.6 ?	?	103.6 ?	?	102.7 ?	95.8	100.6	?	104.7 ?	102.1	96.5	86.9	82.9	82.5	83.5	86.1	87.6	92.5	97.6	100.3	99.2	99.4	103.3	96 ?
17	102.2	100.8	104.5 ?	103.9	103.3	101.6	98.8	92.8	90.5	89.4	92.8	101.3	104.5	?	105 ?	?	?	?	?	?	?	?	?	?	99.4 ?
18	104.9 ?	104.7	104.7	104.9	104.8	104.9	104.9	105 ?	?	104.9 ?	104.4	104.3	102.1	100.3	98.6	98.9	99.3	100.2	100.4	100.8	100.8	101.3	101.5	102.1	102.5 ?
19	102.3	102.5	103.7	104.4 ?	103.7	103.6	103.8	101.7	100.4	96.1	92.8	89.2	86.2	86.2	84.4	86.3	90	93.8	96.7	100.1	101.4	101.6	102.8	104.7 ?	97.4
20	?	?	?	?	?	?	?	99.1	89.3	79.3	71.5	67.7	62.9	63.5	60.5	73.1	82.3	82.9	83.7	86.2	86	93	99.3	103.2	81.4 ?
21	104.3	104.8 ?	?	?	?	?	?	100.5	87.6	66	67.2	64.9	61.6	64.9	66.6	71.7	70.7	73.9	77.2	84.5	90.2	94.8	97.6	101.4	81.6 ?
22	104 ?	?	?	?	?	?	104.3 ?	103.2	96.7	92.2	89	80.6	78.9	78.8	79.8	86.9	88.3	89.9	90.5	100.7	104.6	105 ?	?	?	92.6 ?
23	?	?	?	?	?	?	102.3 ?	95	89	86.7	83.8	85.8	91.4	?	103	102.9	104.7 ?	?	?	?	?	?	?	?	94.5 ?
24	?	?	?	?	?	?	?	?	104.3	103.1	100.3	97.7	96.4	97.3	97.8	98.7	102.1	103.3	104.1 ?	?	?	?	?	?	100.5 ?
25	?	?	?	?	?	?	?	104.1	101	95.8	91.3	86.3	95.1	98	98.1	95.4	97	97.1	99.9	103.2	104.6 ?	?	?	?	97.6 ?
26	104.9 ?	104.9 ?	?	?	?	?	104 ?	100.8	97.2	93.6	89.6	86	82.9	77.6	76.1	73.8	70	71	78.2	89	93.4	100.6	103.2	104.2	90 ?
27	105 ?	103.9	104.4 ?	?	?	?	100.7 ?	93.7	87.6	82.6	73.4	68.6	63.7	61.3	74.1	87.5	95.7	98.9	99.4	102.5	104.4 ?	?	?	?	89.3 ?
28	?	?	?	?	?	103.3	104.9 ?	103.5	98.2	92	89.2	86.5	85.3	84.8	81.1	77.7	80.3	80.2	87.7	95.9	98.6	101.5	100.8	100.1	92.2 ?
29	103.4 ?	?	?	104.5 ?	103.2	101.3	99.8	93.7	87.6	85.5	82	80.3	78.1	78.1	75.3	75.7	77.5	78.2	81.7	88.2	95.3	98.2	96.8	97.2	89.2 ?
30	99.5	100.4	101.7	103	104.7	104.9 ?	103.4	99.1	98.5	96.7	95	91.5	87.5	82.3	78.8	77	76.8	78	81.3	87	92.5	96.4	97.8	100.3	93.1
31	99.3	100.1	100.6	103.2	104.7 ?	104.8 ?	103.2	99.2	94.9	90	83.1	79.2	73.8	69.6	69	68.1	70.2	76.8	78.9	83.4	88	91.3	94.1	97.6	88.5
Avg	96.8	95.1	94.7	94.1	95	95.3	96.9	94.4	89.9	86.9	83.1	79.9	77	73.4	74.8	75.7	77.5	78.3	82.3	87.4	91.9	93.9	92.6	94.4	87.2 ?
S D	14.2	15.2	15.3	15.5	14.9	14.2	12.8	14	14	14.9	15.3	15.4	16	16	17.3	15.7	16.7	17	16	15.1	15	14.8	16.1	15.8	11.7
S/A	0.15	0.16	0.16	0.17	0.16	0.15	0.13	0.15	0.16	0.17	0.18	0.19	0.21	0.22	0.23	0.21	0.22	0.22	0.19	0.17	0.16	0.16	0.17	0.17	0.13
Min	43.9	45.2	50.3	54.3	56.1	57.9	64.1	56.9	51.7	47.3	45	42.7	41.5	39.4	37.6	38.8	38.7	40.3	37.5	35.8	34.7	35.6	36.2	38.9	51.1
Max	105	104.9	105	104.9	104.8	104.9	104.9	105	104.3	104.9	104.4	104.3	104.5	100.3	105	102.9	104.7	104.4	104.5	103.2	104.6	105	104.1	104.7	102.5
n	212	183	154	152	163	176	232	334	327	355	371	372	369	348	360	360	351	348	341	324	317	282	251	229	6919

Data Recovery: 0.0% missing; 0.0% untested; 22.5% 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 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	18.8	18.4	18.1	18	18	17.8	18.7	21.6	24.7	27.6	29.7	31.3	32.2	32.5	33.5	34.6	35	34.3	32.6	29	26.3	24.8	23.8	23	26
2	22.2	21.7	21.4	21.4	21.3	21.4	21.9	23.3	26	29.3	31.4	33.1	34.2	34.6	35.5	36.1	36.8	35.8	33.2	29.7	27	25.1	23.9	23.1	27.9
3	22.6	22.3	22.1	22.1	22	22	22.8	24.7	27.1	29.3	31.2	31.7	31.9	31.9	31.9	31.1	30.1	29.2	28.3	27.1	26.2	25.4	24.8	24.6	26.8
4	24.3	23.8	23.5	23.2	22.9	22.9	22.9	23.2	22.9	23.2	23.6	25.3	27	28.1	28.7	28.1	26.9	25.6	24.5	23.6	22.2	21.2	20.6	20.1	24.1
5	19.3	18.7	18.1	17.3	16.6	16.4	17.3	19.1	23.2	27.2	29.8	30.6	31.1	31.5	32.7	33.6	33.5	32.6	30.5	26.9	23.9	22.1	21.2	20.6	24.7
6	20	19.7	19.5	19.3	19.1	19.2	20.2	22.6	24.7	27.9	30.6	32.1	33	33.9	34.7	35.5	36.3	34.8	32.2	29.5	26.9	25.5	25.1	24.2	26.9
7	22.9	21.6	20.5	19.4	18.5	17.9	19.5	22.6	25.5	27.1	28.1	28.5	28.6	28.6	29.7	30.4	29.8	28	25.7	22.6	20.5	20	20	20.1	24
8	20.3	20.8	21.2	21.4	21.4	21.4	22.5	25	27.7	29.8	31.2	32.9	34.1	34.5	34.8	34.5	34.7	33.7	31.3	27.2	23.9	21.8	19.9	18.7	26.9
9	17.8	16.5	15.2	14	12.8	12.1	13.3	16.3	18.5	20.3	21.4	22	22	22.1	22.9	24.1	24.6	24.5	22.8	18.9	15.2	12.9	11.1	9.8	18
10	9.4	10.1	10.5	10.5	9.9	9.1	10.5	13.5	16.2	18.6	20.3	21.6	22.3	22.6	23.9	24	21.2	18.7	16.5	14.3	12.8	12.1	11.8	11.6	15.5
11	10.9	10.5	10.7	10.7	10.5	10.4	13	16.8	18.8	20.9	21.7	21.4	21	21.4	21	19.8	18.9	18.4	18.1	17.6	17.4	17	16.4	16.4	16.7
12	16.9	17.3	17.5	17.6	17.8	18.2	19.2	21.9	24.5	26.4	28	29.1	30.2	30.7	31.3	31.2	31.2	30.5	28.7	26	23.2	22	21.1	20.4	24.2
13	19.5	19	18	16.5	15.6	15.1	14.9	15.2	15.9	17.4	18.9	20.6	21.2	21.7	21.2	20.4	19.4	18.6	17.2	15.9	15.3	15.2	15.3	15.7	17.7
14	16.4	16.8	17.2	17.5	17.9	18.2	18.7	20.3	23.9	26.2	28.6	30.3	31.2	32.4	33.6	34.8	35.3	35.1	33.1	29.9	27.6	26.2	25.2	24.3	25.9
15	23.5	23.2	23.1	22.5	21.8	21.5	22.2	24.4	27.5	30.2	32.5	34.2	35.4	36.2	35.5	32.6	31.3	29.7	27	23.5	21.1	20	19.7	19.4	26.6
16	19.6	20	20.1	20.3	18.9	17.5	17.4	18	17.6	17.7	18.9	22.5	26.5	29.3	30.2	29.1	27.4	25.5	22.4	20.1	18.8	18.3	18.1	17.5	21.3
17	16.8	16.5	15.8	15.4	15.4	15.5	16	16.9	18.4	20	20.6	19.7	18.7	18.4	18.8	18.4	18.1	18.2	18.2	17.9	17.5	17.8	18.8	19.8	17.8
18	20.3	20.5	20.6	20.7	20.8	20.9	20.6	20.6	19.9	19.2	19.4	19.1	19.4	20.5	20.9	20.9	20.3	19.2	17.9	17	16.4	16	15.7	15.4	19.3
19	15.3	15.2	15	14.9	14.7	14.5	14.4	14.9	15.8	17.7	21.9	24	25.4	26.6	27.5	27.9	25.6	22.4	20.7	18.9	16.9	16.1	15.5	15	19
20	14.4	14	13.7	13.5	13.5	13.8	14.9	17.5	22.8	26.1	28.2	29.4	30	29.8	29.9	31.4	30.1	27.9	26.2	23	20.4	19	17.8	16.8	21.8
21	16.3	15.7	15.1	14.8	15.1	15.6	17.3	21	25.8	30.5	32.2	32.7	32.1	30.9	30.5	30.2	29.5	28.8	27.2	23.8	20.7	19	18.2	17.7	23.4
22	17.2	16.5	16.3	16.3	16.5	16.6	17.2	20.5	23.8	26.6	28.1	30.2	31.9	31.4	31.8	31.6	30.8	29.6	27.1	24.4	22.6	21.8	21	20.6	23.8
23	20.3	20.3	20.4	20.5	20.4	20.3	20.7	22.7	26.2	30.7	33.4	32.2	30.4	24.2	21.7	21.5	21.4	20.8	20.4	20.1	19.9	20.1	20.2	20.2	22.9
24	20.2	20	19.8	19.5	19.3	19.1	19.2	19.5	20.7	21.6	22.5	24.6	27.2	28.3	28.9	28.5	27.9	25.8	24.6	22.4	21.1	20.4	20	19.6	22.5
25	19.5	19.6	19.6	19.3	19	18.8	19.1	20.2	22.1	24.7	26.4	27.3	27.5	26.8	25.9	25.7	26.3	25.8	24.8	22.5	20.7	19.7	19	18.9	22.5
26	18.9	19	19.1	19	18.9	18.6	18.8	21.3	24.7	26.8	28.1	29	29.9	30.3	30.5	31.4	32.2	31.7	27.6	23.8	21	19	17.6	16.9	23.9
27	16.6	16.4	16.2	16	16.2	16.5	19	23.7	29.1	33.8	37	38.3	38.8	39	39.1	36.3	30.4	25.7	22.8	21	19.7	18.8	18.4	18.2	25.3
28	18.2	18.3	18.7	19.1	19	18.9	19.1	19.6	21.3	24.9	28.2	29.6	30.2	29.9	29.6	29.6	29.2	28.5	26.4	23.5	21.9	21.4	21.3	21.5	23.7
29	21.1	20.2	19.7	19.6	19.7	20.1	20.7	22.5	26.1	27.9	29.7	30.5	30.6	30.2	30.7	31.4	31.1	30.2	29.2	26.7	24.3	23	22.3	22	25.4
30	21.6	21	20.6	20.2	19.8	19.8	20.4	23.3	25.4	27.1	29.1	30.3	30.7	31.4	32.4	33.5	34.3	34.1	32.9	30.2	27.5	25.7	24.7	24.3	26.7
31	23.9	23.3	22.9	22.5	21.9	21.8	23.4	26.3	29.3	31.8	33.9	34.8	34.9	34.9	35.7	36.6	36	34.2	32.5	29.4	27.1	25.8	24.8	23.8	28.8
Avg	18.9	18.6	18.4	18.2	17.9	17.8	18.6	20.6	23.1	25.4	27.2	28.4	29	29.2	29.5	29.5	28.9	27.7	25.9	23.4	21.5	20.4	19.8	19.4	23.2
S D	3.4	3.3	3.3	3.3	3.3	3.4	3.2	3.2	3.9	4.6	5	5	5	5	5.2	5.3	5.5	5.5	5.2	4.5	4	3.8	3.7	3.6	3.5
S/A	0.18	0.18	0.18	0.18	0.18	0.19	0.17	0.16	0.17	0.18	0.18	0.18	0.17	0.17	0.18	0.18	0.19	0.2	0.2	0.19	0.19	0.18	0.18	0.19	0.15
Min	9.4	10.1	10.5	10.5	9.9	9.1	10.5	13.5	15.8	17.4	18.9	19.1	18.7	18.4	18.8	18.4	18.1	18.2	16.5	14.3	12.8	12.1	11.1	9.8	15.5
Max	24.3	23.8	23.5	23.2	22.9	22.9	23.4	26.3	29.3	33.8	37	38.3	38.8	39	39.1	36.6	36.8	35.8	33.2	30.2	27.6	26.2	25.2	24.6	28.8
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

May 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	3.3	3.2	3.7	3.2	2.5	2.1	3.1	3.8	3.6	3.9	3.9	3.8	4.3	4.3	3.8	3.7	3.4	2.7	2.6	3.4	3.3	3.9	4.1	4.4	3.5
2	4.2	3.7	3.6	3.1	2.8	2.6	2.8	3.5	4	4.1	3.8	4	4.9	5	5.1	4.7	4.2	3.9	3.6	3.8	3.8	4.2	4.2	4.2	3.9
3	4.9	5.1	5.1	4.7	4.9	4.4	4.1	4	4.3	4.1	4.5	3.9	5.8	5	4.4	4.5	3	2.6	1.3	1.3	0.8	1.2	1.4	1.9	3.6
4	1.7	2.2	2.3	2.3	2.7	2.4	2.7	2.8	2.6	3	2.7	2	2.3	1.5	1.4	1.8	1.8	2	1.6	0.7	0.6	0.5	0.4	0.1	1.8
5	0.2	0.2	0	0	0.2	0.2	0.4	0.9	1.2	2	2.6	2.3	2.9	3.1	3.6	4	4.1	3.4	2.5	2.3	2.3	2.5	2.8	1.6	1.9
6	2.2	2.8	2.4	2.3	2.1	1.8	2.4	3	2.9	2.6	3	3.4	3.2	3.6	3.8	3.4	3.1	2.1	1.5	1.7	2.2	2.6	3.1	1.9	2.6
7	1.5	1.7	1.5	1.4	1.3	1.9	2.7	2.9	3.6	3.4	3.9	3.2	3.4	2.6	3	4	3.9	3.9	3.1	2.3	2.5	3	3.1	3.2	2.8
8	3.8	4.7	4.5	4.5	4.3	4.5	4.4	4.9	5.4	6.5	5.9	5.1	5.7	6.1	6.6	5.5	5.6	5	4	3.6	3.7	2.4	3.3	4.4	4.8
9	3.5	3	2.8	2.4	2.8	2.1	1.6	3.1	3.8	3.4	4	3.6	3.5	3.7	3.2	3.2	2.5	2.3	1.4	0.4	0.5	0.3	0.3	0.6	2.4
10	2	2.1	2.3	2.1	1.6	1.4	2.7	3.4	2.9	2.7	2.5	1.9	1.9	1.6	1.7	4	3.6	2.8	1.9	1.4	1.3	1	0.7	0.8	2.1
11	0.8	1	1.3	1.1	0.9	1.2	2.6	3.5	3.6	3.7	4.3	4.1	4.6	4.2	4.3	4.2	4.9	4.8	4.4	3.6	4.4	2.8	2.5	3	3.2
12	2.5	2.4	2.7	3.2	3.1	2.5	3.1	4.4	5.8	5.9	5.9	5.4	5.4	5.3	5.5	4.7	4.4	3.9	2.5	1.4	1	1.7	1.2	1.9	3.6
13	1.1	1	2.6	2.7	2.6	2.7	3	3.2	3.3	3.7	3.7	3.6	3.6	3.7	3.1	2.5	2.4	2.6	2.6	2.2	2.4	1.7	1.1	1.6	2.6
14	1.4	0.7	0.1	0.9	1.4	1.6	2.3	2.6	3.1	3	3.7	4.2	3.6	3.7	3.5	3.7	3.1	2.2	1.5	2.5	3.4	3.2	2.9	2.9	2.5
15	2.5	3.2	2.6	2.7	3	1.9	2.2	3.4	3.4	2.9	2.5	2.4	1.9	1.7	4.6	4.7	3.9	3.6	2.9	2.4	2.2	2.6	2.6	2.5	2.8
16	2.2	1.9	1.6	3.9	4.1	3.7	3.2	1.6	1.5	1.2	0.7	1.2	1	1.1	1.9	3.3	4.6	4	3.4	2.8	2.7	2.6	2.5	1.9	2.4
17	2.9	2.5	1.3	1.5	1.6	2.4	3.4	3.7	3.7	4.2	4.5	4	3.7	3.6	3.4	2.5	1.3	1.3	1.4	1.4	0.3	1.3	1.5	1.7	2.5
18	0.9	0.9	1.1	1	0.5	0.3	0	1.4	2	1.8	1.7	1.6	2.1	1.8	2.4	2.8	2.7	2.6	2.3	2.2	2.5	1.7	1.6	0.8	1.6
19	1	0.6	0.3	1.1	1	1	1	1	1.3	1.4	1.6	1.1	1.6	2.1	1.5	1.7	2.6	2.6	2.2	2	1	1.1	1.3	0.8	1.4
20	0.1	0.1	0.1	0.1	0.1	0.5	0.6	0.6	2	1.7	2.1	1.6	1.9	1.7	1.8	2.8	2.9	2.8	2	1.2	1.3	0.9	0.3	0.9	1.3
21	0.6	0.1	0.1	0.5	0.5	0.2	0.9	0.7	0.3	1.4	1.8	2	3.1	3.1	3.7	3.5	3	3	2.5	2.2	1	1.3	1	0.5	1.5
22	0	0	0	0.4	0.4	0.1	0.1	0.4	1.9	2.1	2.9	2.2	3	2.7	3.4	3.9	4.2	3.6	3.3	2.4	2	1.6	1.5	0.7	1.8
23	0.6	0.3	0.3	0.1	0	0.1	0.2	0.2	0.6	1	1.3	3.3	5	4	1.7	0.9	0.9	0.4	0.4	0.2	0.7	1.5	1.3	1.2	1.1
24	1.5	2.2	2.4	2.9	2	2.1	2.4	1.8	2.6	2.9	3	3.1	3.2	3.5	3.6	3.9	3.6	3.3	2.6	2.3	1.8	1.9	1.5	1.7	2.6
25	1.6	1.9	1.7	1.5	1.7	1.5	2.3	2.8	3.7	4.4	4.7	4.6	4.3	4.3	4	4	4.3	3.7	3.3	3.1	3.2	2.7	3	3	3.1
26	3.2	2.7	2.3	2	2	2.5	2.9	3.2	3.3	3.7	3.7	3.8	3.6	3.7	3.1	2.7	2.7	1.8	1.5	0.8	0.4	0.1	0.1	0.3	2.3
27	0.1	0.3	0.1	0.5	0.5	0.9	1	0.9	0.6	0.9	1.5	1.5	1.6	1.7	3.3	4.2	4.5	4.2	4.2	3.7	2.5	3.3	2.9	3	1.9
28	2.9	1.7	2.8	3.8	3.9	1.7	3.1	4.2	2.9	2.6	3.2	3.2	3.1	4	4.4	4.3	4.2	3.7	3.1	2.8	2.6	2.1	1.6	0.6	3
29	0.7	1	0.7	1.2	2.2	2	2	3.7	4.2	3.6	4	4.2	4	3.8	4.4	3.3	3.6	3.8	3	2.5	2.5	2.9	3.4	3.2	2.9
30	2.7	2.5	2	1.4	1.2	1.7	2	2.8	3.7	3.9	3.9	4.2	4.1	4	3.7	3	3.1	2.5	1.8	0.5	0.3	0.6	1.8	2.3	2.5
31	1.5	2.1	2.1	1.5	1.7	1.8	2.6	2.8	3.1	2.5	3.1	3.2	3.4	3.5	3.3	3.6	3.1	3.3	3.3	3.6	3.7	3.9	3.4	2.6	2.9
Avg	1.9	1.9	1.8	1.9	1.9	1.8	2.2	2.6	2.9	3	3.2	3.2	3.4	3.3	3.5	3.5	3.4	3	2.5	2.1	2	2	2	1.9	2.5
SD	1.3	1.3	1.4	1.3	1.3	1.1	1.2	1.3	1.3	1.3	1.3	1.2	1.2	1.2	1.2	1	1	1	0.9	1	1.2	1.1	1.2	1.2	0.8
S/A	0.69	0.71	0.75	0.67	0.68	0.63	0.53	0.49	0.45	0.44	0.39	0.37	0.37	0.37	0.35	0.28	0.31	0.33	0.37	0.47	0.58	0.54	0.57	0.63	0.32
Min	0	0	0	0	0	0.1	0	0.2	0.3	0.9	0.7	1.1	1	1.1	1.4	0.9	0.9	0.4	0.4	0.2	0.3	0.1	0.1	0.1	1.1
Max	4.9	5.1	5.1	4.7	4.9	4.5	4.4	4.9	5.8	6.5	5.9	5.4	5.8	6.1	6.6	5.5	5.6	5	4.4	3.8	4.4	4.2	4.2	4.4	4.8
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: 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 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	201	209	228	225	220	216	227	234	235	234	236	233	233	213	212	216	216	219	183	187	184	190	193	194	214
2	193	197	195	193	197	202	209	209	218	214	204	206	212	209	216	214	176	172	182	180	182	185	188	189	198
3	192	193	192	195	194	193	196	203	202	208	212	210	223	199	203	198	196	230	285	262	229	209	205	194	203
4	191	195	202	198	195	196	195	212	217	228	233	240	260	261	218	198	188	207	214	212	223	205	216	208	212
5	216	201	200	359	138	140	165	170	166	147	162	180	156	169	139	135	138	145	146	161	166	173	188	190	158
6	198	197	197	198	196	197	202	215	207	191	193	195	210	218	223	218	220	220	202	174	174	282	33	13	207
7	10	3	358	6	25	42	48	55	60	49	61	58	87	82	79	81	94	114	118	124	136	152	160	187	82
8	191	193	194	195	197	195	195	200	206	217	216	227	240	236	234	254	283	280	292	294	294	291	299	311	234
9	312	307	314	313	308	302	293	306	313	300	295	287	299	286	298	277	301	310	296	282	298	265	264	316	300
10	8	40	23	357	350	334	336	345	9	9	7	7	24	320	170	128	115	84	95	117	128	112	113	126	38
11	121	115	110	119	102	94	87	92	93	94	117	116	112	104	99	90	99	118	125	125	133	139	149	156	112
12	157	165	185	191	199	209	221	230	236	235	232	227	222	218	230	237	233	234	225	342	275	260	337	35	224
13	352	39	48	50	49	40	49	48	51	60	61	58	59	55	56	53	57	65	67	71	99	133	138	162	60
14	165	149	140	198	227	204	206	214	221	228	232	235	232	234	238	224	225	205	192	174	186	191	193	191	213
15	211	225	171	204	237	247	238	256	259	270	289	284	319	69	64	64	67	74	85	73	65	71	72	85	96
16	81	79	59	325	29	63	73	14	27	46	55	51	11	6	45	62	61	53	65	66	69	79	67	67	53
17	72	80	52	58	61	65	67	73	72	79	84	84	83	71	66	49	40	22	27	4	71	75	102	135	71
18	142	131	142	155	200	268	264	270	291	317	317	327	321	299	303	301	293	290	295	300	305	305	313	301	299
19	293	300	274	357	338	301	339	357	46	65	59	46	91	98	78	87	109	97	74	65	62	81	38	53	62
20	18	332	293	269	279	298	302	316	318	320	335	333	326	332	1	77	115	122	107	108	116	151	197	200	35
21	198	212	238	231	225	221	227	226	292	75	102	89	94	104	95	96	98	103	93	121	114	106	128	105	105
22	116	58	335	23	16	302	297	143	141	103	91	87	76	82	77	91	101	112	125	122	119	127	106	139	101
23	137	107	110	138	128	176	231	263	185	220	63	110	356	45	90	316	277	138	149	304	43	62	59	35	54
24	32	36	41	34	35	30	38	46	61	61	58	60	57	50	54	53	54	48	40	38	32	29	20	21	45
25	25	41	37	15	353	5	21	27	28	32	35	33	32	25	26	29	32	26	13	19	25	17	16	12	25
26	4	2	27	22	359	358	14	19	27	37	35	32	18	27	29	25	34	46	54	62	66	149	149	179	25
27	230	225	266	231	231	237	253	261	271	275	320	306	13	15	56	57	56	54	57	44	40	42	46	50	39
28	37	10	21	343	10	68	106	76	73	85	88	86	94	111	99	99	97	93	93	98	101	100	116	162	81
29	168	135	150	142	141	150	166	168	181	182	180	181	181	181	187	182	185	187	185	179	179	186	191	192	178
30	194	194	197	201	198	196	195	216	232	226	229	228	228	242	240	246	234	232	225	225	209	193	192	201	221
31	210	225	229	221	222	227	233	247	245	240	226	221	192	190	189	187	190	182	179	182	188	189	187	192	204
Avg	179	183	179	221	216	192	183	217	220	203	183	185	193	167	143	127	121	123	118	121	137	149	146	165	143
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 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	5.9	5.9	6.1	5.7	5	4.1	5.9	6.6	6.2	7	7.1	7	7.6	7.6	6.5	6.9	6.1	5	4.6	5.7	5.9	6.6	6.8	7.5	6.2
2	6.8	6.2	6.1	4.8	4.7	4.7	5.2	6.3	7.4	7.4	6.8	7	9.1	8.8	9.1	8.3	7.6	7.1	6.6	6.8	6.7	7.2	6.9	7	6.9
3	8.2	8.6	8.5	7.9	7.8	7.3	6.7	7.5	7.5	7.2	7.8	6.9	10.2	8.5	8.3	7.5	5.3	4.9	2.7	2.8	1.8	2.5	2.9	3.6	6.4
4	3.5	4	4.2	4	4.5	4.2	4.5	5.1	5.3	5.5	5	3.7	4.4	3	2.6	3	3.1	3.8	2.9	1.6	1.3	1.2	1.2	0.6	3.4
5	0.7	0.7	0.3	0.3	0.5	1.1	1.5	2.3	2.4	3.7	4.4	4.2	5.1	5.2	6	6.9	7.3	5.7	4.4	4.6	4.3	4.9	5.3	3.1	3.5
6	3.5	4.4	3.7	3.6	3.3	3.3	4.2	5.5	5.1	4.7	5.1	5.6	5.7	6.6	6.4	6	5.7	3.8	2.7	3.3	4.3	4.7	5.6	3.7	4.6
7	2.8	3	3	2.4	2.4	3.2	4.9	5.4	6	5.7	5.9	5.6	5.3	4.7	4.7	6.1	6.4	6.2	4.9	3.5	3.9	5.3	5.5	5.8	4.7
8	6.6	7.6	7.2	7.2	7.1	7.6	7.6	8.7	9.5	11.4	10.5	9.6	9.9	10.5	11.5	10.3	11	10.2	8.4	7.6	7	4.9	6.8	8.2	8.6
9	6.8	5.6	5.6	4.8	5.6	4.3	3.5	5.8	7.4	6.9	7.6	7.5	7.7	7.6	6.1	6.3	5.5	5	3.1	1.2	1.1	0.6	0.9	1.2	4.9
10	3.8	3.6	4.2	3.7	2.9	2.7	4.9	5.8	5.3	4.9	5.2	4.3	4.5	3.7	3.2	6.5	5.6	4.6	3.3	2.6	2.2	1.7	1.2	1.4	3.8
11	1.5	1.7	2.2	1.8	1.5	2	4.3	5.8	5.7	5.9	6.9	6.8	7.6	7	7	7.3	7.8	8.1	7.2	6.1	7.2	4.8	4.5	5.3	5.2
12	4.6	4.5	4.8	5.3	5.4	4.6	5.9	8.5	10.3	10.3	10.6	10.2	9.7	9.3	9.9	8.5	7.5	7	4.5	2.9	2	3.7	2.4	3.7	6.5
13	2.6	2.5	5	5.1	4.6	5	5.5	5.7	5.9	6.3	6.4	6	5.8	5.7	5.3	4.3	4.2	4.4	4.3	3.5	3.9	2.7	1.9	3.3	4.6
14	2.7	1.6	0.3	1.9	2.7	3	4.2	5.1	5.4	5.5	6.8	7.3	6.6	6.5	6	6.5	5.6	4.1	2.6	4.4	5.6	5.1	4.6	4.8	4.5
15	4.5	6.3	4.1	4.9	5.3	3.6	3.9	6.4	6.6	5.6	4.8	4.7	4.2	3.9	7.3	7.4	6.3	5.9	4.9	4.2	3.7	4.4	4.4	4.1	5.1
16	3.9	3.5	3	7.5	7.5	6.4	6.1	3.1	2.9	2.4	1.8	2.5	2.5	2.5	3.5	5.6	7.5	6.7	5.6	4.6	4.7	4.5	4.3	3.4	4.4
17	5.1	4.2	2.4	3	3.1	4.3	5.9	6.3	6.3	6.9	7.5	6.6	6.7	6	5.6	4.5	2.7	2.8	3	2.9	1.2	2.2	2.7	3.1	4.4
18	2.2	2.1	2.1	2.2	1.4	1	0.3	3.1	4.4	4	4	3.8	4.3	4.1	5.4	5.6	5.8	5.8	4.8	5	5.5	4.1	3.3	2.4	3.6
19	2.3	1.7	1.2	2.1	2.1	2.4	2.3	2.1	2.5	2.9	3.5	2.4	3.2	4.3	3.2	2.9	4.1	4.2	3.5	3.2	2	1.9	2.3	1.5	2.7
20	0.3	0.5	0.3	0.3	0.5	1.3	1.6	1.7	3.9	3.5	4	3.6	4	3.4	3.5	5.2	4.6	4.8	3.4	2.1	2.2	1.7	1	1.6	2.5
21	1.2	0.5	0.2	1	1	0.6	1.8	1.8	1.3	2.7	3.4	3.6	5.3	5.1	5.9	5.7	5	4.8	4.2	3.6	2	2	1.9	1.1	2.7
22	0.1	0.1	0.2	0.8	1	0.7	0.5	0.9	3.3	3.6	4.7	4.3	4.8	4.6	5.5	6.2	6.6	6	5.4	4	3.6	3.2	2.4	1.5	3.1
23	1.5	0.9	1	0.4	0.3	0.7	0.6	0.9	1.5	2.3	2.6	5.3	8.8	7	2.9	2	2	1.1	1.1	0.7	1.7	2.8	2.8	2.8	2.2
24	3.3	4.1	4.5	5.2	4.2	4.4	4.4	3.6	5.2	5.1	5.3	5.3	5.8	5.7	6	6.6	6.2	5.6	4.8	4.3	3.8	3.7	2.9	3.4	4.7
25	2.9	3.8	3.1	2.9	3.1	3.1	4.4	5.2	6.7	7.6	8.1	7.8	7.9	7.5	6.8	7.3	7.2	6.3	5.9	5.7	5.8	5	5.7	5.4	5.6
26	5.6	5	4.2	3.7	3.6	4.4	5.5	5.8	5.7	6.4	6.2	6.2	6.3	6.3	5.4	4.7	4.7	3.3	2.6	1.5	0.9	0.3	0.3	0.7	4.1
27	0.3	0.6	0.3	0.8	1.1	1.7	2	2.1	1.6	2.1	3.3	3.1	3.4	3.4	5.7	6.9	7.2	6.8	6.4	4.8	4.1	5.7	5.1	5	3.5
28	5	3.3	5.2	6.4	7.1	3.1	5	6.9	5	4.5	5.3	5.2	5.3	6.3	6.9	6.9	6.5	5.9	5.1	4.5	4.3	3.5	2.9	1.6	5.1
29	1.5	2.1	1.9	2.5	3.7	3.6	3.9	6.5	6.9	6.1	6.9	6.9	7.1	6.4	7.1	5.5	6.3	6.3	5.1	4.4	4.5	5	5.4	5.6	5.1
30	4.5	4.4	3.8	2.9	2.4	2.7	3.7	5	6.5	7.3	6.7	7.4	7.4	7.3	6.6	5.7	5.3	4.2	3.3	1.4	0.9	1.2	3.2	4	4.5
31	3.1	3.8	3.8	3	3.2	3.3	4.6	5	5.3	4.6	5.3	5.7	6	6.1	5.9	6.2	5.3	5.9	5.9	6.2	6.5	6.4	5.8	4.3	5
Avg	3.5	3.4	3.3	3.5	3.5	3.4	4	4.9	5.3	5.5	5.8	5.7	6.2	6	6	6.1	5.9	5.4	4.4	3.9	3.7	3.7	3.6	3.6	4.6
SD	2.1	2.2	2.2	2.2	2.2	1.8	1.9	2.1	2.2	2.2	2	1.9	2	1.9	2	1.7	1.7	1.7	1.6	1.7	2	1.8	1.9	2	1.4
S/A	0.61	0.63	0.67	0.62	0.62	0.54	0.47	0.44	0.41	0.4	0.35	0.33	0.33	0.33	0.33	0.27	0.29	0.32	0.36	0.44	0.53	0.5	0.52	0.56	0.3
Min	0.1	0.1	0.2	0.3	0.3	0.6	0.3	0.9	1.3	2.1	1.8	2.4	2.5	2.5	2.6	2	2	1.1	1.1	0.7	0.9	0.3	0.3	0.6	2.2
Max	8.2	8.6	8.5	7.9	7.8	7.6	7.6	8.7	10.3	11.4	10.6	10.2	10.2	10.5	11.5	10.3	11	10.2	8.4	7.6	7.2	7.2	6.9	8.2	8.6
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 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	1011	1011	1012	1012	1012	1013	1013	1013	1013	1013	1013	1013	1012	1011	1011	1010	1010	1011	1011	1011	1012	1012	1012	1012	1012	1012
2	1012	1012	1012	1012	1012	1013	1013	1014	1014	1014	1014	1014	1013	1012	1012	1011	1011	1011	1011	1012	1012	1012	1012	1012	1012	1012
3	1012	1012	1011	1011	1011	1012	1013	1013	1013	1013	1013	1012	1012	1011	1010	1009	1010	1010	1009	1010	1011	1011	1011	1011	1011	1011
4	1011	1011	1010	1010	1010	1010	1010	1011	1010	1011	1011	1010	1010	1010	1010	1009	1009	1009	1009	1010	1010	1011	1011	1011	1011	1010
5	1011	1011	1011	1012	1012	1013	1013	1014	1014	1014	1014	1014	1013	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012
6	1012	1011	1011	1011	1011	1011	1011	1011	1011	1011	1010	1010	1009	1008	1008	1007	1007	1007	1008	1008	1009	1010	1011	1011	1011	1010
7	1011	1012	1012	1012	1013	1014	1014	1015	1015	1016	1016	1015	1015	1014	1014	1013	1012	1012	1011	1011	1011	1010	1010	1010	1009	1013
8	1009	1008	1007	1007	1006	1006	1006	1006	1005	1004	1004	1003	1003	1002	1001	1001	1002	1003	1005	1006	1007	1008	1009	1010	1005	1005
9	1011	1012	1013	1014	1014	1015	1016	1017	1017	1017	1017	1017	1017	1017	1017	1016	1017	1017	1018	1019	1019	1020	1020	1021	1017	1017
10	1021	1021	1022	1023	1023	1024	1025	1025	1025	1026	1026	1025	1024	1024	1024	1024	1024	1024	1025	1025	1026	1026	1026	1026	1026	1024
11	1026	1026	1026	1026	1026	1027	1027	1027	1027	1028	1027	1027	1026	1026	1026	1025	1024	1024	1023	1023	1023	1023	1022	1022	1022	1025
12	1021	1020	1020	1019	1019	1020	1020	1020	1020	1019	1019	1018	1017	1017	1017	1017	1016	1016	1017	1017	1017	1017	1017	1017	1018	1018
13	1018	1019	1020	1020	1021	1022	1023	1023	1024	1024	1025	1025	1025	1024	1024	1024	1024	1025	1025	1025	1024	1024	1023	1023	1023	1023
14	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1022	1022	1021	1021	1020	1019	1019	1018	1018	1018	1018	1019	1019	1019	1019	1021
15	1019	1018	1016	1015	1017	1018	1018	1019	1019	1018	1018	1018	1018	1017	1018	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018
16	1017	1017	1016	1018	1017	1017	1016	1018	1018	1019	1019	1018	1018	1017	1017	1016	1016	1017	1017	1017	1017	1018	1018	1018	1018	1017
17	1018	1018	1018	1018	1017	1017	1017	1017	1017	1017	1017	1016	1015	1015	1014	1014	1014	1013	1013	1013	1013	1013	1012	1012	1015	1015
18	1011	1010	1010	1009	1009	1009	1009	1009	1009	1009	1009	1008	1008	1008	1008	1008	1008	1008	1008	1009	1009	1010	1010	1011	1009	1009
19	1011	1011	1011	1011	1011	1012	1012	1012	1012	1012	1012	1012	1011	1011	1010	1010	1011	1011	1011	1011	1011	1012	1012	1012	1012	1011
20	1012	1012	1012	1012	1013	1013	1014	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1016	1016	1017	1017	1017	1017	1015	1015
21	1017	1017	1017	1017	1018	1018	1018	1019	1019	1019	1019	1019	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018
22	1018	1018	1018	1018	1018	1018	1019	1019	1019	1019	1019	1019	1018	1017	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1018
23	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1016
24	1017	1017	1016	1016	1017	1017	1018	1018	1019	1019	1020	1020	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1018
25	1018	1018	1018	1018	1017	1018	1018	1019	1019	1019	1019	1019	1018	1018	1017	1017	1016	1016	1016	1016	1015	1015	1015	1014	1017	1017
26	1014	1013	1013	1012	1012	1012	1012	1012	1012	1012	1012	1012	1011	1010	1010	1009	1009	1008	1008	1007	1007	1007	1007	1007	1010	1010
27	1007	1006	1006	1006	1006	1006	1006	1006	1006	1007	1006	1006	1005	1005	1005	1005	1006	1006	1007	1007	1008	1008	1008	1008	1006	1006
28	1009	1009	1010	1011	1011	1011	1009	1009	1009	1010	1011	1012	1012	1012	1011	1011	1011	1011	1011	1011	1012	1012	1012	1013	1011	1011
29	1013	1013	1012	1012	1012	1012	1012	1012	1012	1013	1014	1014	1014	1013	1013	1012	1012	1012	1011	1011	1012	1012	1013	1013	1013	1013
30	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014	1014	1013	1013	1012	1012	1012	1012	1013	1013	1014	1014	1015	1013	1013
31	1015	1015	1015	1015	1016	1016	1017	1017	1017	1017	1017	1016	1016	1015	1015	1015	1014	1014	1014	1014	1015	1016	1016	1016	1015	1015
Avg	1015	1014	1014	1014	1015	1015	1015	1016	1016	1016	1016	1015	1015	1015	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015
S/D	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
S/A	0	0	0	0	0	0	0	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	0	0	0	0	0	0
Min	1007	1006	1006	1006	1006	1006	1006	1006	1005	1004	1004	1003	1003	1002	1001	1001	1002	1003	1005	1006	1007	1007	1007	1007	1005	1005
Max	1026	1026	1026	1026	1026	1027	1027	1027	1027	1028	1027	1027	1026	1026	1026	1025	1024	1025	1025	1025	1026	1026	1026	1026	1025	1025
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	8928

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

Instrument: Viasala PTA-427 Serial Number: 493926 Calibration Factor: 0.104 mBar/mV + 800 mBar Calibration Date: 06/1995

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

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

Prepared by: Afshin M. Andreas, NREL

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

May 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	12.7	12.7	12.7	12.7	12.7	13.2	13.3	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13	13	12.9	12.9	12.8	12.8	12.8	12.8	13
2	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13	13	13	13	12.9	12.8	12.8	12.7	12.7	12.7	12.9
3	12.7	12.7	12.7	12.7	12.7	12.7	13.1	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13	13	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.9
4	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13.2	13.2	13.3	13.2	13.2	13.2	13.2	13	13	12.9	12.9	12.8	12.8	12.8	12.8	12.7	12.9
5	12.7	12.7	12.7	12.6	12.6	12.6	13.1	13.4	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.9	12.8	12.8	12.8	12.8	12.7	12.9
6	12.7	12.7	12.7	12.7	12.6	12.7	13.2	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13	13	13	13	12.9	12.8	12.8	12.8	12.8	12.7	12.9
7	12.7	12.7	12.7	12.7	12.6	12.6	13.2	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.1	13.1	13.2	13.1	12.9	12.9	12.8	12.8	12.8	12.8	13
8	12.8	12.7	12.7	12.7	12.7	12.7	13.1	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13	13.1	13.1	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9
9	12.7	12.6	12.6	12.6	12.6	12.6	13.4	13.5	13.4	13.4	13.3	13.3	13.4	13.3	13.3	13.3	13.3	13	12.9	12.9	12.8	12.8	12.8	12.8	13
10	12.7	12.7	12.7	12.7	12.7	12.7	13.4	13.6	13.5	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.4	13.4	13	12.9	12.8	12.8	12.8	12.8	13.1
11	12.8	12.8	12.8	12.8	12.7	12.7	13.4	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.2	13	12.9	12.9	12.9	12.8	12.8	13.1
12	12.8	12.8	12.8	12.8	12.8	12.8	13.2	13.3	13.3	13.2	13.2	13.2	13.2	13.1	13.1	13.1	13.1	13.1	12.9	12.9	12.8	12.8	12.8	12.8	13
13	12.8	12.7	12.7	12.7	12.7	12.7	12.8	13.3	13.5	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.2	12.9	12.9	12.9	12.9	12.8	12.8	13.1
14	12.8	12.8	12.8	12.8	12.8	12.8	12.9	13.4	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13	13	12.9	12.9	12.8	12.8	12.8	12.8	13
15	12.7	12.7	12.7	12.7	12.7	12.7	13.1	13.3	13.2	13.1	13.1	13	13	13	13.1	13.1	13.1	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9
16	12.7	12.7	12.7	12.7	12.7	12.7	12.8	12.9	13	13.3	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.1	12.9	12.9	12.8	12.8	12.8	12.8	12.9
17	12.8	12.7	12.7	12.7	12.7	12.6	12.7	13.3	13.4	13.4	13.4	13.4	13.4	13.4	13.3	13	13	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13
18	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8	13.2	13.4	13.4	13.3	13.3	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	12.8	12.8	12.7	12.7	12.7	12.8	13.2	13.4	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13	12.9	12.9	12.8	12.8	12.8	12.8	13
20	12.8	12.7	12.7	12.7	12.7	12.7	13.2	13.4	13.3	13.2	13.2	13.1	13.2	13.2	13.1	13.1	13.2	13	12.9	12.9	12.8	12.8	12.8	12.7	13
21	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	13.2	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	13.4	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.8	12.8	12.8	12.8	12.8	13
23	12.7	12.7	12.7	12.7	12.7	12.7	13	13.3	13.2	13.1	13.1	13.1	13	13.1	13.3	13.2	12.9	12.9	12.8	12.8	12.8	12.7	12.7	12.7	12.9
24	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.1	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.3	13	12.9	12.8	12.8	12.8	12.8	13
25	12.8	12.8	12.7	12.7	12.7	12.7	13.1	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.3	13.2	13.3	13.2	12.9	12.9	12.8	12.8	12.8	12.8	13
26	12.8	12.8	12.8	12.7	12.7	12.7	13.2	13.3	13.2	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	12.7	13
27	12.7	12.7	12.7	12.7	12.7	12.7	13.2	13.3	13.1	13	13	13	13	13	13	13	13	12.9	12.8	12.7	12.7	12.7	12.7	12.6	12.9
28	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.3	13.3	13.2	13.2	13.1	13.1	13.1	13.2	13.2	13.2	13	12.9	12.8	12.8	12.8	12.8	12.8	12.9
29	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13.3	13.2	13.2	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
30	12.7	12.7	12.7	12.7	12.7	12.6	13.1	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.9	12.8	12.8	12.8	12.8	12.9
31	12.7	12.7	12.7	12.7	12.7	12.7	13.1	13.2	13.1	13.1	13	13	13	13	13	13	13	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9
Avg	12.7	12.7	12.7	12.7	12.7	12.7	13	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.1	13	12.9	12.8	12.8	12.8	12.8	12.8	13
SD	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	0	0	0	0	0.1	
StA	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	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13	13	13	13	13	13	13	13	12.9	12.9	12.8	12.7	12.7	12.7	12.6	12.9	
Max	12.8	12.8	12.8	12.8	12.8	12.8	13.4	13.6	13.5	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13	12.9	12.9	12.9	12.8	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.