

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

**May 2007**

**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	30	167	370	572	748	849	930	946	875	754	584	390	177	30	0	0	0	0	0	7421
2	0	0	0	0	0	28	151	341	564	743	844	935	940	877	726	545	335	162	29	0	0	0	0	0	7221
3	0	0	0	0	0	4	27	77	169	312	341	151	137	92	107	96	93	51	15	0	0	0	0	0	1670
4	0	0	0	0	0	3	?	37 ?	58	105	104	213	380	523	290	243	88	44	15	0	0	0	0	0	2104 ?
5	0	0	0	0	0	21	134	206	246	259	226	503	720	553	407	101	69	46 ?	3	0	0	0	0	0	3494
6	0	0	0	0	0	21	171	396	602	470	264	361	584	553 ?	592	591	277	148	43	0	0	0	0	0	5073
7	0	0	0	0	0	43	205	416	631	815	945	1021	1000	917	813	627	436	212	45	0	0	0	0	0	8127
8	0	0	0	0	0	10	41	84	129	228	485	590	324	536	234	227	127	38	9	0	0	0	0	0	3060
9	0	0	0	0	0	19	127	222	300	?	766 ?	902	733	829	688	589	415	201	36	0	0	0	0	0	5827
10	0	0	0	0	0	25	107	207	297	450	691	754	890	844 ?	669	569	355	202	43	0	0	0	0	0	6103
11	0	0	0	0	0	34	173	272 ?	?	530 ?	833 ?	806 ?	928	785	698	539	366	86	14	0	0	0	0	0	6063 ?
12	0	0	0	0	0	21	167	382	459	282	263	368	362	704	581	392	124 ?	?	3	0	0	0	0	0	4109 ?
13	0	0	0	0	0	17	37	137	185	139	203	265	334	316	506	319	229	114	44	0	0	0	0	0	2844
14	0	0	0	0	0	46	133 ?	?	?	848 ?	944	1013	1013	947	795	633	424	227	32	0	0	0	0	0	7055 ?
15	0	0	0	0	0	45	203	382	605	781	910	975	972	907	782	610	411	204	43	0	0	0	0	0	7830
16	0	0	0	0	1	46	207	410	605	781	906	971	975	904	769	614	400	169	27	0	0	0	0	0	7787
17	0	0	0	0	0	13	56 ?	161	273	103	78	99 ?	149	141	182	190	181	75	13	0	0	0	0	0	1712
18	0	0	0	0	0	3	20 ?	44	67	133	179	234	287	288	231	198	83	29 ?	6	0	0	0	0	0	1802
19	0	0	0	0	2	21	187	401	608	803	851	938	967	975	826	590	344	228	53	1	0	0	0	0	7794
20	0	0	0	0	4	51	212	415	609	778	893	949	968	899	774	624	427	223	52	2	0	0	0	0	7880
21	0	0	0	0	1	49	204	399	594	761	877	931	946	878	756	596	401	205	52	3	0	0	0	0	7653
22	0	0	0	0	3	23	190	404	593	769	889	942	955	856	747	596	237	202	42	3	0	0	0	0	7449
23	0	0	0	0	2	59	226	431	632	801	922	981	975	937	800	637	437	233	59	4	0	0	0	0	8134
24	0	0	0	0	3	58	227	427	628	803	921	979	994 ?	?	789 ?	645	452	246	65	5	0	0	0	0	7242 ?
25	0	0	0	0	4	66	230	422	626	794	910	968	968 ?	927	739 ?	630	436	236	63	4	0	0	0	0	8023 ?
26	0	0	0	0	4	57	219	416	617	784	900	952 ?	971	907	820 ?	616	418	214	50	2	0	0	0	0	7949
27	0	0	0	0	5	51	203	408	602	791	893	962 ?	955	926	808	609 ?	432	192	26	1	0	0	0	0	7863
28	0	0	0	0	4	57	225	419	625	778	911	936 ?	919 ?	920	785	586 ?	416	160	48	2	0	0	0	0	7791
29	0	0	0	0	4	54	218	396	585	746	851 ?	917	898	846	735	578	387	204	57	7	0	0	0	0	7483
30	0	0	0	0	5	60	223	419	624	797	920	985	963	918	805	647	451	247	68	3	0	0	0	0	8134
31	0	0	0	0	6	71	226	419	537	798	916	973	951	920	813	649	446	258	64	7	0	0	0	0	8056
Avg	0	0	0	0	2	36	164	317	470	598	693	758	778	750	646	505	325	168	37	1	0	0	0	0	6153
S D	0	0	0	0	2	20	67	133	200	267	307	308	290	254	218	179	132	72	20	2	0	0	0	0	2291
S/A	0	0	0	0	1.26	0.57	0.41	0.42	0.42	0.45	0.44	0.41	0.37	0.34	0.34	0.35	0.41	0.43	0.54	1.53	0	0	0	0	0.37
Min	0	0	0	0	0	3	20	37	58	103	78	99	137	92	107	96	69	29	3	0	0	0	0	0	1670
Max	0	0	0	0	6	71	230	431	632	848	945	1021	1013	975	826	649	452	258	68	7	0	0	0	0	8134
n	0	0	0	0	25	358	337	342	348	345	356	342	351	346	351	363	366	352	355	21	0	0	0	0	4960

Daylight Data Recovery: 0.0% missing; 0.0% untested; 5.1% exceed the 15% QC threshold -- 5225 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31256F3 Calibration Factor: 7.561 μV/W/m<sup>2</sup> Calibration Date: 08/2003

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

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

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

**May 2007**

**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	98	399	590	712	781	707	762	818	796	784	731	644	442	85	0	0	0	0	0	8350
2	0	0	0	0	0	36	228	399	622	670	685	763	775	755	673	560	342	205	26	0	0	0	0	0	6740
3	0	0	0	0	0	0	1	1	2	6	14	0	0	0	0	1	1	0	0	0	0	0	0	0	26
4	0	0	0	0	0	1	0	0	1	2	1	3	3	19	0	0	0	0	0	0	0	0	0	0	30
5	0	0	0	0	0	0	51	13	0	0	1	42	175	71	93	0	0	0	0	0	0	0	0	0	446
6	0	0	0	0	0	1	278	543	667	184	15	111	226 ?	384	557	187	101	71	0	0	0	0	0	0	3341
7	0	0	0	0	0	125	431	624	732	803	809	771	758	674	750	673	574	422	96	0	0	0	0	0	8242
8	0	0	0	0	0	0	0	0	0	1	7	16	1	13	0	1	0	0	0	0	0	0	0	0	40
9	0	0	0	0	0	0	2	6	78	0	269	513	316	554	553	583	462	192	40	0	0	0	0	0	3569
10	0	0	0	0	0	1	3	4	14	198	357	475	612	456	506	442	417	154	0	0	0	0	0	0	3639
11	0	0	0	0	0	5	54	211 ?	356 ?	306 ?	415 ?	469 ?	543	406	374	311	223	9	0	0	0	0	0	0	3683 ?
12	0	0	0	0	0	0	80	190	130	1	2	7	5	347	316	188	0 ?	1	0	0	0	0	0	0	1267
13	0	0	0	0	0	0	0	2	0	0	1	2	2	1	97	33	21	36	110	0	0	0	0	0	306
14	0	0	0	0	0	92	292 ?	?	687 ?	734	804	851	867	853	729	674	612	550	102	0	0	0	0	0	7846 ?
15	0	0	0	0	0	91	305	381	566	672	750	795	804	783	747	693	603	438	143	0	0	0	0	0	7772
16	0	0	0	0	0	91	321	477	579	673	744	779	778	765	688	674	548	224	0	0	0	0	0	0	7342
17	0	0	0	0	0	0	0	7	8	0	0	0	0	0	1	2	2	0	0	0	0	0	0	0	22
18	0	0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	0	0	0	0	0	8
19	0	0	0	0	0	3	253	543	673	743	591	730	719	790	725	606	417	503	208	0	0	0	0	0	7505
20	0	0	0	0	0	166	468	637	717	748	761	772	779	758	738	721	636	493	177	0	0	0	0	0	8571
21	0	0	0	0	0	135	414	583	662	686	704	710	706	688	670	618	511	361	112	0	0	0	0	0	7562
22	0	0	0	0	0	2	179	499	562	657	705	709	690	581	596	494	17	293	40	0	0	0	0	0	6025
23	0	0	0	0	0	242	576	713	782	820	839	837	807	819	785	744	663	530	223	0	0	0	0	0	9379
24	0	0	0	0	1	253	567	708	781	823	841	856	856 ?	?	832 ?	803	739	611	290	0	0	0	0	0	8960 ?
25	0	0	0	0	1	243	556	694	768	814	836	843	832 ?	836	800 ?	762	688	545	248	0	0	0	0	0	9466 ?
26	0	0	0	0	1	195	476	621	710	759	789	802 ?	801	785	759 ?	675	574	407	131	0	0	0	0	0	8485
27	0	0	0	0	0	60	348	550	622	716	738	767 ?	727	716	783	712 ?	636	324	0	0	0	0	0	0	7699
28	0	0	0	0	3	127	417	559	668	695	745	639 ?	606 ?	724	690	540 ?	447	63	15	0	0	0	0	0	6938
29	0	0	0	0	0	120	366	511	584	626	647 ?	615	598	562	522	482	387	267	91	0	0	0	0	0	6378
30	0	0	0	0	5	202	488	637	737	786	819	841	837	824	800	761	678	539	241	0	0	0	0	0	9194
31	0	0	0	0	5	207	508	652	523	779	813	825	823	821	807	763	634	479	139	0	0	0	0	0	8779
Avg	0	0	0	0	1	80	260	379	449	468	492	519	523	526	521	480	377	273	88	0	0	0	0	0	5407
S D	0	0	0	0	1	88	206	277	312	351	350	350	341	322	303	291	273	217	88	0	0	0	0	0	3503
S/A	0	0	0	0	2.57	1.1	0.79	0.73	0.69	0.75	0.71	0.67	0.65	0.61	0.58	0.61	0.72	0.79	1	0	0	0	0	0	0.65
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	8
Max	0	0	0	0	5	253	576	713	782	823	841	856	867	853	832	803	739	611	290	0	0	0	0	0	9466
n	0	0	0	0	25	359	364	355	353	360	363	347	347	350	350	364	368	372	356	21	0	0	0	0	5054

Daylight Data Recovery: 0.0% missing; 0.0% untested; 3.3% exceed the 15% QC threshold -- 5225 total daylight measurements.

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

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

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

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

**May 2007**

**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	20	62	91	109	120	190	177	142	138	117	105	87	62	22	0	0	0	0	0	1442
2	0	0	0	0	0	22	85	138	149	192	204	188	179	174	165	158	101	25	0	0	0	0	0	0	1959
3	0	0	0	0	0	4	26	67	169	311	331	151	137	88	107	96	93	51	14	0	0	0	0	0	1646
4	0	0	0	0	0	3	14	28	58	105	104	213	380	513	290	243	88	44	15	0	0	0	0	0	2099
5	0	0	0	0	0	23	116	201	246	259	226	475	565	502	331	101	65	33	3	0	0	0	0	0	3146
6	0	0	0	0	0	23	78	113	134	325	254	353	485	453 ?	364	215	172	120	32	0	0	0	0	0	3120
7	0	0	0	0	0	26	60	82	102	121	151	215	207	242	154	132	114	63	26	0	0	0	0	0	1693
8	0	0	0	0	0	10	41	84	129	228	485	578	324	527	234	227	127	38	9	0	0	0	0	0	3039
9	0	0	0	0	0	19	127	222	245	43 ?	356	354	401	280	188	140	131	121	27	0	0	0	0	0	2654
10	0	0	0	0	0	27	107	207	297	445	477	334	350	189	199	140	87	53	20	0	0	0	0	0	2931
11	0	0	0	0	0	34	131	155 ?	141 ?	215 ?	283 ?	238 ?	261	320	329	296	224	82	14	0	0	0	0	0	2723 ?
12	0	0	0	0	0	21	122	236	347	282	263	366	362	352	307	253	124 ?	17 ?	3	0	0	0	0	0	3054
13	0	0	0	0	0	17	35	137	185	139	203	265	334	316	427	299	219	107	29	0	0	0	0	0	2711
14	0	0	0	0	0	24	51 ?	?	83 ?	91	98	101	105	113	155	149	104	57	17	0	0	0	0	0	1149 ?
15	0	0	0	0	0	26	68	121	122	129	134	137	140	150	146	131	107	72	25	0	0	0	0	0	1507
16	0	0	0	0	?	29	76	115	150	174	179	179	182	177	189	154	126	97	27	0	0	0	0	0	1854
17	0	0	0	0	0	13	46	160	272	103	77	85	149	141	182	190	181	75	14	0	0	0	0	0	1685
18	0	0	0	0	1	4	17	41	67	133	179	234	287	288	231	198	83	27	6	0	0	0	0	0	1795
19	0	0	0	0	?	21	96	141	158	189	291	221	246	237	230	174	133	76	27	0	0	0	0	0	2241
20	0	0	0	0	?	31	77	105	127	154	179	188	185	184	163	129	105	71	29	2	0	0	0	0	1729
21	0	0	0	0	1	32	85	122	147	185	218	237	244	238	208	179	147	96	38	3	0	0	0	0	2181
22	0	0	0	0	2	23	130	161	214	223	232	250	272	321	259	260	227	116	38	3	0	0	0	0	2731
23	0	0	0	0	3 ?	29	58	79	96	110	127	147	220	296	170	126	100	69	30	4	0	0	0	0	1663
24	0	0	0	0	4 ?	28	61	80	93	110	122	138	257 ?	?	174 ?	97	78	58	28	5	?	0	0	0	1331 ?
25	0	0	0	0	5 ?	30	61	82	99	109	120	186	?	?	209 ?	114	86	64	31	4	0	0	0	0	1199 ?
26	0	0	0	0	5 ?	33	79	110	132	148	160	251 ?	?	?	?	188	128	89	33	2	0	0	0	0	1359 ?
27	0	0	0	0	7 ?	44	96	138	178	195	217	342 ?	?	?	?	178 ?	103	79	26	1	0	0	0	0	1602 ?
28	0	0	0	0	3	40	99	137	162	194	254	?	?	?	?	275 ?	181	138	47	2	0	0	0	0	1532 ?
29	0	0	0	0	4	39	111	148	191	227	305 ?	?	?	?	?	244	190	120	45	7	0	0	0	0	1629 ?
30	0	0	0	0	4	34	75	102	116	128	132	128	129	124	118	107	93	71	33	3	0	0	0	0	1396
31	0	0	0	0	5	39	75	95	174	133	131	133	135	128	117	108	105	95	43	7	0	0	0	0	1523
Avg	0	0	0	0	2	25	76	123	158	178	216	237	257	260	214	175	128	76	25	1	0	0	0	0	2010
S D	0	0	0	0	2	10	32	50	68	83	100	112	117	130	82	62	45	30	12	2	0	0	0	0	637
S/A	0	0	0	0	1.4	0.42	0.42	0.4	0.43	0.47	0.47	0.47	0.46	0.5	0.38	0.36	0.35	0.39	0.46	1.52	0	0	0	0	0.32
Min	0	0	0	0	0	3	14	28	58	43	77	85	105	88	107	96	65	17	3	0	0	0	0	0	1149
Max	0	0	0	0	7	44	131	236	347	445	485	578	565	527	427	299	227	138	47	7	0	0	0	0	3146
n	0	0	0	0	17	354	363	355	353	356	361	325	303	295	311	363	367	363	355	21	0	0	0	0	4862

Daylight Data Recovery: 0.0% missing; 0.0% untested; 6.9% exceed the 15% QC threshold -- 5225 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17880F3 Calibration Factor: 8.067 μV/W/m<sup>2</sup> Calibration Date: 07/2002

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

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

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

**May 2007**

**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	21	20.3	19.3	18.3	16.7	16.6	18.4	19.8	20.9	22.5	23.6	23.6	24.1	25.4	26.6	26.4	24.9	23.5	22.3	22.1	23.7	23.8	23.2	22.4	22.1
2	22	21.6	21	20.4	19.9	19.5	20	21.1	22.7	24.5	25.5	26.9	27.9	28.8	29.5	29.7	29.7	29.4	28.1	25.7	20.6	19.7	19	18.3	23.8
3	17.7	17.1	16.4	15.4	14.8	14.8	15.1	15.3	16.2	17	17.2	15.5	14.6	13.9	12.8	13.1	13.4	13.6	13.7	13.4	12.8	12.7	12.9	12.9	14.7
4	12.5	12.4	12.7	12.8	12.5	12.7	12.9	13	12.7	13.7	14.3	15	15.9	16.8	16.3	15.6	14.9	14.7	14.3	13.7	13.2	13.4	13.7	13.6	13.9
5	13.6	13.7	14.2	14.6	15	15.1	15.8	17.5	18.6	19.4	19.5	20.4	21.6	22.2	22.8	22	21.4	21	20.7	20.4	19.9	19.2	17.6	15.1	18.4
6	13.7	13.2	13.2	13.2	13.4	13.5	13.6	13.7	14.1	13.7	12.4	12.4	12.9	13	12.8	12.7	11.7	11.1	10.4	9.8	9.6	9.7	9.4	9.2	12.2
7	9.1	8.9	8.4	8.5	8.4	8.8	9.9	10.9	11.5	12	12.3	12.7	12.9	13.1	13	12.7	11.9	11.9	11	10.1	9.8	9.9	10.3	10.4	10.8
8	10.8	10.7	10.9	11.2	11.4	11.8	12.2	12.9	13.6	14.3	16	17.3	18	16.9	16.5	16.3	15.8	15	14.5	14.1	14.2	14.2	14.3	14.4	14
9	14.5	14.7	14.9	14.8	14.9	15.4	16.5	18.3	20.4	19.1	18.5	22.4	23.4	24.1	24.2	24.1	23.7	22.9	21.5	20.2	18.7	18.2	17.7	17.3	19.2
10	16.8	16.5	16.3	16.2	16	15.8	16.5	17.4	18.5	19.7	22.2	23.8	25	25.2	24.2	23.6	23.2	23.1	22.5	21.3	20.3	19.6	19	18.5	20
11	18.1	17.9	17.7	17.3	17.1	17.2	17.9	19.3	21.8	23.4	25	25.9	27.3	27.7	27.8	28	27.1	25.3	24.5	23.8	22.9	22.3	22.1	21.8	22.5
12	21.4	20.9	20.4	20	19.8	19.6	20.1	21.5	23	22.9	22.4	23	23.9	26.1	26.6	26.7	23.7	19.5	19.9	19.9	20	19.7	19.3	19.4	21.7
13	18.6	17.7	16.7	15.3	13.8	14	14.5	14.8	15	14.8	15.1	15.4	15.8	15.6	15.6	15.3	15.4	15.3	14.6	13.4	12.5	12.1	11.4	11.1	14.7
14	11.1	10.1	8.4	7.4	7	7.2	10.3	13.5	16.5	18.6	19.6	20.1	20.4	21	21.3	20.3	19.5	19	17.5	15.7	14.9	14.2	14	13.9	15.1
15	14.2	14.6	15	15	14.7	14.7	16.4	18.6	19.9	20.7	21.6	22.7	23.8	24.6	25.2	25.7	25.9	25.5	23.4	22	20.9	20	19.2	18.8	20.1
16	18.2	18	17.8	17.7	17.5	17.5	18.2	19.6	20.9	21.9	23	24.6	25.5	26.4	27	27.4	27.4	25.9	24.1	22.8	22.1	21.8	21.6	21.4	22
17	20.9	20	18.9	17.2	16.7	16.8	16.7	17.3	18.3	18	17.7	16.8	15.1	15.2	15.4	16	16.3	15.8	15.6	15.3	15.2	14.8	14.8	15	16.7
18	15	14.8	14.6	14.4	14.4	14	13.7	13.1	12.8	12.7	12.9	13.1	13.6	13.6	13.8	13.9	13.6	13	12.5	12	12	11.9	12	11.5	13.3
19	11.1	10.8	10.9	10.9	10.7	10.7	11.1	12.5	14.5	16.2	17.2	18.4	19.2	20.1	20.6	20.8	20.6	20.3	19.1	17.2	16.3	15.6	15.2	15	15.6
20	14.6	14.3	13.9	13.1	12.5	12.5	13.6	15.7	18.4	20.2	21.5	22.7	24	25.2	25.9	26.3	26.5	26.3	25.1	23.3	22.1	21.2	20.5	19.4	19.9
21	18.8	18.3	18.1	18.4	17.5	16.1	17.1	20.1	22.5	22.7	20.7	20.2	20.5	21	21.2	21	20.1	19.5	18.1	16.6	15.6	15.2	15.3	15.1	18.7
22	15.3	14.8	15	15.5	15.4	15	16	17.7	19.2	20.4	20.7	21.2	21	20.7	20.3	20.4	19.4	18.9	17.8	16.5	15.6	15.3	15.1	14.7	17.6
23	14.8	14.5	14.3	14.5	14.5	14.5	17.2	18.9	20.3	21.3	21.8	21.6	21.9	21.9	21.7	21.5	21.1	20.4	19.3	17.8	16.9	16.5	16.2	15.9	18.3
24	15.4	14.8	14.8	14.5	14.3	14.5	16.8	18.8	20.7	21.7	21.8	22.4	22.6	22.7	22.6	22.6	22.1	21.6	20.6	19.1	18.2	17.5	17	16.4	18.9
25	16.2	15.8	15.8	15.5	15	15.3	17.3	19.3	20.6	21.9	23.1	24.4	25.1	25.6	26.1	26.5	26.4	25.3	23.7	22.4	21.3	20.3	19.8	19.2	20.9
26	18.7	18.1	17.5	17.2	17	17	18.2	20.2	22.3	24.2	25.8	26.4	27.5	28.5	28.9	28.9	28.9	28.5	26.5	24.5	23.2	22.2	21.5	20.8	23
27	20.1	19.6	19.1	18.6	18.2	18.2	19.1	20.9	22.6	24.9	26.9	27.5	28	28.6	29.2	29.6	29.1	28.4	26.1	24.3	23.3	22.6	21.8	21.1	23.7
28	20.5	19.8	19.4	18.8	18.5	18.7	19.8	21.4	23.3	24.8	26.2	27.5	28.4	29.5	30.2	30.7	30.4	29.1	27.8	26.6	25.1	23.6	22.8	22.2	24.4
29	21.5	21.3	21	20.6	20.1	19.9	21.6	23.6	25.9	27.3	28.5	29	29.2	28.9	27.6	25.4	24.1	22.3	20.7	19.7	19.2	19	18.9	18.4	23.1
30	17.9	17.9	17.8	17.3	17.5	17.6	19.3	20.9	23.1	24.1	25.1	26	25.8	25.9	25.9	25.7	25.1	24.4	23.2	21.6	20.3	19.6	19.1	18.7	21.6
31	18.6	18.5	18.2	18	17.5	17.3	20	21.8	22.9	24	24.7	25.6	26.6	26.9	26.9	26.3	25.5	24.7	23.8	22.5	21.5	20.8	20	19.5	22.2
Avg	16.5	16.2	15.9	15.6	15.3	15.2	16.3	17.7	19.1	20.1	20.7	21.4	22	22.4	22.5	22.4	21.9	21.1	20.1	19	18.1	17.6	17.3	16.8	18.8
S D	3.5	3.4	3.3	3.2	3.1	3	3	3.3	3.8	4.1	4.5	4.7	5	5.3	5.5	5.5	5.5	5.3	4.9	4.6	4.3	4	3.8	3.7	3.8
S/A	0.21	0.21	0.21	0.21	0.2	0.2	0.19	0.19	0.2	0.2	0.22	0.22	0.23	0.24	0.24	0.25	0.25	0.25	0.25	0.24	0.24	0.23	0.22	0.22	0.2
Min	9.1	8.9	8.4	7.4	7	7.2	9.9	10.9	11.5	12	12.3	12.4	12.9	13	12.8	12.7	11.7	11.1	10.4	9.8	9.6	9.7	9.4	9.2	10.8
Max	22	21.6	21	20.6	20.1	19.9	21.6	23.6	25.9	27.3	28.5	29	29.2	29.5	30.2	30.7	30.4	29.4	28.1	26.6	25.1	23.8	23.2	22.4	24.4
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 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 2007**

**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	64.3	66.6	70.1	72.8	82.2	82.5	80.1	75.6	69.6	62.1	50.8	49.3	51.3	53.9	56	62.3	68.9	74.5	83.7	90	78.7	70.3	68.9	71.5	69
2	69.6	67.4	69.4	74.2	80.6	86.4	86.6	80.9	72.9	65.9	63.8	62.4	61.8	60.1	57.4	57.2	56.7	57.9	63.4	71.7	83	83.8	88.8	89.9	71.3
3	89	94.2	97.3	101.7 ?	?	?	103.9 ?	97.9	86.5	80.1	76.2	87.9	94.8	97.7	?	104.7 ?	103.1	101.7	103.1	103.3	?	104.8 ?	102	102.2	96.6 ?
4	103.7	?	103.9 ?	100.5	101.9	102	101.3	100.9	101.9	95.7	79.6	74	60.4	55.4	59.2	66.4	69.3	71.9	76.1	82.1	86	87	87.7	90.8	85.1
5	93.9	90.2	80.2	77.5	78.3	80.8	78.4	71.4	70.4	73.2	77	79.3	78	74.1	72.2	75.8	82	84.4	84.5	83.9	87	92.8	102.1	?	81.2
6	?	?	?	?	?	104.1 ?	94	80.1	74.4	80.5	89.6	85.4	79.6	77.9	75.9	75.5	79.3	81.2	85.5	89.5	90	86.7	87.7	89.4	84.6 ?
7	90.5	91.3	93.5	94.5	92.8	89.8	85.4	80.7	79	76.4	76.8	78.2	80.3	79.9	80.8	82	87.3	86.3	91.6	96.1	97.8	98.4	98.2	99.3	87.8
8	101	103.2 ?	?	?	?	?	?	?	?	104.8 ?	102.3	100.4	100.5	100.2	100.8	102.1	103.3 ?	?	?	?	?	?	?	?	101.9 ?
9	?	?	?	?	?	?	?	?	104.7 ?	103.6	?	98.5	97.1	95.1	93.1	93.6	95.2	96.7	100.4	103.8 ?	?	?	?	?	98.3 ?
10	?	?	?	?	?	?	?	?	?	?	100	92.9	87.5	84.1	90.1	92.7	94.4	92.7	94.1	99.6	104.4	?	?	?	93.9 ?
11	?	?	?	?	?	?	?	?	99.1 ?	91.2	84.4	79.9	72.5	71.3	70.9	65.3	73.7	84.8	88.1	93.5	96.4	98.8	99.8	100.2	85.6 ?
12	100.8	101.5	102.7	104.1	104.8 ?	?	104.4 ?	100.3	94.4	95.6	97.5	96.1	94	86.2	81.8	82.5	92.1	103.2	?	?	?	?	?	?	96.6 ?
13	?	?	?	?	?	?	?	?	104.5 ?	103	101.2	99.3	95.5	93.1	92.2	92	89.4	87	88	93.1	97.4	98.3	98.8	97.3	95.6 ?
14	93.6	100.1	104.1 ?	?	?	?	95.4	80.4	63.4	53.3	43.4	34.6	32.9	32.2	33.3	40.7	41.6	42	56.2	71.6	73.5	76.7	75.8	77.8	63 ?
15	78	81	85.4	91.3	95.8	99.4	98.6	88.8	78.7	74.2	69.1	63.8	60.6	58.6	57	55.5	56.6	60.4	71.7	75.1	78.8	82.1	86.2	87.8	76.4
16	91.4	92.9	92.8	93	93.3	94.7	92.2	87.4	82.2	78.1	75.3	71.6	67.6	63	58.8	55.3	54.3	64.7	70.7	80.7	85.6	88.2	89	87.8	79.6
17	89	88.4	95.8	102.6 ?	?	104.7 ?	103.7 ?	100.6	97.6	100.2	103.4	?	?	?	?	103.6 ?	101.8	102.1	103	104.5	?	?	?	?	100 ?
18	?	?	?	?	?	?	?	?	?	103.8 ?	102.1	99.9	97.7	96.9	96.6	96.3	98.2	100.9	103.1	?	104.9	104.9	103.7	104.6 ?	101 ?
19	?	?	?	?	?	?	?	101.7	92.9	82.9	78.6	67.5	59.8	52.8	46.7	44.2	44.7	47.1	55.6	65.2	70.6	73.9	76.7	79.3	67.1 ?
20	80.6	82.9	86	86.6	88.6	87.6	85.4	78.6	69.8	61.6	58.1	52.6	49.2	46	46.5	44.9	40.7	43.1	47.3	53.9	58.1	60.1	61.4	67.1	64
21	69.8	70.9	69.6	66.7	70.7	79.9	81.4	72.8	64.4	72.7	76	76.5	73.5	72.8	71.5	68.9	72.2	74.4	81.2	87.8	94.5	97.3	95.3	95.1	77.3
22	96.1	98.1	97.5	87.5	88	91.5	84.6	75.8	66.4	59.2	54	54.2	55.3	60.8	66.5	68.6	74.5	77.7	86.1	96.9	101.5	103.2	103.5	104.2	81.3
23	103.6	102.9	103.3	102.6	104.2 ?	103.9 ?	96.3	86.9	76.4	67.8	63	63.1	61.4	59.7	63	66	68	67.6	67.2	75.7	85.3	88.2	91.2	93	81.7
24	94.5	97.1	97.2	99.3	100.7	100.7	94.8	86.3	76.7	68.6	65.9	62.3	61.1	59.2	55.7	49.8	50.2	55.1	69.6	74.8	80.5	85.5	89.2	94.7	77.9
25	97.3	100.4	101.6	102.9	104.4 ?	?	101.8	93	81.8	74.5	69.7	64.8	63.2	51.7	50.2	54.6	57.8	65.1	73.1	75.3	80.1	87.5	91.9	94.1	79.9
26	93.3	95.9	98.8	100.3	100.5	100.2	96.8	87.4	77	71.8	69.5	68.5	64.4	60.6	57.5	56.3	55.8	60.5	71.8	79.1	83.8	87.2	90.4	91.1	79.9
27	94.4	96.5	98.4	100.1	101.1	101.1	98.7	92.7	82.2	69.5	63.5	68.4	61.3	53.6	53.9	50.8	49.7	53.8	71.4	81.6	83.7	84.9	88.9	92.4	78.8
28	96.3	98.2	99.2	101.5	102.5	101.6	98.8	92.9	79.8	71.4	65.4	58.7	54	48.4	48.9	46.9	49.9	53.7	57.4	61.8	70.9	88.7	96	95.9	76.6
29	95.5	95.4	95	95.9	97.7	97.9	90.6	83.1	74.3	70.2	68.3	66	65.2	66.2	70.2	77.8	80.8	83.4	81.2	81.5	83.6	85.4	86.3	91.9	82.6
30	94	92	93.1	94.8	94.2	93.9	85.6	77.3	68.7	58.6	52.5	46.3	47.1	48.2	46.4	45.4	46.4	46.2	49.2	54.5	71.4	90.8	100	101.8	70.8
31	102.9	103.5	103.2	104.5	104.8 ?	?	100	95.4	86.9	77.4	72.8	66.5	61.8	56.9	57.8	65.3	69.8	71.9	74.9	76.8	80.8	84.5	88.8	93.1	82.6
Avg	91	91.8	93	93.4	94.3	94.9	93.3	86.8	81.3	78.3	75	72.3	69.6	67.2	65.9	69.1	71.2	73.1	77.6	82.3	84.9	88.1	90.3	91.7	82.8 ?
SD	10.9	11	11	11.3	10	8.3	8	9.4	12.3	15	16.6	17.2	17.4	17.8	17.3	19.4	19.8	18.7	15.8	13.9	11.3	10.5	10.5	9.5	10.9
S/A	0.12	0.12	0.12	0.12	0.11	0.09	0.09	0.11	0.15	0.19	0.22	0.24	0.25	0.26	0.26	0.28	0.28	0.26	0.2	0.17	0.13	0.12	0.12	0.1	0.13
Min	64.3	66.6	69.4	66.7	70.7	79.9	78.4	71.4	63.4	53.3	43.4	34.6	32.9	32.2	33.3	40.7	40.7	42	47.3	53.9	58.1	60.1	61.4	67.1	63
Max	103.7	103.5	104.1	104.5	104.8	104.7	104.4	101.7	104.7	104.8	103.4	100.4	100.5	100.2	100.8	104.7	103.3	103.2	103.1	104.5	104.9	104.9	103.7	104.6	101.9
n	288	270	266	254	212	206	261	300	316	343	359	360	360	359	348	365	369	360	348	333	310	303	310	295	7499

Data Recovery: 0.0% missing; 0.0% untested; 16.0% 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 2007**

**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	20.9	20.3	19.3	18	17	15.6	16.3	19.5	22.3	24.8	27.4	28.6	28.6	28.9	30.4	31.8	31.3	29.5	26.8	23.7	22.5	22.7	22.6	22.3	23.8
2	21.7	21.4	21	20.5	20	19.5	19.7	21.2	23.3	25.6	27.7	29.4	30.6	31.3	32.4	33.4	33.5	32.6	31	28.4	25.3	22.1	20.5	19.6	25.5
3	18.8	18.1	17.6	16.8	15.9	15.4	15.2	15.1	15.5	17.2	18.8	19	17.6	16.6	15.1	14	13.7	13.9	14.2	14.3	13.8	13.1	12.8	12.5	15.6
4	12.5	12.5	12.5	12.5	12.6	12.8	13	13.3	13.3	13.5	14.5	15.4	16.8	18.5	19.8	19.2	18.3	17.1	16.2	15.2	13.9	13.6	13.9	14	14.8
5	14	14.1	14.2	14.4	14.7	15	15.4	17.2	18.9	20.3	21.2	21.9	24	25.8	26.7	26	24.4	23	22	21.3	20.8	20.2	19.3	17.8	19.7
6	15.9	14.7	14.1	13.8	13.8	13.7	13.6	14.6	15.9	16.8	16.1	15	15.2	15.6	15.8	15.7	15.6	14.1	12.9	11.2	9.9	9.3	9.1	8.7	13.8
7	8.4	8.3	8	7.6	7.6	7.7	8.8	11.1	12.9	14.3	15.2	15.7	15.9	16	16.3	16.5	16.3	15.6	14.4	12.3	10.9	10.3	10.4	10.7	12.1
8	10.9	11	11	11.1	11.4	11.7	12.2	12.8	13.5	14.3	16.2	18.8	20.8	20.6	20.3	19.5	18.9	17.4	16	15.2	14.8	14.8	14.8	14.9	15.1
9	14.9	15	15.2	15.3	15.4	15.5	16.1	17.5	19.6	21.4	19.8	21.7	25.3	27.1	28	28.4	28.5	27.8	25.9	22.9	20.6	19.5	19	18.5	20.8
10	18	17.5	17.1	16.7	16.5	16.3	16.6	17.5	19	21.5	25.1	28.2	29.6	30.4	30	29.1	28.7	28.2	27	24.1	21.6	20.3	19.5	18.8	22.4
11	18.3	17.7	17.4	17.1	16.9	16.9	17.7	19.6	22.8	26.2	28.6	30.7	31.7	32.5	33	33.3	33.3	30.6	27.5	25.7	24.2	23.1	22.6	22.2	24.6
12	21.8	21.3	20.7	20.1	19.7	19.5	19.7	21.7	24.8	26.5	26	25.8	26.5	28.3	31	32.3	30.7	24.8	21.3	20.6	20.4	20.3	19.8	19.5	23.5
13	19.5	19.1	18.3	17.5	16	15	14.9	15.1	15.4	15.8	16.2	16.7	17.5	18.2	18.1	18.4	18.2	17.6	16.7	14.9	12.9	11.5	10.5	9.5	16
14	8.8	8.5	7.7	6.7	5.8	5.5	7.2	11.2	16	20.1	23.1	24.6	24.6	24.5	25.5	25.9	24.9	23.7	21.5	18	15.4	13.9	12.7	12.4	16.2
15	12.6	13.2	13.8	13.9	13.5	13.2	14.7	18.1	21	22.9	24.2	25.1	25.8	26.6	27.7	28.7	29.4	29.3	27.7	24.6	22.2	20.7	19.7	18.9	21.1
16	18.3	17.8	17.5	17.4	17.3	17.1	17.9	19.9	22.1	23.9	25.3	26.7	27.9	28.6	29.5	30.3	30.7	30.2	27.7	24.9	23.2	22.3	21.9	21.8	23.3
17	21.7	21.2	20.5	19.4	18	17.2	17	17.2	18.7	19.6	18.9	18.3	17.1	16.2	16.1	16.3	17.2	17.6	17.1	16.5	16.1	15.8	15.5	15.3	17.7
18	15.3	15.2	15.1	14.8	14.6	14.5	14.2	13.9	13.6	13.6	13.9	14.4	15.1	15.7	16	16	15.9	15	14.1	13.3	12.7	12.3	12.2	11.8	14.3
19	11.1	10.9	10.9	10.9	10.8	10.7	10.9	12.7	15.6	18.4	20.5	21.8	22.6	23.2	24.4	25.2	25.2	24.2	22.6	19.6	16.9	15.5	14.6	14.1	17.2
20	13.7	13.4	13.2	12.7	12.1	11.7	12.8	15.6	18.9	21.9	23.8	25.1	25.8	26.7	27.9	28.9	29.4	29.3	28.1	25.5	23	21.5	20.5	19.6	20.9
21	18.6	18	17.4	17.2	17	16.2	16.8	19.8	23.9	26.5	26.7	25.7	25	25	25.7	26.4	26.1	24.9	22.7	19.6	17.1	15.7	15.2	14.8	20.9
22	14.6	14.6	14.4	14.6	14.7	14.6	15.3	17.6	20.3	22.9	24.7	25.7	25.8	25.5	25.3	25.4	25	23	21.4	18.7	16.4	15	14.4	13.9	19.3
23	13.7	13.5	13.2	13	13	13.1	14.7	18.1	21.3	23.8	25.6	26.1	25.8	25.7	26	26.3	26.2	25.4	23.6	20.7	18.1	16.6	15.7	15	19.8
24	14.5	13.8	13.2	13	12.9	12.8	14.6	18.2	22	25	26.9	27.4	27.2	26.7	26.9	27.2	27.4	26.5	24.9	22	19.1	17.5	16.5	15.7	20.5
25	14.9	14.3	13.9	13.8	13.7	13.8	15.5	18.9	22.3	24.7	26.8	28.5	29.3	29.3	30	30.9	31.6	30.9	28.7	25.4	22.6	21	19.9	19.2	22.5
26	18.6	18.2	17.6	17	16.6	16.5	17.7	20.3	23.1	25.9	28.6	30.4	31.1	31.7	32.8	33.5	33.7	33.2	31.3	27.8	24.9	23.1	22	21.1	24.9
27	20.4	19.8	19.3	18.7	18.3	18	18.6	21	23.8	26.7	29.6	31.7	32.2	32.3	32.8	33.7	34.2	33.4	30.4	26.9	24.6	23.2	22.2	21.3	25.5
28	20.5	19.8	19.2	18.7	18.3	18	19.1	21.4	24.1	26.6	28.5	30	30.9	31.6	33	34.4	35.1	33.8	30.9	28.4	26.2	24.2	22.9	22.2	25.7
29	21.6	21.1	20.8	20.5	20.2	19.8	20.8	23.7	27.2	30.4	32.9	34.5	34.6	34.4	34	32.8	30.7	28.6	25.6	22.5	20.2	19	18.3	18	25.5
30	17.4	16.9	16.3	16.1	15.8	15.9	17.5	20.7	24	27	28.9	30.2	30.2	29.7	30	30.4	30.4	29.5	27.7	24.6	21.4	19.5	18.8	18.2	23.2
31	17.7	17.6	17.3	16.8	16.5	16.2	17.7	21.5	25	27.2	29.1	30.3	30.9	31.1	31.1	31.4	30.9	29.6	27.8	25	22.6	21	19.8	18.8	23.9
Avg	16.4	16.1	15.7	15.4	15	14.8	15.6	17.6	20	22.1	23.6	24.6	25.2	25.6	26.2	26.5	26.3	25.2	23.4	21.1	19.2	18	17.3	16.8	20.3
S D	3.8	3.7	3.6	3.4	3.3	3.2	3.1	3.3	4	4.7	5.2	5.6	5.7	5.7	6	6.3	6.4	6.2	5.7	5	4.5	4.2	4	3.9	4
S/A	0.23	0.23	0.23	0.22	0.22	0.22	0.2	0.19	0.2	0.21	0.22	0.23	0.22	0.22	0.23	0.24	0.24	0.25	0.24	0.24	0.24	0.23	0.23	0.23	0.2
Min	8.4	8.3	7.7	6.7	5.8	5.5	7.2	11.1	12.9	13.5	13.9	14.4	15.1	15.6	15.1	14	13.7	13.9	12.9	11.2	9.9	9.3	9.1	8.7	12.1
Max	21.8	21.4	21	20.5	20.2	19.8	20.8	23.7	27.2	30.4	32.9	34.5	34.6	34.4	34	34.4	35.1	33.8	31.3	28.4	26.2	24.2	22.9	22.3	25.7
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    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 2007**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	2.6	2.4	0.3	0.7	0.1	0.2	1.7	2.9	3.3	2.4	2.8	3.2	2.8	2.2	2.1	3.1	3.5	2.9	2	1.9	2.7	3.1	3.5	3.1	2.3
2	3.4	3.7	4	4	3.8	4	4.4	5.5	5.7	5.4	4.8	4.2	4.2	4.1	3.8	3.6	3.5	2.6	1.7	3.1	5.5	4.2	2.7	2.7	3.9
3	2.4	3.6	2.7	2.6	2.5	2.4	2.3	2.6	2.9	3.4	4.3	5	4.4	5.1	4.4	3.7	3.4	2.8	2.5	2.6	2.7	2.5	1.7	1.2	3.1
4	1.6	1.5	1.9	3	2.9	2.3	2.1	1.9	2.6	2.5	2.7	3	4.2	4.5	4.5	3.4	2	1.4	2.2	2.4	2.5	2.6	2	1.6	2.5
5	2	2.5	2.3	1.7	1.7	1.4	1.9	2.3	2.9	2.4	2.4	2.5	2.6	2.8	2.3	1.6	1.9	1.5	0.9	1.4	1.4	0.7	0.7	2.8	2
6	3	2.1	2.7	3.8	3.9	3.8	5.7	6.5	7.3	8	7.9	7.2	8.3	8.4	9.2	8.5	9.2	7.7	7.3	5.9	5.5	5.5	5.3	5	6.2
7	5.4	4.9	4	4.2	4.8	4.6	6.2	7.3	7.8	7.5	7.9	8.1	7.6	8.2	8.3	7.4	7.4	6.3	5.8	5.6	5.7	4.9	4.9	5.2	6.3
8	4.9	4.8	5.2	5.3	5	4.3	3.9	3.3	3.4	3.5	4.1	3.8	3.5	4.6	3.5	3.9	3	3	2.7	3	2.5	2.7	1.9	1.8	3.6
9	1.4	1.1	1.7	2.3	2.1	2	1.4	1.8	2.4	3	1.4	2.8	3.3	4.3	4.6	4.7	4.6	3.3	2.2	1.5	1.6	1	1.1	1.3	2.4
10	1.6	1.3	0	0	0.1	1	1.8	1.5	0.8	0.6	1.1	1.6	2.4	3.5	4	3.6	2.6	2.3	1.6	1.1	1.4	1.4	1.5	0.9	1.6
11	0	0.1	0	0	0	0	0.3	0.7	2	2.4	1.8	2	2	2	2.4	2.6	3.4	2.9	2.2	1.7	0.7	1.6	1.4	1.6	1.4
12	1.3	1.5	1.2	0.9	0.9	0.6	1.8	2.8	1.6	1.9	2.4	1.3	0.9	0.8	1.5	1.8	3.9	5	1.2	0.7	0.7	0.5	0	0.4	1.5
13	1.7	2.2	2.3	3.7	2.9	1.3	1.9	3.9	3.8	5.1	4.5	4.9	5.2	5.9	5.5	5.1	4.3	3.4	2.9	2.2	1.4	0.8	0.6	0.2	3.2
14	0.8	0.3	0.3	0	0.2	0.3	0.8	1.2	1.5	1.5	1.7	2.4	2.3	2	2.2	3.5	3.4	3.1	2.4	2.2	1.8	1	1.2	0.2	1.5
15	0.1	0.8	0.8	1.2	1.1	1	1.9	3.3	4.8	5.4	5.6	4.9	4.8	4.7	4.7	4.6	3.9	3.4	3.1	3.7	4	4.2	3.9	4.7	3.4
16	4	4.5	4.7	4.5	4.3	3.6	4	5	5.9	6.5	5.5	4.4	5	5.4	5.6	5.4	4.6	3.8	4.2	4.1	3.8	4	3.9	3.3	4.6
17	2	1.5	1.9	1.6	0.4	1.3	1.4	1.5	2	1.8	1.2	2	3.1	2.4	2.7	2.3	3	2.7	1.6	2.4	1.8	2	1.8	1.5	1.9
18	2.4	2	2.9	2.2	2.7	3.4	3.8	3.8	4	4.7	4.8	4.6	4.7	5.1	4.4	3.8	3.4	2.8	2.9	2.1	1.8	1.5	0.9	0.7	3.1
19	0.9	1.4	2	1.7	1.4	1.7	2	2.7	2.9	3.1	3.4	3.8	3.8	3.3	3.2	2.5	2.6	2.8	2	1.6	2.2	2	2.3	2.2	2.4
20	2.1	2.9	2.6	2.1	2.4	1.9	2.1	2.8	2.8	3.8	4.3	5.2	4.9	5	4.7	4.8	5	3.5	2.4	2.1	2.4	2.7	2.3	2.1	3.2
21	1.9	1.9	2.1	1.7	0.9	1.1	1	0.7	1.8	4	4.9	4.7	4.1	3.6	3.2	3.3	3.2	3	2.4	2.4	2	1.3	1.9	1.6	2.5
22	1.2	1.4	1.1	1.4	1.7	1.7	2.2	3.2	3.2	3.2	3.3	3.3	3.5	4	3.7	3.3	2.8	2.8	2.8	2.1	1.3	1.1	1.1	1.3	2.4
23	1.4	1.3	0.7	1.1	1.1	1	0.9	2.6	3.1	3.1	3.9	4.3	4	4.1	3.9	3.9	3.9	3.5	2.7	2.5	2.4	1.9	1.5	1.5	2.5
24	1	0.9	1.5	1.2	1.2	0.7	1.4	1.4	1.8	1.8	2.6	2.9	3.3	3.5	3.6	3.2	3.5	3.1	2.6	1.9	1.6	1.3	1.1	0.5	2
25	0.6	0.4	0.7	0.4	0.1	0.2	0.9	1.9	2.9	2.4	2.2	2	2.6	2.9	2.7	2.6	2.6	3.2	2.8	2.1	2.5	2.4	2.4	2.4	1.9
26	2.7	2.3	2.1	1.7	2.4	1.9	2.5	3.5	3.8	3.1	2.6	2.9	2.8	3	3.3	3.3	3.1	2.3	2.7	2.3	2.3	2.6	2.7	2.6	2.7
27	2.9	3.1	2.6	2.5	2.2	2	2.2	3.3	3	2.7	2.3	2.7	2.9	3.3	3.2	2.9	3.2	2.7	2	2.7	2.4	2.4	2.3	2.3	2.7
28	2.1	1.9	2.1	1.9	2.1	2.4	3.3	4	3.9	4.3	4.4	4.3	4	3.4	3	2.5	2.7	2.5	2	1.9	1.1	1.2	1.8	2.1	2.7
29	2.5	3.3	2.3	2	1.8	2.3	2.1	2	1.9	1.6	1.7	2.8	2.9	3.4	3.6	4.3	3.6	3.9	3.7	2.1	1.8	1.2	2.1	1.8	2.5
30	1.4	0.5	0.9	1	1.3	1.4	1.6	2.2	1.9	2.7	2.5	3.2	3.9	3.7	3.6	3.6	3.3	2.8	2.2	1.6	1.1	1.9	1.6	1.4	2.1
31	1.1	1	0.2	0.1	0	0.1	0	1.4	2.1	2.4	2.2	2.1	2.3	3.6	3.9	4.3	4.3	4.1	3.4	2.7	2.2	1.6	1.1	1.4	2
Avg	2	2	1.9	2	1.9	1.8	2.2	2.9	3.2	3.4	3.5	3.6	3.7	4	3.9	3.8	3.7	3.3	2.7	2.4	2.4	2.2	2	2	2.8
S D	1.2	1.3	1.3	1.4	1.4	1.3	1.4	1.6	1.6	1.7	1.8	1.5	1.5	1.6	1.6	1.5	1.4	1.2	1.2	1.1	1.3	1.3	1.2	1.3	1.2
S/A	0.6	0.64	0.68	0.72	0.76	0.71	0.64	0.54	0.51	0.51	0.51	0.43	0.4	0.4	0.41	0.38	0.39	0.38	0.46	0.46	0.56	0.58	0.59	0.64	0.42
Min	0	0.1	0	0	0	0	0	0.7	0.8	0.6	1.1	1.3	0.9	0.8	1.5	1.6	1.9	1.4	0.9	0.7	0.7	0.5	0	0.2	1.4
Max	5.4	4.9	5.2	5.3	5	4.6	6.2	7.3	7.8	8	7.9	8.1	8.3	8.4	9.2	8.5	9.2	7.7	7.3	5.9	5.7	5.5	5.3	5.2	6.3
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

**May 2007**

**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	270	295	322	290	257	23	68	102	119	117	130	147	154	132	119	150	156	155	170	201	230	240	248	257	170
2	264	262	269	269	274	276	275	280	282	282	276	277	259	260	257	259	266	270	266	347	74	98	104	106	273
3	120	120	116	99	83	75	95	95	104	105	97	89	83	88	94	94	99	95	85	72	84	76	86	62	93
4	57	73	86	87	92	87	82	68	67	90	93	95	104	110	106	101	88	90	96	89	92	97	88	91	92
5	95	100	100	109	102	101	118	126	135	144	150	160	174	205	233	207	173	197	229	250	259	305	40	55	145
6	53	62	48	51	59	53	51	58	61	58	68	69	78	75	76	77	77	72	69	67	66	70	69	73	67
7	74	72	63	62	54	63	68	70	73	75	77	78	76	70	72	84	75	69	68	62	61	66	66	69	70
8	69	72	77	82	79	86	81	86	81	78	81	71	63	76	69	68	67	68	81	81	83	82	75	76	76
9	72	90	80	75	88	95	102	99	119	205	93	108	122	145	154	154	151	132	120	108	99	90	105	119	124
10	138	141	113	0	71	44	54	59	86	102	76	95	123	141	157	154	149	155	175	149	148	151	176	189	136
11	207	199	236	192	213	251	264	264	257	292	278	274	254	234	228	204	201	189	214	238	266	260	226	248	237
12	250	262	269	256	253	252	279	310	332	308	311	311	25	93	142	200	32	108	110	102	148	227	61	77	311
13	56	71	76	85	55	86	64	66	78	77	68	72	78	82	83	75	77	82	84	94	95	83	95	100	77
14	89	52	359	334	4	5	35	48	68	125	145	158	154	151	144	171	173	178	187	188	191	208	203	198	160
15	218	212	229	238	238	241	252	256	267	274	271	269	256	251	254	252	250	244	236	243	246	246	252	254	254
16	257	267	271	270	268	261	266	271	275	274	266	251	248	250	256	253	256	234	238	238	239	244	250	303	259
17	338	35	14	19	44	41	47	65	69	67	77	84	82	85	90	86	91	82	91	84	55	45	61	81	67
18	94	94	91	50	59	60	66	62	57	62	63	61	56	61	55	62	69	77	86	79	58	66	64	332	65
19	322	301	327	322	315	310	311	322	326	327	341	347	349	344	341	358	334	319	294	271	270	265	268	267	321
20	267	281	293	288	287	292	297	303	305	300	294	294	305	311	299	300	310	310	293	281	278	278	278	275	295
21	279	292	305	323	315	266	269	339	60	105	113	115	113	114	116	118	111	130	138	134	132	148	150	154	120
22	141	124	118	132	123	107	115	124	128	116	122	123	111	111	118	115	124	126	121	116	104	113	112	117	119
23	110	97	92	117	97	82	126	144	154	147	145	155	139	154	153	149	148	137	130	124	124	123	123	118	138
24	114	109	115	118	106	103	108	108	108	128	165	154	159	154	161	160	156	156	165	157	170	192	197	194	149
25	201	205	210	222	249	249	278	273	287	294	262	247	229	223	224	222	214	195	186	210	235	238	249	264	236
26	274	274	281	274	277	272	281	284	288	275	249	242	251	230	220	221	229	234	217	236	239	241	247	261	254
27	264	271	271	274	273	264	277	288	280	274	264	225	223	228	233	233	225	234	228	218	230	238	249	255	250
28	257	261	265	270	275	280	289	289	302	287	289	288	290	291	292	277	256	256	264	270	232	245	256	285	279
29	270	280	292	284	282	286	322	324	360	68	82	112	99	97	98	102	99	103	110	111	120	122	123	118	94
30	118	154	114	102	122	102	121	136	123	133	132	139	149	149	145	139	145	153	173	184	148	147	163	189	143
31	187	188	212	229	0	5	314	226	247	227	228	223	193	167	131	159	170	171	188	213	210	219	223	217	191
Avg	74	357	21	41	42	39	35	32	43	64	95	114	118	125	128	138	133	135	142	141	135	155	174	179	122
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 2007**

**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	4.1	3.8	0.9	1.3	0.6	0.4	3.1	4.8	5.3	4	4.5	5.1	4.7	4	3.7	5	5.4	4.5	3.4	3.2	4.8	5.3	5.9	5.3	3.9
2	5.5	6.4	6.4	6.8	5.9	6.6	7.4	9.3	9.1	9.2	7.7	7	6.8	6.9	5.9	5.7	5.8	4.3	2.8	6.4	9.9	7.4	4.9	4.7	6.6
3	4.5	6	4.6	4.6	4.5	4.5	4.4	4.9	5.8	6.5	7.8	8.7	7.6	8.7	7.8	6.8	6.3	5.2	4.6	4.6	4.9	4.7	3.5	3.1	5.6
4	3.3	3.3	3.8	5.2	5	4.4	4.2	3.9	4.8	4.9	5.4	5.3	7.8	7.2	7	5.8	3.6	2.6	3.7	4	4.1	4	3.5	2.8	4.6
5	3.4	3.9	3.8	3.4	3.1	2.4	3.1	4.3	5.1	4.2	4.1	4.3	4.6	5.1	4.2	2.9	3.1	2.8	2	2.5	2.6	1.6	1.8	4.9	3.5
6	5.5	3.9	4.9	7.2	7.2	7	9.8	11.7	12.4	14.3	13.8	13.5	15.1	15.4	15.9	14.8	16	14.2	13.4	10.9	9.9	9.9	9.5	8.6	11
7	9.4	9	7.2	7.9	8.3	8.6	11.3	12.8	14.1	13.2	13.4	14.1	12.9	14	13.5	13.2	13.1	11.2	10	10.3	9.6	8.7	9	9.4	11
8	9.1	8.3	8.9	9.4	8.7	7.8	7.1	6	6.3	6.8	7.2	6.9	5.9	8	6.3	6.5	5.4	5.3	5.4	5.4	4.4	4.6	3.8	3.7	6.5
9	3.1	2.7	3.4	4	3.5	3.4	2.9	3.5	4.2	5.4	2.8	4.6	5.7	7.3	7.5	7.7	8	5.6	3.9	2.7	2.7	1.8	2.3	2.6	4.2
10	3	2.7	0.2	0	0.5	2.2	3.4	2.7	2.1	1.9	2.7	3.1	4.3	5.7	6.5	5.8	4.3	3.8	2.7	1.9	2.2	2	2.5	1.7	2.8
11	0.2	0.5	0.1	0.1	0.2	0.3	1.1	1.7	3.4	4	3.5	3.7	3.6	3.9	4.1	4.2	5.3	4.5	3.9	3.3	1.6	2.5	2.4	2.6	2.5
12	2.3	2.4	2.1	1.7	1.6	1.6	3	4.6	3.3	3.4	4.4	2.6	2	2.1	2.8	3.1	6.8	8.6	2.4	1.8	1.9	1.3	0.5	1.3	2.8
13	3.4	4.2	4.3	6.8	5.4	3.2	3.9	7.2	6.8	9.5	8.2	8.7	9.3	10.2	10.2	8.9	7.4	6	5.2	3.8	2.5	1.7	1.4	0.9	5.8
14	1.5	0.8	0.9	0.2	0.8	0.7	1.9	2.3	2.7	3.2	3.6	4.2	4.1	4	4.2	5.4	5.3	4.7	3.7	3.4	2.8	1.8	1.9	0.8	2.7
15	0.6	1.5	1.8	2.3	2.3	1.8	3.2	5.8	8.1	9.2	9.3	7.9	7.8	8	8.1	7.4	6.6	5.7	5.5	6.3	7.1	6.9	6.4	7.7	5.7
16	6.8	7.3	7.6	7.3	7.3	6.1	7	8.8	10	10.6	9.1	7.4	8.3	9.2	10.2	9.1	7.6	6.6	7.3	6.9	7	6.8	6.5	5.6	7.8
17	3.7	2.7	3.8	3.7	1.3	2.7	2.7	3	3.7	3.4	2.8	4.3	6	4.5	5	4.5	5.7	5.2	3.5	4.6	3.7	3.9	3.9	3.6	3.8
18	4.7	4.1	5.7	4.5	5.4	6.2	7	6.7	7.6	8.5	8.9	8.5	8.2	8.5	7.6	6.6	5.9	5.3	5	4.1	3.3	3	1.9	1.5	5.8
19	1.8	2.3	4.2	3.3	2.7	3.3	3.7	4.9	5.5	5.5	6.6	7.3	7.2	6.9	6.6	5.1	5.2	5.1	3.1	2.3	3.7	3.3	3.8	3.4	4.5
20	3.3	4.5	4.1	3.1	3.5	2.7	3.6	4.5	4.8	6.2	7	8.4	8.3	8.4	7.7	8.1	8.5	6.8	4	3.3	3.6	4	3.2	3.1	5.2
21	2.8	2.8	3	2.8	1.7	1.7	1.8	1.8	3.4	6.5	7.6	7.8	6.5	5.9	5.4	5.5	5.2	5	4	4	3.5	2.3	3.1	2.6	4
22	2.2	2.3	2.2	2.5	2.7	2.9	3.7	5.1	5.3	5.5	5.5	5.6	5.7	6.3	6	5.5	4.8	4.7	4.5	3.6	2.5	2	2.1	2.2	4
23	2.2	2.1	1.5	1.6	1.6	1.5	2	4.3	5.1	5.1	6.2	6.6	6.6	6.7	6.4	6.3	6.1	6	4.7	4.1	3.8	3	2.8	2.7	4.1
24	1.9	1.4	2.3	1.7	1.9	1.5	2.3	2.4	3.3	3.6	4.4	5.2	5.4	5.8	5.7	5.4	5.7	5.1	4.3	3.2	2.5	2.2	1.9	1.1	3.3
25	1.1	0.7	1.1	1	0.5	0.7	1.5	3.1	4.8	4.2	4	3.9	4.9	5.1	4.4	4.7	4.6	5.3	4.4	3.8	4.7	4.2	4	3.9	3.4
26	4.1	3.6	3	2.7	3.4	3	4	5.6	5.9	4.9	4.6	4.9	4.9	4.7	5.7	5.6	5.5	4	4.6	4.1	4	4.7	4.6	4.2	4.4
27	4.5	5	4.4	3.8	3.4	3.3	3.8	5.7	4.7	4.3	4.3	5	5	5.5	5.5	4.9	5.4	4.6	4	4.6	4.3	4.2	3.7	3.8	4.5
28	3.4	3.1	3.5	2.9	3.2	3.7	5.4	6.5	6.2	6.7	7.2	7	6.9	5.8	5.1	4.6	4.7	4.1	3.4	3	2	2.1	2.9	3.3	4.4
29	4.1	5	3.4	3.1	2.7	3.4	3.9	4	4.2	3.2	3.6	4.7	5.1	5.7	6.2	7	6.2	6.1	6	3.8	3.2	2.1	3.3	3.1	4.3
30	2.5	1.1	1.4	1.5	2	2.4	2.9	3.7	3.4	4.7	4.3	5.6	6.1	6.1	5.9	5.7	5.2	4.6	3.4	2.4	1.9	3	2.6	2.4	3.5
31	1.9	1.7	0.5	0.4	0	0.3	0.1	2.5	3.6	4.6	4	4.2	4.2	6.2	6.3	6.8	6.7	6.6	5.3	4.6	3.6	3	2.2	2.5	3.4
Avg	3.5	3.5	3.4	3.5	3.2	3.2	4	5.1	5.6	6	6.1	6.3	6.5	6.8	6.7	6.4	6.3	5.6	4.6	4.3	4.1	3.8	3.6	3.5	4.8
S D	2.1	2.1	2.2	2.5	2.4	2.2	2.5	2.7	2.7	2.9	2.8	2.6	2.6	2.7	2.7	2.5	2.5	2.3	2.2	2.1	2.3	2.2	2.1	2.1	2.1
S/A	0.6	0.61	0.65	0.72	0.74	0.69	0.61	0.52	0.49	0.49	0.46	0.42	0.4	0.41	0.39	0.4	0.4	0.48	0.49	0.55	0.57	0.57	0.59	0.59	0.43
Min	0.2	0.5	0.1	0	0	0.3	0.1	1.7	2.1	1.9	2.7	2.6	2	2.1	2.8	2.9	3.1	2.6	2	1.8	1.6	1.3	0.5	0.8	2.5
Max	9.4	9	8.9	9.4	8.7	8.6	11.3	12.8	14.1	14.3	13.8	14.1	15.1	15.4	15.9	14.8	16	14.2	13.4	10.9	9.9	9.9	9.5	9.4	11
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 2007**

**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	1014	1014	1015	1015	1015	1015	1014	1014	1013	1012	1012	1011	1011	1011	1010	1011	1011	1011	1011	1012
2	1011	1011	1011	1011	1011	1011	1012	1012	1011	1011	1011	1011	1011	1010	1010	1009	1009	1009	1009	1011	1013	1013	1013	1013	1014	1011
3	1014	1014	1014	1015	1015	1016	1017	1017	1018	1018	1019	1019	1019	1019	1019	1019	1019	1018	1019	1019	1019	1019	1019	1019	1019	1018
4	1019	1018	1018	1018	1018	1018	1019	1020	1020	1020	1021	1021	1020	1020	1020	1020	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019
5	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1019	1018	1017	1017	1017	1016	1016	1015	1015	1015	1015	1015	1015	1015	1015	1017
6	1015	1014	1014	1015	1015	1015	1016	1017	1018	1019	1020	1021	1021	1022	1022	1023	1023	1024	1024	1024	1024	1024	1024	1024	1024	1020
7	1023	1022	1022	1021	1021	1021	1021	1022	1022	1023	1023	1023	1023	1022	1022	1022	1022	1021	1021	1021	1021	1021	1021	1021	1020	1022
8	1019	1019	1018	1018	1018	1018	1018	1018	1018	1019	1018	1018	1018	1018	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1018
9	1016	1016	1015	1015	1016	1016	1017	1017	1017	1017	1017	1017	1016	1016	1015	1014	1014	1015	1015	1015	1015	1015	1015	1015	1015	1016
10	1014	1013	1013	1013	1013	1014	1014	1014	1014	1014	1015	1014	1014	1013	1013	1012	1012	1011	1011	1012	1012	1012	1012	1011	1011	1013
11	1011	1011	1011	1011	1011	1012	1012	1012	1012	1012	1012	1011	1011	1011	1010	1010	1010	1010	1010	1011	1011	1011	1011	1011	1011	1011
12	1011	1011	1011	1011	1011	1012	1012	1012	1012	1013	1013	1012	1012	1012	1011	1010	1010	1010	1011	1011	1011	1011	1011	1011	1011	1011
13	1010	1010	1011	1011	1012	1012	1012	1014	1015	1016	1016	1017	1017	1018	1018	1018	1018	1019	1019	1020	1020	1021	1021	1021	1021	1016
14	1021	1021	1021	1021	1021	1022	1023	1024	1025	1025	1025	1025	1025	1025	1024	1024	1024	1024	1023	1023	1023	1023	1023	1023	1024	1023
15	1023	1023	1022	1022	1022	1022	1023	1023	1023	1022	1022	1021	1021	1020	1019	1018	1017	1017	1016	1016	1016	1016	1016	1016	1016	1019
16	1016	1016	1015	1015	1015	1015	1015	1014	1014	1014	1013	1012	1012	1011	1010	1009	1009	1009	1009	1010	1010	1010	1010	1010	1011	1012
17	1011	1011	1011	1012	1012	1012	1013	1013	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1013
18	1013	1013	1012	1012	1013	1013	1013	1014	1014	1015	1015	1015	1015	1015	1015	1015	1015	1015	1016	1017	1017	1018	1017	1017	1015	1015
19	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1017	1017	1017	1016	1016	1016	1015	1016	1016	1016	1016	1015	1015	1017
20	1015	1014	1015	1015	1015	1015	1015	1015	1015	1015	1015	1014	1014	1013	1013	1012	1012	1012	1012	1012	1012	1013	1013	1013	1014	1014
21	1013	1013	1013	1014	1014	1015	1016	1016	1017	1017	1018	1018	1018	1018	1018	1018	1018	1018	1019	1019	1020	1021	1021	1021	1021	1017
22	1021	1021	1021	1021	1022	1022	1023	1023	1024	1024	1024	1024	1024	1025	1024	1024	1024	1024	1024	1025	1025	1025	1025	1025	1025	1024
23	1025	1025	1025	1025	1026	1026	1027	1027	1028	1029	1029	1029	1029	1029	1028	1028	1028	1028	1028	1028	1028	1029	1029	1029	1029	1028
24	1029	1028	1028	1028	1028	1029	1029	1030	1030	1030	1030	1030	1029	1029	1028	1028	1027	1027	1027	1027	1027	1027	1026	1026	1028	
25	1026	1026	1025	1025	1025	1026	1026	1026	1026	1026	1025	1025	1024	1024	1023	1023	1022	1022	1021	1021	1021	1022	1022	1022	1022	1024
26	1021	1021	1021	1021	1021	1021	1022	1022	1022	1022	1021	1021	1020	1020	1019	1019	1019	1019	1018	1018	1019	1020	1020	1020	1020	1020
27	1020	1020	1020	1020	1020	1021	1021	1021	1022	1022	1022	1022	1021	1021	1020	1020	1019	1019	1019	1019	1019	1020	1020	1020	1020	1020
28	1020	1020	1020	1020	1021	1021	1022	1022	1022	1022	1021	1021	1020	1020	1019	1019	1019	1019	1019	1019	1019	1020	1020	1020	1020	1020
29	1019	1019	1019	1019	1019	1020	1020	1021	1021	1021	1021	1021	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1021	1021	1021	1020
30	1020	1020	1020	1020	1020	1021	1021	1022	1022	1022	1022	1022	1022	1021	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1021
31	1020	1020	1020	1019	1019	1020	1020	1021	1021	1021	1020	1020	1020	1019	1019	1018	1018	1018	1018	1018	1019	1019	1019	1019	1019	1019
Avg	1018	1017	1017	1017	1017	1018	1018	1019	1019	1019	1019	1019	1019	1018	1018	1018	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018
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	
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	1010	1010	1011	1011	1011	1011	1012	1012	1011	1011	1011	1011	1010	1010	1010	1009	1009	1009	1009	1010	1010	1010	1010	1011	1011	1011
Max	1029	1028	1028	1028	1028	1029	1029	1030	1030	1030	1030	1029	1029	1029	1028	1028	1028	1028	1028	1028	1028	1029	1029	1029	1029	1028
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928	

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

**May 2007**

**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	12.7	12.6	12.6	12.6	12.6	12.6	13	13.4	13.3	13.3	13.2	13.2	13.3	13.2	13.2	13.2	13.2	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
2	12.7	12.7	12.6	12.6	12.6	12.6	13	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.1	13.1	13.1	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.9
3	12.7	12.6	12.6	12.6	12.6	12.6	12.5	12.6	13.3	13.5	13.5	13.5	13.4	13.2	13.6	13.4	13.1	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.9
4	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.6	13	13.1	13.4	13.5	13.5	13.5	13.5	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
5	12.7	12.6	12.6	12.6	12.6	12.5	12.9	13.4	13.5	13.4	13.4	13.4	13.3	13.3	13.3	13.3	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
6	12.6	12.6	12.6	12.6	12.6	12.5	13.1	13.6	13.5	13.5	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	12.8	12.7	12.7	12.7	12.6	12.6	13.1
7	12.6	12.6	12.6	12.6	12.5	12.5	13.3	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.1	12.8	12.7	12.7	12.7	12.7	12.7	13.1
8	12.7	12.6	12.6	12.6	12.5	12.5	12.5	12.8	13.1	13.4	13.5	13.4	13.4	13.5	13.5	13.5	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
9	12.6	12.6	12.6	12.6	12.6	12.5	12.9	13.4	13.4	12.9	13.2	13.3	13.3	13.3	13.2	13.3	13.3	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.9
10	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.4	13.4	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
11	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.4	13.3	13.2	13.2	13.2	13.2	13.1	13.1	13.1	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
12	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.3	13.3	13.3	13.3	13.3	13.3	13.2	13.2	13.2	13	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
13	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.9	13.3	13.3	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.4	12.8	12.7	12.7	12.7	12.7	12.6	13
14	12.6	12.6	12.6	12.6	12.5	12.5	13.3	13.6	13.5	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.2	12.8	12.7	12.7	12.7	12.7	12.6	12.6	13
15	12.6	12.6	12.6	12.6	12.5	12.5	13	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.2	13.2	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
16	12.6	12.6	12.6	12.6	12.6	12.6	13	13.4	13.4	13.3	13.3	13.2	13.3	13.2	13.2	13.2	13.2	13	12.8	12.7	12.7	12.7	12.7	12.7	12.9
17	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13	13.3	13.1	12.9	12.9	13.4	13.4	13.6	13.6	13.5	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.9
18	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.6	13	13.3	13.6	13.6	13.6	13.6	13.6	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.9
19	12.6	12.6	12.6	12.6	12.5	12.5	13	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13.3	13.3	13.3	13	12.8	12.7	12.7	12.7	12.7	12.7	13
20	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.5	13.4	13.4	13.3	13.3	13.3	13.3	13.2	13.2	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
21	12.7	12.6	12.6	12.6	12.6	12.6	13	13.4	13.3	13.2	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.2	12.8	12.7	12.7	12.7	12.7	12.6	13
22	12.6	12.6	12.6	12.6	12.6	12.6	13	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.4	13.1	12.8	12.7	12.7	12.7	12.7	12.6	13
23	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	12.9	12.8	12.7	12.7	12.7	12.6	13
24	12.6	12.6	12.6	12.6	12.5	12.6	13.1	13.4	13.3	13.3	13.2	13.2	13.3	13.3	13.3	13.3	13.2	12.8	12.8	12.7	12.7	12.7	12.7	12.6	12.9
25	12.6	12.6	12.6	12.6	12.5	12.6	13.1	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
26	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.1	13.1	13.1	13	12.8	12.7	12.7	12.7	12.7	12.7	12.9
27	12.7	12.6	12.6	12.6	12.6	12.6	13.1	13.4	13.3	13.2	13.2	13.1	13.2	13.2	13.1	13.1	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.9
28	12.7	12.6	12.6	12.6	12.6	12.6	13.1	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.1	13.1	13.1	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.9
29	12.7	12.7	12.6	12.6	12.6	12.6	13	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.2	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.9
30	12.6	12.6	12.6	12.6	12.6	12.6	13	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
31	12.6	12.6	12.6	12.6	12.6	12.6	13	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.9
Avg	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.2	13	12.8	12.7	12.7	12.7	12.7	12.7	12.9
S D	0	0	0	0	0	0	0.2	0.3	0.2	0.2	0.1	0.2	0.1	0.1	0.2	0.2	0.2	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0	0	0	0	0	0	0
Min	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.6	12.9	12.9	12.9	13.1	13.1	13.1	13.1	12.9	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.9
Max	12.7	12.7	12.6	12.6	12.6	12.6	13.3	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.6	12.8	12.7	12.7	12.7	12.7	12.7	13.1
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	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.