

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

**June 2006**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	6	63	222	398	613	614	723	717 ?	989	925	817 ?	590 ?	438	265	91	6	0	0	0	0	7475
2	0	0	0	0	3	55	81	198	549	710	942 ?	753 ?	899 ?	865	792 ?	523 ?	169	101	24	0	0	0	0	0	6665 ?
3	0	0	0	0	11 ?	17	72	98	108	98 ?	106 ?	420	379	143	249	145	116	29 ?	25	9	0	0	0	0	2024 ?
4	0	0	0	0	3	57	235	394	633	803	918 ?	1033	1019 ?	737 ?	452 ?	346 ?	463	246	76	3	0	0	0	0	7418 ?
5	0	0	0	0	0	3 ?	55	154	317	502	410	732	484	162	358	527	367	108	37	8	0	0	0	0	4222
6	0	0	0	0	4	52	225	397	438	811	586	848	544	660	439	260	170	130	34	9	0	0	0	0	5607
7	0	0	0	0	3	66	246	425	629	799	908	986	811	711	655	500	437	190	45	7	0	0	0	0	7419
8	0	0	0	0	4	56	182	206	263	524	890	943	902	800	520	538	125	81 ?	54	3	0	0	0	0	6091
9	0	0	0	0	1	31	136	356	516	780	731	646	766	880	709	420	385	208	66	6	0	0	0	0	6636
10	0	0	0	0	6	68	240	403	665	804	944	993	976	937	816	653	321	194	45	2	0	0	0	0	8066
11	0	0	0	0	4	20	40	93	283	536	528	765	959	890	795	580	402	245	53	3	0	0	0	0	6196
12	0	0	0	0	1	1 ?	51 ?	73	86	172	423	286	205	190	161	142	110	94	25	9	0	0	0	0	2028
13	0	0	0	0	8	82	235	395	567	731	798	806	727	729	503	410	305	150	59	6	0	0	0	0	6512
14	0	0	0	0	1	19	79	84	63	95	95 ?	82 ?	?	135 ?	91 ?	?	78 ?	105	15	3	0	0	0	0	945 ?
15	0	0	0	0	4	38	159	383	593	755	889	966	949	938	806	646	459	261	80	3	0	0	0	0	7929
16	0	0	0	0	5	78	233	433	627	798	911	1017	964	935	829	668	484	277	91	6	0	0	0	0	8354
17	0	0	0	0	6	66	224	417	599	760	877	938	817	909	744	643	434	219	87	15	0	0	0	0	7758
18	0	0	0	0	4	41	184	384	583	752	857	932	947	901	780	621	436	238	72	7	0	0	0	0	7739
19	0	0	0	0	5	56	205	400	590	764	876	942	904	797	754	649	418	252	74	4	0	0	0	0	7690
20	0	0	0	0	8	44	200	411	586	758	855	757	920	941	775	590	470	262	87	6	0	0	0	0	7671
21	0	0	0	0	5	59	207	342	547	532	838	609	362	157 ?	218	371	421	228	60	8	0	0	0	0	4963
22	0	0	0	0	6	63	208	362	582	753	875	947	950	883	743	610	419	226	64	8	0	0	0	0	7698
23	0	0	0	0	4	54	143	381	570	753	877	921	973	913	758	661	420	107	39	5	0	0	0	0	7581
24	0	0	0	0	3	67	192	377	548	573	805	346	637	571	492	537	282	195	25	5	0	0	0	0	5656
25	0	0	0	0	6	67	214	246	565	730	806	949	1006	843	768	378	323	108	48	8	0	0	0	0	7063
26	0	0	0	0	0	8	129	196	189	484	542	391	892	749	308	358	271	234	107	10	0	0	0	0	4870
27	0	0	0	0	2	22	105	360	383	638	520	319	432	307	185	125	50 ?	68	15	4	0	0	0	0	3533
28	0	0	0	0	2	20	63	240	448	478	499	629	726	692	257	243	409	110	67	4	0	0	0	0	4887
29	0	0	0	0	2	38	136	227	503	709	650	768	716	551	184	275	352	152	88	9	0	0	0	0	5359
30	0	0	0	0	5	48	75	268	510	591	808	917	767	811	484	370	387	235	90	18	0	0	0	0	6383
Avg	0	0	0	0	4	45	159	303	472	627	716	745	780	689	548	461	331	177	58	6	0	0	0	0	6081
S/D	0	0	0	0	3	23	68	118	177	203	233	256	225	279	249	172	133	72	26	4	0	0	0	0	1946
S/A	0	0	0	0	0.63	0.5	0.43	0.39	0.37	0.32	0.33	0.34	0.29	0.41	0.45	0.37	0.4	0.4	0.45	0.58	0	0	0	0	0.32
Min	0	0	0	0	0	1	40	73	63	95	95	82	205	135	91	125	50	29	15	0	0	0	0	0	945
Max	0	0	0	0	11	82	246	433	665	811	944	1033	1019	941	829	668	484	277	107	18	0	0	0	0	8354
n	0	0	0	0	82	353	351	360	358	357	342	338	337	337	336	337	341	342	358	111	0	0	0	0	5041

Daylight Data Recovery: 0.0% missing; 0.0% untested; 3.7% exceed the 15% QC threshold -- 5234 total daylight measurements.

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

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

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

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

**June 2006**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	4	177	434	526	597	382	444	431 ?	785	781	737 ?	613 ?	552	448	186	0	0	0	0	0	7097
2	0	0	0	0	0	72	50	127	414	490	691 ?	401 ?	590 ?	604	641 ?	483 ?	19	0	0	0	0	0	0	0	4583 ?
3	0	0	0	0	0	4	0	1	1	0	0	42	44	1	0	0	1	0	0	0	0	0	0	0	95
4	0	0	0	0	1	166	499	668	759	801	775 ?	790	699 ?	471 ?	238 ?	231 ?	598	449	261	0	0	0	0	0	7405 ?
5	0	0	0	0	0	0	0	3	19	98	25	212	124	0	121	227	226	0	0	0	0	0	0	0	1055
6	0	0	0	0	0	57	435	449	246	642	193	345	48	146	45	1	0	3	0	0	0	0	0	0	2611
7	0	0	0	0	0	234	536	683	751	790	765	689	465	410	384	357	462	254	44	0	0	0	0	0	6824
8	0	0	0	0	3	124	203	3	5	157	673	649	587	409	254	263	12 ?	25	7	0	0	0	0	0	3375
9	0	0	0	0	0	0	50	359	372	657	394	271	398	614	514	211	300	252	86	0	0	0	0	0	4479
10	0	0	0	0	9	260	542	512	757	809	832	805	798	816	772	655	190	152	1	0	0	0	0	0	7912
11	0	0	0	0	0	2	0	0	16	119	165	420	750	669	583	376	301	212	33	0	0	0	0	0	3646
12	0	0	0	0	0	0	0	0	1	3	12	12	0	1	0	0	0	0	0	0	0	0	0	0	29
13	0	0	0	0	8	191	342	465	549	611	524	412	196	211	109	77	71	4	1	0	0	0	0	0	3769
14	0	0	0	0	0	0	0	1	0	0	0	0	0	1	0	0	0	1	0	0	0	0	0	0	4
15	0	0	0	0	0	19	191	376	500	564	701	730	724	765	688	663	587	526	316	0	0	0	0	0	7350
16	0	0	0	0	9	244	551	714	787	833	843	838	724	772	790	772	728	608	365	1	0	0	0	0	9578
17	0	0	0	0	31	285	532	619	658	666	712	716	541	650	602	666	459	191	92	0	0	0	0	0	7421
18	0	0	0	0	0	2	122	398	553	616	646	651	676	675	643	590	465	351	166	0	0	0	0	0	6556
19	0	0	0	0	2	118	329	474	567	647	662	648	602	484	545	575	486	441	173	0	0	0	0	0	6754
20	0	0	0	0	0	40	331	555	603	666	675	504	692	793	668	549	593	521	301	2	0	0	0	0	7492
21	0	0	0	0	6	171	347	241	381	172	508	168	37	0 ?	5	100	231	208	76	0	0	0	0	0	2651
22	0	0	0	0	2	142	346	332	595	666	690	703	683	649	582	569	476	334	119	1	0	0	0	0	6888
23	0	0	0	0	0	85	101	409	529	639	701	650	722	668	597	672	465	0	0	0	0	0	0	0	6241
24	0	0	0	0	0	128	156	262	420	386	500	12 ?	58	61	21	179	89	148	0	0	0	0	0	0	2420
25	0	0	0	0	0	126	366	191	494	612	569	739	761	542	522	84	146	6	0	0	0	0	0	0	5159
26	0	0	0	0	0	0	31	30	24	135	193	32	459	443	75	155	111	136	17	0	0	0	0	0	1840
27	0	0	0	0	0	0	108	280	114	217	105	2	12	4	1	1	0	1	0	1	0	0	0	0	848
28	0	0	0	0	0	0	1	21	197	117	71	144	217	228	4	9	261	13	48	0	0	0	0	0	1331
29	0	0	0	0	0	14	54	28	248	342	199	240	187	111	4	24	130	6	28	0	0	0	0	0	1616
30	0	0	0	0	0	59	0	74	313	272	401	448	299	406	146	175	286	228	105	3	0	0	0	0	3215
Avg	0	0	0	0	3	91	222	293	382	437	456	423	429	413	343	309	275	184	81	0	0	0	0	0	4342
S D	0	0	0	0	6	92	201	241	267	276	284	284	293	295	263	226	195	108	1	0	0	0	0	0	2798
S/A	0	0	0	0	2.41	1.01	0.91	0.82	0.7	0.63	0.62	0.67	0.68	0.71	0.86	0.85	0.82	1.06	1.34	2.39	0	0	0	0	0.64
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	4
Max	0	0	0	0	31	285	551	714	787	833	843	838	798	816	790	772	728	608	365	3	0	0	0	0	9578
n	0	0	0	0	83	360	359	360	360	360	347	341	350	343	344	349	357	360	360	111	0	0	0	0	5144

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.7% exceed the 15% QC threshold -- 5234 total daylight measurements.

Instrument: Eppley NIP    Serial Number: 25521E6    Calibration Factor: 8.034  $\mu\text{V}/\text{W}/\text{m}^2$     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**

**June 2006**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	5	39	91	134	208	303	369	408 ?	?	?	?	205 ?	152	119	64	6	0	0	0	0	2103 ?
2	0	0	0	0	2	44	68	133	268	299	357 ?	427 ?	?	?	?	241 ?	160	101	24	0	0	0	0	0	2125 ?
3	0	0	0	0	16 ?	16	72	98	108	88	89	420	277	127	249	145	116	23 ?	25	8 ?	0	0	0	0	1877
4	0	0	0	0	4 ?	37	83	105	121	148	307 ?	?	?	333 ?	285 ?	199 ?	164	100	41	4	0	0	0	0	1931 ?
5	0	0	0	0	0	3 ?	48	154	316	424	406	602 ?	347	162	291	381	245	108	37	7	0	0	0	0	3532
6	0	0	0	0	5 ?	45	94	175	268	278	398	487	502	515	404	260	170	130	34	8	0	0	0	0	3776
7	0	0	0	0	4 ?	34	72	93	118	138	183	289	338	315	322	249	196	99	35	7	0	0	0	0	2492
8	0	0	0	0	5 ?	41	129	206	262	391	263	294	304	392	303	346	110	43 ?	54	3	0	0	0	0	3147
9	0	0	0	0	1	31	123	212	266	241	369	380	367	286	264	266	235	119	55	6	0	0	0	0	3223
10	0	0	0	0	7 ?	36	76	138	136	117	144	169	157	140	142	179	213	136	45	2	0	0	0	0	1838
11	0	0	0	0	5 ?	20	40	93	272	422	378	323	186	238	289	310	243	175	47	3	0	0	0	0	3042
12	0	0	0	0	1	1 ?	47 ?	73	86	172	418	274	205	190	161	142	110	94	25	9	0	0	0	0	2007
13	0	0	0	0	10 ?	53	125	164	188	212	284	378	522	526	408	354	271	150	59	6	0	0	0	0	3708
14	0	0	0	0	1	19	79	84	62	95	88	58	52 ?	90	78 ?	39 ?	44 ?	105	15	3	0	0	0	0	912 ?
15	0	0	0	0	5 ?	36	123	209	260	292	238	230	208	185	198	163	134	77	31	2	0	0	0	0	2392
16	0	0	0	0	6 ?	35	65	82	91	97	110	163	220	169	127	101	81	61	35	6	0	0	0	0	1449
17	0	0	0	0	8 ?	35	71	114	158	201	203	215	258	267	211	154	167	141	72	15	0	0	0	0	2290
18	0	0	0	0	5 ?	41	148	190	215	244	253	275	257	236	210	189	178	114	47	7	0	0	0	0	2608
19	0	0	0	0	6 ?	42	108	169	209	230	255	290	292	315	263	219	151	93	46	4	0	0	0	0	2691
20	0	0	0	0	9 ?	39	97	135	176	207	212	246	203	146	171	170	134	73	37	6	0	0	0	0	2064
21	0	0	0	0	6 ?	40	110	226	310	392	362	444	326	138 ?	188	300	292	157	46	8	0	0	0	0	3343
22	0	0	0	0	7 ?	39	101	195	180	200	222	230	246	235	220	181	151	106	46	8	0	0	0	0	2366
23	0	0	0	0	5 ?	44	117	179	212	218	208	253	218	233	204	140	135	107	39	5	0	0	0	0	2317
24	0	0	0	0	4 ?	48	155	232	248	238	332	341	574	511	477	384	232	129	25	5	0	0	0	0	3935
25	0	0	0	0	6	48	98	140	208	202	251	180	192	277	259	310	229	105	48	8	0	0	0	0	2561
26	0	0	0	0	0	8	117	184	153	343	353	362	392	281	246	219	198	181	103	10	0	0	0	0	3149
27	0	0	0	0	2	22	54	218	307	444	417	319	423	307	163	125	46 ?	68	14	4	0	0	0	0	2932
28	0	0	0	0	2	20	63	230	312	385	439	482	490	455	254	239	261	106	58	4	0	0	0	0	3797
29	0	0	0	0	2	36	124	216	334	429	469	520	520	441	170	260	281	150	85	9	0	0	0	0	4047
30	0	0	0	0	6 ?	41	75	232	306	374	425	460	451	392	346	238	220	151	75	18	0	0	0	0	3812

Avg	0	0	0	0	5	33	92	160	212	261	293	328	316	282	247	224	177	111	46	6	0	0	0	0	0	2715
S D	0	0	0	0	3	14	30	52	79	110	109	123	132	126	90	84	66	36	20	4	0	0	0	0	0	806
S/A	0	0	0	0	0.69	0.41	0.33	0.32	0.37	0.42	0.37	0.38	0.42	0.44	0.37	0.38	0.37	0.33	0.44	0.59	0	0	0	0	0	0.3
Min	0	0	0	0	0	1	40	73	62	88	88	58	52	90	78	39	44	23	14	0	0	0	0	0	0	912
Max	0	0	0	0	16	53	155	232	334	444	469	602	574	526	477	384	292	181	103	18	0	0	0	0	0	4047
n	0	0	0	0	63	354	354	360	360	359	342	323	317	321	325	338	348	347	358	110	0	0	0	0	0	4981

Daylight Data Recovery: 0.0% missing; 0.0% untested; 4.8% exceed the 15% QC threshold -- 5234 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**

**June 2006**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	22.3	21.9	21.3	21	20.8	20.9	22.2	23.4	24.6	26.1	26.8	27.2	28.1	28.9	29.1	28.9	28.3	28	27.1	25.7	24.9	24.3	23.7	23.3	24.9
2	22.9	22.6	22.3	22.1	21.9	21.9	22.3	22.9	24.8	26.1	27.6	28.5	29.3	29.9	30.4	30.4	29	28.1	27	25.1	22.3	22.6	22.6	22.9	25.2
3	22.1	22.8	23	23	23.2	23.1	23.3	23.5	23.4	21.4	20.7	21.5	22.9	21.1	21.5	21.7	20.1	19.5	19.7	19.6	19.1	18.7	18.4	18.2	21.3
4	17.8	17.7	17.6	17.4	17.1	17	18	20.1	21.8	23	24	24.5	25.2	25.8	26.1	26.5	27	26.6	26.1	23.5	23	22.6	22.3	22.2	22.2
5	21.3	20.7	19.3	18.1	16.3	15.8	15.7	16.3	17.7	19.4	20.5	21.9	22.5	20.9	19	20.9	20.7	19.9	19.5	18.8	18.7	18.3	17.8	17.6	19.1
6	17.1	16.8	16.8	16.7	16.6	16.9	18.3	19.6	20.5	21.8	22	22.6	22.6	22.4	22.4	21.4	20.7	20.3	19.9	18.8	18.6	18.6	18.4	18.4	19.5
7	18	17.6	17.2	16.7	16.1	16.1	17.3	19.4	21	22.2	23.2	24.7	25.7	26.2	26.8	27.2	27.6	27.1	25.5	22.8	21.4	21.3	22.2	22.1	21.9
8	20.9	21	20.4	19.7	19.3	19.1	20	21	21.9	23.5	26	26.8	27.3	28.7	28.8	28.1	26.1	19.5	19.8	19.8	19.5	19.2	19.2	18.8	22.3
9	18.6	18.4	18.6	18.6	18.5	18.5	18.8	20.2	22.1	23.6	24.4	24.8	26.4	27.4	27.9	27.7	27.5	27.2	26.1	24.8	22.9	22	22.6	22.5	22.9
10	21.2	20.6	19.3	18.4	18.1	17.6	19.1	21.3	22.3	23.3	24.3	25	25.7	26.5	27.2	27.8	27.3	26.5	25	24.4	23.9	23.3	22.1	20.3	22.9
11	19.2	19.1	18.9	18.6	18.4	18.5	18.7	18.8	19.7	21.1	22.3	22.5	23.6	24.3	25.3	24.8	24.6	24.7	24.3	23.9	23	22.2	21.2	20.8	21.6
12	20.8	20.7	20.9	21.2	21.5	21.5	21	20.8	20.8	21.3	22.2	22.4	20.8	20	20	20	19.6	18.9	18.5	18.2	17.9	17.7	17.6	17.4	20.1
13	17.4	17.5	17.2	16.5	16	16.1	17.3	19.6	22	22.8	23.1	24.6	25.1	25.1	24	24	23.1	22.8	22.2	21.7	21.4	21.1	21.1	21	20.9
14	21.1	20.6	19.4	19.7	20.1	20.5	21	21.7	22.1	22	21.4	21.4	21.1	21.1	21.5	21.6	19.5	19.9	19.8	19.1	18.8	18.6	18.4	18.2	20.4
15	17.7	17.5	17.4	17.4	17.3	17.5	18.5	20.1	21.7	22.9	24.3	25	26.3	26.8	27.4	27.2	27.2	27.1	26.6	24.2	21.9	20.6	19.8	19.3	22.1
16	19	18.7	18.5	18.3	17.9	18	19.9	22.7	24.7	26.3	27.1	27.9	27.9	27.6	27.3	26.8	25.9	25.2	23.8	22.3	20.6	19.7	19.4	18.8	22.7
17	18.4	17.8	17.6	17.1	16.5	17.4	20.3	22.1	23.9	25.9	26.7	27.9	27.6	27.8	27.5	27.8	27.1	26.1	25.3	24.1	23.1	22.4	21.8	21.2	23.1
18	20.8	20.5	20.1	20.1	19.8	20	21.1	23.1	24.6	25.8	26.4	27	27.8	28.3	28.7	28.7	28.5	28.2	27.1	25.7	24.6	23.8	23.3	22.7	24.4
19	22.1	21.7	21.3	20.9	20.6	20.6	21.5	22.7	24	25	25.9	26.8	27.8	28	28.3	28.8	28.8	28.7	27.8	26	24.9	24.2	23.9	23.5	24.8
20	23.2	23.2	23.3	23.2	22.9	22.8	23.2	24.2	25.5	27.2	28.4	29.2	29.9	30.7	31	31.3	31.5	31.3	30.7	28.8	27.2	25.6	24.8	24.4	26.8
21	24	23.8	23.5	23.1	22.5	22.7	23.9	25.4	28.2	29.4	30	30.5	29.9	23.9	23.5	24.5	26	25.3	24.4	23.7	23.1	22.8	22.8	22.5	25
22	22.3	22	21.7	21.3	21.4	21.7	23.1	24.4	25.6	26.8	27.8	29	30	30.7	31.3	31.5	31.6	31.1	30.1	28.6	27.2	26.1	25.4	25	26.5
23	24.7	24.5	24.2	24	23.9	23.9	24.6	25.8	26.8	27.4	28.1	29.1	29.8	30.5	30.2	29.9	29.2	28	27	25.9	25.5	25.3	25.1	24.9	26.6
24	24.7	24.5	24	23.6	23.5	23.9	25.1	25.9	26.8	26.8	27.3	26.6	25.9	26.4	25.8	26.8	27.2	27.5	26.6	25.9	25.4	25	24.7	24.6	25.6
25	24.3	23.9	23.7	23.7	23.6	23.6	25	25.5	26.3	27.1	27.5	28.1	28.5	28.3	28.4	27.8	27.4	26.7	26.1	25.5	25.4	24.5	24.1	24.2	25.8
26	24.8	24.6	24.2	23.6	23.3	23	23.7	25.1	24.5	25.5	26.8	25.2	27.4	28.2	26.1	26.7	25.8	26.2	26.2	25.6	25.2	25.1	24.5	24	25.2
27	24	22	22.2	23.4	23.8	23.9	24.1	25.1	26.1	26.7	27.1	26.3	26.5	26.9	26.7	24.8	25.3	24.3	24.1	24	23.7	23.8	23.8	24.2	24.7
28	24.5	24.5	24.3	24	23.9	23.9	23.8	24.3	25.1	25.9	26.6	27.2	28.2	28.5	27.9	27.8	28.3	28.1	27.5	26.4	25.6	25	24.6	24.6	25.8
29	24.5	24.5	24.7	24.7	24.5	24.2	24.6	24.9	26.3	28.4	29.6	29.6	29.7	29.5	27.5	27.3	28.3	26.6	26	25.4	23.3	21.4	21.7	21.7	25.8
30	21.6	21	20.8	20.9	21.4	21.5	21.6	22.6	24.5	25.7	26.9	27.6	27.5	28	27.6	26.9	26.8	26	25.1	24.2	23.5	23.3	22.5	22.6	24.2
Avg	21.4	21.1	20.8	20.6	20.4	20.4	21.2	22.4	23.6	24.7	25.5	26	26.6	26.6	26.5	26.5	26.2	25.5	24.8	23.7	22.9	22.3	22	21.7	23.5
S D	2.5	2.5	2.5	2.7	2.8	2.8	2.6	2.4	2.4	2.5	2.6	2.6	2.6	3	3.2	3	3.3	3.4	3.2	2.8	2.6	2.5	2.4	2.4	2.2
S/A	0.12	0.12	0.12	0.13	0.14	0.14	0.12	0.11	0.1	0.1	0.1	0.1	0.1	0.11	0.12	0.11	0.12	0.13	0.13	0.12	0.11	0.11	0.11	0.11	0.1
Min	17.1	16.8	16.8	16.5	16	15.8	15.7	16.3	17.7	19.4	20.5	21.4	20.8	20	19	20	19.5	18.9	18.5	18.2	17.9	17.7	17.6	17.4	19.1
Max	24.8	24.6	24.7	24.7	24.5	24.2	25.1	25.9	28.2	29.4	30	30.5	30	30.7	31.3	31.5	31.6	31.3	30.7	28.8	27.2	26.1	25.4	25	26.8
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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**

**June 2006**

**Relative Humidity (Roof)**  
**Hourly and Daily Averages**  
**Instrument: CSI HMP-35C**  
**Percent**

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	102.1	102.2	103.3	104	104.7 ?	104.8 ?	102.5	97.2	91.9	84.7	80.5	79.3	73.5	66.8	66.4	69.9	75.8	77.4	80.9	85.3	89.2	91	95.5	95.5	88.5
2	98.3	100.5	100.9	101.7	103	103.7	102.7	101.1	95.5	90.8	85.7	81.9	75	69.9	68.4	68	74.4	80.2	86.8	91.8	99.2	97	97.8	97.2	90.5
3	101.1	100.5	100.1	100	99.3	99.5	98.6	99.4	100.1	103.8 ?	?	?	101.3	102.3 ?	?	104.5 ?	102.8	103.3	102.4	101.1	103.6	104.8 ?	?	?	101.5 ?
4	?	?	?	?	?	?	103.2 ?	96	83.5	73.9	68.6	66.5	65.7	63	61.5	59.1	56	56.2	61.2	86.1	92.3	90.9	91.1	83.8	75.5 ?
5	92.4	94.6	91.6	99.5	104.1	104.8 ?	?	104.6 ?	101.8	97.1	91.8	83.1	80.3	89.4	101.7	93.1	89.3	93.4	95.3	98.1	96	98.1	101.2	102.3	95.8 ?
6	104.2	?	105 ?	?	?	105 ?	101.1	96.6	88.9	80.9	81	78.3	80.1	82.6	84	92.1	95.7	97.3	99.1	104.1 ?	?	?	?	?	92.7 ?
7	?	?	?	?	?	?	102.6 ?	93.9	85.5	78.2	73	68.6	66.1	63.4	59.8	59.8	58.2	61.5	65.8	68.2	75.2	78.7	78.7	79.6	73.2 ?
8	86.5	86	89.6	94.1	95.8	97.4	96.3	94.2	89.3	82.3	71.6	73.5	68.5	62.7	59.9	59.9	72.8	102	102.8	104.2	104.1	103.1	104.4 ?	104.6 ?	87.7
9	104.9 ?	105 ?	?	?	?	?	?	101.6	94.6	88.7	84.1	83.1	74.5	65.3	61.6	60.1	60.6	62.7	70.7	75.6	90.3	94.2	83.3	76.6	80.9 ?
10	81.8	81.2	84.3	87.1	86.3	89	83.9	64.4	54.5	54.1	52.7	50.9	52	48.5	48.4	47.5	48.8	52.3	55.7	59	61.8	65.7	80.5	94.8	66
11	98.8	98.9	101.8	104.5	103.3	103.6	100.9	96.3	80.5	66	64.6	65.9	63.8	64.5	65	69.4	71.5	72.2	75.5	79.5	86.9	94.1	103	104.6 ?	84.8
12	?	?	?	?	?	?	?	?	?	103.9 ?	101.1	100.4	102.5	101.1	99.5	98.9	99	99.8	100.1	100	101.3	101.8	102.4	103.4	101 ?
13	103.9	103.4	103.3	104.7 ?	?	?	102.2 ?	91	77.5	71.8	72.3	65.5	62.3	64.1	78.8	77.6	78.3	80.2	85.1	84.9	87.4	90.1	88.9	90.6	84.7 ?
14	89.8	94.7	103.4 ?	?	?	?	?	?	104.7 ?	104.6 ?	?	?	?	?	?	?	104.8 ?	104.7	104	?	?	?	?	?	101.3 ?
15	?	?	?	?	?	?	104.1 ?	100.4	93.4	87.1	77.7	70.7	64.3	57.7	55.7	54.6	55.8	54.3	55.6	68.5	83.6	92.2	96.5	98.2	76.1 ?
16	99.7	102.2	102.4	103.8	104.8 ?	?	97.1	79.5	69.5	62	57	53.8	52.6	50.5	47.2	48.4	51.7	52	59	66.8	77.7	83.6	84.5	86.2	73.6
17	90.6	95.9	95.8	97.5	101	100	92	82.1	78.9	62.7	57	53.8	62	61.5	56.6	56.6	56.4	57.8	62.8	65.2	67.9	70.2	75.8	83	74.3
18	89.3	93.7	96	94.9	96.2	95.4	92.9	82.4	70	60.9	58.6	58.7	60.8	60.5	59.4	60.5	62.6	66	78.1	85.4	90.8	91.6	90.4	88.4	78.5
19	90.8	90.7	92.7	94.2	95.6	95.8	92.9	87	80.1	75.5	73.2	69.9	67.8	67.2	65.2	63.8	62.8	62	65.1	78.9	88.2	91	91.7	94.5	80.7
20	95.9	94.9	94.6	95.9	97.3	99.7	99.5	96.1	91.1	82.6	75.9	70.6	65.4	60.6	57.5	55.4	51.3	49.4	52.4	60.8	67.9	78.4	90.9	91.8	78.2
21	98.5	104	?	104.7 ?	104	100.2	95.8	88.1	73.1	67.6	62.7	68.9	73.6	94.4	92	96.2	90.9	92.4	94.7	98.7	101.4	103.1	104.8	104.8	91.9
22	104	104.4	104.8 ?	?	?	?	104.4	102.3	95.8	89.9	84.3	81.5	72.8	75	73	72.7	71.9	71.3	77.6	87.1	95.9	97.2	97.3	99.6	88.7 ?
23	102.5	104.5	104.5	104.3	104.5	104.6	103	97.9	92.4	87.6	82.4	78.7	76.1	72.8	75	76.8	77	81.7	87.2	92	93.4	96.1	98.2	98.7	91.3
24	99.2	99.7	101.1	102.9	103.5	102.2	99	95.4	89.6	88.9	87.2	92.2	96.1	92.4	96.3	93.9	90.8	86.2	89.6	92.4	95.4	97.5	99.9	100.6	95.5
25	101.2	102.5	102.8	102.6	102.5	102.4	98.2	94.9	89.3	82.5	81.5	75.6	75.3	78.6	77.6	80.9	83.4	88.8	94.1	97.1	99	103.2	104.1	104.4	92.6
26	103.6	104.2	104.5	?	?	?	?	103.7	104.3	102.9	97.1	100.2 ?	93.1	87.4	96.5	93.8	99.8	96.8	96.5	98.5	100.8	102	103.8 ?	?	99.4 ?
27	104.3 ?	?	?	?	?	?	103.6 ?	102.3	98.6	96.3	95.8	99	98.7	95.6	96.8	100.3	101.7	103.6	104.3	104.1 ?	104.8 ?	104.7 ?	?	105 ?	101.1 ?
28	104.9	105 ?	104.6	104.9 ?	?	104.5	103.9	101.4	98.7	94.2	91.5	89.1	85.7	87.5	88.3	87.1	89.8	92.3	96.5	99.5	101.5	103.2	102.5	102.9	97.4
29	104.7 ?	?	?	?	?	?	104.9 ?	103.8	97.4	86.8	80.2	81.3	81.1	87.6	81.1	80.8	76.9	86.4	80.2	84.4	90.5	101.6	102.7	101.2	90.2 ?
30	101.2	103.9	104.3	104.2	104.6 ?	?	?	103.4	95.8	86.6	79.3	74.8	73.6	70.1	69.5	66.9	65	66.3	69.1	78.9	83	88.8	96.2	97.1	85.6 ?
Avg	98.2	98.8	99.6	100.3	100.6	100.7	99.4	94.9	88.5	83.2	77.4	75.6	74.6	73.9	73	74.1	75.9	78.4	81.6	86.1	90.3	93.3	94.8	95.8	87.3 ?
S D	6.6	6.4	5.9	5	5	4.4	5.1	9.1	11.7	13.7	12.7	13.3	13.6	15.1	16.2	17	17.4	18	16.6	13.8	11.6	10.2	8.6	8.4	9.9
S/A	0.07	0.07	0.06	0.05	0.05	0.04	0.05	0.1	0.13	0.17	0.16	0.18	0.18	0.2	0.22	0.23	0.23	0.23	0.2	0.16	0.13	0.11	0.09	0.09	0.11
Min	81.8	81.2	84.3	87.1	86.3	89	83.9	64.4	54.5	54.1	52.7	50.9	52	48.5	47.2	47.5	48.8	49.4	52.4	59	61.8	65.7	75.8	76.6	66
Max	104.9	105	105	104.9	104.8	105	104.9	104.6	104.7	104.6	101.1	100.4	102.5	102.3	101.7	104.5	104.8	104.7	104.3	104.2	104.8	104.8	104.8	105	101.5
n	291	257	245	207	180	175	241	323	339	344	336	333	348	341	336	339	350	359	360	336	327	322	300	287	7279

Data Recovery: 0.0% missing; 0.0% untested; 15.8% failed QC -- 8640 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**

**June 2006**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	21.9	21.4	21	20.7	20.4	20.3	21.5	24	26.5	29	30.9	32.2	32.1	32.4	33	33.3	33.3	32.6	31.3	28.7	26.3	24.9	24.1	23.4	26.9
2	23	22.6	22.4	22.2	22.1	21.8	22.3	22.9	24.7	28	30.6	32.5	32.9	33.1	33.8	34.4	33.8	31.3	29.4	27.7	25.5	23.6	23.2	23.1	27
3	22.8	22.3	22.6	22.7	22.9	23.2	23.4	23.9	24.3	23.5	22.1	21.7	22.9	23.4	22.3	22.4	21.8	20.6	20.1	20.1	19.6	18.8	18.5	18.2	21.8
4	17.9	17.6	17.5	17.4	17.2	17	17.6	19.7	23	25.9	27.9	29.1	29.4	29.7	29.9	29.8	30.1	30.4	29.3	27	24.3	23	22.1	21.9	23.9
5	21.7	21	20.5	19.5	18	16.8	16.1	16.3	17	19	22	24.1	26.5	26.1	23	22	23.7	23	21.4	20.1	19.2	18.5	17.9	17.3	20.4
6	16.9	16.5	16.3	16.2	16.1	16.2	17	19.6	21.9	23.7	25.4	26.1	26.6	26.4	26.3	25.4	23.9	22.8	21.9	20.6	19.4	18.9	18.6	18.4	20.9
7	18.3	18.1	17.7	17.3	16.8	16.2	16.9	19.2	22.2	24.7	26.3	27.6	28.8	29.3	29.6	30	30.3	30.3	28.5	25.4	22.7	21.3	21.2	21.4	23.3
8	21.1	20.6	20.2	19.7	19.2	18.8	19.5	21.2	22.5	24.1	28	31.5	32.1	32.4	32.6	32.2	31	25.7	21.4	20.4	19.9	19.3	19	19	23.8
9	18.7	18.4	18.4	18.6	18.6	18.6	18.7	19.8	22.4	26.2	29.2	30.1	30.2	31	32.2	32.4	31.5	31	29.3	27	24.8	22.5	21.6	21.6	24.7
10	21.3	20.3	19.6	18.6	17.9	17.4	18.3	20.9	23.6	25.6	27.5	28.7	28.7	28.9	29.7	30.7	31	30	28	26	24.8	23.9	23	21.5	24.4
11	20.1	19.6	19.3	19	18.9	18.8	18.9	19	19.6	21.6	24.3	26	27.1	28.1	29.2	30.1	29.4	28.6	27.5	25.6	24.2	23.3	22.2	21.3	23.4
12	20.9	20.9	20.9	20.9	21	21.3	21.4	21.3	21.2	21.3	21.8	23.7	23.7	23.1	22.5	22.4	22	21.4	20.5	19.7	19	18.6	18.3	18.1	21.1
13	18	17.9	17.6	16.7	16	15.7	16.7	19.3	22.9	26.2	28.1	29.1	30.1	30.8	30.6	29.2	27.6	26.1	24.6	23.2	22.1	21.6	21.3	21.3	23
14	21.2	21	20.2	19.7	19.9	20.3	20.7	21.3	21.7	21.9	21.9	21.8	21.7	21.6	21.7	21.8	21.4	20.2	20	19.7	19.4	19.1	18.9	18.6	20.7
15	18.2	17.7	17.5	17.5	17.5	17.4	17.9	19.4	22.4	25.5	27.8	29.1	29.6	30.2	31.1	32	32.1	31.6	30.2	27.5	23.6	21	19.3	18.2	23.9
16	17.7	17.6	17.6	17.5	17.4	17.3	18.5	21.7	25.5	28.7	31	32.2	32.7	32.3	31.9	31.8	31.3	30.2	28.5	25.4	21.8	19	17.8	17	24.3
17	16.4	16	15.5	15.3	14.9	14.9	17.1	21.5	25.2	28.5	30.7	32.3	33.1	32.4	32.4	32.3	32.3	30.8	28.6	26.4	24.3	22.7	21.8	20.9	24.4
18	20.2	19.7	19.1	18.7	18.8	18.8	19.7	22.4	25.6	28.1	29.6	30.5	30.9	31.6	32.4	32.7	32.8	32	30.8	28.5	26.1	24.6	23.7	22.9	25.8
19	22.3	21.8	21.3	20.8	20.4	20.2	21	23.1	25.3	27.3	28.9	30	30.7	31.3	31.5	32.1	32.6	32.4	31.2	28.8	26.4	25	24.3	24	26.4
20	23.5	23.2	23.3	23.2	23	22.8	23.2	24.9	27.1	29.5	31.5	32.7	32.9	33.1	34	34.7	34.9	34.7	33.8	31.6	28.5	26.2	24.6	23.7	28.4
21	23.2	23.1	23.1	23	22.6	22.3	23.3	25.6	28.8	32.5	34.7	36.3	35.7	32.1	25.8	23.7	26	28.3	27.7	25.7	23.9	22.9	22.5	22.4	26.5
22	22.1	21.9	21.5	21.1	20.9	21	22	24.5	27.1	29.4	31.3	32.6	33.6	34.2	35	35.8	36.2	35.9	34.3	31.6	29.1	27.4	26.3	25.4	28.3
23	24.9	24.5	24.2	23.9	23.6	23.5	24.3	26	28.8	31	32.3	33.2	33.8	34.2	34.7	34.6	34.4	32.4	29.8	27.8	26.4	25.7	25.5	25.2	28.5
24	24.9	24.6	24.1	23.5	23.1	23.2	24.7	26.4	28.9	30.6	31.1	31.5	28.8	29	29.6	29.9	30.6	30.3	29.2	27.4	26.2	25.3	24.7	24.3	27.2
25	24	23.7	23.4	23.2	23.2	23	24.3	26.4	27.8	29.6	30.9	31.6	31.9	32	32.1	31.8	30.9	29.9	28.3	27	26.1	25.4	24.5	24	27.3
26	24	24.3	24.3	23.9	23.6	23.4	23.4	24.3	24.8	24.9	26.4	26.7	27	29.5	29.5	29.3	28.5	28	28.1	27.3	26.2	25.5	25.2	24.5	25.9
27	24.1	23.6	22.7	22.7	23.3	23.6	23.8	24.6	26.8	28.3	29.9	28.9	27.5	27.8	28.4	26.9	25.2	24.8	24.3	24	23.8	23.6	23.6	23.7	25.2
28	23.9	24.2	24.4	24.3	24.1	24.1	24.3	24.7	26.1	28.2	29.5	30.6	31.7	32.7	32.7	31.1	30.8	31.6	30	28.4	26.6	25.3	24.6	24.3	27.4
29	24.1	24.2	24.5	24.6	24.5	24.4	24.6	25.5	27.2	30.6	34	35.7	35.9	35.6	34.1	31.2	31	30.9	28.9	27.3	25.7	23.4	21.8	21.2	28
30	21	20.7	20.3	20	20.2	20.8	21.4	22.3	24.8	27.7	29.7	32	33.1	32.8	32.9	31.6	30.8	30.4	28.8	26.7	24.7	23.5	22.7	22	25.9
Avg	21.3	21	20.7	20.4	20.2	20.1	20.8	22.4	24.5	26.7	28.5	29.7	30.1	30.2	30.1	29.9	29.7	28.9	27.5	25.8	24	22.8	22.1	21.6	25
S D	2.5	2.6	2.6	2.7	2.8	2.9	2.8	2.6	2.8	3.2	3.5	3.7	3.6	3.4	3.8	4	4	4.1	3.9	3.4	2.8	2.6	2.5	2.5	2.4
S/A	0.12	0.12	0.13	0.13	0.14	0.14	0.14	0.12	0.12	0.12	0.12	0.12	0.12	0.11	0.13	0.13	0.14	0.14	0.13	0.12	0.11	0.11	0.11	0.12	0.1
Min	16.4	16	15.5	15.3	14.9	14.9	16.1	16.3	17	19	21.8	21.7	21.7	21.6	21.7	21.8	21.4	20.2	20	19.7	19	18.5	17.8	17	20.4
Max	24.9	24.6	24.5	24.6	24.5	24.4	24.7	26.4	28.9	32.5	34.7	36.3	35.9	35.6	35	35.8	36.2	35.9	34.3	31.6	29.1	27.4	26.3	25.4	28.5
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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**

**June 2006**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0.9	1	1	1.4	0.8	1	1.7	2.8	2.7	1.8	1.8	2.5	2.9	3.3	3.3	3.4	3.9	3.9	3.1	2.5	2.3	2.2	2	2	2.3
2	2.3	2.5	2.6	2.5	2.1	1.7	2	2.6	2.8	2.8	3.2	3.4	4.1	4.3	4	3.9	3.4	3.1	2.9	3.8	1.9	1.2	2.1	2.1	2.8
3	1.5	3	3.8	3.7	3.5	2.9	3	2.7	3.1	3.5	2.3	2.2	3.4	2	1.4	1.6	3.2	1.7	0.5	0.1	0	0.2	0.2	0.1	2.1
4	0	0.5	0.9	1.3	0.7	1.3	1.3	1.1	1.6	2.1	2.1	2.8	2.7	2.3	2	1.7	2.1	2.5	1.3	2.9	2.4	2.2	2.5	2	1.8
5	1.6	1.9	2.7	3.5	2.5	1.5	0.3	0.8	1	1	1.6	1.3	1.6	2.4	1.9	3.3	3.6	2.9	2.3	1.4	0.4	0.1	0.1	0.5	1.7
6	0.7	0.6	1.5	1.3	1.5	0.9	1.5	2.7	3.3	3.9	3.5	4.3	4.2	4.5	3.8	4.2	4.2	3.3	3.5	2.8	2.7	2.8	2.3	1	2.7
7	0.7	0.6	1	1.5	1.7	1.3	1.9	2.3	2.8	3.4	4.2	4	3.5	3.7	4.3	4.7	4.7	3.3	3.6	1.5	0.3	1.3	1.7	1	2.5
8	1.3	2.2	2.2	2.1	1.7	1.4	1.9	1.6	1.5	0.6	0.9	1.8	2.4	3.1	3.4	4.1	2.4	2.6	0.8	0.8	1.5	0.6	1.7	0.7	1.8
9	0.7	0.7	1.6	2	0.4	0	0.1	1	0.5	0.9	1.3	2.1	1.9	2.4	2.6	2.1	2.8	2.2	1.7	1.7	1.6	0.8	2	2.3	1.5
10	1.7	2.2	2.1	2.2	1.9	1.8	2.1	2.9	3.7	3.2	2.9	4.1	3.9	4.3	3.9	3.8	3.4	3.6	1.8	1	0.7	0.4	0.5	1.1	2.5
11	1.1	1.3	1.4	1.9	1.8	1.1	1.7	1.1	1.8	2.6	1.3	1.9	1.4	1.9	1.8	2.6	2.9	1.9	0.9	0.3	1.3	1.1	0.7	0.5	1.5
12	1.2	1.9	0.6	0.6	0.1	0.4	1	1.4	1.2	1.9	3.3	3	2.5	1.9	1.5	2.1	2.2	2.4	2.1	1.8	1.9	0.5	1.1	1.5	1.6
13	0.9	0.9	0.2	0.4	0.1	0.8	1.6	0.8	0.6	1.2	1.4	1.3	1.6	1.7	2.4	2.8	3.2	2.7	2.3	1.7	1.6	1.1	1.2	1	1.4
14	1.2	1.4	0.9	0.5	0	0.4	1.6	2.3	2.6	2.9	3.4	4.1	4.7	5.3	4.5	2.8	8.1	5.6	4	2.7	2.1	1.8	1.8	1.6	2.8
15	1.1	1.5	0.7	0.5	0.5	1.6	1.8	2.1	1.6	2.3	2.2	3.1	2.2	2.6	2.4	2.8	2.5	2.1	1.1	0.6	0.4	0.1	0.2	0.3	1.5
16	1	1.4	1.5	1.6	0.7	0.4	1.2	0.7	1.4	1.6	2.2	2.6	3.3	3.6	3.8	3.8	3.6	2.8	2.5	1	0	0.4	0.3	0.4	1.7
17	0.2	0.2	0.4	0.2	0	0	0.1	0.8	1.3	1.6	1.8	1.1	2.6	2.5	3.6	3	3.7	3.4	2.6	2.1	1.7	1.6	1.2	1.1	1.5
18	0.9	0.5	0.4	0.9	0.8	1	1.3	1.9	2.7	3.4	3.8	3.6	2.9	2.9	3.2	3.3	3.7	2.8	1.8	1.6	2.1	2.4	2.7	2.7	2.2
19	2.6	2.6	2.3	1.8	1.6	2	2.8	4	3.7	3.8	4.2	4.2	3.4	4	4.6	4	3.2	3	2.1	2	2.5	2.8	3	3.2	3.1
20	3	3.1	3.1	3	2.7	2.7	3.8	3.7	2.9	3	3.2	3.3	4	3.9	3.5	3.6	3.6	3.1	2	0.8	0.4	0.3	0.3	0.9	2.7
21	1.1	1.3	1.2	1.6	1.7	1.7	1.8	1.1	0.6	0.5	1.4	1.8	1.8	3	2.8	1.9	2.1	3.1	1.1	0.7	0.6	0.7	1.3	1.1	1.5
22	1.4	0.9	0.1	0.1	0.4	0.6	1.1	2.4	2.8	3	3.1	2.8	3	3.1	2.9	2.8	2.3	2.1	1.5	1.4	1.8	2.5	2.4	2.1	1.9
23	1.9	1.7	1.6	1.2	1.2	0.7	1	2	2.5	2.9	3.3	2.9	3.4	3.4	4.1	4.2	4.6	3	2.8	3.1	3.4	2.6	2	1.6	2.5
24	1.3	0.5	0.2	0.8	0.7	1.6	1.9	2.4	2.9	3.6	4.3	2.9	3.4	3.5	3.4	3.4	3.4	3.6	2.4	2.7	1.9	1.4	1.1	1	2.3
25	0.5	0.9	0.6	0.8	0.5	0.7	2.2	3.2	4.1	4.6	4.8	4.7	4.9	5.8	5.5	5.1	4.7	4	3.4	3.1	3.8	3.6	3.5	2.8	3.2
26	3.2	2.7	2.9	3.6	2.7	2.2	2.2	3.2	3.4	3.1	4.3	4.1	5.7	6.2	3.6	5.1	3.8	4.3	3.5	2.9	2.5	2.7	2.7	1.4	3.4
27	3	1.1	0.7	1.5	2	2.8	3.6	4	5	5.2	5.8	4.5	4.4	5.3	5	3.5	5.4	4.1	4.8	7.4	4.7	2.9	1.9	1.9	3.8
28	2.1	2.1	2.1	1.9	1.7	2.5	2.2	2.3	2.2	2	1.5	1.8	1.5	2.2	1.9	1.7	1.9	1.6	1.4	1.4	0.7	0.5	0.9	1	1.7
29	0.7	0.5	0.8	0.7	0.5	1.2	1.6	1.5	1.1	0.7	0.5	1.2	1.5	2.1	1.9	2.3	2.4	3.5	2.1	0.9	3.1	1.3	2	2.2	1.5
30	0.5	0.2	0.4	0.6	1.6	1.6	1.7	1.3	2.1	2.4	2	2.3	2.2	2.5	2.7	3	2.8	3	2.6	1.8	1.7	1.6	1	1.6	1.8
Avg	1.3	1.4	1.4	1.5	1.3	1.3	1.7	2.1	2.3	2.5	2.7	2.9	3	3.3	3.2	3.2	3.5	3	2.3	2	1.7	1.5	1.5	1.4	2.2
S/D	0.8	0.8	1	1	0.9	0.8	0.9	1	1.1	1.2	1.3	1.1	1.1	1.2	1.1	1	1.2	0.8	1	1.4	1.1	1	0.9	0.8	0.7
S/A	0.61	0.6	0.71	0.66	0.71	0.6	0.49	0.46	0.48	0.48	0.47	0.37	0.37	0.37	0.34	0.3	0.36	0.28	0.45	0.72	0.66	0.69	0.6	0.55	0.3
Min	0	0.2	0.1	0.1	0	0	0.1	0.7	0.5	0.5	0.5	1.1	1.4	1.7	1.4	1.6	1.9	1.6	0.5	0.1	0	0.1	0.1	0.1	1.4
Max	3.2	3.1	3.8	3.7	3.5	2.9	3.8	4	5	5.2	5.8	4.7	5.7	6.2	5.5	5.1	8.1	5.6	4.8	7.4	4.7	3.6	3.5	3.2	3.8
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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.

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

**June 2006**

**Wind Direction**  
**Hourly and Daily Averages**  
**Instrument: NRG Vane**  
**Degrees from North**

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	182	199	212	213	207	206	212	225	233	224	207	185	168	162	173	158	129	139	178	165	170	184	190	197	181
2	203	204	207	217	213	206	208	210	214	197	184	198	208	203	187	193	186	184	181	244	235	205	240	187	203
3	229	194	197	200	201	191	195	197	191	235	232	213	210	245	236	254	332	340	2	352	297	248	248	226	216
4	233	245	256	261	260	265	267	278	281	269	268	236	237	247	244	246	231	224	180	137	143	163	185	189	227
5	252	235	261	269	285	257	112	297	297	354	336	17	19	34	31	64	70	65	61	55	62	291	316	326	0
6	316	329	356	340	328	340	359	3	23	31	11	17	41	38	33	31	22	8	3	354	342	356	349	324	12
7	276	271	276	276	287	282	296	305	303	288	288	293	290	271	258	258	254	247	239	252	170	211	209	329	271
8	211	224	230	230	241	230	222	230	228	232	92	148	174	216	236	227	237	330	17	57	38	65	243	279	227
9	219	246	247	232	248	279	258	340	332	92	274	273	301	305	293	284	261	245	220	207	339	251	243	258	266
10	287	276	264	263	273	279	305	320	322	320	294	257	251	262	260	256	266	292	296	323	352	14	187	210	279
11	222	241	260	248	274	289	256	265	335	352	26	29	103	222	238	235	223	232	224	162	133	148	76	175	249
12	89	142	151	109	134	173	208	199	218	227	234	259	316	315	321	351	359	11	356	357	345	346	311	347	311
13	15	41	24	312	304	313	349	343	47	23	108	51	112	170	144	137	132	126	126	122	139	131	139	140	115
14	134	127	130	158	132	102	107	115	110	110	98	88	81	82	79	12	351	9	305	296	291	278	272	271	52
15	261	260	242	225	224	241	264	281	291	302	309	339	333	324	335	338	350	337	323	50	208	208	210	222	308
16	240	259	264	264	268	276	276	301	19	35	35	46	59	56	62	59	62	64	95	113	151	155	160	184	52
17	202	238	238	244	27	32	129	217	232	229	217	178	119	141	131	144	127	127	127	141	145	147	162	162	149
18	161	157	170	197	205	187	191	203	219	216	224	225	223	218	218	224	227	209	178	174	168	180	195	201	207
19	211	213	214	207	206	212	223	231	234	225	230	225	206	217	221	210	196	202	202	170	177	186	197	203	212
20	205	210	210	222	220	222	227	237	244	255	249	248	244	251	244	246	245	246	256	225	214	97	98	137	235
21	184	203	216	232	231	227	260	268	9	30	118	140	180	355	151	206	173	153	218	208	245	180	199	218	197
22	212	210	209	201	181	190	218	218	213	226	223	196	199	186	188	185	179	179	187	172	165	152	158	173	192
23	167	172	155	171	168	177	163	182	177	171	158	171	163	169	144	131	122	123	132	131	147	161	182	179	154
24	181	198	154	133	131	133	144	146	158	142	142	160	137	151	118	116	141	142	142	151	147	147	153	148	143
25	138	133	128	124	119	122	133	134	132	133	135	147	136	130	134	134	132	131	127	121	123	131	125	127	132
26	140	152	139	132	136	146	121	139	127	144	149	153	142	144	165	155	149	147	150	146	125	130	133	127	143
27	134	229	81	107	114	118	120	123	122	121	117	130	137	143	133	129	115	115	119	144	185	201	200	190	134
28	204	212	206	208	208	221	230	232	249	251	228	225	203	166	173	156	145	177	200	217	203	197	207	162	206
29	168	192	194	192	205	219	234	258	292	14	238	190	183	193	116	85	118	104	114	36	34	189	114	50	133
30	91	199	217	213	228	266	339	17	32	17	32	74	95	76	74	82	76	73	89	89	112	98	104	95	72
Avg	194	208	215	219	222	216	219	219	215	210	195	193	170	178	170	170	150	140	153	152	149	166	184	185	187
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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.

Prepared by: Afshin M. Andreas, NREL



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

**June 2006**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	1.7	1.7	1.6	2.2	1.6	1.7	3.1	4.8	4.3	3.5	3.4	4.6	5.2	5.7	6.1	5.8	6.1	6.3	6	4.4	4.5	4.2	3.7	3.7	4
2	4.1	4.3	4.1	4.2	3.4	3	3.8	4.4	4.8	5.2	5.2	6.2	7.2	7.1	6.9	7	6.1	5.9	5.5	6.8	3.2	2.2	3.8	3.7	4.9
3	2.7	5	6.5	6.3	6.4	5.4	5.3	5.2	5.5	6.1	4.3	4.1	5.7	3.8	2.7	3.2	5.5	3.4	1.4	0.4	0.1	0.7	0.7	0.5	3.8
4	0.5	1.4	2	2.3	1.6	2.3	2.6	2.7	3.5	4.4	4.3	5.2	4.9	4.5	3.5	3.1	4.2	4.1	2.4	4.5	4.2	3.8	4.7	3.5	3.3
5	2.8	3.3	5.3	6.7	5.2	3.2	0.8	2.1	2.7	2.7	3.2	2.7	3	4	3.7	5	5.9	4.8	4.5	2.8	1.3	0.5	0.4	1.2	3.2
6	1.6	1.6	2.6	2.3	2.6	2	2.9	5	5.8	6.8	6.3	7.2	7.2	7.7	6.9	7.4	7.2	5.9	6	5.1	4.6	5	4.1	2.4	4.8
7	1.9	1.7	2.8	3.5	3.8	3.3	4.3	5.1	5.4	7.4	7.7	7.7	7.1	6.8	7.8	8	8.2	5.7	6.1	2.7	0.7	2.3	3.9	1.9	4.8
8	2.2	3.5	3.5	3.4	2.5	2.3	3.2	2.7	2.3	1.5	2.2	3.6	4.2	5.1	6.1	6.8	5.2	5	1.7	2	3	1.5	3.3	1.7	3.3
9	1.7	1.7	3	3.4	1.3	0.1	0.8	2.1	1.4	2	3.1	4	4.2	5.1	5.2	4.4	4.9	3.8	2.8	3	3.4	1.6	3.1	4.2	2.9
10	3.5	4.3	3.6	3.7	3.4	3.6	4.4	5.6	7	6.4	5.6	7.3	7.3	7.5	7.8	6.8	6.8	7.2	3.9	2.2	1.4	1.2	1.3	2	4.7
11	2.4	2.4	2.4	3.1	3.3	2.6	3	2.2	3.2	4.5	2.8	3.4	3	4	3.6	4.7	4.6	3.4	1.7	1	2.2	2.3	1.5	1.4	2.9
12	2.4	3.3	2	1.8	0.8	1.1	2.6	3.2	2.6	3.7	5.3	5.3	4.9	4.3	3.5	4	3.9	4.4	4	3.1	3.6	1.2	2.6	2.8	3.2
13	1.7	2.1	0.7	1.1	0.4	2	3	2.2	1.8	2.6	2.8	2.7	2.9	3.3	4	4.5	4.8	4.1	3.8	2.8	2.8	1.9	2.1	2	2.6
14	2.1	2.6	1.7	1.6	0.5	1.2	3.1	3.9	4.5	5.2	6.1	6.9	8	9.3	7.8	5.5	14.6	10.9	8	6.1	5	4	4	3.7	5.3
15	2.8	3.3	2	1.6	1.3	3.3	4.3	4.6	4.1	4.6	4.9	5.7	4.5	5.2	4.7	5.3	4.6	3.9	2.3	1.2	0.9	0.4	0.5	0.6	3.2
16	1.4	2	2.1	2.3	1.4	1.2	2.6	2	2.5	2.8	3.7	4.6	5.6	5.9	6.4	6	6.4	5	3.9	1.8	0.1	0.9	0.8	0.9	3
17	0.6	0.5	0.7	0.3	0.1	0.1	0.2	1.7	2.5	3.2	3.2	2.6	5	5	5.8	5	5.6	5.6	3.9	3.4	2.9	2.9	2.3	2.2	2.7
18	1.8	1.3	1.3	1.9	1.6	2.1	2.5	3.4	4.6	5.5	6	6	5.1	5.2	5.5	5.4	5.8	5	3.7	3.1	4	4.6	4.9	5	4
19	4.5	4.5	3.9	3.3	2.8	3.4	4.5	6.3	6.3	6.4	6.8	6.9	6.3	7.1	7.7	6.8	5.6	5.3	3.9	4.1	5.2	5.2	5.5	5.7	5.3
20	5.4	5.3	5.8	4.8	4.5	4.6	6.3	6.2	5	5.5	6.2	5.8	6.8	7.2	6.2	6.1	6.2	5.3	3.4	1.4	0.9	0.7	1	1.6	4.7
21	2.3	2.6	2.1	2.7	2.7	2.6	3.1	2.4	1.5	1.4	2.6	3.4	3.5	6.1	5.6	4.1	3.8	5.2	2.1	1.3	1.2	1.5	2.5	2	2.8
22	2.5	1.9	0.6	0.3	1.3	1.6	2.3	4	4.6	5	5	5	5.4	5.6	5	5.3	4	3.9	2.9	2.9	3.7	4.2	4.2	4	3.6
23	3.7	3.4	3	2.8	2.7	1.9	2.2	4	4.7	5	5.9	5.2	5.9	6.2	7.1	6.9	6.9	4.6	4.4	5	6	4.6	3.8	3.3	4.6
24	2.8	1.5	0.8	1.6	1.5	2.8	3.4	4.3	5.1	5.8	7.3	5.3	5.6	5.6	5.6	5.1	5.3	5.9	4.6	4.6	3.6	2.8	2.4	2.2	4
25	1.4	1.9	1.6	1.9	1.4	1.7	3.9	5.1	6.7	7.4	7.6	7.8	8.1	9.5	9.1	8.3	7.8	6.6	5.6	5	6.1	6.1	5.9	4.7	5.5
26	5.7	5.1	5.4	6	4.9	4.2	4.3	5.8	5.7	5.7	7.6	7.7	9.6	10.8	6.4	8.6	6.5	7.6	6.2	5	4	4.6	4.5	2.7	6
27	5	2.5	1.5	2.9	3.4	4.4	6	6.6	8.1	8.7	9.4	7.5	7.2	8.9	8.2	5.9	9.1	6.7	8.4	12.5	8	5.3	3.7	3.9	6.4
28	4	4	3.8	3.5	3.6	4.2	3.8	3.9	4.2	3.3	2.9	3.2	3.1	4.1	3.3	3	3.1	3.2	2.6	2.1	1.5	1.2	1.8	2.1	3.1
29	1.7	1.3	1.6	1.6	1.3	2.2	2.7	2.9	2.5	2	1.6	2.5	3	3.7	3.4	3.8	3.8	5.4	3.3	1.9	5.6	2.7	3.5	4.3	2.8
30	1.1	0.6	1.1	1.2	2.4	2.9	3.3	2.5	3.6	4.3	3.8	4	3.9	4.4	4.6	5	4.6	4.7	4.4	3	2.7	2.6	1.9	2.7	3.1
Avg	2.6	2.7	2.6	2.8	2.5	2.6	3.3	3.9	4.2	4.6	4.9	5.1	5.5	6	5.7	5.6	5.9	5.3	4.1	3.5	3.2	2.8	3	2.8	4
SD	1.3	1.4	1.6	1.6	1.5	1.3	1.4	1.5	1.7	1.9	2	1.7	1.8	1.9	1.7	1.5	2.2	1.5	1.7	2.3	2	1.7	1.5	1.3	1.1
S/A	0.52	0.5	0.6	0.57	0.62	0.49	0.42	0.37	0.4	0.41	0.4	0.33	0.32	0.32	0.3	0.27	0.37	0.29	0.43	0.66	0.61	0.61	0.52	0.49	0.27
Min	0.5	0.5	0.6	0.3	0.1	0.1	0.2	1.7	1.4	1.4	1.6	2.5	2.9	3.3	2.7	3	3.1	3.2	1.4	0.4	0.1	0.4	0.4	0.5	2.6
Max	5.7	5.3	6.5	6.7	6.4	5.4	6.3	6.6	8.1	8.7	9.4	7.8	9.6	10.8	9.1	8.6	14.6	10.9	8.4	12.5	8	6.1	5.9	5.7	6.4
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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**

**June 2006**

**Station Pressure**  
**Hourly and Daily Averages**  
**Instrument: Viasala PTA-427**  
**Millibars**

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	1018	1018	1018	1017	1017	1018	1018	1018	1017	1017	1017	1016	1016	1015	1015	1014	1013	1013	1013	1013	1013	1014	1014	1014	1016	
2	1013	1013	1013	1012	1012	1012	1012	1012	1012	1012	1012	1011	1011	1010	1009	1008	1008	1008	1008	1009	1009	1009	1009	1009	1008	1011
3	1008	1007	1007	1006	1006	1006	1006	1006	1006	1006	1006	1005	1005	1005	1005	1005	1005	1006	1006	1006	1006	1007	1007	1007	1006	
4	1007	1007	1007	1007	1007	1007	1008	1008	1009	1009	1008	1008	1008	1007	1007	1006	1006	1006	1006	1006	1007	1007	1007	1007	1006	1007
5	1007	1006	1006	1007	1007	1008	1008	1009	1009	1009	1009	1009	1009	1009	1008	1009	1009	1008	1009	1009	1009	1010	1009	1009	1008	
6	1009	1008	1008	1009	1009	1009	1009	1010	1010	1010	1010	1010	1010	1010	1009	1009	1009	1009	1009	1009	1008	1008	1008	1008	1009	
7	1008	1007	1007	1008	1008	1008	1008	1009	1009	1009	1009	1008	1007	1007	1006	1006	1006	1006	1006	1007	1007	1007	1007	1008	1007	
8	1007	1007	1007	1007	1007	1008	1008	1009	1009	1009	1008	1008	1007	1007	1006	1006	1006	1006	1006	1007	1007	1007	1007	1006	1007	
9	1006	1005	1005	1006	1006	1006	1007	1007	1007	1007	1007	1007	1006	1006	1006	1005	1005	1005	1005	1005	1006	1006	1005	1005	1006	
10	1005	1005	1005	1005	1005	1006	1007	1008	1008	1008	1008	1007	1007	1007	1006	1006	1006	1006	1007	1007	1007	1007	1008	1008	1007	
11	1008	1007	1007	1007	1008	1008	1010	1010	1009	1009	1009	1009	1009	1009	1010	1009	1009	1009	1009	1010	1010	1010	1011	1011	1009	
12	1010	1009	1009	1008	1009	1010	1010	1009	1009	1010	1010	1010	1011	1011	1011	1011	1012	1012	1013	1013	1014	1014	1014	1014	1011	
13	1014	1013	1013	1014	1014	1015	1015	1015	1016	1016	1016	1016	1016	1016	1015	1015	1015	1015	1016	1016	1016	1016	1016	1016	1015	
14	1015	1015	1014	1014	1014	1013	1013	1012	1012	1011	1010	1008	1007	1004	1002	1000	1001	1001	1005	1007	1008	1010	1011	1011	1009	
15	1011	1011	1011	1011	1012	1013	1013	1014	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1016	1016	1016	1017	1017	1017	1014	
16	1017	1017	1017	1018	1018	1019	1019	1020	1020	1020	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1019	
17	1020	1020	1020	1020	1021	1021	1021	1022	1022	1022	1022	1022	1021	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1021	
18	1019	1019	1020	1020	1020	1020	1021	1021	1020	1020	1020	1020	1019	1019	1018	1018	1017	1018	1017	1018	1018	1018	1018	1018	1019	
19	1018	1018	1018	1017	1018	1018	1018	1018	1017	1017	1017	1016	1016	1015	1015	1014	1014	1013	1013	1013	1014	1014	1014	1014	1016	
20	1013	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014	1013	1013	1013	1012	1012	1012	1013	1013	1014	1015	1015	1013	
21	1015	1015	1015	1015	1016	1016	1016	1017	1017	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1017	1018	1018	1018	1017	
22	1018	1018	1018	1018	1018	1018	1019	1020	1020	1020	1020	1020	1019	1019	1018	1018	1018	1017	1017	1017	1017	1018	1018	1018	1018	
23	1018	1018	1017	1018	1018	1018	1018	1018	1018	1018	1018	1018	1017	1017	1016	1016	1017	1017	1017	1017	1016	1016	1017	1017	1017	
24	1017	1017	1016	1016	1016	1016	1017	1017	1018	1018	1018	1018	1018	1017	1017	1017	1016	1016	1015	1015	1016	1016	1017	1017	1017	
25	1017	1016	1016	1016	1016	1016	1017	1017	1017	1017	1016	1016	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1016	
26	1015	1014	1014	1014	1015	1015	1015	1015	1015	1015	1015	1015	1015	1014	1014	1014	1014	1014	1014	1015	1015	1016	1016	1016	1015	
27	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1015	1015	1014	1014	1013	1013	1012	1011	1012	1013	1014	1014	1015	
28	1014	1014	1014	1014	1015	1015	1016	1016	1016	1017	1017	1018	1018	1017	1017	1017	1017	1016	1016	1016	1016	1017	1017	1017	1016	
29	1017	1017	1016	1015	1015	1015	1016	1016	1016	1016	1016	1016	1016	1015	1015	1014	1014	1013	1013	1013	1013	1014	1014	1015	1015	
30	1014	1014	1014	1014	1014	1015	1015	1016	1017	1017	1017	1017	1016	1016	1016	1016	1016	1016	1017	1017	1018	1018	1018	1018	1016	

Avg	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014	1013	1013	1013	1012	1012	1012	1012	1013	1013	1013	1013	1013	1013
SD	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	5	5	5	
StA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0.01	0.01	0	0	0	0	0	0	0	
Min	1005	1005	1005	1005	1005	1006	1006	1006	1006	1006	1006	1005	1005	1004	1002	1000	1001	1001	1005	1005	1006	1006	1005	1005	1006
Max	1020	1020	1020	1020	1021	1021	1021	1022	1022	1022	1022	1022	1021	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1021
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640	

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 total measurements.

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

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

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

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

**June 2006**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	12.7	12.7	12.7	12.7	12.6	12.6	13.1	13.3	13.2	13.2	13.1	13.1	13.2	13.2	13.1	13.1	13.2	13.1	12.8	12.8	12.8	12.8	12.7	12.7	12.9
2	12.7	12.7	12.7	12.7	12.6	12.7	12.8	13.2	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.2	13.1	12.8	12.8	12.8	12.7	12.7	12.7	12.9
3	12.7	12.7	12.7	12.7	12.6	12.6	12.7	12.9	13.1	12.9	13	13.4	13.3	13.2	13.4	13.3	13.2	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.9
4	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	13.2	13.2	13.2	13.1	12.8	12.8	12.8	12.7	12.7	12.7	13
5	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13	13.5	13.4	13.4	13.3	13.3	13.3	13.4	13.4	13.4	13.4	12.9	12.8	12.8	12.7	12.7	12.7	13
6	12.7	12.7	12.7	12.7	12.6	12.6	13.1	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.4	13.4	13.4	12.8	12.8	12.7	12.7	12.7	12.7	13
7	12.7	12.7	12.7	12.6	12.6	12.6	13.1	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.1	12.8	12.8	12.8	12.7	12.7	12.7	13
8	12.7	12.7	12.7	12.6	12.6	12.6	13.1	13.3	13.4	13.3	13.2	13.1	13.2	13.1	13.2	13.2	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
9	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.1	13.2	13.2	13.1	12.8	12.8	12.8	12.8	12.7	12.7	12.9
10	12.7	12.7	12.7	12.7	12.6	12.6	13.1	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	12.8	12.8	12.8	12.8	12.7	12.7	13
11	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13.4	13.4	13.3	13.3	13.3	13.2	13.2	13.2	13.3	13.3	12.9	12.8	12.8	12.8	12.8	12.7	13
12	12.7	12.7	12.7	12.7	12.7	12.6	12.7	12.9	12.8	13.1	13.4	13.3	13.4	13.4	13.4	13.4	13.3	13.2	12.8	12.8	12.8	12.7	12.7	12.7	13
13	12.7	12.7	12.7	12.6	12.6	12.7	13.3	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.3	13.3	13.3	12.9	12.8	12.8	12.7	12.7	12.7	13
14	12.7	12.7	12.7	12.7	12.6	12.6	12.7	12.8	12.7	12.9	12.9	12.8	12.7	12.8	12.9	12.7	12.6	12.9	12.6	12.6	12.6	12.6	12.6	12.6	12.7
15	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	13.1	13.2	13.2	13	12.8	12.8	12.8	12.7	12.7	12.7	12.9
16	12.7	12.7	12.7	12.7	12.7	12.7	13.1	13.3	13.3	13.2	13.1	13.1	13.1	13.2	13.2	13.2	13.1	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.9
17	12.7	12.7	12.7	12.6	12.6	12.7	13	13.4	13.3	13.2	13.1	13.1	13.1	13.2	13.2	13.2	13.2	13.2	12.9	12.8	12.8	12.7	12.7	12.7	12.9
18	12.7	12.7	12.7	12.7	12.6	12.7	13.1	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13	12.8	12.8	12.8	12.8	12.7	12.7	12.9
19	12.7	12.7	12.7	12.7	12.6	12.7	13	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13	12.8	12.8	12.8	12.8	12.7	12.7	12.9
20	12.7	12.7	12.7	12.7	12.7	12.7	13	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.9
21	12.7	12.7	12.7	12.7	12.7	12.7	13	13.3	13.2	13.1	13.1	13	13.1	13	13.2	13.3	13.3	13.3	12.8	12.8	12.7	12.7	12.7	12.7	12.9
22	12.7	12.7	12.7	12.7	12.6	12.7	13	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.8	12.8	12.8	12.8	12.7	12.7	12.9
23	12.7	12.7	12.7	12.7	12.7	12.7	13	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.8	12.8	12.8	12.8	12.7	12.7	12.9
24	12.7	12.7	12.7	12.7	12.7	12.7	13.1	13.2	13.2	13.2	13.1	13.2	13.3	13.2	13.2	13.2	13.2	13.1	12.8	12.8	12.8	12.8	12.7	12.7	13
25	12.7	12.7	12.7	12.7	12.6	12.7	13	13.2	13.2	13.2	13.2	13.1	13.2	13.2	13.2	13.2	13.2	13.1	12.8	12.8	12.8	12.8	12.7	12.7	12.9
26	12.7	12.7	12.7	12.7	12.7	12.6	12.8	13.2	13.1	13.3	13.2	13.3	13.3	13.2	13.2	13.2	13.2	13.3	13.1	12.8	12.8	12.8	12.8	12.8	13
27	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.3	13.2	13.2	13.2	13.2	13.2	13.3	13.3	13.2	13.3	12.8	12.9	12.8	12.8	12.8	12.7	12.7	12.9
28	12.7	12.7	12.7	12.7	12.6	12.6	12.7	13.2	13.2	13.2	13.2	13.2	13.2	13.1	13.1	13.2	13.2	13	12.9	12.8	12.8	12.8	12.8	12.7	12.9
29	12.7	12.7	12.7	12.7	12.7	12.7	13	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.2	13.2	13.2	13.1	12.8	12.8	12.7	12.7	12.7	12.9
30	12.7	12.7	12.7	12.7	12.6	12.7	12.7	13.2	13.3	13.2	13.2	13.1	13.1	13.1	13.2	13.2	13.2	13.2	13	12.8	12.8	12.8	12.7	12.7	12.9
Avg	12.7	12.7	12.7	12.7	12.6	12.6	12.9	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.1	12.8	12.8	12.8	12.7	12.7	12.7	12.9
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	0.2	0.2	0.1	0	0	0	0	0	0
S/A	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	0.01	0	0	0	0	0	0
Min	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	12.7	12.9	12.9	12.8	12.7	12.8	12.9	12.7	12.6	12.8	12.6	12.6	12.6	12.6	12.6	12.6	12.7
Max	12.7	12.7	12.7	12.7	12.7	12.7	13.3	13.4	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.1	12.8	12.8	12.8	12.8	12.8	13
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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.