

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

**July 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	3	47	182	375	568	741	868	933	932	876	785	631	443	243	78	8	0	0	0	0	7713
2	0	0	0	0	2	41	165	348	554	729	856	928	940	889	762	620	432	236	77	8	0	0	0	0	7587
3	0	0	0	0	2	42	180	323	559	728	851	921	936	909	747	316	317	90	19	3	0	0	0	0	6942
4	0	0	0	0	2	31	99	219	238	275	405	431	674	743	556	448	345	199	69	2	0	0	0	0	4736
5	0	0	0	0	1	38	174	361	520	631	859	925	939	886	774	626	430	237	18	4	0	0	0	0	7423
6	0	0	0	0	2	34	202	393	560	386	98 ?	113	118	135	199	134	68 ?	52	32	5	0	0	0	0	2530
7	0	0	0	0	0	20	138	239	290	470	564	627	636	512	482	299	247	187	77	10	0	0	0	0	4798
8	0	0	0	0	0	25	117	187	339	306	842	845	908	691	713	542	411	253	86	6	0	0	0	0	6272
9	0	0	0	0	0	20	178	362	530	711	753	799	921	876	769	529	315	206	58	4	0	0	0	0	7031
10	0	0	0	0	3	41	167	366	538	722	863	940	945	894	778	524	416	246	81	9	0	0	0	0	7531
11	0	0	0	0	2	48	205	376	568	729	863	907	856	870	687	575	322	296	113	6	0	0	0	0	7423
12	0	0	0	0	3	46	176	340	549	710	916	764	940	916	487	594	461	249	69	4	0	0	0	0	7223
13	0	0	0	0	3	42	183	372	539	703	856	886	844	698	703	279	133	54 ?	1 ?	1	0	0	0	0	6296
14	0	0	0	0	0	2	36	119	341	633	510	663	763	807	658	343	51 ?	?	27	5	0	0	0	0	4959 ?
15	0	0	0	0	0	42	159	401	322	424	556	545	738	695	432	317	316	239	47	12	0	0	0	0	5246
16	0	0	0	0	0	47	165	315	452	588	734	793	768	741	752	580	454	258	78	4	0	0	0	0	6730
17	0	0	0	0	0	40	186	378	567	733	857	903	948	897	793	633	441	246	75	7	0	0	0	0	7704
18	0	0	0	0	0	42	180	383 ?	560	724	856	941	873	850	792	630	443	250	75	7	0	0	0	0	7605
19	0	0	0	0	0	20	165	271	367	512	755	778	797	796	745	557	444	253	58	2	0	0	0	0	6521
20	0	0	0	0	0	33	167	349	544	642	846	928	932	845	647	551	428	237	69	6	0	0	0	0	7223
21	0	0	0	0	0	42	156	338	526	712	849	893	911	836	693	500	356	219	42	2	0	0	0	0	7074
22	0	0	0	0	0	20	86	271	507	748	752	854	753	300	251	321	199	227	63	7	0	0	0	0	5359
23	0	0	0	0	0	49	218	242	383	199	398	581	414	291	160 ?	94	44	35 ?	0 ?	0	0	0	0	0	3109
24	0	0	0	0	0	26	149	354 ?	530	550	796	968	981	943	761	517	425	236	69	4	0	0	0	0	7309
25	0	0	0	0	0	10	40	95	164	81 ?	?	?	243	364	446	689	193	110	24	3	0	0	0	0	2463 ?
26	0	0	0	0	0	19	171	339	555	721	833	1003	522	430	259	218	413	223 ?	59	4	0	0	0	0	5769
27	0	0	0	0	0	29	128	316	501	673	820	894	820	867	750	594	382	124	3 ?	2	0	0	0	0	6901
28	0	0	0	0	0	33	167	238	482	693	810	848	919	867	760	599	408	208	17	0	0	0	0	0	7049
29	0	0	0	0	0	7	55	219	192	490	638	901	946	864	552	473	429	127	29	3	0	0	0	0	5926
30	0	0	0	0	0	14	136	364	545	553	843	548	382	517	430	602	343	164	50	0	0	0	0	0	5491
31	0	0	0	0	0	27	143	328	520	689	822	846	755	551	241	511	368	99	10	3	0	0	0	0	5914
Avg	0	0	0	0	1	31	151	309	465	587	742	797	776	721	599	479	338	193	51	5	0	0	0	0	6189
S/D	0	0	0	0	1	13	46	79	121	179	186	194	222	221	204	159	126	72	30	3	0	0	0	0	1475
S/A	0	0	0	0	1.53	0.42	0.3	0.26	0.26	0.31	0.25	0.24	0.29	0.31	0.34	0.33	0.37	0.37	0.58	0.66	0	0	0	0	0.24
Min	0	0	0	0	0	2	36	95	164	81	98	113	118	135	160	94	44	35	0	0	0	0	0	0	2463
Max	0	0	0	0	3	49	218	401	568	748	916	1003	981	943	793	689	461	296	113	12	0	0	0	0	7713
n	0	0	0	0	19	358	371	366	372	364	355	358	372	371	369	372	359	347	358	101	0	0	0	0	5213

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.9% exceed the 15% QC threshold -- 5315 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**

**July 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	0	82	261	440	524	580	629	602	548	552	554	522	469	346	168	5	0	0	0	0	6283
2	0	0	0	0	0	26	220	370	499	569	599	620	592	573	501	475	408	301	155	5	0	0	0	0	5911
3	0	0	0	0	0	62	252	293	517	583	607	604	572	519	360	87	111	5	0	0	0	0	0	0	4570
4	0	0	0	0	0	2	1	22	10	1	20	14	143	238	138	163	143	167	80	0	0	0	0	0	1145
5	0	0	0	0	0	32	200	350	341	237	581	599	604	594	564	540	470	381	0	0	0	0	0	0	5492
6	0	0	0	0	0	31	348	518	418	69	0	1	0	0	0	0	0	0	0	0	0	0	0	0	1384
7	0	0	0	0	0	0	184	106	23	80	105	105	114	59	81	7	34	88	64	10	0	0	0	0	1059
8	0	0	0	0	0	5	5	11	74	4	449	474	584	319	522	336	442	448	257	9	0	0	0	0	3939
9	0	0	0	0	0	6	306	438	493	571	432	422	567	607	586	366	180	234	94	0	0	0	0	0	5303
10	0	0	0	0	0	112	333	472	556	618	661	676	669	662	631	401	435	404	204	4	0	0	0	0	6836
11	0	0	0	0	0	114	380	511	605	645	654	592	497	634	510	448	155	298	196	1	0	0	0	0	6241
12	0	0	0	0	0	105	280	356	500	609	731	449	706	712	193	417	526	426	144	0	0	0	0	0	6155
13	0	0	0	0	0	116	347	456	477	549	558	504	422	275	385	66	1	0	0	0	0	0	0	0	4153
14	0	0	0	0	0	0	0	2	112	308	82	191	291	395	284	120	0	0	1	0	0	0	0	0	1786
15	0	0	0	0	0	16	141	331	77	85	130	31	173	131	80	24	165	283	30	0	0	0	0	0	1696
16	0	0	0	0	0	43	152	197	157	238	339	400	375	414	553	548	621	532	297	4	0	0	0	0	4872
17	0	0	0	0	0	172	470	615	687	729	747	726	784	777	758	712	638	495	253	3	0	0	0	0	8566
18	0	0	0	0	0	150	439	602 ?	661	716	737	746	642	683	723	681	610	486	232	0	0	0	0	0	8108
19	0	0	0	0	0	31	366	375	214	277	474	459	509	568	584	513	598	504	146	0	0	0	0	0	5618
20	0	0	0	0	0	66	269	417	452	300	533	580	628	565	424	424	500	392	158	0	0	0	0	0	5706
21	0	0	0	0	0	92	247	384	481	591	621	559	583	507	420	309	271	258	49	0	0	0	0	0	5373
22	0	0	0	0	0	0	1	155	328	500	423	354	170	4	9	25	5	231	134	0	0	0	0	0	2338
23	0	0	0	0	0	44	274	122	181	15	123 ?	109	70	16	1	0	0	0	0	0	0	0	0	0	957
24	0	0	0	0	0	0	86	390 ?	517	306	483	685	747	705	595	420	476	412	230	0	0	0	0	0	6052
25	0	0	0	0	0	0	0	0	1	0	0	0	3	6	20	352	2	0	0	0	0	0	0	0	384
26	0	0	0	0	0	20	347	359	481	514	602	742	201	127	47 ?	2	288	267	107	0	0	0	0	0	4102
27	0	0	0	0	0	33	168	335	434	455	544	549	464	556	534	489	335	87	0	0	0	0	0	0	4984
28	0	0	0	0	0	24	195	74	243	503	473	542	642	636	610	565	472	276	8	0	0	0	0	0	5262
29	0	0	0	0	0	0	0	54	0	66	229	615	613	463	158	132	356	1	0	0	0	0	0	0	2686
30	0	0	0	0	0	3	266	588	564	231	516	187	110	213	163	423	277	133	71	0	0	0	0	0	3746
31	0	0	0	0	0	36	227	441	559	615	655	552	369	175	30	321	279	69	0	0	0	0	0	0	4328
Avg	0	0	0	0	0	46	218	316	361	373	443	442	432	409	355	319	299	243	99	1	0	0	0	0	4356
S/D	0	0	0	0	0	49	137	189	216	243	236	239	237	248	247	219	215	180	96	3	0	0	0	0	2164
S/A	0	0	0	0	3.18	1.06	0.63	0.6	0.6	0.65	0.53	0.54	0.55	0.61	0.69	0.69	0.72	0.74	0.97	2.01	0	0	0	0	0.5
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	384
Max	0	0	0	0	0	172	470	615	687	729	747	746	784	777	758	712	638	532	297	10	0	0	0	0	8566
n	0	0	0	0	19	359	372	366	372	372	368	372	370	371	369	372	371	370	370	101	0	0	0	0	5294

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.4% exceed the 15% QC threshold -- 5315 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25521E6 Calibration Factor: 8.034 μV/W/m<sup>2</sup> 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**

**July 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	109	169	224	261	266	301	328	281	236	196	152	107	50	8	0	0	0	0	2733
2	0	0	0	0	3 ?	36	115	186	231	264	285	275	284	264	258	217	174	117	50	8	0	0	0	0	2766
3	0	0	0	0	1	35	111	185	214	243	262	277	294	336	380	238	253	87	19	3	0	0	0	0	2937
4	0	0	0	0	3 ?	31	99	215	234	275	396	430	512	472	421	303	254	132	55	2	0	0	0	0	3833
5	0	0	0	0	2 ?	34	121	202	294	435	315	320	317	300	281	235	175	102	18	4	0	0	0	0	3153
6	0	0	0	0	1	30	103	144	283	334	91 ?	107	118	135	199	134	59	52	32	4	0	0	0	0	1824
7	0	0	0	0	0	20	83	191	282	410	466	524	528	461	411	298	233	155	66	9	0	0	0	0	4136
8	0	0	0	0	0	25	117	182	290	305	393	340	295	363	235	306	173	94	46	6	0	0	0	0	3170
9	0	0	0	0	0	19	91	163	220	261	354	382	354	299	264	266	215	132	40	4	0	0	0	0	3061
10	0	0	0	0	?	30	94	142	186	217	231	244	249	233	203	207	168	96	44	8	0	0	0	0	2351
11	0	0	0	0	?	30	84	135	174	208	245	298	333	240	211	221	222	188	75	3	0	0	0	0	2667
12	0	0	0	0	?	33	93	160	205	199	214	272	191	196	284	274	165	92	42	4	0	0	0	0	2422
13	0	0	0	0	?	28	85	146	218	248	316	352	378	400	333	215	128	41 ?	1 ?	1	0	0	0	0	2892
14	0	0	0	0	0	2	34	119	266	387	437	468	471	420	402	254	37 ?	18 ?	27	5	0	0	0	0	3348
15	0	0	0	0	0	44	120	239	280	357	436	510	540	544	344	298	224	135	41	12	0	0	0	0	4124
16	0	0	0	0	0	48	131	229	351	392	408	375	378	319	251	179	116	74	33	3	0	0	0	0	3289
17	0	0	0	0	0	26	64	94	116	134	148	162	144	136	123	115	98	77	38	7	0	0	0	0	1481
18	0	0	0	0	0	26	68	102 ?	135	150	162	187	216	183	158	138	116	84	40	7	0	0	0	0	1770
19	0	0	0	0	0	17	62	97	222	272	295	302	263	234	223	181	121	80	31	2	0	0	0	0	2401
20	0	0	0	0	0	27	101	165	266	404	359	358	303	301	288	250	164	106	46	6	0	0	0	0	3141
21	0	0	0	0	0	37	93	165	219	241	277	336	327	348	331	280	216	137	34	2	0	0	0	0	3043
22	0	0	0	0	0	20	86	195	297	345	355	504	577	296	246	302	197	152	44	7	0	0	0	0	3623
23	0	0	0	0	0	47	149	191	267	187	322	470	354	264	148	94	44	33	0 ?	0	0	0	0	0	2572
24	0	0	0	0	0	28	126	150 ?	197	292	336	279	215	252	237	206	166	101	36	4	0	0	0	0	2625
25	0	0	0	0	0	11	40	95	164	56	?	?	243	364	438	440	193	110	24	3	0	0	0	0	2181 ?
26	0	0	0	0	0	19	80	158	238	290	270	246	307	299	218	218	261	126	47	4	0	0	0	0	2781
27	0	0	0	0	0	29	98	179	244	319	327	356	353	332	291	252	210	83	1 ?	0	0	0	0	0	3073
28	0	0	0	0	0	38	118	205	313	278	344	290	250	227	211	183	152	113	15	0	0	0	0	0	2736
29	0	0	0	0	0	7	55	195	192	432	409	262	294	385	394	375	228	127	29	3	0	0	0	0	3387
30	0	0	0	0	0	14	60	100	188	369	363	360	271	314	290	303	197	123	40	0	0	0	0	0	2992
31	0	0	0	0	0	27	90	138	176	197	209	278	370	377	217	297	234	75	10	3	0	0	0	0	2699
Avg	0	0	0	0	1	28	93	162	232	283	310	329	324	309	275	241	172	102	35	4	0	0	0	0	2878
S D	0	0	0	0	1	11	27	40	54	92	90	100	110	94	83	74	60	37	18	3	0	0	0	0	616
S/A	0	0	0	0	2.12	0.39	0.29	0.24	0.23	0.32	0.29	0.31	0.34	0.3	0.3	0.31	0.35	0.36	0.51	0.69	0	0	0	0	0.21
Min	0	0	0	0	0	2	34	94	116	56	91	107	118	135	123	94	37	18	0	0	0	0	0	0	1481
Max	0	0	0	0	5	48	149	239	351	435	466	524	577	544	438	440	261	188	75	12	0	0	0	0	4136
n	0	0	0	0	11	346	372	366	372	370	356	359	372	372	370	372	365	357	359	101	0	0	0	0	5221

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.8% exceed the 15% QC threshold -- 5315 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**

**July 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	22.8	22.7	22.2	22	21.5	22	23.2	24.5	25.8	27.2	28	28.5	28.5	28.8	28.6	28.6	28.4	27.1	26	24.8	24	23.5	23.3	23.1	25.2
2	22.4	22.2	22.1	22.1	22.4	22.3	23.5	25.1	27	28.5	29.2	30.1	30.9	31.5	32.1	32.2	32.2	31.7	30.9	29.3	28	27.5	27	26.3	27.4
3	25.7	25.1	24.6	24.6	24.8	24.4	24.9	26.1	27.6	29.2	30.4	31.7	32.6	33.5	33.6	32.9	31.9	29.9	28.5	26.7	25.3	25.2	25.2	24.2	27.9
4	24	24.5	25.2	24.5	24	24	24	24.4	25.4	25.8	26.7	28	29	30.3	30.7	31.6	31.3	30.4	29.7	28.8	28	27.2	26.7	26.1	27.1
5	25.1	23.7	23.3	23.1	22.8	22.9	23.7	25.5	26.6	27.9	28.9	29.9	30.5	31.2	31.6	31.7	31.2	30.3	28.7	28	27.2	26.6	26	25.7	27.2
6	25.4	24.7	24.1	23.8	23.7	23.5	24.2	25.4	26.2	25.8	23.9	22.7	22	22.1	22.4	22.6	22.5	22.4	21.8	21.2	21	20.8	20.5	20.2	23
7	20.2	20	19.7	19.6	19.3	18.6	19.5	21.3	22.3	23.2	24.3	25	25.1	25.1	25.1	24.4	23.9	23.6	23.1	22.1	21.4	20.9	20.4	20	22
8	19.6	19.1	18.9	19	18.9	19	19.6	20.5	21.9	22.5	24.1	25.3	25.7	26.2	26.5	26.2	25.3	24.5	23.6	22.5	21.4	21	20.7	20.4	22.2
9	20.1	19.6	19.1	18.9	19	18.6	19.7	21.7	23.5	25	26	26.5	27.1	27.4	27.6	27.4	26.6	25.3	24.3	23.9	23.2	22.2	21.9	23.4	23.4
10	21.5	20.8	20.5	20.6	20.5	20.8	21.9	23.7	25.8	27.2	27.9	28.6	29.1	29.4	29.3	29.1	29.1	28.9	28	26.6	25.7	25.2	24.8	24.4	25.4
11	24.1	23.8	23.5	23.7	23.4	23.3	24.1	25.3	26.4	27.9	29.5	30.7	30.9	31.1	31.6	31.3	29.9	29.7	29.7	28.1	26.8	26.2	25.9	25.6	27.2
12	25	24.5	24.1	23.8	23.5	23.3	24.1	25.5	26.8	27.8	29.3	29.8	30.6	31.3	31.4	31.8	31.9	31.3	30.4	28.9	28.1	27.5	26.9	26.3	27.7
13	26	25.6	25.2	24.9	24.7	24.7	25.5	26.4	27.3	28.4	29.6	30.2	31	31.7	32.2	31.7	29.5	26.7	23.9	23.2	22.9	22.1	22.3	22.4	26.6
14	22.5	22.6	22.5	22.3	22.4	22	22.3	23.4	24.7	26.2	26.9	27.8	29.1	30.2	30.7	30.5	29	23.8	23.8	23.9	23.9	24	24.3	24.3	25.1
15	24.2	24.5	24.7	24.7	24.7	24.7	25.1	26.5	27.5	27.7	28.5	29.5	30.1	30.8	31	30.8	30.7	30.8	29.8	26.9	24.8	24.5	24.4	24	27.1
16	23.6	23.7	23.8	23.9	23.9	24	25	26.2	27.5	28.5	29.2	29.7	30.2	30.5	30.7	30.2	30.1	29.7	28.6	27	26	25.2	24.1	23.3	26.9
17	22.9	22.7	22.4	22.2	21.9	22	23.6	26.3	28.6	30	31.1	32.2	33	33.4	33.8	33.6	33	31.2	29.9	28.7	27.6	26.6	26.1	25.2	27.8
18	24.8	24.2	23.9	23.8	23.6	23.6	24.6	26.2	27.8	30.3	31.1	31.5	32.5	32.5	32.4	32	31.1	29.7	28.9	27.7	26.9	26.5	26.1	25.9	27.8
19	25.7	25.2	24.5	24	23.7	23.3	24.4	26.1	27	28.1	29.2	29.7	30.3	30.2	30.4	30.1	29.3	28.5	27.7	26.6	25.9	25.3	24.7	24	26.8
20	23.2	22.3	22.2	22	21.9	21.6	22.8	24.7	26.8	28.2	28.6	29.6	30.6	31.4	31.2	30.6	30.1	29.7	28.8	27.7	26.5	25.5	24.8	24.3	26.5
21	23.8	23.4	22.9	22.5	22.6	22.9	24.1	25.4	26.6	27.7	28.8	29.8	30.9	31.5	31.8	31.9	31.7	31.6	30.2	28.8	28.1	27.6	27	26.5	27.4
22	26.1	25.8	25.5	25.3	25.2	25.4	25.5	26	27.1	28.2	29	29.9	30.4	30	29.8	30.1	29.8	29.7	29.2	28.4	27.9	27.4	26.9	26.7	27.7
23	26.4	26.1	25.7	25.3	24.7	24.4	25.3	26	27	26.5	26.8	27.5	28.2	25.3	24.6	23.4	23.1	23.3	23.1	22.1	22.1	22.1	22.2	22	24.7
24	21.8	21.8	21.7	21.4	21.1	21	21.5	22.8	24.9	26.1	27.1	27.9	28.3	28	28.2	27.8	27.9	27.2	26.1	24.8	24.2	23.9	23.8	23.9	24.7
25	24	24	24.1	24.1	24.2	24.1	24.1	24.7	25.5	25.4	23.7	22.9	23.2	24.2	25.5	26.9	26.2	25.7	25.1	24.3	24	23.9	23.5	23.5	24.5
26	23.2	23	22.8	22.7	22.8	22.9	24	25	26.4	27.6	28.9	29.8	29.5	29.2	27.9	25.7	25.6	26.6	26.4	25.8	25.4	25.3	25.1	24.8	25.7
27	24.5	24.2	24.2	23.9	23.9	24.1	24.7	26.1	27.6	28.8	29.4	30.5	31.1	31.7	32.4	32.2	31.8	30.7	27.2	25	24.7	24.5	24.4	24.1	27.2
28	23.7	23.6	24	23.9	23.9	24.1	25.4	26.8	27.6	28.6	29.7	30.9	31.7	32.5	33.3	33.8	33.5	32.8	31.5	26.3	21.9	23.3	24.3	24.8	27.6
29	25	25	25.3	24.6	24.3	24.3	24.4	25.2	25.6	26.2	27.9	29.7	30.8	31.5	31	30.9	31.1	30.1	29.4	28.6	28.1	27.8	27.4	26.6	27.5
30	25.6	24.9	24.6	24	23.3	22.9	23.2	24.5	25.5	26.4	27.4	27.9	28.7	30.2	31.4	31.7	31.7	30.2	29.9	28.4	27.5	27	26.6	26.1	27.1
31	25.9	25.8	25.4	25.1	24.7	24.4	25.3	28	30.5	31.8	32.5	33.2	34	33.9	32.3	31.7	31.4	30.7	29.5	28.6	28.1	27.7	27.4	26.8	28.9
Avg	23.8	23.5	23.3	23.1	22.9	22.9	23.7	25	26.3	27.4	28.2	28.9	29.5	29.9	30	29.9	29.4	28.5	27.6	26.3	25.4	25	24.7	24.3	26.2
S D	1.8	1.8	1.9	1.8	1.7	1.8	1.7	1.7	1.7	1.9	2.1	2.5	2.7	2.8	2.8	2.9	2.9	2.8	2.7	2.4	2.3	2.1	2	2	1.8
S/A	0.08	0.08	0.08	0.08	0.08	0.08	0.07	0.07	0.06	0.07	0.08	0.08	0.09	0.09	0.09	0.1	0.1	0.1	0.1	0.09	0.09	0.09	0.08	0.08	0.07
Min	19.6	19.1	18.9	18.9	18.9	18.6	19.5	20.5	21.9	22.5	23.7	22.7	22	22.1	22.4	22.6	22.5	22.4	21.8	21.2	21	20.8	20.4	20	22
Max	26.4	26.1	25.7	25.3	25.2	25.4	25.5	28	30.5	31.8	32.5	33.2	34	33.9	33.8	33.8	33.5	32.8	31.5	29.3	28.1	27.8	27.4	26.8	28.9
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**

**July 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	97.3	97.2	99.1	100.3	102.1	100.9	97.6	90.8	82.9	71.3	61.9	58.3	57.3	56.6	59.5	61.2	58.9	64.8	70.4	81.2	89.9	96.9	100.3	102.1	81.6
2	104.4 ?	?	?	?	?	?	?	97.6	82.5	71.7	72.1	72.9	70.6	68.8	67.8	67.6	69.4	71.3	75.2	82.6	92	94.8	91.2	88	80 ?
3	90.2	95	99	100.6	100.2	101.6	100.6	96.5	90.3	84.4	81.6	76	73	66.2	66.1	68.8	70.9	77.7	85.9	91.6	98	96.1	97.4	99.4	87.8
4	101.6	97.5	95.9	97.7	99.3	98.2	97.6	96.3	94.4	92.7	90.9	87.2	86.6	85	82.7	78.1	81.1	85.7	88.9	94.8	100	100.6	96.4	96.8	92.7
5	90	93.8	95	97.7	100.3	100	99.1	97.3	94.5	87.8	80.5	77.5	76.6	75.2	73.1	72.6	75.2	79.2	82.8	79.9	84.4	91.6	96.1	98.2	87.4
6	99.7	101.9	103.9	104.7	104.9 ?	104.6 ?	99.7	93.2	89.1	88.3	96.6	99.6	100.8	103.3	103.5	102.2	102.7	102.4	101.2	101.1	102.1	102.7	103.6	104.7	100.7
7	?	?	103.6 ?	101.8	100.3	103.2	102.7	96.9	92.3	84.6	77.9	71.5	70.2	66.1	69.3	78.3	83.2	85.4	90.4	96	97.3	98.4	101.5	102.5	89.7 ?
8	102.3	103.4	104.2	103.1	102	101.9	101.4	99.7	94.3	90.3	78.4	64.8	59.7	60.3	58.5	62.2	72	74.3	75.7	77.9	85.2	89.8	93.2	95.6	85.4
9	96.4	99.6	102.1	104.3	104.3	103.6	102.2	97.5	90.8	77.3	63.3	60.3	54.8	51.1	54	56	56.4	64.1	77.1	82.6	85.6	90	96.1	97.9	82
10	99.6	102.6	104.2	?	?	?	104.4 ?	100.3	87.5	77	71.1	61.8	58.1	65.4	75.8	81.7	77.1	75.7	83.8	93.3	97.9	99.7	101.8	102.8	86.7 ?
11	104	104.8 ?	?	?	?	?	104.2 ?	96	86.8	82.2	74.8	65.6	68.3	61.5	57.8	67.3	78.9	81.5	79.9	85.2	93.9	97.7	98.8	97.6	84.3 ?
12	100.4	101.7	103.2	104.5	105 ?	?	104.6 ?	101.4	95.2	88	79	75.8	73.6	69.5	71	69.9	70.2	70.9	76.9	91.1	94.6	92.8	96.5	99.7	88.5
13	99.4	100.1	101.2	102.8	103.7	103.6	100.9	97.6	95	91.4	87.6	85.7	83	80	77.4	78.8	81.7	88.5	101.2 ?	?	105 ?	?	?	?	93.2 ?
14	?	?	?	?	?	?	?	?	103.3	97.7	95.3	93.3	89.3	85.7	83.9	84.3	89.6	103.8 ?	?	?	?	?	?	104.2 ?	93.7 ?
15	104.4 ?	?	?	?	?	?	?	102.5 ?	97.6	95.7	94.6	91.9	88.3	85.1	84.3	85.5	84.5	86.3	88.5	95.1	103.4	104.7 ?	?	?	93.3 ?
16	104.2 ?	103.2	102.7	103.2	104	104.8	103.4	100.8	96.9	90.1	86.2	83.4	80.7	71.5	72.4	77.6	76.3	78	80.7	86.1	92.5	96.1	99.5	102.4	91.5
17	104.2	104.6	103.8	103.5	104.1	103.4	97.1	85.9	78.6	74.9	73.2	66.4	60.6	59.7	58.5	59.9	64.3	75.1	76.6	80.1	86.5	92.2	95.5	99.2	83.7
18	101.4	103	104.4	?	?	?	103.2	97.3	92.3	80	76.4	76.8	72.4	71.6	69.9	71	73.8	78.5	80	85.1	90.3	93.5	97.2	97.3	86.4 ?
19	99.5	101.4	104.2	?	?	?	104.5 ?	100.3	96.9	90.2	82.5	81	78.5	82.9	81.2	83	81.7	82.8	88.6	94.2	97.7	100	100.9	99.8	92 ?
20	97.4	101.1	101.1	101.7	101.8	103.3	100.8	94.4	87.6	84.7	83.4	77.5	70.1	70.1	72.7	76.7	78.8	81.6	85.1	92.8	90.5	94.8	97.9	99.3	89.4
21	100.1	100.8	102.6	103.8	103.5	103.3	102.2	98	92.4	86.7	83.7	81	78.1	76.3	75.5	73.9	73.6	74.2	85.8	85.6	90.4	93.5	95.4	97.2	89.9
22	98	99.1	99.8	100.3	100.8	100.2	100	98.4	93.6	87.3	81.5	77.2	76.2	76.4	78.8	81	83.5	83.3	81.5	82.7	88.1	90.8	94.2	95	89.5
23	96.7	98	99.2	100.8	102.5	103.7	101.6	97.2	94.3	97.5	96	95	91.7	101.9	102.6 ?	?	?	?	103.9 ?	?	?	?	?	?	98.9 ?
24	?	?	?	?	?	?	?	104.4 ?	99.1	89.6	78.3	73.5	70.3	74.2	76	80	80.2	84.2	88	93.3	95.2	96.2	98	98.9	87 ?
25	99.8	101.3	102.9	104	104.4	104.8	104.9 ?	104.4	102.8	103.5 ?	104 ?	?	?	103.8 ?	100.7	96.1	97	99.2	101.1	101.7	102	103.3	104.9 ?	?	102.2 ?
26	?	?	?	?	?	?	103.2 ?	100.3	94.5	88.6	84	80.7	81.6	83.9	93.8	103 ?	103.1 ?	100.1	98.6	101.4	102.7	103.1	104.2	105 ?	96.2 ?
27	?	?	?	?	?	?	?	102.8 ?	98.2	95.3	89.9	85	82.2	76.6	72.9	78.3	80.8	85.8	90.7	101.1	99.7	101.4	99.5	100.3	90.6 ?
28	101.9	103.4	100.5	100.7	100.9	100.8	101.5	102	99.7	96.1	91.4	89	84	79.4	72.1	70.5	74	79.1	86.1	93.7	100.7	98.7	96.6	92.9	92.3
29	96.3	98	98.1	102.6	104.2	103.5	103	101.3	99.8	97.9	92.6	85.1	80.8	80.4	82.9	85.4	81.7	87.1	91.7	95.7	96.7	95.6	94	89.8	93.5
30	94.5	98.7	98.6	99.6	101.4	102.4	101.2	97.5	95.4	93.3	90.8	90.5	85.9	80.9	76.9	80.1	78.3	85.1	86.9	95.2	98.9	100.6	102.4	103.9	93.3
31	104.8 ?	?	?	?	?	?	103.6 ?	92.6	80.6	72.4	70	66.1	65.7	67	77.6	80.8	79.4	80.4	85.4	90.9	92.8	97.1	99.9	101.6	84.7 ?
Avg	99.6	100.4	101.3	101.9	102.5	102.5	101.7	98	92.9	87.4	82.9	78.4	75.6	75.4	75.8	77.1	78.6	82.2	86.3	90.4	95	96.9	98.3	99	89.9 ?
S D	4	2.9	2.7	2.1	1.8	1.8	2.2	4	6.1	8.4	10	10.9	11.1	12.8	12.5	11.1	10.5	9.8	8.6	7.2	5.9	4.2	3.5	4.2	5.4
S/A	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.04	0.07	0.1	0.12	0.14	0.15	0.17	0.16	0.14	0.13	0.12	0.1	0.08	0.06	0.04	0.04	0.04	0.06
Min	90	93.8	95	97.7	99.3	98.2	97.1	85.9	78.6	71.3	61.9	58.3	54.8	51.1	54	56	56.4	64.1	70.4	77.9	84.4	89.8	91.2	88	80
Max	104.8	104.8	104.4	104.7	105	104.8	104.9	104.4	103.3	103.5	104	99.6	100.8	103.8	103.5	103	103.1	103.8	103.9	101.7	105	104.7	104.9	105	102.2
n	292	268	270	240	224	220	256	342	371	368	365	360	360	364	367	357	354	353	348	336	338	331	315	305	7707

Data Recovery: 0.0% missing; 0.0% untested; 13.7% failed QC -- 8928 total measurements.

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

**July 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	22.2	22.3	21.9	21.2	20.9	20.7	21.7	24.1	26.9	29.7	31.9	32.9	33	33	33.3	33.5	33.5	32.3	30.1	27.4	24.9	23.5	22.8	22.5	26.9
2	22	21.4	21.3	21.4	21.6	21.8	22.6	24.3	27.1	30.3	32.3	33.5	34.2	34.6	35.2	36	36.2	35.8	34.5	32.2	29.6	28.2	27.4	26.9	28.8
3	26.2	25.6	25	24.6	24.5	24.5	24.9	26.6	28.5	31	33.7	35.5	36.4	37.1	37.8	37.7	35.8	34.9	32	29.6	26.2	24.8	24.9	24.9	29.7
4	24.3	24.1	24.4	24.7	24.4	24.2	24.2	24.8	25.9	27	27.9	29.3	30.8	32.9	34	34.8	35	34.3	33	31	29.2	28.1	27.3	26.7	28.4
5	26.2	25.1	23.9	23.4	22.9	22.8	23.4	25.5	28.1	30	31.4	32.7	33.4	34	34.8	35.6	35.8	34.9	32.7	29.9	28.3	27.3	26.5	25.9	28.9
6	25.6	25.2	24.6	24.1	23.8	23.7	24.1	26.3	28.8	30.3	28.8	25.8	24	23.1	22.8	22.8	22.7	22.3	22.1	21.8	21.4	21	20.6	20.2	24
7	19.9	19.8	19.5	19.2	18.9	18.4	18.4	20.1	21.9	23.5	25.6	27.3	28.2	28.5	28.6	28.1	26.9	26.2	25.3	23.8	22.2	21.1	20.3	19.7	23
8	19.2	18.9	18.5	18.4	18.5	18.5	18.9	19.9	21.4	23.3	25.1	28.2	29.4	30	30.6	30.7	30.7	29.6	27.9	25.2	22.4	20.7	19.7	19.1	23.5
9	18.7	18.4	18	17.8	17.8	17.9	18.1	20.7	24	27	29.6	31	31.5	31.7	31.8	31.7	31.5	30.1	28.7	26.2	24.4	23.4	22.4	21.2	24.7
10	20.6	20	19.4	19.3	19.4	19.5	20.6	22.8	26	29.4	32	33.4	33.5	33.4	33.6	33.7	33.4	33	31.8	29.6	27.1	25.6	24.8	24.2	26.9
11	23.6	23.3	23.1	23.1	23.3	23.1	23.6	25.5	28	30.6	33.1	35.1	36.2	35.9	36	36.3	35.5	33.6	33.3	31.3	28.6	26.9	26	25.5	29.2
12	25	24.5	24.1	23.6	23.3	23.1	23.7	25.6	27.9	30.2	32.2	33.5	33.6	34.3	34.8	34.8	35.8	35.8	34.2	31.8	29.5	28.3	27.5	26.9	29.3
13	26.4	26.1	25.6	25.1	24.8	24.7	25.4	27.2	29	30.6	32.3	33.6	34.1	34.7	35.3	35.6	33.9	31.2	28	25.2	24.1	23.2	22.8	22.8	28.4
14	22.7	22.7	22.7	22.6	22.6	22.5	22.4	22.8	23.8	26.2	28.8	30.1	31.4	32.8	34.1	34.4	33	29.1	25.6	24.8	24.3	24.1	24.1	24.3	26.3
15	24	24	24.3	24.5	24.6	24.7	25	26.7	29.2	29.9	31	32.5	33.4	34.4	35.1	34.2	33.9	34.1	33.4	31	27.8	25.5	24.7	24.3	28.8
16	23.7	23.3	23.1	23.2	23.4	23.5	24.4	26.3	28.5	30.7	32.4	33.3	33.9	34.1	34.4	34.9	35	34.7	33.4	30.4	27.3	25.4	24.1	23.1	28.6
17	22.4	22.1	21.8	21.5	21.2	21.1	22.2	25.3	29	32.3	34.6	36.2	37.2	37.8	38.6	39.4	39.5	38.2	35.4	32.2	29.2	27.2	26	25.1	29.8
18	24.3	23.7	23.3	23.1	23.1	23.1	23.8	26.2	29.2	32.5	36.1	37	37.3	37.7	37.6	37.6	37.3	35.6	33.4	30.7	28.2	26.7	26	25.5	30
19	25.3	24.9	24.3	23.8	23.5	23.3	23.5	25.8	27.9	29.9	31.9	33.7	34.3	34.4	34.8	35.4	35	33.9	32.2	29.3	27	25.7	25	24.2	28.7
20	23.3	22.6	22.2	22	21.8	21.5	22.1	24.6	28	31.4	33.5	35	35.5	36.1	36.7	36.7	35.9	34.7	33.1	30.5	28.3	26.6	25.3	24.5	28.8
21	23.9	23.5	23	22.5	22.1	22	23.1	25.3	27.9	30.3	32	33.5	34.2	35.1	35.7	36.1	35.7	35.1	33.9	31.4	29.4	28.3	27.7	27.1	29.1
22	26.5	26.1	25.8	25.5	25.3	25.3	25.5	26.2	28	30.1	31.9	32.9	33.8	34	32.7	32.5	32.4	32.2	32	30.4	29.1	28.3	27.7	27.3	29.2
23	26.9	26.6	26.2	25.8	25.3	24.6	25	27.2	28.8	29.7	29.8	28.9	30.1	29.4	26.7	25.2	24.1	23.6	23.4	23	22.6	22.5	22.4	22.3	25.8
24	22	22	22	21.7	21.5	21.3	21.6	22.8	25.2	28.2	29.7	31.5	32.8	33	33.2	33.3	32.9	32.4	30.6	27.8	25.4	24.1	23.5	23.4	26.7
25	23.6	23.6	23.8	23.8	23.9	24	24.1	24.5	25.5	26.1	25.4	24	23.7	24.5	25.9	28.8	30.7	29.1	27.6	26.2	25	24.4	23.9	23.5	25.2
26	23.4	23.3	23.1	22.9	22.9	23	23.7	25.8	28.3	31	33.6	35.3	35.8	34.9	33	29.2	27.3	27.7	28.5	27.5	26.2	25.4	25	24.6	27.6
27	24.3	23.9	23.8	23.7	23.7	23.7	24.2	25.6	28.3	31.6	33.6	34.6	35.4	35.5	36.3	37	36.8	35.5	32.3	28.2	25.8	24.9	24.3	24	29.1
28	23.7	23.4	23.4	23.5	23.4	23.5	24.3	26.6	28.5	30.6	32.6	34	34.9	35.3	36	36.9	37.5	36.9	35.1	32.2	25.7	22.9	23	23.9	29.1
29	24.4	24.8	25	24.9	24.4	24.2	24.4	25	26.3	27.1	29.1	31.6	33.4	34.7	35.2	34.8	34.6	34	32.1	30.4	29.1	28.4	28	27.4	28.9
30	26.5	25.7	25.1	24.5	23.7	23.1	23	24.9	27.5	29.4	31	32.4	32.5	32.6	34.3	36	37	35.7	33.5	31	28.6	27.2	26.4	25.8	29.1
31	25.4	25.3	25.2	25	24.9	24.6	24.7	26.4	30.4	34.2	36.7	38.1	38.7	39	38.3	36	36	35.1	32.4	30.2	28.8	27.9	27.4	27	30.7
Avg	23.8	23.4	23.1	22.9	22.8	22.6	23.1	24.9	27.2	29.5	31.3	32.5	33.1	33.5	33.8	33.9	33.6	32.6	31	28.8	26.6	25.4	24.8	24.3	27.9
S D	2.1	2.1	2.1	2.1	2	2	2	1.9	2.1	2.4	2.8	3.2	3.4	3.5	3.6	3.7	3.9	3.8	3.5	2.9	2.5	2.3	2.3	2.2	2
S/A	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.08	0.08	0.08	0.09	0.1	0.1	0.1	0.11	0.11	0.12	0.12	0.11	0.1	0.09	0.09	0.09	0.09	0.07
Min	18.7	18.4	18	17.8	17.8	17.9	18.1	19.9	21.4	23.3	25.1	24	23.7	23.1	22.8	22.8	22.7	22.3	22.1	21.8	21.4	20.7	19.7	19.1	23
Max	26.9	26.6	26.2	25.8	25.3	25.3	25.5	27.2	30.4	34.2	36.7	38.1	38.7	39	38.6	39.4	39.5	38.2	35.4	32.2	29.6	28.4	28	27.4	30.7
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.

Prepared by: Afshin M. Andreas, NREL

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

**July 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	1.9	1.6	0.3	1.1	0.9	0.9	0.9	1.9	1.9	1.8	2.6	2.9	3	2.7	2.8	3.1	3	3.3	2.4	1.5	1.3	1.4	1.3	0.6	1.9
2	0	0	0.1	0	0.1	0	0.5	2.1	2.5	3.2	3.3	3.3	3.6	3.9	3.5	3.5	3.1	2.6	1.8	1.4	2.1	2.4	3	2.6	2
3	2.6	2.6	2.2	2.6	2.6	2.5	2.5	3.1	3.1	2.5	2.2	2.5	2.6	3.2	3.4	3	1.4	1.8	1.3	2.7	1.3	1.9	3.1	2.2	2.5
4	1.5	2.7	2.8	1.9	2.5	2.6	2.6	2.8	2	2.4	1.9	2.5	2.3	2.5	2.3	2.7	2.5	2.7	2.6	1.9	2.5	2.9	3.4	4	2.5
5	3.7	2.3	2.4	1.9	2.5	2.7	1.8	2.7	4	4.4	4.8	4.8	5	4.4	4.3	4.1	4.5	4.1	3	3	2.5	2.9	2.7	2.5	3.4
6	2.6	1.7	1.5	2.2	2.1	1.6	1.6	2.1	2.3	3.5	3.3	1.8	2	1.5	1.9	1.7	1.3	1.6	2.3	2.3	1.9	1.6	1.3	0.8	1.9
7	1.2	1.6	2.1	2	1.4	0.9	0.8	1.9	2.2	2.8	2.6	3.2	3.2	3.1	2.8	2.8	2.8	3.1	2.6	2.1	1.8	2	2.1	2	2.2
8	2.1	1.8	2	2.1	2.2	1.9	2.2	2.1	2.3	2.1	2.5	2.3	2.3	2	2.2	1.9	3.1	2.5	1.9	1	0.5	0.6	0.5	0.4	1.9
9	0.7	0.3	0.3	0.1	0.9	0.3	0.1	1.5	1.3	1.7	1.8	1.7	2.3	2.8	3.1	2.7	2.2	2.2	2.2	1.1	1	0.8	0.3	0.4	1.3
10	0.1	0	0.2	0.3	0.1	0.3	0.3	1.4	1.6	1.6	1.9	2.8	2.7	3.3	3.7	3.4	3.8	3.4	2.9	2.2	1.7	1.9	1.2	1	1.8
11	0.9	0.6	0.3	0.7	0.6	0.3	1	2.1	2.2	1.9	1.7	1.5	2.1	2.9	2.1	2.8	3.5	2.6	2.3	1.6	1.7	1.4	1.6	2	1.7
12	2	1.7	1.6	1.2	1.3	1.4	2	2.9	3.5	3.4	3.4	3.5	3.6	3.9	3.2	3.1	3.2	3.3	2.2	1.7	2.3	2.8	2.8	3.2	2.6
13	3.5	3.5	2.5	2.6	2.8	2.7	3.4	4.7	4.9	4.7	4.7	5.3	5	4.5	4.6	4.4	2.5	2.1	2.3	1.2	2.8	0.9	1.5	0.9	3.2
14	2.9	3.1	1.9	1.5	2.4	2.1	1.5	1.8	2.6	3.7	3.6	3.6	3.5	3.1	3.5	3.6	2.7	2.5	0.7	0.6	0.1	0	0.3	1.4	2.2
15	1.6	2.2	2.4	2.4	2	0.9	1.6	2.3	2.4	1.9	2.3	2.4	3	2.9	3.1	2.1	2.4	1.7	1.5	2.2	1.5	0.7	0.4	0.9	1.9
16	0.5	0.8	1.5	1.4	1.4	1.6	1.9	2.3	2.3	3.2	3.6	3.8	3.9	3.9	3.3	3.4	2.7	2.1	2	1	0.4	0.5	0.1	0.3	2
17	0.2	0.3	0.2	0.4	0.4	0.4	1.1	1.4	2	2.4	2.3	2.3	2.1	1.9	2	2.1	1.8	2.2	1.9	1.1	0.6	0.7	1	0.3	1.3
18	0.4	0.3	0.6	0.9	0.8	0.8	1.1	1.9	1.5	0.6	1.7	2.7	1.3	2.5	2.9	2.8	3.4	3.2	2.2	1.3	0.9	1.2	1.2	2.2	1.6
19	1.5	0.3	0.3	0.4	1.1	1.1	1	2.2	1.8	2.6	3.1	2.9	3.1	3.2	2.9	3.3	3.8	3.1	2.1	1.5	1.1	1.2	1	0.6	1.9
20	0.5	0.8	0.6	1.2	1.6	1	0.8	1.2	1.6	1.5	1.5	1.8	1.7	1.5	1.7	2.9	3.1	2.7	2.9	2	1.7	1.1	1.4	1.7	1.6
21	1.7	1.9	1.4	1.1	0.8	1.3	1.5	2.5	2.8	3.4	3.3	3.7	3.2	3.5	3.5	3.5	3.4	2.7	2.6	2.7	2.4	3.2	3.2	3.4	2.6
22	3.6	3.8	3.6	3.2	3.5	4.1	4	4.5	4.9	4.9	5.6	5.3	4.9	4	2.9	2.8	2.7	3.8	3.5	4.1	4.7	5.6	4.2	4.2	4.1
23	4.1	4.2	3.4	2.5	1.5	0.9	1.3	1.8	2	1.7	2.2	3	2.9	2.7	2.7	2.4	1.1	1.1	1.3	0.4	0.3	0.1	0	0.1	1.8
24	0.1	0.9	0.6	0.4	0.1	0.4	0.5	1.6	1.6	2.3	2.5	2.5	2.3	2.8	2.6	2.7	2.4	2.6	2.5	2.8	2.4	1.6	1.5	2	1.7
25	1.5	1.6	1.2	1.2	1.2	1.4	1.6	1.4	1.9	1	0.9	1.6	0.5	1.7	1.6	2.7	2.5	2.5	1.8	1.9	1.2	0.7	0.2	0.1	1.4
26	0.3	0.7	0.5	0.4	0.7	0.5	1.3	1.6	1.8	1.8	1.6	2	1.8	1.9	1.8	2.5	2.7	2.1	2	1.4	0.7	0.7	0.9	0.4	1.3
27	0	0	0.2	0.1	0.1	0.5	0.4	1.3	1.3	2	2.7	2.7	2.9	3.3	3	3.3	3.2	2.6	1.4	1.8	1.6	0.8	1.4	0.9	1.6
28	1.1	1.7	1.9	1.3	1.3	1.7	2	2.6	3.8	3.4	3.5	3.1	3.9	4.2	4.1	3.6	3.3	2.8	2	4.2	2.5	2.5	2.5	1.7	2.7
29	1.8	2.4	2.9	2.7	2.7	2.4	1.9	3	3.2	3.1	2.8	3.2	3.4	3.6	3.8	3.9	3.4	2	1.8	1.2	1.8	2.1	2.6	2	2.7
30	1.9	1.9	1.8	1.5	1.5	2.2	2.9	3	3.2	2.8	2.4	2.5	1.9	1.1	0.8	1.4	1.3	1.6	0.5	0	0	0	0	0	1.5
31	0.4	0.5	0.3	0.3	0.2	0.3	0.7	1.3	1.2	1.6	2.1	2.3	2.1	2.1	2.9	3.1	3	2.4	1.2	0.2	1	1.4	1.2	0.5	1.3
Avg	1.5	1.5	1.4	1.3	1.4	1.4	1.5	2.2	2.4	2.6	2.7	2.9	2.8	2.9	2.9	2.9	2.8	2.5	2.1	1.7	1.6	1.5	1.6	1.5	2.1
S D	1.2	1.1	1.1	0.9	0.9	1	0.9	0.8	1	1	1	1	1	0.9	0.8	0.7	0.8	0.7	0.7	1	1	1.2	1.1	1.2	0.7
S/A	0.79	0.74	0.75	0.67	0.67	0.71	0.61	0.38	0.4	0.4	0.38	0.34	0.37	0.31	0.3	0.23	0.28	0.26	0.32	0.56	0.63	0.75	0.73	0.8	0.32
Min	0	0	0.1	0	0.1	0	0.1	1.2	1.2	0.6	0.9	1.5	0.5	1.1	0.8	1.4	1.1	1.1	0.5	0	0	0	0	0	1.3
Max	4.1	4.2	3.6	3.2	3.5	4.1	4	4.7	4.9	4.9	5.6	5.3	5	4.5	4.6	4.4	4.5	4.1	3.5	4.2	4.7	5.6	4.2	4.2	4.1
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: 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**

**July 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	101	114	118	126	66	82	64	80	80	98	97	101	109	101	109	100	86	105	105	100	106	125	126	143	101
2	0	144	212	185	160	199	209	217	220	216	228	229	238	227	216	218	216	206	203	190	183	189	200	205	214
3	211	217	219	226	228	224	225	234	251	248	238	231	222	219	227	221	326	74	106	272	143	154	185	200	222
4	231	227	211	218	223	220	226	229	230	234	233	218	200	201	205	201	189	183	189	186	194	195	202	213	210
5	234	219	224	205	227	239	220	184	188	200	211	210	206	198	199	187	184	183	185	183	182	187	190	202	201
6	222	232	232	222	217	229	217	270	300	305	311	313	297	321	322	353	355	14	10	0	350	351	336	324	301
7	343	350	352	352	343	319	335	356	351	1	9	41	32	15	25	44	42	35	28	2	0	354	347	351	11
8	357	354	348	350	347	352	351	349	12	355	13	19	11	11	32	29	58	54	60	68	143	111	136	142	16
9	126	150	223	225	228	244	238	226	239	235	245	223	196	182	200	199	190	153	123	125	128	170	200	151	192
10	165	192	173	144	168	150	217	217	169	167	178	132	138	118	95	101	131	140	159	160	166	165	167	172	143
11	173	194	171	218	228	192	212	230	225	235	218	194	163	152	159	156	117	127	172	174	164	176	186	200	177
12	207	207	209	201	214	211	216	227	247	229	218	218	217	222	199	207	198	212	201	182	195	197	198	203	211
13	217	215	213	220	220	218	215	229	226	223	218	217	227	229	222	224	296	30	3	92	333	203	218	249	227
14	251	241	232	217	229	201	170	187	203	225	236	237	232	225	222	213	260	318	161	211	223	164	218	212	228
15	220	223	226	224	229	222	229	250	267	256	246	245	246	253	256	269	274	275	275	23	350	291	271	263	253
16	277	275	291	291	309	325	339	345	356	13	19	18	29	30	33	57	46	55	49	44	356	328	297	234	14
17	298	292	288	305	282	299	308	335	355	24	22	48	61	48	42	68	94	128	124	109	144	148	158	196	54
18	198	223	225	230	234	241	231	235	239	256	120	92	103	94	97	102	120	123	120	132	113	100	105	94	124
19	93	51	5	352	325	328	337	352	353	10	11	7	21	39	36	52	51	43	42	22	7	354	305	291	21
20	244	231	244	261	281	266	279	292	286	288	249	230	218	201	200	161	159	157	158	179	192	196	205	216	209
21	219	227	217	205	192	199	194	211	225	230	229	217	195	194	191	198	212	198	177	189	189	196	196	195	204
22	199	203	207	204	207	207	203	208	208	202	209	198	194	199	200	215	178	178	185	187	192	193	199	204	199
23	212	213	219	219	208	222	211	183	168	172	155	164	192	148	40	65	78	166	243	253	127	193	29	306	186
24	296	324	338	318	298	302	332	350	29	47	50	55	91	95	82	98	86	90	92	92	100	107	101	95	76
25	90	91	81	88	76	59	62	63	70	15	278	42	116	85	82	74	72	83	72	66	69	42	60	325	71
26	295	311	310	291	304	326	340	358	341	356	45	52	65	91	140	84	94	90	88	118	98	120	130	154	64
27	151	213	197	218	192	207	208	201	204	173	187	185	181	191	185	176	189	189	256	254	205	184	218	217	194
28	231	219	218	201	208	208	202	214	225	226	217	214	224	219	216	212	219	218	210	261	147	191	200	207	215
29	196	206	214	219	222	220	232	226	230	231	226	228	227	219	225	237	233	231	218	212	218	218	226	242	224
30	218	214	231	223	216	217	228	251	255	252	227	229	255	269	337	260	298	276	307	233	196	187	223	232	242
31	279	299	284	268	286	297	302	307	328	351	318	349	4	29	102	119	127	110	118	130	155	167	162	211	69
Avg	215	222	228	225	233	229	231	240	242	243	231	209	204	186	179	164	149	138	142	166	168	181	194	204	202
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**

**July 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	3	2.4	0.8	1.9	1.6	1.6	1.6	3.2	3.3	3.1	4.1	4.7	4.7	4.7	4.4	5	5.2	5.1	4	2.6	2.2	2.1	2	1.1	3.1
2	0	0.2	0.5	0.3	0.6	0.6	1.6	3.7	4.1	5.7	5.6	5.7	6.3	6.5	5.8	5.8	5.3	4.7	3.3	2.7	4.4	4.4	5.4	4.6	3.7
3	4.4	4.1	3.5	4.2	4	3.7	4.2	5.1	5.3	4.1	4	4.4	4.5	5.7	5.3	4.5	2.8	3.1	2.3	5.6	2.2	3.4	6	3.8	4.2
4	2.4	4.3	4.7	3.1	3.9	4.1	4.1	4.4	3.2	3.8	3.3	4.2	4.2	4.3	4.3	4.8	4.6	4.9	5.3	3.6	4.6	5.3	5.9	6.6	4.3
5	6.3	3.9	4.1	3.3	4.4	4.6	3.3	4.9	7.3	8	9.1	8.4	8.3	7.6	7.2	7.2	8	7.4	5.9	5.8	5.1	5.6	5	4.3	6
6	4.5	2.8	2.4	3.7	3.6	2.8	3.2	4.2	5.3	6.9	6.3	4	4.2	3.1	4.1	3.3	3	3.1	4.2	4.1	3.6	2.9	2.5	1.8	3.7
7	2.4	2.9	3.3	3.6	2.8	2.1	2	3.2	4.2	4.8	4.6	5.3	5.5	5.3	5.1	4.9	5.2	5.4	4.7	3.6	3.2	3.3	3.9	3.6	4
8	3.5	3.1	3.5	3.6	3.8	3.6	3.9	3.8	4.2	4.1	4.5	4.3	4.1	4	4.2	3.4	5.1	4.4	3.4	1.8	1.1	1.1	1	0.8	3.3
9	1.3	0.9	0.7	0.5	1.3	0.7	0.4	2.6	2.7	3.4	3.3	3.7	4.5	5.3	5.5	4.7	3.9	3.5	3.3	1.9	1.7	1.9	1	0.9	2.5
10	0.8	0.2	0.5	0.8	0.5	0.7	0.7	2.5	2.9	3.1	3.7	4.7	5	5.6	6.1	5.9	6.1	5.9	5.1	4	3.2	3.6	2.6	2.2	3.2
11	2.1	1.6	1.1	1.5	1.5	1.3	2	3.5	3.7	3.4	3.1	3.1	3.7	4.9	4.2	4.6	5.4	4.1	4.2	3	3.3	2.7	3.1	3.6	3.1
12	3.3	3.2	2.9	2.3	2.5	2.5	3.5	5.1	5.9	5.3	5.9	6.1	6	6.8	5.9	5.6	5.7	5.8	4.1	3.3	4.4	5.3	5.3	5.4	4.7
13	6.4	6	4.4	4.4	4.4	4.7	5.7	7.8	8.3	7.7	8	8.3	8	7.7	7.8	7	4.5	3.8	4.4	2.4	5.3	1.9	2.9	2	5.6
14	5.3	5.2	3.5	2.9	4	3.9	3.2	3.6	4.9	6.6	5.8	5.9	6	5	5.9	5.8	5.1	5.3	1.5	1.6	0.6	0.3	1	2.7	4
15	2.7	3.7	4	4	3.5	2.1	3.1	3.9	4.4	3.7	4.2	4.5	4.9	5.2	5.4	3.9	4.7	3.8	2.9	4.1	2.9	1.9	1.3	1.9	3.6
16	1.4	1.9	3	3.1	3.2	3.1	3.7	4	4.4	5.7	6.5	6.4	6.9	6.9	5.5	5.6	4.6	3.6	3.7	1.9	1	1.2	0.3	0.9	3.7
17	0.6	1	0.8	1.1	1.1	1.3	2.5	2.8	3.6	4.3	4.2	4.1	4	3.5	3.8	3.6	3.3	3.3	2.8	2	1.4	1.5	2	1.1	2.5
18	1.1	0.9	1.2	1.5	1.2	1.3	1.9	3	2.7	1.8	3.1	4.4	2.7	3.9	4.5	4.4	5.2	4.9	3.8	2.2	1.6	2.1	2.2	3.5	2.7
19	2.6	1	0.8	1	2	2.1	2.2	3.7	3.6	4.7	5.3	5	5.6	6.1	5	5.5	6.6	5.3	3.7	3	2.2	2.4	2.4	1.5	3.5
20	1.1	1.5	1.4	2.3	2.9	1.8	1.9	2.7	3.4	3.1	3.3	4	3.6	2.9	3.1	5.2	5.3	4.5	5	3.8	3.4	2.2	2.5	2.6	3.1
21	2.9	2.9	2.4	2	1.8	2.3	3.1	4.4	4.7	5.6	5.8	6.5	5.6	6.3	6.2	6.1	5.9	5	4.6	4.9	4.5	6	5.7	6.2	4.6
22	6.5	6.5	6.8	5.6	6.5	7.1	7.3	7.9	9.1	8.9	9.1	8.9	8.5	7.3	5.1	4.6	4.9	7.2	6.8	7.6	8.9	9.8	7.6	7	7.3
23	7.8	7.3	6.1	4.3	3	1.7	2.4	3.2	3.8	3.3	4	5.9	5.4	4.8	5.3	4.2	2.2	2.6	2.6	1.3	0.7	0.6	0.2	0.3	3.5
24	0.6	2	1.4	0.9	0.6	1.4	1.4	2.8	3.1	4.1	4.4	4.5	4.2	4.8	4.5	4.5	4.1	4.2	4.2	4.5	3.8	2.8	2.5	3.2	3.1
25	2.5	2.8	2.1	2.1	2.2	2.3	2.8	2.4	3.5	2.1	2.4	3	1.3	3	2.8	4.7	4.2	4.1	3	3.2	2.3	1.9	0.6	0.6	2.6
26	1	1.7	1.5	1.3	1.9	1.6	2.8	3	3.7	3.3	3	3.6	3.4	3.5	3	3.9	4.6	3.3	3.3	2.5	1.4	1.7	1.7	1.2	2.6
27	0.4	0.4	1.1	0.9	1.1	1.6	1.3	2.5	2.5	3.7	4.8	4.8	5.2	6	5.4	6.2	5.7	4.5	2.9	3.3	3	1.6	2.2	1.7	3
28	1.8	2.6	3.2	2.3	2.4	2.9	3.6	4.7	6.1	5.6	5.4	5.1	6.5	6.8	6.4	6.1	5.7	4.5	3.4	8.2	4.4	4.9	4.4	3	4.6
29	3.7	4.4	4.7	4.6	4.4	4.1	3.2	4.6	5	5.1	4.6	5.2	5.6	6	5.8	6.1	5.6	3.3	2.8	2	3.1	3.3	4	3.4	4.4
30	3.2	2.9	3.1	2.4	2.6	3.6	4.7	5	5.4	5.1	4.2	4.4	3.6	2.4	1.8	3	2.7	3	1.6	0.1	0.2	0.2	0.1	0	2.7
31	0.9	1	0.9	0.8	1	1.1	1.7	2.7	2.5	3.1	4.1	4.6	3.9	3.4	4.7	4.7	4.7	3.6	2.1	0.6	1.7	2.5	2.1	1	2.5
Avg	2.8	2.7	2.6	2.5	2.6	2.5	2.9	3.9	4.4	4.6	4.8	5.1	5	5.1	5	5	4.8	4.4	3.7	3.3	2.9	2.9	2.9	2.7	3.7
SD	2	1.8	1.7	1.4	1.4	1.5	1.4	1.3	1.6	1.7	1.7	1.4	1.6	1.5	1.3	1	1.2	1.2	1.2	1.8	1.8	2	2	1.9	1.1
S/A	0.73	0.67	0.65	0.57	0.55	0.58	0.5	0.35	0.37	0.37	0.35	0.28	0.32	0.29	0.26	0.21	0.25	0.26	0.32	0.55	0.61	0.69	0.68	0.7	0.3
Min	0	0.2	0.5	0.3	0.5	0.6	0.4	2.4	2.5	1.8	2.4	3	1.3	2.4	1.8	3	2.2	2.6	1.5	0.1	0.2	0.2	0.1	0	2.5
Max	7.8	7.3	6.8	5.6	6.5	7.1	7.3	7.9	9.1	8.9	9.1	8.9	8.5	7.7	7.8	7.2	8	7.4	6.8	8.2	8.9	9.8	7.6	7	7.3
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**

**July 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	1019	1019	1018	1018	1019	1020	1020	1021	1021	1021	1021	1021	1021	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020
2	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021	1021	1020	1019	1019	1019	1018	1017	1017	1018	1018	1019	1019	1019	1019	1019	1019
3	1018	1018	1018	1018	1018	1018	1018	1019	1019	1018	1018	1018	1017	1017	1016	1016	1016	1016	1015	1016	1016	1017	1018	1017	1017	1017
4	1017	1016	1016	1016	1016	1017	1017	1017	1016	1016	1016	1016	1016	1016	1015	1014	1014	1013	1013	1013	1014	1015	1015	1015	1015	1015
5	1015	1015	1014	1014	1015	1016	1015	1015	1015	1015	1015	1014	1014	1014	1013	1012	1012	1012	1012	1013	1013	1014	1014	1014	1013	1014
6	1013	1013	1013	1012	1012	1013	1013	1013	1014	1014	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1017	1017	1018	1019	1019	1015
7	1019	1019	1019	1018	1019	1019	1020	1020	1020	1021	1021	1021	1021	1021	1021	1021	1020	1020	1021	1021	1021	1021	1021	1021	1021	1020
8	1020	1020	1019	1019	1019	1019	1019	1020	1020	1020	1020	1020	1020	1019	1019	1018	1018	1018	1018	1018	1018	1019	1018	1018	1018	1019
9	1018	1018	1018	1017	1018	1018	1019	1019	1019	1019	1019	1019	1019	1018	1018	1017	1017	1016	1017	1017	1017	1017	1017	1017	1017	1018
10	1017	1017	1016	1016	1017	1017	1018	1018	1018	1018	1018	1018	1018	1017	1017	1017	1017	1017	1017	1017	1018	1018	1019	1019	1019	1018
11	1019	1019	1019	1019	1019	1019	1020	1020	1020	1020	1021	1021	1020	1020	1020	1020	1019	1019	1019	1019	1019	1020	1020	1020	1020	1020
12	1020	1020	1019	1020	1020	1020	1020	1021	1021	1021	1020	1020	1019	1019	1019	1018	1017	1017	1017	1017	1017	1018	1018	1017	1019	1019
13	1017	1017	1016	1016	1017	1017	1016	1016	1016	1016	1016	1016	1015	1015	1014	1014	1014	1014	1015	1014	1015	1016	1017	1015	1016	1016
14	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1014	1013	1013	1013	1014	1013	1013	1014	1014	1014	1014	1014	1014	1014
15	1013	1013	1013	1012	1012	1013	1013	1013	1013	1013	1013	1013	1012	1012	1012	1011	1011	1011	1011	1011	1012	1011	1012	1012	1012	1012
16	1012	1011	1011	1011	1012	1012	1013	1013	1013	1014	1014	1014	1014	1014	1014	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1013
17	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015	1015	1015	1015	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014
18	1014	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015	1014	1014	1014	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014
19	1014	1014	1014	1014	1014	1015	1015	1015	1015	1016	1016	1016	1016	1016	1015	1015	1016	1015	1016	1016	1017	1017	1017	1017	1017	1015
20	1017	1017	1017	1017	1017	1017	1017	1018	1018	1019	1019	1018	1018	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1017
21	1015	1015	1015	1015	1014	1015	1015	1015	1015	1015	1015	1014	1014	1014	1013	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1014
22	1012	1012	1011	1011	1010	1011	1011	1011	1011	1011	1011	1010	1010	1010	1009	1009	1008	1008	1008	1008	1009	1009	1009	1010	1010	1010
23	1010	1010	1010	1009	1009	1009	1009	1009	1010	1010	1010	1009	1009	1009	1009	1009	1009	1010	1011	1011	1011	1012	1012	1012	1012	1010
24	1012	1012	1013	1013	1014	1014	1015	1015	1016	1016	1017	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1015
25	1016	1016	1016	1015	1015	1016	1016	1016	1016	1016	1016	1016	1015	1014	1014	1014	1013	1013	1013	1013	1013	1013	1013	1013	1013	1015
26	1013	1013	1012	1012	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014	1013	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1013
27	1014	1014	1014	1014	1015	1015	1016	1016	1016	1016	1017	1017	1017	1016	1016	1015	1016	1015	1016	1015	1016	1017	1016	1016	1017	1016
28	1017	1017	1017	1017	1017	1017	1018	1018	1018	1017	1017	1017	1017	1016	1016	1015	1015	1015	1015	1015	1016	1016	1017	1017	1017	1017
29	1016	1016	1016	1016	1016	1015	1016	1016	1016	1016	1016	1015	1015	1014	1014	1013	1013	1012	1012	1012	1012	1012	1012	1012	1012	1014
30	1012	1011	1011	1011	1011	1011	1011	1011	1011	1010	1010	1010	1010	1009	1009	1009	1008	1008	1008	1008	1008	1009	1009	1010	1010	1010
31	1010	1009	1009	1009	1010	1010	1010	1011	1011	1011	1012	1012	1012	1011	1011	1011	1011	1011	1012	1012	1013	1013	1013	1013	1013	1011
Avg	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1016	1016	1015	1015	1015	1014	1014	1015	1015	1015	1015	1016	1015	1015	1015
SD	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
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	1009	1009	1009	1009	1009	1009	1009	1010	1010	1010	1009	1009	1009	1009	1009	1008	1008	1008	1008	1009	1009	1010	1010	1010	1010
Max	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1020	1020	1021	1021	1021	1021	1021	1021	1021	1020
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928	

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

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

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

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

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

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