

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

June 2004

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	5	69	251	454	647	828	949	1022	1016	929	768	687	474	230	47	6	0	0	0	0	8383
2	0	0	0	0	4	73	254	459	635	812	935	1000	1000	932	813	638	438	260	69	2	0	0	0	0	8324
3	0	0	0	0	2	67	233	438	589	719	923	980	971	926	467	330	388	249	60	5	0	0	0	0	7346
4	0	0	0	0	2	47	139	100	123	136	103	138	?	113 ?	?	?	?	?	2 ?	1	0	0	0	0	903 ?
5	0	0	0	0	2	21	67	159	440	727	775	817	883	746	606	482	243	164	63	19	0	0	0	0	6215
6	0	0	0	0	2	38	116	336	608	722	763	796	343	354	590	480	330	167	52	1	0	0	0	0	5698
7	0	0	0	0	2	38	77	105	157	168	281	377	371	335	294	234	152	79	49	10	0	0	0	0	2728
8	0	0	0	0	3	34	112	231	270	397	626	717	750	871	817	610	424	153	60	8	0	0	0	0	6082
9	0	0	0	0	6	42	176	372	565	819	729	970	902	907	798	644	455	259	53	7	0	0	0	0	7703
10	0	0	0	0	8	63	242	446	670	710	920	976	971	804	727	567	441	183	38	0	0	0	0	0	7766
11	0	0	0	0	4	58	142	245	622	790	919	978	699	758	800	529	328	208	25	3	0	0	0	0	7108
12	0	0	0	0	0	5 ?	51 ?	141	414	792	957	1031	1039	968	866	710	489	310	97	4	0	0	0	0	7875
13	0	0	0	0	5	86	254	441	610	774	864	919	1007	754	522	189	144	70	24	6	0	0	0	0	6668
14	0	0	0	0	3	21	53	126	340	621	604	756	735	954	798	537	251	206	80	8	0	0	0	0	6091
15	0	0	0	0	5	31	117	281	528	714	826	792	913	733	727	563	363	200	50	4	0	0	0	0	6848
16	0	0	0	0	2	22	67	202	294	269	192	280	262	367	583	275	136 ?	105	57	19	0	0	0	0	3132
17	0	0	0	0	4	13 ?	27 ?	77	185	274	266	281	309	528	436	394	331	245	48	3	0	0	0	0	3419
18	0	0	0	0	4	24	103	201	468	710	902	976	950	913	754	507	212	51 ?	37	7	0	0	0	0	6817
19	0	0	0	0	4	60	207	336	570	600	822	777	537	286	621	340	430	241	68	15	0	0	0	0	5914
20	0	0	0	0	1	30	122	200	448	668	567	781	1004	928	816	703	501	291	98	8	0	0	0	0	7166
21	0	0	0	0	4	72	249	457	656	830	954	999	1025	996	861	639	332	157	76	9	0	0	0	0	8317
22	0	0	0	0	2	46	233	238	203	459	833	950	717 ?	736	786	638	452	100	76	7	0	0	0	0	6477
23	0	0	0	0	3	30	205	377	538	760	875	911	?	519	573	126 ?	43 ?	?	3 ?	5	0	0	0	0	4968 ?
24	0	0	0	0	2	30	44	83	144	366	536 ?	677	384	203	444	614	404	217	86	21	0	0	0	0	4254
25	0	0	0	0	7	43	162	298	409	429	666	920	791	534	309	275	448	73	5 ?	1	0	0	0	0	5370
26	0	0	0	0	4	35	102	194	300	161	100	158	187	445	318	592	475	201	86	17	0	0	0	0	3375
27	0	0	0	0	5	60	183	154	130	408	338	137	273	286	134	418	212	150	55	10	0	0	0	0	2953
28	0	0	0	0	1	9	47	127	238	173	358	214	91 ?	78 ?	131	498	218	33 ?	35	5	0	0	0	0	2256 ?
29	0	0	0	0	4	55	186	246	595	762	930	992	992	895	798	663	470	267	88	10	0	0	0	0	7956
30	0	0	0	0	4	39	179	247	274	167 ?	548	681	880	890	732	381	68	39 ?	75	22	0	0	0	0	5225
Avg	0	0	0	0	3	42	147	259	422	559	669	733	714	656	617	492	333	175	55	8	0	0	0	0	5778
S D	0	0	0	0	2	21	74	126	185	246	278	305	309	289	218	165	137	80	26	6	0	0	0	0	2050
S/A	0	0	0	0	0.51	0.49	0.5	0.49	0.44	0.44	0.42	0.42	0.43	0.44	0.35	0.34	0.41	0.46	0.48	0.78	0	0	0	0	0.35
Min	0	0	0	0	0	5	27	77	123	136	100	137	91	78	131	126	43	33	2	0	0	0	0	0	903
Max	0	0	0	0	8	86	254	459	670	830	957	1031	1039	996	866	710	501	310	98	22	0	0	0	0	8383
n	0	0	0	0	82	354	351	360	357	356	353	357	325	343	343	340	331	313	346	112	0	0	0	0	5025

Daylight Data Recovery: 0.0% missing; 4.0% 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 2004

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	18	307	602	731	784	857	860	857	843	751	680	828	725	435	17	0	0	0	0	0	9293
2	0	0	0	0	6	205	606	767	706	792	828	839	820	772	750	672	589	499	215	0	0	0	0	0	9065
3	0	0	0	0	0	127	356	551	587	498	732	764	741	790	285	173	451	487	135	0	0	0	0	0	6677
4	0	0	0	0	0	10	6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	17
5	0	0	0	0	0	0	0	1	105	361	339	402	465	374	261	199	92	107	43	0	0	0	0	0	2749
6	0	0	0	0	0	7	1	177	449	496	276	292	0	4	114	240	107	53	12	0	0	0	0	0	2225
7	0	0	0	0	0	1	0	1	1	1	3	11	6	2	1	0	0	0	0	0	0	0	0	0	27
8	0	0	0	0	0	0	0	4	0	12	165	314	384	553	653	527	454	113	36	0	0	0	0	0	3215
9	0	0	0	0	0	0	167	404	443	624	415	673	595	661	686	678	604	478	98	0	0	0	0	0	6526
10	0	0	0	0	19	194	543	706	708	428	804	768	720	543	543	452	454	174	0	0	0	0	0	0	7057
11	0	0	0	0	0	24	21	89	679	736	762	673	267	371	620	356	114	122	0	0	0	0	0	0	4834
12	0	0	0	0	0	0	0	1	54	634	895	889	902	861	858	844	725	697	432	1	0	0	0	0	7794
13	0	0	0	0	3	296	528	634	600	547	354	541	615	253	155	0	0	0	0	0	0	0	0	0	4525
14	0	0	0	0	0	0	0	0	8	74	51	142	145	589	619	222	4	158	165	0	0	0	0	0	2179
15	0	0	0	0	0	0	0	16	381	498	565	313	429	167	421	439	225	139	11	0	0	0	0	0	3606
16	0	0	0	0	0	2	0	3	8	5	1	4	2	10	149	3	0	0	2	0	0	0	0	0	189
17	0	0	0	0	0	0	0	1	2	3	2	2	2	55	79	107	195	303	69	0	0	0	0	0	821
18	0	0	0	0	0	0	1	9	240	484	680	747	672	653	530	337	65	0	0	0	0	0	0	0	4418
19	0	0	0	0	1	90	170	187	348	113	392	331	98	24	222	78	311	228	32	0	0	0	0	0	2624
20	0	0	0	0	0	0	17	2	110	266	42	331	753	774	731	849	783	659	417	8	0	0	0	0	5742
21	0	0	0	0	25	381	661	783	844	881	893	866	885	792	772	500	248	23	50	0	0	0	0	0	8604
22	0	0	0	0	0	21	312	129	1	129	554	593	345	489	587	551	491	30	125	0	0	0	0	0	4357
23	0	0	0	0	1	1	205	315	349	617	645	579	384 ?	193	255	0	0	0	0	0	0	0	0	0	3545
24	0	0	0	0	0	2	0	0	1	28	79	196	22	0	43	314	155	76	25	0	0	0	0	0	944
25	0	0	0	0	0	3	23	42	44	19	119	393	374	163	92	38	381	0	0	0	0	0	0	0	1693
26	0	0	0	0	0	1	6	34	5	1	0	0	0	33	10	334	475	100	62	1	0	0	0	0	1063
27	0	0	0	0	1	94	143	5	1	31	2	0	3	1	0	54	1	6	0	0	0	0	0	0	342
28	0	0	0	0	0	0	0	0	6	1	5	1	0	0	1	111	25	0	0	0	0	0	0	0	153
29	0	0	0	0	0	6	156	51	492	572	762	773	757	689	670	680	603	466	242	10	0	0	0	0	6929
30	0	0	0	0	0	18	96	57	45	9	65	113	329	441	393	121	0	0	34	1	0	0	0	0	1721
Avg	0	0	0	0	2	60	154	190	267	324	376	414	385	367	373	324	276	178	74	1	0	0	0	0	3764
S D	0	0	0	0	6	107	220	277	292	307	338	319	326	315	289	279	262	217	116	2	0	0	0	0	2920
S/A	0	0	0	0	2.53	1.8	1.43	1.46	1.1	0.95	0.9	0.77	0.85	0.86	0.78	0.86	0.95	1.22	1.56	3.08	0	0	0	0	0.78
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	17
Max	0	0	0	0	25	381	661	783	844	881	895	889	902	861	858	849	783	697	432	10	0	0	0	0	9293
n	0	0	0	0	82	360	360	360	360	357	358	359	349	357	356	358	357	359	360	112	0	0	0	0	5204

Daylight Data Recovery: 0.0% missing; 0.6% 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 2004

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	4	31	66	86	104	100	113	132	125	161	146	84	80	71	41	5	0	0	0	0	1351
2	0	0	0	0	3	42	63	72	138	130	122	121	128	136	127	120	105	87	36	2	0	0	0	0	1432
3	0	0	0	0	1	46	116	148	174	279	189	160	152	117	149	159	130	80	39	4	0	0	0	0	1944
4	0	0	0	0	2 ?	43	128	90	110	127	90	130	52 ?	100	49 ?	35 ?	?	?	2 ?	0	0	0	0	0	960 ?
5	0	0	0	0	2	21	66	157	354	401	418	371	353	329	322	294	170	120	54	18	0	0	0	0	3451
6	0	0	0	0	2	37	116	230	292	289	449	456	336	337	436	259	257	142	48	1	37	0	0	0	3686
7	0	0	0	0	3 ?	38	77	105	155	165	273	356	352	310	285	226	149	78	47	10	0	0	0	0	2629
8	0	0	0	0	4 ?	33	111	225	268	380	442	363	310	275	210	191	157	104	52	7	0	0	0	0	3132
9	0	0	0	0	7 ?	42	134	183	238	291	316	263	264	230	175	140	119	92	35	7	0	0	0	0	2534
10	0	0	0	0	9 ?	36	71	86	176	313	142	176	209	236	217	226	182	117	38	0	0	0	0	0	2234
11	0	0	0	0	5 ?	58	138	204	149	157	170	259	395	340	218	227	249	161	24	3	40	0	0	0	2757
12	0	0	0	0	0	5	31	140	365	220	84	102	94	102	97	87	86	66	30	4	0	0	0	0	1514
13	0	0	0	0	5	48	91	113	174	277	459	304	320	444	350	188	141	69	23	5	0	0	0	0	3010
14	0	0	0	0	4 ?	21	53	125	332	540	539	562	517	325	207	316	240	150	50	8	0	0	0	0	3988
15	0	0	0	0	5 ?	30	116	272	244	286	259	423	420	502	312	214	207	137	48	4	0	0	0	0	3480
16	0	0	0	0	3 ?	22	66	200	288	264	191	278	261	348	396	268	106	104	56	19	0	0	0	0	2869
17	0	0	0	0	5 ?	12 ?	25	77	185	274	265	279	307	450	339	291	207	135	34	3	0	0	0	0	2888
18	0	0	0	0	4 ?	24	103	195	285	284	236	198	228	242	251	235	159	37 ?	37	6	0	0	0	0	2523
19	0	0	0	0	5 ?	46	157	241	327	487	420	416	414	254	392	266	253	155	60	15	0	0	0	0	3910
20	0	0	0	0	1	29	115	197	357	425	507	418	206	147	149	78	68	57	33	8	0	0	0	0	2798
21	0	0	0	0	4 ?	26	48	54	66	70	73	80	79	125	138	182	163	123	60	8	0	0	0	0	1299
22	0	0	0	0	1	39	132	160	152	262	199	206	239	188	188	177	153	79	54	6	0	0	0	0	2235
23	0	0	0	0	2	25	128	186	249	191	181	211	369 ?	246	240	72	33 ?	?	3 ?	5	0	0	0	0	2141 ?
24	0	0	0	0	2	30	44	83	127	349	294 ?	478	362	203	407	393	324	195	82	21	0	0	0	0	3391
25	0	0	0	0	9 ?	43	157	276	379	416	537	505	392	368	189	242	217	73	5 ?	1	0	0	0	0	3809
26	0	0	0	0	4	35	101	174	297	161	100	158	187	422	313	339	201	160	77	16	0	0	0	0	2743
27	0	0	0	0	5	49	139	153	129	381	338	137	271	286	126	377	212	149	55	10	0	0	0	0	2818
28	0	0	0	0	1	9	47	127	234	173	355	214	83 ?	55	124	412	203	28 ?	35	5	0	0	0	0	2106
29	0	0	0	0	6 ?	55	152	233	239	270	195	198	203	205	196	160	136	102	50	10	0	0	0	0	2410
30	0	0	0	0	5 ?	37	150	223	225	137 ?	483	561	530	457	376	284	62	32	71	22	0	0	0	0	3656

Avg	0	0	0	0	4	34	98	160	227	270	281	284	272	265	237	218	164	104	43	8	0	0	0	0	2657
S D	0	0	0	0	2	13	40	63	88	117	148	143	127	120	105	98	68	43	19	6	0	0	0	0	827
S/A	0	0	0	0	0.59	0.38	0.41	0.39	0.39	0.43	0.53	0.5	0.47	0.45	0.44	0.45	0.41	0.42	0.46	0.79	0	0	0	0	0.31
Min	0	0	0	0	0	5	25	54	66	70	73	80	52	55	49	35	33	28	2	0	0	0	0	0	960
Max	0	0	0	0	9	58	157	276	379	540	539	562	530	502	436	412	324	195	82	22	0	0	0	0	3988
n	0	0	0	0	66	355	359	360	360	357	357	359	333	354	356	348	343	323	346	112	0	0	0	0	5088

Daylight Data Recovery: 0.0% missing; 2.8% exceed the 15% QC threshold -- 5234 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17880F3 Calibration Factor: 8.067 μV/W/m² 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 2004

Dry Bulb Temperature (Tower)
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	24.1	23.4	22.3	21.3	20.5	20.5	21.4	23.5	25.6	26.9	28	28.2	28.8	29.4	29.4	29.5	29.1	28.5	27.1	25.9	24.7	23.9	23.1	22.4	25.3
2	21.9	21.4	21.2	20.3	19.6	19.3	20.9	23.6	25.8	27.2	28.3	29.3	29.8	30.3	30.7	30.9	30.8	30.5	29.4	27.7	26.5	26	25.2	24.5	25.9
3	23.7	23	22.3	22.2	21.8	21.6	22.6	24.8	25.8	27.1	28.2	29.3	30	30.9	29.5	27.6	27.4	26.3	25.2	24	23	22.5	22.5	22.6	25.2
4	22.3	22.3	22.2	22.2	22.4	22.7	23.3	24.1	24.1	24.1	23.5	22.7	21	21.5	21.8	21.8	21.3	21.4	20.7	20.7	21.1	20.9	20.7	20.8	22.1
5	20.7	20.5	20.6	20.5	20.3	20.1	20.3	20.6	21.3	22.3	23.1	24.1	24.2	24.6	24.3	24.2	23.3	22.4	21.7	20.5	19.5	18.6	17.8	17.2	21.4
6	16.5	16	15.5	15.3	15.3	15.7	16.2	17.2	19.4	20.9	22.2	23.9	23.9	24.2	25.7	26	25.8	25.3	23.9	22.6	21.9	21.4	20.9	20.2	20.7
7	20.4	20.6	20.2	20.1	20.3	20.9	21.4	21.8	22.2	22.5	22.6	22.9	23.4	23.4	22.9	22.7	22.4	21.9	21.4	21.1	20.8	20.6	20.6	20.5	21.6
8	20.5	20.1	20.1	20.3	20.5	20.6	20.6	21.5	22.5	23.2	24.3	25.9	27.1	27.5	27.2	27.2	26.5	25.1	24	23.1	22.7	22.6	22.4	22.1	23.2
9	21.9	22	22	22.1	22.2	22.3	22.9	24.4	26	27.7	28.3	29.2	29.9	30.3	30.7	31	30.9	30.6	28.7	27.3	25.9	24.7	23.9	23	26.2
10	22.5	22.4	22.4	22.2	22.1	22.1	23.2	24.6	25.8	26.6	27.7	29	29.6	29.9	30.5	30.8	30.6	29.8	28.6	27.4	23.6	21.3	21.5	21.7	25.7
11	21.6	21.7	21.7	21.5	21.5	21.7	22.1	23	25.3	27.1	28.3	29.5	29.8	30.1	30.8	30.8	27.6	25.5	23.4	22.6	22.4	21.8	21.2	21.3	24.7
12	21.2	20.8	19.9	19.6	19.2	18.5	18.1	18.1	19.2	20.8	21.4	21.8	22.3	22.4	22.5	22.2	21.9	21.6	20.9	19.5	18.5	17.9	17.3	16.3	20.1
13	15.9	16.9	17.1	16.8	16.5	16.5	19.5	21	21.7	22.6	23.2	23.9	24.6	24.9	24.6	24	24	23.9	23.7	23.4	22.9	22.7	22.8	22.8	21.5
14	22.6	22.3	22	21.9	22	22	22.2	22.6	23.8	25.1	25.5	25.9	26.2	27.5	27.7	27.6	27.2	26.7	26	25	24.2	23.7	23.2	22.9	24.4
15	22.9	22.8	22.8	22.7	22.8	23.1	23.6	24.5	25.2	26.3	26.9	27.7	28.5	28.9	29.5	29.7	29.5	28.8	27.9	26.8	25.9	25.4	25	24.8	25.9
16	24.6	24.4	24.2	23.9	23.8	23.9	24.2	24.8	25.7	25.9	25.4	25.7	26.7	27.6	29	28.7	27.5	25.8	26.1	25.5	25.1	24.9	24.7	24.3	25.5
17	24.1	23.9	23.6	23.6	23.8	23.7	23.1	23.2	23.9	24.9	25.5	26.1	26.6	27.7	28.4	29	29.4	29.6	28.7	27.5	26.8	26.3	26.2	25.7	25.9
18	25.1	24.6	24.3	24.1	24.1	24.5	24.9	25.6	26.7	28.1	29.6	30.9	31.9	32.8	33.2	33	32.3	30.1	25.7	24.6	24.2	23.5	23.2	23.2	27.1
19	22.9	22.7	22.8	22.9	22.6	22.7	23.8	25.3	27.1	28.3	29.3	30.4	30.5	29.7	30	28.2	29.1	29.7	27.5	26.5	25.7	24.8	24.2	24.1	26.3
20	24.7	24.4	23.6	23.3	22.9	22.2	21.7	21.7	21.7	22.3	22.3	22.4	22.8	23.3	22.9	23.1	22.8	22.3	21.3	19.9	19.4	19.3	19	19	22
21	18.8	19	18.8	18.4	18.4	19	20.7	21.6	22.5	23.1	23.5	23.8	24.5	24.7	24.9	25.5	24.6	23.8	23.8	23.6	23.3	23.1	22.9	22.8	22.3
22	22.8	22.6	22.3	22.2	22.3	22.4	23.5	25.1	25.2	26	27.7	29	29.7	27.8	29.2	29.5	29.8	28	27.6	27.1	26.6	26.2	26	25.8	26
23	25.5	25.1	25.1	24.8	24.2	24.3	25.1	26	27.2	28.2	29.1	30.2	30.4	29.9	30.1	27.3	24.4	24	23	22.9	22.9	22.9	22.9	22.7	25.8
24	22.6	22.4	22.3	22.2	22	22.1	22.5	22.8	23.3	23.9	23.9	26.4	26.4	25.2	25.6	27.4	27.6	27.2	26	24.8	24.2	23.8	23.5	23.2	24.2
25	23.1	22.9	22.6	22.5	22.7	23.1	23.8	24.9	26	26.9	27.4	28.5	29.1	29	27.4	23.1	23.6	23.8	22.7	22.4	22.5	22.5	22.4	22.5	24.4
26	22.7	23.3	23.5	23.4	23.4	23	23.1	23.5	23.9	23.5	22	21.2	21.8	23	23.6	25.4	26.4	25.5	25.1	23.8	22.9	22.5	21.9	21.8	23.3
27	21.9	22.1	21.4	21	20.5	20.2	21.4	22.4	22.5	23.7	24.3	23.7	23.5	24	23.3	23.4	23.5	23.3	23.1	22.8	22.6	22.4	22.2	22	22.6
28	21.6	21.4	21.7	21.6	21.6	22.1	22.5	23.3	24.5	24.4	25	24	22.2	21.7	22.1	23.8	24.8	23.6	22.7	22.3	22.1	21.7	21.4	21.4	22.7
29	21.6	21.9	21.9	21.4	21.1	21	21.8	23	24.1	25.7	26.7	27.4	27.8	28.3	27.8	26.6	25.9	24.9	24.1	23.2	22.6	22.2	22	21.8	23.9
30	21.8	21.6	21.7	21.8	22	22.3	23.2	24.6	25	22.2	22.8	25.5	26.3	26.9	27.1	26.4	25.1	24.8	25.2	24.9	24.1	24	23.9	23.5	24
Avg	22.1	22	21.7	21.5	21.4	21.5	22.1	23.1	24.1	24.9	25.5	26.3	26.6	26.9	27.1	26.9	26.5	25.8	24.8	24	23.3	22.8	22.5	22.2	24
SD	2.2	2	2	2.1	2.1	2.1	1.9	2.1	2.1	2.3	2.5	2.8	3.1	3.1	3.2	3.1	3	2.9	2.5	2.4	2.1	2.1	2.1	2.1	1.9
StA	0.1	0.09	0.09	0.1	0.1	0.1	0.09	0.09	0.09	0.09	0.1	0.11	0.12	0.12	0.12	0.11	0.11	0.11	0.1	0.1	0.09	0.09	0.09	0.1	0.08
Min	15.9	16	15.5	15.3	15.3	15.7	16.2	17.2	19.2	20.8	21.4	21.2	21	21.5	21.8	21.8	21.3	21.4	20.7	19.5	18.5	17.9	17.3	16.3	20.1
Max	25.5	25.1	25.1	24.8	24.2	24.5	25.1	26	27.2	28.3	29.6	30.9	31.9	32.8	33.2	33	32.3	30.6	29.4	27.7	26.8	26.3	26.2	25.8	27.1
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% 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 2004

Relative Humidity (Tower)
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	87.5	89.6	93	96.6	98.6	97.7	91.5	79.5	67.8	57	43.4	45.5	43.1	38.7	33.6	31.5	35.4	39.1	43.3	46.9	50.8	54.6	57.6	61.4	61.8
2	63.7	67.2	67.9	71.9	75.3	81.1	79.5	68.3	57.7	52.5	48.2	43.7	42.5	41.1	40.2	40	40.7	41	46.6	51.3	56.8	63.3	82.4	85.5	58.7
3	87.5	92.1	97.2	98.1	98.9	96.9	87.4	67.5	59.3	54.8	50.4	44.8	43.4	40.4	51.1	58.3	58.4	59.5	61.6	71	85.7	84.9	81.3	80.6	71.3
4	82.9	82.5	85.3	85.6	84.8	85.4	81.8	73.3	75.2	87.3	99.4	102.6	102.8	102.8	101.5	104.1	?	104.9 ?	104.4	?	104.9 ?	104.6	104.2	104.6	93.9 ?
5	104.9 ?	?	?	?	105 ?	104.8	104.1	101.7	98.3	93.8	87.6	83.1	81.5	79.7	78.2	76.4	80.1	82.1	83.1	87.5	91.9	95.5	97.6	99.5	91.3 ?
6	99.7	99.7	101.4	102.6	102.9	102.6	101.4	98.6	90.2	86.4	83.1	79.6	82.5	79.6	72.3	73.5	73.8	76.9	90.5	94.4	97	99.2	102.4	?	90.9
7	104.8	104.8	105 ?	?	?	?	?	104.5	103.1	101.1	100.2	98.6	96.1	95.6	96.6	96.9	97	98.7	100.4	101.5	103.3	104.3	104.8 ?	?	100.9 ?
8	?	?	?	?	?	104.4	103.3	100.9	97.5	95	90.3	81.7	75	75.6	79.3	79.6	84.5	90.9	95.9	99.7	101.8	102.6	103.1	103.8	92.9 ?
9	104.8	?	?	?	?	?	?	102.2 ?	96.8	87.3	83	75.9	72.4	70.4	66	62.5	64.6	67.6	83.3	86.1	84.1	86.3	90.3	95.6	82.2 ?
10	98.1	98.1	98.1	98.9	99.6	100	96.2	92.8	89.7	86.9	82	77.7	74.6	73.1	71.2	69.9	70.1	72.8	76.9	80.9	94.9	104.8	104.1	103	88.1
11	104.9 ?	?	?	?	?	?	104.2 ?	101.1	92	82.2	73.3	69	67.7	66.7	62.4	65.8	87.6	93.9	98.7	100.4	100.8	102.4	104.7 ?	?	87.7 ?
12	?	104.9 ?	105 ?	104.1	102.7	103	102.3	99.9	89.7	75.6	71.8	62.8	61.4	62.2	63.3	66.4	65.2	66	64.5	68.9	77.2	80.3	84.4	92.6	81.5 ?
13	93.2	83.7	81.9	81.5	81.3	87.4	79.8	71.6	73	71.4	69.2	67.8	67.9	70.6	72.9	76.7	78.8	79	78.7	78.3	79.1	81.8	80.1	79.5	77.7
14	82.2	84.5	86.7	87.9	88.3	88.3	89.1	88.7	83.2	77	76	76.7	75.4	71.4	70.5	72	74.8	78.8	81.7	85.1	88.3	91.8	95.3	95.1	82.9
15	95	95.6	95.5	95.4	95.3	93.7	92	88.1	84.3	79.4	75.2	73.7	72	71	69.7	68.5	70.6	74.3	78.9	84.2	88.3	92.6	95.3	95.6	84.3
16	95.2	96.6	98	98.9	99.5	99.4	98.9	96.8	92.4	90	93	93	88.3	85.4	77	80.4	88.1	98.6	95.8	96.5	97.5	97.2	95.6	95.2	93.6
17	96.1	98	100.3	101	101.1	102	104.5 ?	104.9 ?	103.6	100.6	99.1	97	95.7	92.4	90.6	88.5	87.4	86.6	89.8	95	97.5	99.1	99.1	100.4	97.1
18	102.2	103	103.5	104.2	104.5	103.6	102.9	101.3	97.6	93.1	86.9	80.7	75.7	70.8	67.2	69.6	74.7	80.3	99.1	102	103.3	101.2	103.4	103.9	93.1
19	104.4	104.9	105 ?	104.8	104.9 ?	?	103.6	97.3	90	80.5	76.1	71.1	70.4	74.7	78.4	90.4	89.1	83.4	89.4	91.4	95.3	98.1	100	99.7	91.4 ?
20	88.7	84.6	88.9	85.7	76.3	71.5	75.5	68.5	75.4	77.2	74.1	71.8	67.1	65.1	68.1	67.1	68	69.8	73.5	79.7	82.4	82.9	83.1	83.7	76.2
21	85.5	86	88.1	89.6	89.1	90.6	82.5	73.7	68.8	62.3	61.8	60.7	57.9	54.9	50.6	45	61.7	79.4	88.8	93.7	96.1	97.6	99	100.1	77.7
22	100.9	102.1	103.4	104.5	104.9 ?	?	103.6	98.4	97.8	94.5	80.6	74.6	74.1	85.9	80.2	81.7	81	89.5	91	95.9	98.4	99.6	102.5	103.1	93.4
23	104.3	104.9 ?	102.8	99.9	99.5	97.3	94.7	89.5	82.8	79.5	77.1	72.2	74.1	76.2	76.2	90.4	100.4	100	104.3 ?	?	?	?	?	?	90.8 ?
24	?	?	?	?	?	?	?	?	104.8 ?	102.5 ?	102.1	91.8	94.4	95.7	94.4	87.6	89.6	90.8	94.8	97.9	99.2	100.6	101.8	103.1	96.9 ?
25	103.9	104.6	105 ?	105 ?	?	104.8 ?	103.9	101	98.2	94.7	91.9	84.5	81.6	81.3	92.3	101.8	100.4	99.8	103.5	?	104.9 ?	104.8	?	?	98.4 ?
26	?	?	103.5 ?	101.5	101.2	101.1	101.7	99.4	93.3	96.1	102.7	104.1	103	99	96.1	89.2	82.5	84	87.4	94.7	99	100.2	102	102.4	97.5
27	99.2	90.9	95.3	92.2	90.6	90.8	87.8	86.5	84.8	77	68.2	72.7	77.5	76.2	80.6	82.9	80.9	82.3	85.5	88.1	91.7	94.9	97.3	99.7	86.4
28	102	104.2	104.4	104.6	104.9	?	?	104.7	102.5	101.2	97.1	100.3	103.4 ?	?	?	100.1 ?	97.9	102	103.7	104	104	104.8 ?	?	?	102.5 ?
29	?	?	?	?	?	?	?	101.7 ?	91.4	79.9	68.2	63	61.7	64.2	70.6	75.5	75.7	78.6	80.8	85.9	89.1	92.8	92.3	90.6	80.1 ?
30	92.9	97.4	99.8	102.1	102.9	102.2	100.6	96.9	94.4	96.9	94.6	87	89.2	86	84.5	88.6	88.8	96.1	93.6	95.2	98	98	98.2	100	95.1
Avg	95.4	94.8	96.5	96.4	96.2	95.8	94.9	91.7	87.9	83.8	80.2	76.9	75.7	74	73.6	76	77.5	81.6	85.7	87.3	91.8	93.8	94.9	94.9	87.2 ?
S D	9.9	9.9	9.3	8.9	9.4	8.8	9.5	12.6	12.9	13.9	15.9	16.2	16.7	16.4	16.2	17.4	15.8	16.1	15.6	14.3	13	12.1	10.8	10.3	10.7
S/A	0.1	0.1	0.1	0.09	0.1	0.09	0.1	0.14	0.15	0.17	0.2	0.21	0.22	0.22	0.22	0.23	0.2	0.2	0.18	0.16	0.14	0.13	0.11	0.11	0.12
Min	63.7	67.2	67.9	71.9	75.3	71.5	75.5	67.5	57.7	52.5	43.4	43.7	42.5	38.7	33.6	31.5	35.4	39.1	43.3	46.9	50.8	54.6	57.6	61.4	58.7
Max	104.9	104.9	105	105	105	104.8	104.5	104.9	104.8	102.5	102.7	104.1	103.4	102.8	101.5	104.1	100.4	104.9	104.4	104	104.9	104.8	104.8	104.6	102.5
n	289	262	255	266	259	260	287	327	354	356	360	360	356	348	348	353	348	356	354	324	340	341	317	288	7710

Data Recovery: 0.0% missing; 10.8% 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.

June 2004

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	24.3	23.6	22.7	21.6	20.5	19.8	20.9	23.3	26.4	28.8	30.5	31.4	31.3	31.3	31.7	32	32.1	31.6	29.8	27.4	25.4	23.7	22.5	21.7	26.4
2	21.2	20.8	20.4	20	19.1	18.5	19.7	22.7	25.9	28.4	30.4	31.5	32.1	32.3	32.9	33.5	33.7	33.3	32.2	29.8	27.4	26.1	25.4	24.8	26.7
3	24.1	23.3	22.4	22	21.8	21.4	21.9	24.3	27.2	29.3	31.5	33	33.7	34.3	35	32.4	30.8	30.4	28.7	26.2	24.1	22.8	22	21.8	26.9
4	21.7	21.8	21.8	21.8	22	22.2	22.8	23.9	24.7	25	24.8	23.7	22.5	21.6	21.5	21.5	21.7	21.6	21.4	20.9	20.9	21	20.7	20.6	22.2
5	20.6	20.7	20.6	20.6	20.6	20.3	20.4	20.9	21.9	24	26	27.4	28	28	28	27.8	27.1	25.4	24	22.2	20.3	18.9	17.9	17.2	22.9
6	16.5	16	15.5	15	14.8	14.8	15.6	17	19.9	23.5	26.1	27.7	28.7	28.1	28.7	30.3	30.1	29.1	27.2	25.2	23.7	22.7	22	21.2	22.5
7	20.6	20.5	20.4	20.2	20.2	20.5	21	21.7	22.6	23.5	24.1	24.9	25.9	26.6	26.3	25.8	25.3	24.4	23.4	22.4	21.4	20.8	20.6	20.7	22.7
8	20.7	20.7	20.6	20.6	20.7	20.9	21.2	21.9	23.5	25.1	26.6	28.6	30.3	31.3	31.9	32.1	31.8	30	27.3	25.1	23.5	22.6	22.2	21.9	25.1
9	21.6	21.6	21.6	21.7	22	22.2	22.7	24.2	27	29.8	31.9	32.5	33.2	33.5	34	34.4	34.6	34.2	32.7	30	27.9	26.2	24.9	23.8	27.8
10	22.9	22.5	22.4	22.2	22	21.9	22.9	25	27.2	28.9	30.1	31.4	32.2	32.6	33.2	33.9	34.3	33.5	31.6	29.6	27.6	24.1	22.4	21.8	27.3
11	21.6	21.6	21.6	21.6	21.5	21.7	22	22.8	25.3	29	31.2	32.8	33.9	33.9	34.5	35.6	34.1	31.1	28.1	25.3	23.9	23.1	22.2	21.7	26.7
12	21.6	21.4	20.9	20.2	19.7	19.2	18.8	18.8	19.6	21.9	23.8	24.7	24.9	25.1	25.5	25.9	25.9	25.3	24.3	21.9	19.1	17.4	16.4	15.3	21.6
13	14.3	14	14.2	14.3	14.3	14.2	16.4	20.2	23.1	25.3	27	27.8	28.6	29.1	28.9	27.8	26.4	25.6	25	24.4	23.7	23.1	23	23	22.2
14	22.9	22.7	22.5	22.2	22.1	22.1	22.3	22.7	23.8	26.2	28.4	29.4	30	30.5	31.3	31.6	31	29.9	29.1	27.3	25.4	24.3	23.5	22.9	26
15	22.6	22.5	22.4	22.4	22.4	22.7	23.2	24.5	26.1	28.3	29.7	30.7	31.5	32.4	33.1	33.6	33.7	32.7	30.8	28.9	27.3	26.3	25.6	25.1	27.4
16	24.8	24.6	24.4	24.2	24	23.9	24.1	24.9	26.2	27.6	27.6	26.7	27.6	28.7	30.5	31.8	31.2	28.3	27	26.6	25.9	25.4	25	24.7	26.5
17	24.4	24.2	24	23.8	23.9	24	23.7	23.5	23.7	24.9	26.4	27.3	27.9	28.9	30.4	31.4	32	32.1	31.7	29.7	27.9	26.9	26.5	26.2	26.9
18	25.7	25.2	24.8	24.4	24.3	24.5	25	25.9	27.2	29.4	31.5	33.2	34.4	35.3	36.3	36.6	35.9	34.1	29.5	26.3	25	24	23.3	23.1	28.5
19	22.9	22.8	22.7	22.7	22.7	22.7	23.4	25.3	27.7	30.4	32.2	34.4	35.6	35.2	33.8	33.9	32.7	33.7	32.4	29.3	27.2	25.5	24.2	23.8	28.2
20	23.9	24.3	24.2	23.8	23.6	23.2	22.7	22.8	23.2	24.3	25.5	26	26.3	26.7	27	27.2	27.7	27	25.6	23	20.2	19	18.2	17.8	23.9
21	17.4	17.3	17.2	16.8	16.4	16.5	18.5	21.4	23.8	25.5	26.8	27.6	27.6	27.9	28.5	29.2	29.3	27.5	25.9	24.8	23.9	23.3	22.7	22.4	23.3
22	22.3	22.1	21.9	21.8	21.9	22	22.6	25.1	26.4	27	29.2	31.7	33.2	32.8	32.4	33.5	34	33.1	30.5	29	27.5	26.6	26.1	26	27.4
23	25.8	25.5	25.1	24.9	24.6	24.2	24.7	26.6	28.9	31.1	33.3	34.8	35.3	35	34.1	33.2	28.3	25.2	24	23.5	23.2	23	23	23	27.5
24	22.9	22.8	22.7	22.5	22.4	22.2	22.4	22.9	23.4	24	25	26.2	28.7	28.5	28	29.6	32	31.7	30.1	27.7	25.7	24.3	23.5	22.9	25.5
25	22.6	22.5	22.3	22	22.1	22.4	23	24.4	26.6	28.9	30.3	32	33.2	33.1	31.9	27.8	24.9	25.3	24.6	23.4	22.9	22.7	22.6	22.7	25.6
26	22.7	22.9	23.2	23.1	23	23.3	23.5	23.9	25.1	25.9	24.4	22.8	22.3	22.8	24.4	26.5	29.3	29.7	27.9	26.1	24.1	22.8	22.1	21.6	24.3
27	21.4	21.8	21.6	20.8	20.1	19.7	20.4	22.3	23.2	24.1	26	26.4	25.7	26.1	26.2	25.1	25.9	25.6	24.8	23.9	23	22.5	22	21.6	23.3
28	21.4	21.2	21.3	21.5	21.6	21.7	22.1	22.8	24.2	25.5	25.2	26.2	24.9	23.2	22.7	23.4	25.7	25.9	24.1	23	22.4	21.9	21.5	21.5	23.1
29	21.6	21.9	22.1	21.9	21.7	21.4	21.8	23.1	24.8	27.4	29.7	31.1	31.9	32.4	32.7	32.3	31.3	30.1	28.1	25.7	23.5	22.3	21.6	21.2	25.9
30	20.9	20.9	20.8	20.8	21.1	21.4	22	24.2	26	26.1	24.2	25.6	28.5	30	30.9	30.7	28.7	26.6	25.8	25.7	24.7	23.8	23.5	23.2	24.8
Avg	21.9	21.8	21.6	21.4	21.2	21.2	21.7	23.1	24.8	26.6	28	29	29.7	29.9	30.2	30.3	30	29.1	27.6	25.8	24.3	23.2	22.6	22.2	25.3
S D	2.5	2.5	2.4	2.4	2.5	2.5	2.2	2	2.2	2.4	2.9	3.3	3.7	3.8	3.8	3.7	3.5	3.5	3.1	2.6	2.4	2.3	2.3	2.4	2.1
S/A	0.11	0.11	0.11	0.11	0.12	0.12	0.1	0.09	0.09	0.09	0.1	0.12	0.12	0.13	0.12	0.12	0.12	0.12	0.11	0.1	0.1	0.1	0.11	0.08	
Min	14.3	14	14.2	14.3	14.3	14.2	15.6	17	19.6	21.9	23.8	22.8	22.3	21.6	21.5	21.5	21.7	21.6	21.4	20.9	19.1	17.4	16.4	15.3	21.6
Max	25.8	25.5	25.1	24.9	24.6	24.5	25	26.6	28.9	31.1	33.3	34.8	35.6	35.3	36.3	36.6	35.9	34.2	32.7	30	27.9	26.9	26.5	26.2	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% 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.

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

June 2004

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	3.2	2.8	2.1	1.6	1.1	1.1	2.1	2.1	2.4	3.1	3.7	4.5	5.1	5.3	5.9	5.2	4.5	3.8	2.7	1.5	1.3	1.3	1.8	1.6	2.9
2	1.8	1.6	1.8	1.4	1.4	1.7	2	2.5	3.3	3.4	4	3.9	4.2	4.4	4.1	4.2	4.1	3.5	2.4	1.7	1.9	2.6	3	2.7	2.8
3	1.8	1.8	2	1.9	2	1.3	1.2	1.9	2.3	1.4	1.8	1.7	1.6	1	2.8	3.8	3.9	3.8	3.2	2.9	2.7	2.4	2.5	2.7	2.3
4	2.5	2.3	2.3	2.4	2.7	2.7	3.4	4.3	3.8	4.1	4.5	5.2	5	5.1	4.2	4.4	3.8	4.4	1.4	1	2.4	0.9	0.7	1.6	3.1
5	1.7	1.4	1.3	0.8	1	0.6	1.2	2.2	2.8	3	2.8	2.8	3.4	3.6	3.9	3.5	3.2	2.2	1.9	1.6	1.2	1.4	1.7	1.8	2.1
6	2.1	2.3	1.4	1.2	1.1	0.5	1.4	1.4	1.1	0.8	1.5	1.8	1.5	0.8	0.8	1.6	1.6	1.9	2.5	2.6	2.2	2.9	2.6	2.7	1.7
7	2.6	2	1.2	1.5	1.6	1.7	1.6	1.6	1.6	1.7	2.2	2.5	2.5	2.7	2.8	2.9	2.7	2.8	2.8	1.8	1.3	1.1	1	0.9	2
8	0.8	1	1.1	1	1.1	1.4	2.2	1.7	1.2	1.8	1.6	1.5	1.7	2.7	3.3	3	3.4	3.1	2.6	1.7	1.4	1.1	0.6	0.3	1.7
9	0.5	0.2	0.6	1	1.1	1	1.2	1.8	2	2.8	3.1	3.2	3.4	3.5	3.7	3.4	3.5	3.6	3.2	3.9	3.6	3.2	2.4	1.8	2.4
10	2.2	2.6	2.8	2.1	1.9	2.4	3.6	4.2	4.7	4.5	4.2	3.8	4.4	4	3.7	3.6	3.8	3.2	1.8	1.9	4	1.8	1.8	1.3	3.1
11	1.4	1.9	1.5	1.1	1.1	1.3	1.2	1.2	1.4	2.5	2.7	2.6	2.7	2.8	2.2	2.4	3.6	3.9	4.1	4.3	5.1	5	1.8	2.9	2.5
12	2.3	2.8	3.5	3.5	3.5	2.7	3.2	2.8	3	4.2	4.3	4.7	4.4	4.3	4.5	4.7	4.5	3.8	2.9	2.2	1.6	1.4	0.8	0.6	3.2
13	0.8	1.1	1.2	1.4	1	0.9	0.5	1.9	2.5	2.6	3.2	2.7	3	3.3	4	3.7	3.4	2.3	2.7	1.7	2	1.7	2	1.7	2.1
14	1.1	1.2	1	0.9	1.3	1.5	1	1.1	1.9	2.9	2.9	3.2	3.8	3.4	4.1	3.8	3.2	3.5	2.8	2.3	2.1	1.8	1.4	1.8	2.3
15	1.8	2.1	1.5	1.6	1.6	1.5	1.8	2.6	3.4	3.9	4.2	4	3.5	3.5	3.3	3.3	3.4	3.2	2.4	1.9	2.1	1.6	1.5	1.6	2.5
16	2.1	2.1	2.2	2.1	1.5	1.6	1.6	2.3	2.4	2.9	2.3	2.1	2.1	2.2	3	2.4	2.8	2.2	2.1	2.2	1.6	1.8	2.5	2.7	2.2
17	2.6	2.6	2.2	2.2	2.6	2.6	2.2	2	2.9	3.1	3.2	3.9	4	3.8	2.9	3.2	2.9	2.8	1.8	1.5	1.8	2.4	2.2	2.7	2.7
18	2.3	2.6	2.4	2.2	2.2	2.5	2.5	3.4	4.1	4	3.6	3.6	3.6	3.6	4.2	3.5	3	1.7	1.6	0.8	0.9	1.5	2.1	0.7	2.6
19	1.2	1.3	1.8	1.8	1.3	1.5	1.6	1.9	2.5	2.4	1.5	0.9	0.8	1.4	1.7	2.7	0.9	1.6	2.4	1.6	0.3	0	0.1	0.5	1.4
20	1.4	1.1	1.4	2.5	2.9	4	2.8	3.9	3.9	4.3	3.9	4	3.4	3	3.5	2.8	3	2.7	2.5	2.5	2.5	1.6	1.4	1.1	2.8
21	1.4	1.5	1.1	0.8	0.7	1	1.5	2.6	2.8	3.2	3	3.4	3.3	3.6	3.6	2.6	2.6	2.8	2.5	2.1	1.2	1	0.9	1	2.1
22	0.3	0.2	0.6	0.8	0.8	0.4	1.7	2	2	2.1	2.7	2.6	3	4.5	3.3	3.5	3	3.3	2.7	2	1.6	1.9	2	2.2	2.1
23	2.1	1.3	2.1	2.1	1.4	2.2	1.7	2.7	2.2	1.7	1.6	2.1	2.9	3.2	2.7	2.8	2.6	2.4	1.2	1.7	0.2	0.2	0.6	0.2	1.8
24	0.6	0.3	0.3	0.9	0.4	0.1	0.4	0.3	0.8	1.3	0.6	0.6	0.5	2.3	1.8	1.3	1.8	1.7	1.9	1.8	1.1	0.4	0.1	0.1	0.9
25	0.1	0	0	0.2	0.5	0.6	1	2	2.1	1.7	2.1	2.7	3.2	3.9	3.6	4.7	2.9	1.3	1.7	2.8	2.3	1.5	0.8	0.5	1.8
26	1.2	1.5	2.8	3.5	4.4	4.7	4	2	1.6	0.7	1.7	1.7	1.5	1.8	1.1	1.1	1.6	1.3	0.7	1.1	1	0.8	0.6	0.5	1.8
27	0.9	0.3	0.3	0.5	0.9	0.4	0.4	1.1	0.8	2.1	2.3	1.4	1.8	1.6	1.1	1.6	2.2	2.4	1.4	0.4	0.7	0.3	0.3	0.4	1.1
28	0.3	0.5	0.6	0.6	0.6	0.8	0.8	1.5	1.6	1.5	2.2	2.5	2.8	1.3	1.4	2.2	1.8	1.8	1.2	0.5	0.2	0.1	0.8	0.3	1.2
29	1	1.4	0.5	0.7	0.8	0.3	0.7	1	2.7	2.3	2.2	2	1.6	1.8	2.7	3.6	3.2	3.4	2.4	1.7	1.8	1.4	1.3	1.2	1.7
30	1.4	1.2	0.6	1	1.3	0.6	1	1.7	1.8	3.4	2.8	2.3	3.1	3.9	4.2	4.5	2.6	1.9	2	1	1.3	1.4	0.7	0.7	1.9
Avg	1.5	1.5	1.5	1.5	1.5	1.5	1.7	2.1	2.4	2.7	2.7	2.8	2.9	3.1	3.1	3.2	3	2.7	2.3	1.9	1.8	1.6	1.4	1.4	2.2
S D	0.8	0.8	0.8	0.8	0.9	1.1	1	0.9	1	1.1	1	1.1	1.2	1.2	1.2	1	0.9	0.9	0.7	0.9	1.1	1	0.8	0.9	0.6
S/A	0.52	0.55	0.57	0.54	0.6	0.71	0.55	0.43	0.41	0.4	0.36	0.41	0.4	0.39	0.37	0.32	0.29	0.31	0.32	0.46	0.6	0.65	0.57	0.66	0.28
Min	0.1	0	0	0.2	0.4	0.1	0.4	0.3	0.8	0.7	0.6	0.6	0.5	0.8	0.8	1.1	0.9	1.3	0.7	0.4	0.2	0	0.1	0.1	0.9
Max	3.2	2.8	3.5	3.5	4.4	4.7	4	4.3	4.7	4.5	4.5	5.2	5.1	5.3	5.9	5.2	4.5	4.4	4.1	4.3	5.1	5	3	2.9	3.2
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% 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 2004

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	273	275	272	272	273	270	271	287	287	274	281	254	254	259	267	281	274	278	276	268	242	228	231	227	268
2	230	232	249	231	238	223	224	225	240	255	252	255	235	230	234	230	225	225	219	212	211	207	212	233	232
3	246	212	239	252	276	286	244	295	304	329	1	352	303	269	114	95	91	90	87	77	78	81	102	89	74
4	88	87	83	76	79	85	89	93	86	93	101	107	113	91	93	91	108	98	107	165	171	200	204	224	100
5	233	230	225	239	231	240	244	237	251	243	254	267	262	253	258	264	281	280	277	293	300	297	294	300	262
6	307	315	307	299	318	315	332	351	32	155	120	103	192	264	210	71	86	90	99	86	70	70	81	78	62
7	86	80	65	48	54	63	76	59	57	44	38	51	58	52	65	66	64	62	64	61	76	73	70	88	62
8	57	46	67	74	53	53	58	64	84	112	125	95	59	81	87	93	115	123	135	131	114	135	138	141	95
9	178	176	203	219	220	229	244	241	246	216	242	233	233	226	232	237	241	223	200	226	246	245	233	223	231
10	229	224	230	225	217	229	232	230	230	237	230	229	226	228	225	218	231	225	218	82	353	86	165	200	227
11	254	258	255	254	268	280	290	287	282	291	307	307	303	310	300	29	78	79	70	77	79	69	58	58	16
12	69	353	28	39	32	31	35	2	18	21	29	31	42	47	61	64	64	66	63	67	59	47	22	354	41
13	25	60	69	51	45	45	74	88	85	81	85	85	110	101	116	113	130	155	160	161	165	166	173	187	112
14	188	171	166	164	171	150	168	163	184	182	201	188	195	200	207	196	187	184	185	190	189	175	192	199	188
15	187	191	186	188	196	198	197	197	208	215	218	211	197	197	199	202	186	191	190	178	168	173	179	190	197
16	190	203	205	217	203	201	201	204	202	214	221	199	207	197	197	185	183	167	191	195	193	198	194	202	199
17	204	212	207	203	204	219	214	207	211	211	217	228	223	214	198	197	205	218	223	212	201	206	206	204	211
18	201	203	208	212	210	215	206	223	241	242	248	246	243	243	244	231	233	109	40	333	244	253	231	239	231
19	237	234	270	277	263	260	284	331	6	23	42	19	270	284	259	164	173	68	103	132	230	209	217	330	292
20	356	356	333	354	6	4	3	29	28	44	46	60	57	61	69	69	75	65	69	76	78	92	104	109	46
21	106	95	89	106	95	69	77	89	87	91	102	106	88	95	111	109	124	119	122	128	137	138	133	130	105
22	141	138	140	152	168	153	162	212	225	222	230	208	175	165	179	194	173	177	199	204	195	198	208	225	192
23	229	212	234	230	213	232	240	265	285	265	211	224	204	232	236	66	46	40	31	98	256	32	260	282	235
24	257	227	278	282	291	298	243	241	230	234	212	80	71	79	93	91	70	65	73	78	80	87	76	90	84
25	94	93	0	94	103	109	120	135	161	177	172	165	161	151	129	329	356	46	29	126	145	142	213	154	138
26	150	184	209	219	232	234	235	264	286	290	311	334	337	356	353	313	307	317	298	255	251	252	218	231	257
27	308	322	323	332	1	347	3	18	51	70	67	63	44	66	71	73	96	122	128	117	116	88	96	101	68
28	12	66	31	43	48	51	50	66	70	94	106	58	23	39	4	4	47	74	57	33	5	306	253	235	49
29	246	258	264	265	276	264	279	320	359	17	40	37	44	69	81	104	102	119	119	123	109	107	127	139	83
30	142	128	126	126	138	126	122	98	87	31	85	74	93	93	104	127	140	139	133	137	119	124	130	132	109
Avg	211	217	227	231	230	233	224	233	250	226	203	186	193	174	167	139	136	127	126	130	137	145	181	185	159
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% 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.

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

June 2004

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	5.4	5.2	3.6	2.6	2	1.9	3.8	4.8	5.1	5.6	7.5	7.5	9	8.9	10.8	9.8	8.4	7.5	5.2	2.6	1.9	2	2.5	2.5	5.3
2	2.5	2.5	2.7	1.9	2.1	2.4	3.1	3.9	5.4	5.9	6.4	6.9	7.2	7.6	7.1	7.2	6.6	5.8	4.1	2.7	3	4.1	5.2	4.3	4.6
3	2.9	2.9	3.3	3.1	3.6	2.5	2.1	4.1	4.6	2.9	3.8	3.5	3.4	2.6	4.6	6.3	6.3	6	5.3	4.5	4.1	4	4	4.5	4
4	4.3	3.9	3.7	4.1	4.3	4.7	5.6	7.1	6.4	6.8	7.3	8.8	8.5	9.6	7.1	7.4	6.7	7.8	3.2	2.3	4.7	2.3	1.8	2.9	5.5
5	3.2	2.4	2.5	1.9	2	1.6	2.4	3.7	4.8	5	4.7	5.1	5.7	5.8	6.5	6.1	6.1	4.2	3.9	3.2	2.7	2.9	3.4	4	3.9
6	4.2	4.5	2.8	2.4	2.4	1.4	2.9	2.8	2.2	1.9	3	3.2	2.7	1.7	2.1	2.7	2.6	3.1	4.1	4.2	3.7	4.4	4.3	4.5	3.1
7	4.4	3.7	2.4	2.8	2.9	3.2	2.8	3.1	3	3.1	3.7	4.2	4.1	4.6	4.7	4.8	4.4	4.6	4.8	3.3	2.3	2.2	1.9	1.7	3.4
8	1.6	2.1	2	2	2.1	2.6	3.6	3.1	2.5	2.9	2.8	3	3	4.2	5.1	4.6	5.6	4.7	4.3	2.6	2.1	2	1	0.8	2.9
9	1.4	0.8	1.3	1.9	1.9	2	2.3	3	3.5	4.6	5.2	5	5.9	5.8	6.3	5.9	5.7	5.7	5.6	6.8	6	5	4	3.1	4.1
10	3.5	4.2	4.6	3.4	3.2	3.9	5.6	6.8	7.7	7.1	6.7	6.4	7.2	6.6	6.1	5.9	6	5.3	3	3.4	7.6	3	3.2	2.3	5.1
11	2.4	3	2.6	2	2.3	3.2	3	2.9	3.2	4.8	5.3	5.8	5.5	5.5	4.6	4.3	5.9	6.2	6.6	6.9	8	9.1	3.3	5.1	4.7
12	4.4	4.9	6.4	6.5	6.5	5.3	6.1	5.4	6.1	7.6	7.7	8	7.7	7.5	7.5	7.8	7.5	6.4	4.9	4	3	2.5	1.5	1.2	5.7
13	1.4	1.9	2	2.1	1.8	1.6	1.3	3.4	4	4.2	4.9	4.7	5	5.5	6.5	5.9	5.5	3.9	4.6	3.1	3.4	3.3	3.7	3.5	3.6
14	2.2	2.3	1.9	1.7	2.5	2.4	2	2.1	3.4	5.4	5.1	5.5	6.2	6.1	7.1	6.7	6.2	6.2	5.5	4.5	4	3.1	2.6	3.1	4.1
15	3.4	3.6	3.1	3.1	2.9	2.7	3.5	4.7	5.7	6.7	6.9	6.4	6.3	6.2	5.9	6.1	6.2	5.6	4.4	3.7	3.6	2.9	2.8	3.1	4.6
16	3.9	3.8	3.7	3.5	2.7	2.8	3.1	4	4.7	5.3	4.1	3.5	3.8	4	5.1	4.4	5.3	3.7	3.8	3.8	3	3.1	4.5	4.8	3.9
17	4.6	4.7	3.9	3.9	4.4	4.5	3.9	3.8	5.2	5.3	5.4	6.7	6.7	6.3	4.9	5.3	5	4.6	3.3	2.5	3.2	4	3.7	4.6	4.6
18	3.9	4.4	3.9	3.7	3.9	4.1	4.2	5.3	6.4	6.5	6.1	6.1	5.9	6.2	6.8	5.5	5.3	3.4	3	2	2	2.3	3.5	1.5	4.4
19	2.4	2.3	3.5	3.9	2.5	2.8	3.5	3.9	4.5	4.2	3	2.4	2	3	3.3	4.4	1.9	3.1	4	2.5	0.8	0.3	0.4	1	2.7
20	2.7	2.2	2.8	4.4	5.4	6.7	5.2	7.1	7.3	7.5	6.5	7	5.6	5.7	5.7	4.9	4.9	4.5	4.3	3.9	4.3	2.9	2.6	1.9	4.8
21	2.3	2.6	2	1.6	1.5	1.8	2.5	4.4	4.7	5.3	5.3	5.6	5.3	5.9	5.8	4.6	4.1	4.4	4.2	3.6	2	1.6	1.7	1.6	3.5
22	0.7	0.6	1.1	1.4	1.6	1	2.9	3.5	3.5	3.9	4.9	4.4	5.6	7.1	5.8	6.1	5.5	5.9	5.1	3.5	2.9	3.4	3.4	3.4	3.6
23	3.4	2.4	3.5	3.4	2.5	3.8	2.9	4.7	4.3	3.4	3.2	4.1	4.9	5.5	4.7	4.8	4.7	4.4	2.5	3.2	0.8	0.9	1.7	0.7	3.4
24	1.4	0.9	1	2.4	1.5	0.6	1.2	1	1.7	2.3	1.6	1.8	1.1	3.7	3.1	2.7	3.4	2.8	3.1	2.9	1.9	1.1	0.6	0.5	1.9
25	0.3	0.1	0	0.4	1.3	1.6	2.1	3.3	3.4	3.1	3.9	4.7	5.8	6.1	7.1	8.2	5.2	2.6	3.1	4.6	4	2.7	1.9	1.5	3.2
26	2.5	3.2	4.8	5.9	7.6	7.9	7	4.3	3.5	2	4.2	3.6	3	3.7	2.6	2.9	3.5	3.2	1.9	1.7	1.7	1.5	1.5	1.3	3.5
27	2.8	1.1	0.6	1.6	2	1.4	1.1	2.3	1.7	3.6	4	2.5	3.1	2.9	2.1	2.9	3.6	4	2.3	1	1.2	0.8	0.6	0.8	2.1
28	0.8	0.9	1.1	1.3	1.2	1.6	1.5	2.5	2.8	2.5	3.4	4.1	4.9	2.5	2.7	3.8	3.3	3	2.6	1.3	0.6	0.4	1.7	1	2.2
29	2.2	2.7	1.5	1.9	1.9	1	2.4	3	4.4	4.3	4.2	3.6	3.1	3.4	4.7	5.9	5.3	5.3	4.1	2.8	2.8	2.3	2.1	1.9	3.2
30	2.2	1.9	1.4	1.6	2.3	1.3	1.9	2.8	3.4	5.6	4.6	4	5	6.1	7	7	4.2	3.2	3.2	1.8	2	2.2	1.7	1.2	3.2
Avg	2.8	2.7	2.7	2.7	2.8	2.8	3.2	3.9	4.3	4.6	4.8	4.9	5.1	5.4	5.4	5.5	5.2	4.7	4	3.3	3.1	2.8	2.6	2.5	3.8
SD	1.3	1.4	1.4	1.3	1.5	1.7	1.5	1.4	1.5	1.7	1.5	1.8	1.9	1.9	1.9	1.7	1.4	1.4	1.1	1.3	1.8	1.7	1.3	1.4	1
S/A	0.46	0.5	0.52	0.49	0.54	0.61	0.47	0.37	0.36	0.36	0.32	0.36	0.37	0.35	0.35	0.31	0.27	0.3	0.27	0.41	0.56	0.61	0.49	0.58	0.26
Min	0.3	0.1	0	0.4	1.2	0.6	1.1	1	1.7	1.9	1.6	1.8	1.1	1.7	2.1	2.7	1.9	2.6	1.9	1	0.6	0.3	0.4	0.5	1.9
Max	5.4	5.2	6.4	6.5	7.6	7.9	7	7.1	7.7	7.6	7.7	8.8	9	9.6	10.8	9.8	8.4	7.8	6.6	6.9	8	9.1	5.2	5.1	5.7
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% 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 2004

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	1003	1003	1003	1004	1004	1005	1006	1006	1007	1007	1007	1006	1006	1006	1006	1006	1007	1007	1007	1008	1009	1009	1009	1009	1006
2	1009	1010	1010	1010	1010	1011	1011	1012	1012	1012	1012	1013	1012	1012	1011	1011	1011	1011	1011	1012	1012	1013	1013	1013	1011
3	1014	1013	1013	1013	1014	1015	1015	1015	1016	1016	1017	1016	1016	1016	1016	1016	1016	1016	1017	1017	1018	1018	1018	1018	1016
4	1018	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1016	1016	1016	1015	1014	1013	1013	1012	1012	1012	1012	1012	1012	1015
5	1012	1012	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013	1012	1013	1013	1013	1013	1013	1014	1014	1014	1014	1015	1015	1013
6	1014	1015	1015	1015	1015	1015	1016	1017	1017	1017	1017	1017	1017	1016	1016	1016	1016	1015	1016	1016	1017	1017	1017	1017	1016
7	1017	1016	1016	1016	1017	1017	1018	1018	1019	1019	1020	1020	1019	1020	1020	1019	1019	1019	1019	1019	1020	1020	1020	1021	1019
8	1020	1021	1021	1021	1021	1022	1022	1022	1023	1023	1023	1023	1023	1022	1022	1021	1021	1021	1020	1020	1020	1021	1021	1021	1021
9	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1019	1018	1017	1016	1016	1016	1016	1016	1015	1016	1017	1016	1016	1018
10	1016	1015	1015	1014	1014	1014	1014	1014	1014	1014	1013	1013	1012	1011	1011	1010	1009	1009	1010	1010	1011	1012	1011	1011	1012
11	1010	1010	1010	1010	1009	1010	1010	1010	1010	1010	1011	1011	1010	1010	1010	1009	1009	1009	1010	1010	1009	1009	1009	1008	1010
12	1008	1009	1010	1010	1011	1013	1014	1015	1015	1016	1017	1017	1017	1017	1018	1017	1017	1018	1019	1019	1019	1020	1021	1021	1016
13	1021	1020	1020	1020	1020	1020	1021	1022	1022	1022	1021	1021	1021	1021	1020	1020	1019	1019	1019	1019	1019	1019	1020	1020	1020
14	1020	1019	1019	1019	1019	1019	1019	1019	1020	1019	1019	1019	1018	1018	1017	1017	1016	1016	1016	1017	1017	1018	1019	1018	1018
15	1018	1018	1017	1017	1018	1018	1018	1019	1019	1019	1019	1018	1018	1018	1018	1017	1017	1017	1017	1017	1018	1019	1019	1019	1018
16	1019	1018	1018	1018	1019	1019	1020	1020	1020	1020	1020	1020	1020	1019	1019	1019	1018	1018	1019	1019	1019	1019	1019	1019	1019
17	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1017	1017	1016	1015	1015	1014	1015	1015	1015	1015	1015	1015	1017
18	1015	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014	1013	1012	1012	1011	1011	1011	1012	1012	1012	1011	1012	1012	1013
19	1011	1011	1010	1010	1010	1011	1011	1011	1011	1012	1011	1011	1011	1010	1010	1010	1010	1010	1011	1011	1011	1012	1012	1012	1011
20	1012	1012	1012	1012	1013	1014	1014	1015	1016	1016	1016	1016	1016	1016	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015
21	1015	1014	1014	1015	1015	1016	1016	1016	1016	1016	1016	1016	1016	1015	1015	1014	1014	1013	1013	1013	1013	1013	1013	1012	1015
22	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1011	1011	1011	1010	1009	1009	1009	1009	1009	1009	1010	1010	1010	1011	1011
23	1010	1010	1010	1009	1010	1010	1011	1012	1012	1012	1012	1012	1011	1011	1011	1012	1012	1012	1013	1013	1013	1014	1013	1013	1012
24	1013	1013	1012	1012	1012	1013	1014	1015	1015	1015	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1015
25	1017	1016	1016	1016	1017	1017	1017	1017	1017	1017	1017	1016	1016	1014	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1015
26	1011	1011	1010	1009	1009	1010	1011	1011	1011	1011	1012	1012	1012	1012	1012	1012	1012	1012	1012	1013	1013	1014	1015	1016	1012
27	1016	1017	1017	1017	1017	1018	1019	1019	1020	1020	1020	1020	1020	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018
28	1018	1017	1017	1017	1016	1016	1017	1016	1016	1016	1015	1015	1014	1014	1014	1013	1013	1014	1014	1014	1014	1014	1015	1015	1015
29	1015	1015	1015	1015	1016	1016	1017	1017	1018	1018	1019	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1019	1019	1019	1018
30	1019	1019	1019	1019	1019	1019	1020	1021	1021	1021	1021	1021	1020	1020	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1020
Avg	1015	1015	1014	1014	1015	1015	1015	1016	1016	1016	1016	1016	1016	1015	1015	1014	1014	1014	1015	1015	1015	1015	1016	1015	1015
SD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	3	3	3	4	4	4	4
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
Min	1003	1003	1003	1004	1004	1005	1006	1006	1007	1007	1007	1006	1006	1006	1006	1006	1007	1007	1007	1008	1009	1009	1009	1008	1006
Max	1021	1021	1021	1021	1021	1022	1022	1022	1023	1023	1023	1023	1023	1022	1022	1021	1021	1021	1020	1020	1020	1021	1021	1021	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	360	8640

Data Recovery: 0.0% missing; 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 2004

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

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