

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

March 2005

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	11	92	302	327	695	703	761	698	454	304	214	49	0	0	0	0	0	0	4611
2	0	0	0	0	0	0	15	136	348	540	693	786	818	771	652	477	267	70	0	0	0	0	0	0	5572
3	0	0	0	0	0	0	15	146	361	556	707	799	821	770	651	475	263	64	0	0	0	0	0	0	5625
4	0	0	0	0	0	0	17	153	366	560	714	806	830	776	653	472	250	54	0	0	0	0	0	0	5652
5	0	0	0	0	0	0	15	95	147	112	375	242	155	85	180	97 ?	22 ?	8	0	0	0	0	0	0	1533 ?
6	0	0	0	0	0	0	39	155 ?	395	555	703	793	807	766	649	474	265	68	0	0	0	0	0	0	5669
7	0	0	0	0	0	0	18	153	367	550	704	804	827	772	629	476	268	52	0	0	0	0	0	0	5620
8	0	0	0	0	0	0	5	32	61 ?	146	228	330	86 ?	295	177	459	231	82	0	0	0	0	0	0	2132
9	0	0	0	0	0	0	27	177	379	596	734	840	851	760	575	483	246	90	4	0	0	0	0	0	5764
10	0	0	0	0	0	0	15	168	392	595	747	834	854	804	675	504	254	77	1	0	0	0	0	0	5922
11	0	0	0	0	0	0	33	107	261	491	631	672	777	643	483	233	143	85	0	0	0	0	0	0	4560
12	0	0	0	0	0	0	37	181	229	223	127	524	834	782	635	495	272	83	5	0	0	0	0	0	4426
13	0	0	0	0	0	0	28	138	233	320	558	556	824	770	637	469	266	75	7	0	0	0	0	0	4882
14	0	0	0	0	0	0	1	20 ?	38	58 ?	120	230	380	484	265	385	283	81	1	0	0	0	0	0	2346
15	0	0	0	0	0	0	36	198	422	617	765	858	878	819	694	510	298	67	5	0	0	0	0	0	6167
16	0	0	0	0	0	0	4	26	69	79	188	208	175	110	102	70	32	6 ?	1	0	0	0	0	0	1068
17	0	0	0	0	0	0	7	26	71	76	83	103	164	92	77	60	31 ?	10	1	0	0	0	0	0	801
18	0	0	0	0	0	0	35	210	409	620	773	864	878	816	685	499	284	72	3	0	0	0	0	0	6148
19	0	0	0	0	0	0	29	169	371	390	593	616	589	745	407	168	51	26	14	0	0	0	0	0	4168
20	0	0	0	0	0	0	12	70	182	324	308	346	330	495	695	501	291	86	2	0	0	0	0	0	3641
21	0	0	0	0	0	0	30	144	365	621	776	858	808	710	447	364	189	66	19	0	0	0	0	0	5396
22	0	0	0	0	0	0	41	205	437	633	780	864	874	816	686	500	286	66	5	0	0	0	0	0	6192
23	0	0	0	0	0	0	11	54	53 ?	?	53 ?	137	190	68 ?	138 ?	362	241	92	7	0	0	0	0	0	1406 ?
24	0	0	0	0	0	0	12	58	132	256	217	182	205	156	62	64	55	51	11	0	0	0	0	0	1462
25	0	0	0	0	0	0	14	58	152	246	183	162	108	141	274	84	63	16	2	0	0	0	0	0	1504
26	0	0	0	0	0	0	29	47	165	442	444	798	833	730	511	264	103	18	3	0	0	0	0	0	4388
27	0	0	0	0	0	0	11	54	80	95	177	181	174	159	185	135	65	32	4	0	0	0	0	0	1351
28	0	0	0	0	0	0	4	35	48 ?	?	?	182	354	559	274	537	214	68	6	0	0	0	0	0	2280 ?
29	0	0	0	0	0	3	45	85	149	493	683	805	315	247	542	362	151	77	4	0	0	0	0	0	3962
30	0	0	0	0	0	6	59	256	441	621	625	737	808	718	667	462	301	117	24	0	0	0	0	0	5841
31	0	0	0	0	0	5	39	142	283	375	518	478	431	462	375	189	71	15 ?	2	0	0	0	0	0	3384
Avg	0	0	0	0	0	0	23	116	249	397	497	558	572	549	456	353	193	59	4	0	0	0	0	0	3983
S D	0	0	0	0	0	1	14	65	139	200	257	283	303	278	220	165	98	29	6	0	0	0	0	0	1847
S/A	0	0	0	0	0	3.17	0.64	0.56	0.56	0.5	0.52	0.51	0.53	0.51	0.48	0.47	0.51	0.49	1.34	0	0	0	0	0	0.46
Min	0	0	0	0	0	0	1	20	38	58	53	103	86	68	62	60	22	6	0	0	0	0	0	0	801
Max	0	0	0	0	0	6	59	256	441	633	780	864	878	819	695	537	301	117	24	0	0	0	0	0	6192
n	0	0	0	0	0	6	284	359	356	344	352	369	367	364	366	367	355	358	59	0	0	0	0	0	4308

Daylight Data Recovery: 0.0% missing; 3.0% exceed the 15% QC threshold -- 4441 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

March 2005

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	69	487	310	901	750	809	652	262	209	316	124	0	0	0	0	0	0	4891
2	0	0	0	0	0	0	174	519	756	843	896	919	967	961	931	872	750	424	0	0	0	0	0	0	9013
3	0	0	0	0	0	0	209	604	815	899	938	961	961	955	927	869	735	387	0	0	0	0	0	0	9261
4	0	0	0	0	0	0	239	647	853	926	960	980	987	970	926	833	628	237	0	0	0	0	0	0	9186
5	0	0	0	0	0	0	5	22	27	0	34	1	0	0	0	0	0	0	0	0	0	0	0	0	89
6	0	0	0	0	0	0	148	498	757	848	889	901	837	861	858	809	681	347	0	0	0	0	0	0	8434
7	0	0	0	0	0	0	98	516	753	770	793	922	923	910	779	779	690	203	0	0	0	0	0	0	8137
8	0	0	0	0	0	0	0	0	0	1	6	133	0 ?	4	0	696	422	352	0	0	0	0	0	0	1615
9	0	0	0	0	0	0	293	605	762	915	905	961	925	770	531	766	424	403	9	0	0	0	0	0	8268
10	0	0	0	0	0	0	65	547	789	902	950	964	967	958	888	821	604	410	22	0	0	0	0	0	8885
11	0	0	0	0	0	0	105	28	239	542	467	452	708	392	211	9	5	163	0	0	0	0	0	0	3320
12	0	0	0	0	0	0	264	397	52	2	0	315	864	807	654	680	568	312	20	0	0	0	0	0	4936
13	0	0	0	0	0	0	131	256	25	33	298	309	776	815	747	682	533	229	9	0	0	0	0	0	4843
14	0	0	0	0	0	0	0	0	0	0	0	1	3	28	0	438	665	379	40	0	0	0	0	0	1556
15	0	0	0	0	0	0	229	619	805	885	926	947	942	935	904	833	656	204	2	0	0	0	0	0	8889
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
17	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
18	0	0	0	0	0	0	121	538	706	804	859	881	874	842	783	692	531	176	0	0	0	0	0	0	7807
19	0	0	0	0	0	0	45	233	416	67	202	141	91	534	67	0	0	0	0	0	0	0	0	0	1795
20	0	0	0	0	0	0	0	0	2	4	1	7	3	75	748	713	565	283	7	0	0	0	0	0	2408
21	0	0	0	0	0	0	2	95	393	673	816	842	614	381	107	121	67	52	64	0	0	0	0	0	4228
22	0	0	0	0	0	0	35	324	650	793	835	856	845	831	778	653	390	25	0	0	0	0	0	0	7014
23	0	0	0	0	0	0	1	1	0	0	0	1	1	0	0	171	263	263	3	0	0	0	0	0	703
24	0	0	0	0	0	0	0	0	0	2	0	0	2	0	0	0	1	42	42	0	0	0	0	0	88
25	0	0	0	0	0	0	6	1	0	2	0	1	0	1	49	0	0	0	0	0	0	0	0	0	61
26	0	0	0	0	0	0	0	0	0	60	7	533	523	398	155	3	0	0	0	0	0	0	0	0	1678
27	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
28	0	0	0	0	0	0	0	0	0	1	0	0	21	228	78	622	257	51	1	0	0	0	0	0	1259
29	0	0	0	0	0	0	34	109	1	162	383	618	18	0	202	47	0	15	2	0	0	0	0	0	1592
30	0	0	0	0	0	3	70	432	523	556	260	373	490	369	502	311	363	312	127	0	0	0	0	0	4690
31	0	0	0	0	0	2	4	16	22	19	38	54	22	54	50	0	0	0	0	0	0	0	0	0	283
Avg	0	0	0	0	0	0	73	228	317	355	399	446	457	443	392	407	326	174	11	0	0	0	0	0	4030
S D	0	0	0	0	0	1	93	251	349	395	414	408	427	397	378	359	287	156	26	0	0	0	0	0	3493
S/A	0	0	0	0	0	3.93	1.27	1.1	1.1	1.11	1.04	0.92	0.93	0.9	0.96	0.88	0.88	0.89	2.34	0	0	0	0	0	0.87
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	0
Max	0	0	0	0	0	3	293	647	853	926	960	980	987	970	931	872	750	424	127	0	0	0	0	0	9261
n	0	0	0	0	0	6	286	370	370	372	372	372	369	372	372	372	372	372	368	59	0	0	0	0	4432

Daylight Data Recovery: 0.0% missing; 0.2% exceed the 15% QC threshold -- 4441 total daylight measurements.

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

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

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

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

March 2005

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	11	77	118	146	94	164	136	217	285	202	115	38	0	0	0	0	0	0	1603
2	0	0	0	0	0	0	12	42	67	85	93	99	78	76	70	60	46	21	0	0	0	0	0	0	750
3	0	0	0	0	0	0	12	36	55	67	75	76	81	74	68	58	46	20	0	0	0	0	0	0	667
4	0	0	0	0	0	0	13	34	45	53	63	65	65	65	64	65	56	24	0	0	0	0	0	0	612
5	0	0	0	0	0	0	15	91	139	112	349	240	155	79	180	79	18	8	0	0	0	0	0	0	1465
6	0	0	0	0	0	0	16	51	71	80	90	100	146	124	97	74	55	25	0	0	0	0	0	0	929
7	0	0	0	0	0	0	16	46	68	109	140	87	93	87	108	84	50	21	0	0	0	0	0	0	910
8	0	0	0	0	0	0	5	32	52	136	226	225	78 ?	295	177	113	94	35	0	0	0	0	0	0	1467
9	0	0	0	0	0	0	13	52	65	68	92	88	108	165	208	92	105	40	4	0	0	0	0	0	1100
10	0	0	0	0	0	0	15	49	66	67	69	73	76	75	89	82	62	24	1	0	0	0	0	0	750
11	0	0	0	0	0	0	29	102	151	158	269	276	187	323	327	231	142	60	0	0	0	0	0	0	2255
12	0	0	0	0	0	0	23	97	211	223	127	262	125	150	200	137	78	40	5	0	0	0	0	0	1677
13	0	0	0	0	0	0	20	83	213	283	324	261	179	128	124	108	83	39	7	0	0	0	0	0	1852
14	0	0	0	0	0	0	1	16	37	51	120	230	380	456	265	167	60	27	1	0	0	0	0	0	1811
15	0	0	0	0	0	0	21	50	65	74	80	85	93	84	77	69	72	32	5	0	0	0	0	0	807
16	0	0	0	0	0	0	4	26	69	79	188	208	175	110	102	70	29	8	1	0	0	0	0	0	1067
17	0	0	0	0	0	0	8	26	71	76	83	103	164	92	77	55	28	10	1	0	0	0	0	0	795
18	0	0	0	0	0	0	23	70	101	117	126	132	139	145	144	130	99	40	3	0	0	0	0	0	1271
19	0	0	0	0	0	0	30	103	167	350	423	487	509	294	348	168	51	26	14	0	0	0	0	0	2969
20	0	0	0	0	0	0	13	70	182	324	308	346	330	440	174	112	91	41	2	0	0	0	0	0	2432
21	0	0	0	0	0	0	32	114	163	172	135	137	265	382	364	289	162	61	20 ?	0	0	0	0	0	2295
22	0	0	0	0	0	0	41	104	122	118	132	137	144	138	134	133	134	60	5	0	0	0	0	0	1401
23	0	0	0	0	0	0	11	54	47	31 ?	49 ?	130	190	60 ?	98	262	135	47	7	0	0	0	0	0	1122 ?
24	0	0	0	0	0	0	13	58	132	256	217	182	205	156	62	64	55	48	10	0	0	0	0	0	1458
25	0	0	0	0	0	0	15	58	152	246	183	162	108	141	234	84	63	16	2	0	0	0	0	0	1466
26	0	0	0	0	0	0	29	47	165	396	440	328	363	371	386	263	103	18	3	0	0	0	0	0	2912
27	0	0	0	0	0	0	11	54	80	95	177	181	174	159	185	135	61	32	4	0	0	0	0	0	1348
28	0	0	0	0	0	0	5	32	42 ?	38 ?	42 ?	171	337	360	219	172	109	45 ?	6	0	0	0	0	0	1578 ?
29	0	0	0	0	0	?	38	61	149	373	347	243	300	247	375	326	151	75	4	0	0	0	0	0	2688
30	0	0	0	0	0	?	51	108	159	222	400	378	337	383	279	267	151	54	18	0	0	0	0	0	2808
31	0	0	0	0	0	6 ?	39	136	276	366	485	425	417	411	332	189	71	13	2	0	0	0	0	0	3169
Avg	0	0	0	0	0	0	19	64	113	160	192	196	198	203	189	140	83	34	4	0	0	0	0	0	1595
S D	0	0	0	0	0	1	12	30	61	112	130	109	117	129	105	78	39	17	5	0	0	0	0	0	752
S/A	0	0	0	0	0	5.39	0.63	0.48	0.54	0.7	0.68	0.56	0.59	0.64	0.56	0.56	0.47	0.5	1.31	0	0	0	0	0	0.47
Min	0	0	0	0	0	0	1	16	37	31	42	65	65	60	62	55	18	8	0	0	0	0	0	0	612
Max	0	0	0	0	0	6	51	136	276	396	485	487	509	456	386	326	162	75	20	0	0	0	0	0	3169
n	0	0	0	0	0	3	269	370	365	359	362	372	369	368	370	372	369	366	58	0	0	0	0	0	4372

Daylight Data Recovery: 0.0% missing; 1.6% exceed the 15% QC threshold -- 4441 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

March 2005

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	3.1	3.2	3.2	3.1	3.4	3.6	4.1	4.8	5.5	5.2	4.9	5.3	5.6	6.1	6.2	6	5.9	5	3.9	3.3	2.9	2.5	2.2	1.5	4.2
2	1.1	0.9	0.6	0.2	0	-0.3	-0.5	-0.1	1	2	3.1	3.6	4.5	5.2	5.7	6.2	5.8	5.1	4.1	3.3	2.5	1.8	1.3	0.6	2.4
3	0.1	-0.6	-1	-1.4	-1.8	-2.1	-2.2	-1.5	-0.1	1.1	1.9	3	4	5.1	5.8	6.4	6.5	6	4.5	3.5	2.6	1.8	1.1	0.5	1.8
4	0	-0.3	-0.7	-1.4	-1.8	-2.3	-3	-2.1	0.7	3.2	4	5.3	6.7	8	8.7	9.7	10.3	9.9	8.3	6.3	5.3	5.2	6.1	7	3.9
5	7.6	8.3	8.2	7.9	7.7	7	6.5	6.8	8.4	8.4	8.6	7.8	6.4	5.7	5.2	4.9	4.4	3.3	2.8	2.5	2.2	2.2	1.4	0.4	5.6
6	-0.2	-0.6	-0.8	-0.8	-1	-1	-0.9	-0.5	2.4	5.2	7.3	8.5	9.8	10.6	12.1	13	13.4	13.3	11.9	11.3	10.8	9.9	9.3	9.4	6.3
7	9.5	9.6	9.5	9	8.5	8	7.4	8.3	10.5	12.6	14	16	18.3	19.5	20.5	21	21	18.6	15.5	14.5	13.9	13.7	13.4	13.1	13.6
8	13.5	14.2	14.3	13.6	13.5	15.1	15.7	15	14.6	13.8	14	14.3	4.7	1.8	2.4	5	6.6	6.6	5.6	4.7	3.5	2.7	1.7	0.8	9.1
9	0	-0.5	-1	-1.5	-2.2	-2.5	-2.9	-1.4	0.4	1.6	2.4	3.5	4.5	5.4	6.1	7.1	7.2	7.2	6	5.3	4.3	4.7	3.9	3.5	2.5
10	3.7	3.7	3.1	1.2	0.7	0.2	-0.1	1	3.1	4.3	5.4	5.9	6.5	7	8.1	8.5	8.4	8.2	6.7	4.6	3.7	3.6	4.1	4.8	4.4
11	5	5.4	5.8	6.2	6.3	6.3	6.1	6.4	7.3	9.3	11.8	12.9	13.9	14.5	15.2	14.8	15	14.4	12.4	9.5	7.4	6.2	5.8	6.2	9.3
12	6.3	5.6	4.6	3.9	2.9	1.9	1.9	2.7	4	4.7	5	6.2	9.1	12	13.5	14.6	15.5	15.7	14.7	13.7	13	12.6	11	9.8	8.5
13	9.4	8.8	8.2	7.5	6.7	6.5	6.1	6.7	7.2	7.9	9.1	10	10	10	9.4	9.3	8.2	7	6	6	6.1	6.3	6.4	6.2	7.7
14	6.1	6	5.9	4.9	4.4	4.1	3.4	3.1	3.1	3.1	3.5	4.4	5.1	6.1	6.9	7.7	8.7	8.8	7.1	5.1	4.4	3.4	2.3	2	5
15	1.7	1.6	1.9	1.9	2.1	1.8	1	2.2	3.9	5.2	6.7	8.2	9.5	10	10.9	11.7	11.8	8.7	6.1	5.4	4.9	4.5	4.2	3.9	5.4
16	3.9	3.8	4.4	4.9	4.8	5.4	5.5	5.2	4.5	4.2	4.3	3.9	3.5	3.4	2.7	2.1	2.1	1.8	1.4	1.3	1.5	2	2.3	2.2	3.4
17	2.3	2.4	2.7	2.8	2.7	2.5	2.2	1.7	2.2	2.9	2.9	3	3.1	2.9	2.3	2	1.5	1.2	1	0.8	1	1.4	2.1	2.9	2.2
18	3.1	3.2	3	3	2.9	2.7	2.3	3	5	7.2	9	10.1	11	11.6	11.7	12	12	10.8	8.7	7.4	6.6	5.6	5	4.9	6.7
19	3.8	4.1	3.3	3.3	3.2	3	3.4	5.4	8.7	11.6	12.8	13.2	13.6	14	13.7	12.4	11.7	11.1	10.8	10.6	10.7	10.6	10.2	9.7	8.9
20	9.5	9.4	9.7	9.1	8.7	8.7	8.4	8.1	8.6	9.8	10.7	11.9	12.4	13.2	14.2	15	15.8	15.9	14.4	13	11.6	11	11.1	10.6	11.3
21	9.8	8.9	8	7.3	6.9	6.5	6.6	7.1	8.7	10.3	11.6	12.7	13.6	14.1	13	12.4	11.3	10.2	9.2	8.3	7.5	7.2	7.2	6.1	9.4
22	5.6	5	4.9	4.9	4.6	4.4	4.4	6.5	8.5	10	10.6	11.4	12	12.5	13.1	12.6	12.1	10.9	9.9	9.3	9.3	10.2	11.7	12.7	9
23	12.1	12.3	13	13.3	13.6	13.9	15	16.2	16.4	16	16.2	17.1	18	18	17.8	19.2	20.6	20.8	19.9	15.6	13.6	12.8	10.9	10.2	15.5
24	9.8	9.9	9.7	9.2	8.9	8.7	8.7	9.1	9.2	9.9	10.3	10.9	11.4	11.8	10.5	9.7	9.4	9.2	8.6	7.6	6.6	6.4	6.1	5.8	9.1
25	5.8	5.6	5.6	5.2	5	5.2	5.5	6.5	6.7	7.7	8.5	8.9	9.1	8.8	9.3	9.4	9.3	8.9	8.8	8.3	8	8.1	8.7	8.4	7.6
26	7.8	7.4	7.6	7.6	7.6	7.4	7.4	7.6	8.1	9.5	10.8	12.3	13	13.4	13	12	10.5	9.4	8.9	8.7	8.6	8.3	8.3	8.6	9.3
27	8.6	8.5	8.5	8.5	8.7	9	9.2	9.4	9.8	10.6	11.6	12.7	13.4	13.8	13.5	13.6	13.1	12.6	12.1	11.8	11.6	11.7	12.1	12.7	11.1
28	15.1	16.1	15.4	15.5	16.3	15.7	14.6	15	15.5	16.8	18.7	19.3	19.2	20.7	19.5	19.6	19.9	18.3	16.7	15.5	13	11.8	11.9	11.2	16.3
29	10.7	10.4	10.4	10.6	11	11.3	11.7	12.3	12.6	14.1	15.5	17.1	16.9	15.7	16.1	16.5	16.2	16.4	16.1	16	15.5	14.2	13	12.8	13.9
30	12.1	11.5	10.8	9.5	9.3	9.4	9.5	10.6	11.9	13.2	14.1	14.7	15.6	16	16.3	16.1	15.8	14.3	11.9	9.7	9.3	9.3	8.9	9	12
31	9.1	8.8	8.5	8.5	8.8	9.2	9.9	10.9	12.5	14.2	15	16.4	17	17.8	18.4	17.8	18.4	18.4	17.4	17.6	17.9	17.3	16.7	16	14.3
Avg	6.3	6.2	6	5.7	5.6	5.5	5.4	6	7.1	8.2	9.2	10	10.4	10.8	11	11.2	11.2	10.6	9.4	8.4	7.7	7.4	7.1	6.9	8.1
SD	4.3	4.4	4.5	4.5	4.7	4.9	5.1	4.9	4.5	4.5	4.6	4.8	4.9	5.1	5.1	5	5.1	5.1	4.9	4.6	4.5	4.4	4.3	4.4	4.1
S/A	0.68	0.71	0.74	0.79	0.85	0.9	0.94	0.82	0.64	0.54	0.5	0.48	0.47	0.47	0.46	0.45	0.46	0.48	0.52	0.55	0.58	0.59	0.61	0.64	0.51
Min	-0.2	-0.6	-1	-1.5	-2.2	-2.5	-3	-2.1	-0.1	1.1	1.9	3	3.1	1.8	2.3	2	1.5	1.2	1	0.8	1	1.4	1.1	0.4	1.8
Max	15.1	16.1	15.4	15.5	16.3	15.7	15.7	16.2	16.4	16.8	18.7	19.3	19.2	20.7	20.5	21	21	20.8	19.9	17.6	17.9	17.3	16.7	16	16.3
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% 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

March 2005

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	101.6	101.3	101.5	102.6	103.7	104.6	105 ?	100.8	85.4	79	57.9	53.7	49.2	46.6	45.9	48	47.7	53.6	62.4	66.4	68	61.8	52.1	59.5	73.3
2	60.9	61.5	64	66.2	66.9	68.9	70.4	68.5	61.6	55.5	49.6	48.2	46.3	45.9	42.6	38.1	37.3	37.6	40.8	43.4	45.7	47.5	47.8	48.8	52.7
3	50.1	55.1	56.5	58.5	61.8	63.8	64.1	61.8	53	44.7	43.1	41.5	40.8	38.8	37.4	36.6	36.2	38.4	44.7	48.8	52.5	55.5	58.2	59.8	50.1
4	61.4	62.1	64.5	69.1	72.8	75.8	78.4	78	74.6	67.4	60.6	48.2	37.5	35.3	35.5	33.8	35.2	39.3	46.4	64.6	77.6	77.9	77.2	73.5	60.3
5	68.2	63.9	62.6	63.1	65.6	68.1	69.9	70.9	66.3	73.4	76.5	73.2	93.8	101.9	102.3	100.5	101.3	101.8	101.1	100.6	99.2	99.4	101.1	103.4	84.5
6	104.9 ?	?	?	?	?	?	?	104.6 ?	98.9	76.9	61.5	58.3	55.6	56	51	47.3	45.7	46.4	52.2	55.3	57.5	61.3	64.1	65.1	64.6 ?
7	67.1	66	65.9	67.5	69.4	71.3	74.5	72.4	68.9	64.9	59	51.6	45.6	37.2	28.8	26.3	28.8	40.5	58.6	63.6	65.8	65.9	68.6	70.7	58.3
8	68.8	68.2	70.1	80.3	91.9	92.6	85.6	93.3	98.8	102.5	100.4	97.6	99.4	103.7	96.9	78	66.2	54.4	51.1	47.5	54.9	54.5	54.1	51.5	77.6
9	54	56.9	58.2	58.6	64	65.3	69.7	60.8	44.2	44	47.3	46.4	44.3	41.1	40.9	36.4	35.1	37.9	43.6	49.2	54.7	52.5	64	74.5	51.8
10	70.9	68.7	72.5	83.6	78.4	73.7	75.6	72.2	58.9	44.2	39.2	39.4	39	38	36.2	34.7	35.5	37	47.6	75.6	76.2	80.7	84.9	86.4	60.4
11	87.5	88.9	89.9	90.9	93.4	93.8	90.3	86.4	78.7	67.4	51.6	48	42.9	42.2	41.2	45.4	42.8	51.5	66.6	85.9	101.3	100.7	101.3	96.8	74.4
12	84.7	79.5	77.2	70.8	67.2	72.1	68.2	66.3	64.3	60.4	61.1	63	57.6	51	46.5	45.9	44.4	43.3	46.8	50.6	54.5	58.1	66.3	69.9	61.2
13	70	75.8	76.6	77.6	81.7	79	76.6	80.9	87.9	84	79.8	79.2	80.7	75.8	74.4	73.6	74.4	77.2	77.3	79.5	83.7	81.7	81.5	80.8	78.7
14	80.7	79.7	81.6	91.3	97.8	100.1	102.8	103.9	103	101.7	97.1	84.7	76.8	72.6	66.7	60	57.1	56	67.2	83.3	86.5	90.7	95.2	97.3	84.7
15	97.7	97.1	87.9	84.5	74.9	71.5	75.8	69	54.3	50.4	44.1	38.3	36.5	36.2	34.2	33.6	33.4	53.6	69.4	72.1	75.2	78.6	82.9	85.2	64
16	87.5	89.5	89	90.1	88.4	76.6	78.2	79.2	89	90.7	87.2	94.2	98.2	98.4	101.4	103.6	104	104.6	?	?	?	?	?	104.9 ?	92.3 ?
17	104.6	?	103.7 ?	103.3	103.7	104.4 ?	?	?	?	104.8 ?	?	105 ?	105 ?	104.1	104	104.5	104.9 ?	?	?	?	?	?	104.6 ?	103.4	104.3 ?
18	103.5	102.8	102	100.3	100.1	98.7	98.9	98	92.3	75.1	57.6	49.4	42.1	40	39.6	41.4	46	51.5	65.4	73.2	74.4	77.8	80.6	81.6	74.7
19	87.7	79.3	84.9	91.5	91.2	89.8	86.1	76.8	68.9	67	60.2	59.1	58.9	58.7	61.5	68.3	73.6	80.4	82.4	87.2	90.8	94.1	96.2	100.2	78.9
20	102.2	104.7 ?	?	?	?	?	?	?	?	104.5 ?	103.1	100.1	98.8	94.2	88.6	85.5	76.6	73.6	79	82	93.8	99.9	97.4	95.9	92.9 ?
21	95.6	97.1	92.4	84.8	83.3	83.8	81.1	78.7	70.8	64.1	56.4	51	48.5	49.3	60.5	63.5	65.4	67.8	69.6	75.8	82	83.5	83.1	88.8	74
22	96.7	96.1	94.7	93.1	93.9	94.4	97.6	87.5	74.9	63.8	61.7	61.1	60.9	54.4	51.9	58	64.3	76.2	83.7	86.5	90.4	95.3	95.5	95.8	80.3
23	101.5	102.9	103.7	104.9 ?	104.8 ?	?	104.7	102.9	102.9	104.5 ?	?	?	?	?	?	102.7 ?	98.1	95.3	94.3	99.6	100.9	102	103.8	104.1	101.9 ?
24	104.7	104.2	102.5	102.4	102.3	102.2	102.1	100.4	98.8	93.7	91.9	89.9	87.3	84.6	93.2	96.1	96	94.1	95.1	97.9	98.6	98.1	98.4	99	97.2
25	99.3	101.4	102.2	102.9	103.1	101.6	100.5	97.8	95.6	88.9	84.3	78.9	76.6	80.4	86.4	83.5	85	90.2	92.1	95.5	98.1	99.2	98	99.2	93.4
26	100.7	101.9	99.5	97.4	96.6	98	98.2	98.1	98.1	94.4	89.7	83.8	80.3	78.4	79.3	81.9	87	93.5	95.5	97.3	97.4	99.5	101.2	101.4	93.7
27	101.8	101.6	101.5	101.6	101.8	101.3	100.8	101.4	100.6	98.3	97.1	94.9	90.3	89.5	96	98.4	101.3	102.9	104.4	?	?	?	?	?	99.2 ?
28	101.9 ?	101	103.6	?	104.8 ?	104.7 ?	?	?	?	?	?	101.2	101.4	92.9	91.5	93.8	90.1	92.7	98.2	85.9	88.9	95.2	90.7	95.8	96.4 ?
29	98.7	101.5	103.2	104.2	103.4	102	100.6	98.4	96.5	89.8	81.9	72.7	72.3	76.4	74.6	74.1	75.4	75.5	77.1	78.1	80.9	87.7	94.1	97	88.2
30	98	99.3	99.9	103.3	104.1	102.8	100.9	96.4	89.2	79.9	75.7	73.4	71.1	69.2	68.8	69	69	72.7	84.5	92.7	93.9	93.2	95.2	93.3	87.3
31	92.6	96.1	99.7	103.5	104.8	?	?	104.3 ?	101.5	96.9	94.1	89.8	89.2	88.5	87.9	91.3	93.5	95.5	100.4	102.1	101.9	98.8	98.7	101.1	96.9 ?
Avg	87.3	86.3	86.6	87.4	88.8	87.4	86.8	86.1	81.4	77.8	70.3	69.2	67.6	66	65.5	66.3	66.2	67.8	72.3	76.4	80.2	81.8	84	86.2	79
S D	17	16.9	16.2	15.5	15.1	14.6	13.7	14.6	17.7	19.4	19.6	21.1	22.9	23.8	24.8	25.4	25.2	23.2	20.3	18	17.5	17.7	17.4	16.9	16.1
S/A	0.19	0.2	0.19	0.18	0.17	0.17	0.16	0.17	0.22	0.25	0.28	0.31	0.34	0.36	0.38	0.38	0.38	0.34	0.28	0.24	0.22	0.22	0.21	0.2	0.2
Min	50.1	55.1	56.5	58.5	61.8	63.8	64.1	60.8	44.2	44	39.2	38.3	36.5	35.3	28.8	26.3	28.8	37	40.8	43.4	45.7	47.5	47.8	48.8	50.1
Max	104.9	104.7	103.7	104.9	104.8	104.7	105	104.6	103	104.8	103.1	105	105	104.1	104	104.5	104.9	104.6	104.4	102.1	101.9	102	104.6	104.9	104.3
n	358	338	344	331	341	313	300	321	336	338	336	352	353	358	360	365	362	359	346	336	336	336	341	354	8215

Data Recovery: 0.0% missing; 8.0% failed QC -- 8928 total measurements.

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

March 2005

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	3.7	3.7	3.7	3.6	3.7	3.9	4.1	4.4	5.6	6.8	7.5	7.9	8.3	8.6	8.7	8.5	8.3	7.3	5.3	3.6	2.9	2.3	1.9	1.3	5.2
2	0.7	0.4	0.2	-0.2	-0.4	-0.8	-1.1	-0.7	1.2	3.2	5.1	6.4	7.2	7.5	7.9	8.3	8.5	7.8	5.7	3.6	2.3	1.2	0.4	-0.3	3.1
3	-0.9	-1.5	-2.1	-2.6	-3.2	-3.6	-3.9	-3.1	-0.4	2.3	4.5	6.2	7.2	7.8	8.4	9	9.3	8.7	6.4	3.7	2	0.7	-0.3	-1.2	2.2
4	-2	-2.6	-3	-3.3	-4	-4.7	-5.7	-4.7	-0.7	4.2	7.4	9.1	10.2	10.9	11.2	11.7	12.3	12	9.7	7.2	5.5	4.5	4.1	4.8	3.9
5	6	7.1	7.7	7.8	7.7	7.4	6.8	6.2	7.4	8.5	9	10.1	9.5	7.9	6.9	6.3	5.8	5.1	4.2	3.7	3.3	2.9	1.7	0.5	6.2
6	-0.4	-0.8	-1.3	-1.6	-1.7	-1.9	-1.9	-1.3	1	4.5	8.5	11.1	12.3	13	13.6	14.5	15.1	15.1	13.6	11.6	10.6	9.6	8.6	8.2	6.7
7	8.3	8.4	8.4	8.2	7.9	7.3	6.5	6.8	9.8	13.5	16.1	18.3	19.8	21.1	21.9	22.6	23.2	22.4	18.7	15.8	14.2	13.6	13.4	13.1	14.1
8	12.9	13.3	13.8	13.6	13	13.1	13.8	14.8	14.9	14.3	14.1	14.1	12.7	6.4	4.1	4.3	6.8	7.8	6.7	5.1	3.7	2.7	1.7	0.8	9.5
9	-0.2	-1.1	-1.8	-2.5	-3.4	-4.5	-5.5	-4.5	-0.5	2.9	5.4	6.6	7.5	8	8.4	8.9	9.4	9	7.6	5.1	3	2.4	2.7	2.5	2.7
10	2.4	2.8	2.7	1.8	0.9	0.1	-0.5	-0.3	2.4	5.6	8	10	11	11	11.1	11.7	11.4	10.8	8.6	5.6	3.9	2.8	2.4	2.9	5.4
11	3.5	3.8	4.5	5	5.2	5	4.9	5.5	6.7	8.8	11.9	14.7	16.2	17	17.4	17.3	16.5	16	14.7	12.7	9.7	7.8	6.4	5.5	9.9
12	5.5	5.8	5.1	4.1	3.2	2	1.2	2.1	3.9	5	5.8	6.4	9	11.5	13.7	15.4	16.6	16.9	15.8	13.9	13	12.7	12.1	11.1	8.8
13	10.2	9.3	8	6.7	5.9	5.5	5.4	6.1	7.3	8.5	10.4	12.6	13.7	14.3	14	13.6	13.1	11.4	8.8	7.1	6.8	6.8	6.9	6.8	9.1
14	6.7	6.1	6	5.9	4.9	4.6	4.4	3.9	3.6	3.4	3.6	4.3	6	7.7	9.1	9.6	11.1	11.5	9.4	6.3	4.1	2.3	0.9	0.1	5.6
15	-0.3	-0.8	-0.7	-0.5	0	0.3	-0.2	0.7	3.7	6.3	8.7	10.8	12.5	13	13.4	14.3	14.9	14	9.7	6.4	4.5	3.4	3	2.5	5.8
16	2.3	2.3	2.9	3.8	4.4	4.8	5.2	5.5	5.2	4.8	4.4	4.5	4.5	4.3	3.9	3.3	2.9	2.5	2.1	1.8	1.8	1.9	2.2	2.3	3.5
17	2.4	2.4	2.5	2.6	2.7	2.7	2.6	2.4	2.3	2.7	3.1	3.3	3.5	3.7	3.4	2.9	2.5	2	1.7	1.3	1.2	1.3	1.6	2.1	2.5
18	2.5	2.9	2.9	2.8	2.7	2.4	2	2.5	4.9	7.7	10.5	12.6	14	14.6	15.1	15.5	15.7	14.7	11.4	8.6	6.9	5.2	3.4	2.3	7.7
19	1.8	1.2	0.9	0.7	1	1.2	1.3	2.6	6.2	10.8	13.7	15.8	16.7	17.3	17.5	16.3	14.6	12.9	11.9	11.3	11	10.9	10.7	10.2	9.1
20	9.7	9.6	9.7	9.6	9.4	9.2	9.1	9	9.2	10.2	12.4	14.1	15.4	16.1	17.5	18.7	19.3	18.8	16.5	13.6	11.7	10.5	10	9.8	12.5
21	9.6	9.1	8.5	7.6	6.5	5.8	5.5	5.7	7.4	10.6	13.6	15.9	17.5	18.1	18.1	16.8	15.3	13.2	11.2	9.1	7.4	6.3	5.7	5	10.4
22	4	3.8	3.4	3.4	3.1	2.6	2.5	3.7	7.3	10.7	13.3	14.8	15.7	15.9	16.4	16.7	16.3	14.8	12.3	10.7	9.9	9.8	10.6	11.7	9.7
23	12.1	11.9	12.2	12.7	13.3	13.5	14	15	16.3	16.7	16.6	16.9	17.8	18.5	18.3	18.8	20.5	21.7	21.4	19.5	16.2	14.2	12.9	11.5	15.9
24	10.2	10	9.9	9.7	9.5	9.4	9.3	9.5	10	10.7	11.9	12.6	13.1	13.7	13.6	12.3	11.4	10.8	10.1	8.4	7	6	5.4	4.9	10
25	4.7	4.6	4.5	4.5	4.2	4.1	4.4	5.4	6.8	8.2	9.7	10.4	10.8	10.7	11	11.3	11.1	10.7	10.2	9.7	9.3	9	9	9.2	8.1
26	9.1	8.6	8.4	8.3	8.3	8.2	8.1	8.3	8.7	10	12.5	14.8	16.6	17.5	17.8	17.1	15.1	12.9	11.2	10.2	9.7	9.4	9.1	8.9	11.2
27	9.1	9.1	9.1	9.1	8.9	8.9	9.2	9.5	9.9	10.5	11.5	12.9	13.9	14.8	15.2	15.2	15	14.4	13.6	12.9	12.3	12	12.1	12.5	11.7
28	13.3	14.8	15.6	15.5	15.8	16.3	16	15.8	15.9	16.2	17.3	18.2	18.9	20.8	22.2	21.2	22	21.3	19.2	17	14.7	12.6	11.7	11.8	16.8
29	11.5	11	10.6	10.6	10.8	11	11.4	12.3	13	14.3	16.8	18.9	20.1	19.2	18.5	19.2	18.9	18.2	17.6	16.8	16.2	14.5	12.7	11.8	14.8
30	11.3	10.7	9.9	9.2	8.7	8.4	8.4	9.4	12.1	14.9	17.4	18.6	19.7	20.4	20.7	20.5	20.1	18.9	16	12.5	10.1	8.8	8.2	7.8	13.5
31	8	8	7.8	7.7	7.8	8.1	8.8	10.1	12	14.3	16.5	18.2	19.3	19.9	20.5	20.6	19.8	19.5	18.5	17.7	17.8	17.8	17.3	16.4	14.7
Avg	5.7	5.6	5.5	5.3	5.1	4.9	4.7	5.2	6.9	8.8	10.6	12	12.9	13.3	13.5	13.6	13.6	13	11.3	9.4	8.2	7.3	6.7	6.4	8.7
SD	4.6	4.8	4.9	4.9	5	5.2	5.5	5.4	4.7	4.3	4.4	4.7	4.8	5.1	5.4	5.4	5.3	5.3	5.1	5	4.8	4.8	4.8	4.8	4.2
S/A	0.8	0.85	0.89	0.93	1	1.08	1.17	1.03	0.69	0.49	0.42	0.39	0.37	0.38	0.4	0.4	0.39	0.41	0.45	0.53	0.59	0.66	0.71	0.76	0.48
Min	-2	-2.6	-3	-3.3	-4	-4.7	-5.7	-4.7	-0.7	2.3	3.1	3.3	3.5	3.7	3.4	2.9	2.5	2	1.7	1.3	1.2	0.7	-0.3	-1.2	2.2
Max	13.3	14.8	15.6	15.5	15.8	16.3	16	15.8	16.3	16.7	17.4	18.9	20.1	21.1	22.2	22.6	23.2	22.4	21.4	19.5	17.8	17.8	17.3	16.4	16.8
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: CSI Serial Number: Internal Temp Calibration Factor: N/A Calibration Date: 06/1995

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

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

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

March 2005

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	4.1	3.8	2.7	2.8	1.4	1.9	2.2	4.2	6	6.8	8.8	8.5	8.4	7.4	7.5	6.4	6.6	5	3.2	4.6	4.7	5.6	5.5	4.4	5.1
2	5.4	6	5.2	5.6	5.5	5	4.6	4.4	5.4	5.1	5.4	6.5	6.3	6.5	6.9	6.6	6.7	5.6	4.4	3.7	3	2.9	3	3.2	5.1
3	2.9	2.5	2.7	2.3	2	2.1	2	2.1	3.1	3.5	3.5	3.8	4.1	4	4.2	4.2	4	3.1	2.1	1.6	1.3	1.4	1.1	0.9	2.7
4	0.7	0.8	1.1	0.7	0.6	0	0.2	0.4	0.3	1.1	1.9	2.5	2.8	3.8	4.5	4.3	3.6	2.4	1.1	2.2	2.3	2.2	2.3	3.4	1.9
5	3.7	3.8	4.6	4.2	2.7	0.8	0.5	0.6	1.6	1.4	2.2	3.1	2.8	2.3	2.9	2.9	3.7	4.5	3.4	3.6	2.8	1.9	1.7	1.6	2.6
6	2.2	1.8	1.6	1.4	1.3	1.4	0.6	1.5	1.2	1.8	2.4	4	4.9	5.4	5.4	5.5	5.7	4.8	3.3	3.7	3	1.9	2.5	3.4	2.9
7	3.8	2.9	2.6	2.2	1.8	1.2	1.2	0.9	1.2	2.1	2.8	4	4.8	6.1	5.8	5.3	4.3	3.8	4.1	4.2	3.7	3.4	3.4	3.7	3.3
8	3.8	4.2	3.6	3.2	3.8	5.1	6.1	6.1	6.9	6.7	7	6.8	8.6	6.3	6.3	4.7	5.1	4.4	4.5	4	4	4.6	5.1	4.5	5.2
9	3.3	3.1	2.8	2	0.5	0.6	0	0.4	1.7	2.2	3.9	4.4	4.5	4.7	4.8	4.7	4	3.1	1	0.3	0.5	0.5	0.2	0.3	2.2
10	0.8	0.6	1.2	3.3	3.3	2.7	1.7	1.3	2.1	2.7	2.3	1.9	2.3	3	2.6	3.6	2.9	2.1	0.9	2.6	1.9	1.7	2	2.6	2.2
11	2.3	2.3	2.3	2	1.5	2	2.7	2.8	3.3	2.8	3.2	3.3	4.4	5	4.8	3.6	3.9	4	3.6	4.1	3.3	1.6	3.3	4.5	3.2
12	6.2	5.6	5.4	6.1	3.8	3.3	4	4.7	4.3	3.9	2.2	3.6	5.3	6.4	7.9	6.1	5.3	4.5	2.4	0.7	0.7	0.6	1.3	1.9	4
13	1.6	1.6	0.7	0.8	1.5	3.1	2.8	3.3	3.7	2.9	2.3	2.6	3.6	4.1	4.5	4.4	4.3	4.2	3.2	3.5	2.8	3.2	3.2	3.7	3
14	2.9	2.9	3.3	4.4	4	3.8	3.3	2.9	3.6	3	2.7	2.6	3.5	3.4	2.3	1.7	1.5	1	1.3	1.3	0.2	0	0	0.3	2.3
15	0.1	0.8	1.5	2.2	2.4	1.2	0.8	1.4	3.3	3.5	3.4	3.3	3.5	3.6	3.1	2.3	2	2.8	2	1.1	0.4	1.4	0.6	0.8	2
16	0.2	0	0.1	1.3	2	1.4	0.7	2.4	2	1.5	1.9	3.1	2.9	2.9	3.7	3.7	3.4	2.8	2.9	3.2	3.9	5.2	5.4	5.3	2.6
17	4.9	5	4.6	4.6	5.2	4.9	5.8	4.8	5.5	5.3	5.1	4.4	4.6	5.2	5	4.8	4.7	4.4	3.3	2.6	2.9	3.2	3.1	3.1	4.5
18	3.1	2.1	2.9	2.3	2.3	2.6	2.4	2.1	2.9	3.3	3.9	4	4.2	3.7	3.8	3.4	2.9	2	1.6	1.2	0.7	0.1	0.1	0.5	2.4
19	0.3	0.4	0.3	0.9	1.2	1.2	1.5	0.7	1.2	2.5	3.2	3.8	3.5	4.3	4.1	3.5	2.8	2.2	1.6	2	2	1.5	1.7	0.7	2
20	0	0.9	1.4	1.2	1.2	1.2	1.8	1.7	1.3	1.1	1.2	0.7	1.8	1.7	1.6	1.7	2.2	1.3	0.5	0.9	1.2	1.3	1.9	2.4	1.3
21	3.9	3.5	3.3	1.9	1.4	1.3	1.6	1	2.6	3.2	2.8	2.2	1.8	2.3	3.2	3.4	3.3	3	2.9	2.2	1.5	1.5	1.2	0.3	2.3
22	1.1	0.9	1.4	1	0.2	0.5	1	1.8	3.3	3.7	3.3	3.7	4	3.7	3.9	4.5	4.1	3.4	3.1	2.6	3.6	2	2.8	3	2.6
23	4.7	5	6.3	6.2	5.6	3.8	3.5	4.9	3.5	2	1.8	2.4	3.5	4	2.8	3.8	4.9	3.8	3.4	2.9	1.7	2	1.9	0.6	3.5
24	1	1.2	1.3	1.4	2	2.2	1.8	1.7	2.1	1.9	1.6	1.1	0.8	0.9	1.9	1.8	2.1	2.1	2.2	2.3	1.8	1.8	1.3	1.5	1.7
25	1.3	1.3	2.1	1	0.8	1.1	0.8	2	2.4	2.5	2.6	3.2	2.3	2.7	3.3	2.1	2.1	2	1.7	2.9	2.4	2.7	2.8	3.5	2.2
26	3.1	3.1	3.4	3.4	3.4	3.4	3.1	2.4	3.3	3.5	3.1	3.1	3	3	3	3.7	4	3.8	2.9	2.3	2.7	2.9	2.8	2	3.1
27	2.2	2.3	2.2	2.3	1.6	2.2	1.9	3.1	3.2	2.5	2.9	3.2	2.9	3	3	3.3	3.1	2.8	2.1	1.4	1.5	0.8	1.2	1.2	2.3
28	2.3	3.5	2.9	3.4	3.4	2.4	2.9	3.6	4.7	4.2	5.8	6.8	6.6	5.5	5.9	4.7	3.8	4	4	5.3	5.8	3	4.8	5.2	4.4
29	4.2	4.8	4	3.9	4.2	3.8	3.9	3.3	3.5	3.7	5	5.3	5.2	4.6	4.6	4.7	3.9	2.4	2.2	1.4	0.2	0.2	0.6	1.3	3.4
30	0.8	0.6	0.4	1.4	1.1	1.6	1.5	1.8	2	2.1	2	2.2	2.3	2.5	3	3	3.1	3.2	3.2	2.7	1.5	1.4	1.3	2	1.9
31	2.5	2	2.2	2	2.1	2.1	1.6	2.5	3.6	3.4	4.3	4.2	3.7	4	3.7	2.7	3.1	2.2	3.1	4.7	3.6	1.5	0.4	1.1	2.8
Avg	2.6	2.6	2.6	2.6	2.4	2.3	2.2	2.5	3.1	3.1	3.4	3.7	4	4.1	4.2	3.9	3.8	3.3	2.6	2.6	2.3	2.1	2.2	2.4	2.9
SD	1.7	1.7	1.5	1.6	1.5	1.4	1.5	1.5	1.5	1.4	1.7	1.7	1.8	1.5	1.6	1.3	1.3	1.1	1.1	1.3	1.4	1.4	1.5	1.5	1
S/A	0.66	0.65	0.6	0.59	0.62	0.6	0.69	0.6	0.5	0.46	0.5	0.46	0.45	0.38	0.38	0.34	0.33	0.35	0.41	0.48	0.6	0.67	0.7	0.66	0.36
Min	0	0	0.1	0.7	0.2	0	0	0.4	0.3	1.1	1.2	0.7	0.8	0.9	1.6	1.7	1.5	1	0.5	0.3	0.2	0	0	0.3	1.3
Max	6.2	6	6.3	6.2	5.6	5.1	6.1	6.1	6.9	6.8	8.8	8.5	8.6	7.4	7.9	6.6	6.7	5.6	4.5	5.3	5.8	5.6	5.5	5.3	5.2
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% 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

March 2005

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	261	260	255	244	243	227	221	246	262	263	260	256	259	259	265	267	265	272	268	261	259	264	269	257	260
2	255	258	263	266	266	263	266	263	273	279	277	271	265	266	268	271	269	275	278	285	282	282	285	290	270
3	284	281	282	280	278	278	276	284	300	295	298	289	281	290	283	287	282	281	287	288	271	268	281	272	285
4	275	258	266	265	274	281	241	255	250	167	171	212	251	258	250	257	258	210	154	136	160	175	187	204	224
5	209	214	222	229	247	272	220	213	236	278	330	357	35	26	36	26	356	351	356	349	337	308	296	284	314
6	287	286	274	278	276	282	280	261	264	260	230	238	226	236	238	243	242	240	220	218	217	205	212	226	240
7	228	231	236	255	252	218	210	196	193	164	169	170	177	198	201	201	199	189	182	186	186	187	183	190	196
8	189	192	200	189	173	178	182	186	195	200	225	232	306	312	303	295	288	294	286	282	277	280	282	281	245
9	282	278	281	288	272	307	202	286	296	290	274	266	253	251	244	253	259	254	248	326	151	156	191	184	264
10	233	227	325	5	11	7	12	46	58	2	325	283	239	258	253	264	262	248	118	106	124	129	146	168	308
11	175	177	181	187	194	207	228	247	234	216	215	189	198	204	198	180	203	192	221	275	285	244	228	251	214
12	266	267	271	270	270	259	253	237	235	229	193	188	226	262	260	260	258	259	264	243	288	359	57	66	254
13	95	85	60	11	19	50	50	60	63	59	64	51	37	43	33	44	50	64	55	52	67	50	39	41	51
14	43	49	33	40	33	14	23	21	13	14	15	21	350	17	348	352	337	328	65	78	89	0	272	276	21
15	282	302	325	343	345	318	307	322	347	343	321	310	296	282	302	289	282	117	101	86	128	136	136	135	321
16	153	98	108	65	68	67	63	54	75	82	78	39	52	54	54	47	46	36	24	36	26	39	39	46	47
17	48	49	48	44	42	33	36	26	33	35	37	34	29	24	20	14	21	8	5	358	5	11	34	33	30
18	35	2	357	356	353	349	350	349	4	23	38	32	47	53	65	65	66	76	97	92	104	133	202	151	34
19	180	86	302	346	355	334	352	1	41	69	94	98	92	94	94	98	81	83	86	80	83	114	103	85	82
20	357	135	126	9	345	41	355	32	58	75	113	147	167	190	201	179	200	205	168	160	161	178	222	281	166
21	345	339	346	340	319	319	329	331	350	358	23	330	268	251	171	111	88	78	77	72	110	96	111	346	18
22	12	358	5	17	346	17	39	64	69	67	101	90	91	100	103	104	94	87	88	77	76	81	100	109	84
23	113	117	120	121	123	126	139	151	162	167	190	174	178	190	209	213	230	228	250	294	299	298	306	281	167
24	283	305	294	327	314	310	315	321	333	314	332	305	316	292	65	74	85	66	57	78	82	84	109	101	11
25	96	80	70	69	90	119	97	75	86	89	85	70	53	91	87	63	75	75	50	58	32	49	58	54	71
26	41	58	52	54	55	53	48	22	45	51	60	55	19	38	40	65	62	51	57	54	49	46	48	56	50
27	49	47	49	46	34	52	54	65	70	66	55	68	70	62	57	63	59	57	58	60	69	75	91	96	60
28	143	146	119	124	133	100	100	103	116	131	142	141	138	174	179	183	190	176	181	244	231	234	231	228	165
29	226	231	234	243	259	266	268	280	290	292	290	294	296	303	308	322	330	334	322	323	49	211	66	63	284
30	31	333	289	258	288	344	34	60	69	45	33	55	75	72	86	90	90	90	76	89	91	86	121	95	71
31	92	90	82	82	80	77	75	76	85	87	96	121	106	117	103	101	135	149	150	150	266	289	149	131	108
Avg	257	250	284	313	336	349	346	5	11	0	321	258	271	263	261	271	274	274	56	25	293	328	236	228	290
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% 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

March 2005

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	6.5	6.4	4.8	4.4	2.9	3.3	3.9	6.8	9.8	11.5	14.6	13.9	14.7	12.2	12.9	11.9	11.7	9.2	5.8	7.4	7.3	9.5	10	7	8.7
2	8.8	9.6	8.8	9.3	9.4	8.3	8	7.6	10.2	9.7	9.7	11.8	11.6	11.4	12.5	12	12.6	10.6	8.8	6.6	5.8	5.5	5.5	6.2	9.2
3	5.5	4.8	5.4	4.3	3.8	3.9	3.9	4.7	6.4	7	7.2	7.6	8	7.9	8.3	7.7	7.6	6.3	4.3	3.2	2.4	2.6	2.1	1.7	5.3
4	1.4	1.3	1.7	1.3	1.2	0.2	0.4	0.9	0.8	2.4	3.7	4.4	5.4	6.8	7.2	7.5	6.2	3.9	2	3.6	3.8	3.7	4.1	5.8	3.3
5	6.4	6.3	7	6.7	4.2	1.8	1.1	1.3	2.8	3	4.5	5	4.6	4	5	5	6.4	7.5	6	5.9	5.1	3.7	3.7	3.4	4.6
6	4.3	3.4	3.1	3.2	2.7	2.9	1.7	2.7	2.7	3.2	4.3	6.8	8	8.3	8.5	8.8	9.2	7.3	5	5.7	5	3.2	3.8	5.3	5
7	5.7	4.3	3.8	3.4	2.8	2	2.2	1.9	2.3	3.5	4.6	6.4	8.1	10.2	9.5	8.9	7.3	6.3	6.8	7	6.1	5.8	5.6	6.1	5.4
8	6.6	7.3	5.8	5.4	6.2	9.1	10.1	10.3	10.9	10.8	11.1	10.9	16.8	12.6	12.4	10.3	10	8.5	8.6	7.8	7.5	8.9	10.4	8.9	9.5
9	6.7	6.4	6	4.2	1.3	1.2	0.2	1.3	3.8	4.6	7.1	8.1	7.7	7.8	7.6	7.6	6.6	5.3	1.8	0.7	1	1.2	0.8	1	4.2
10	1.7	1.3	2.4	6.2	6.3	5	3.2	2.7	3.7	4.9	4.6	4.9	4.7	6	5.2	7	5.2	3.5	1.8	4	3.1	3	3.5	4.6	4.1
11	4.6	4.3	4.3	4.3	3.2	3.7	4.5	4.7	5.1	4.3	5.5	6	7.6	8.3	8	6.5	6.3	7.1	6.6	8.1	6.9	3.2	5.1	7.2	5.6
12	10.2	9.9	9.6	11.1	6.7	5.3	6.4	7.2	7.1	6.5	4	5.9	8.4	11.4	13	10.3	9	7.9	4	1.4	1.4	1.5	2.3	3.1	6.8
13	2.7	2.6	1.3	1.3	2.7	5.1	4.8	5.5	5.9	4.9	4	4.4	5.9	6.8	7.5	7.1	7.1	6.9	5.5	5.6	5	5.6	5.7	6.8	5
14	5.7	5.1	5.9	7.7	7.2	7.2	6	5.4	6.2	5.6	5.2	5	6.4	5.8	4.6	3.7	3.7	2.5	2.3	2.3	0.6	0	0.1	0.7	4.4
15	0.6	1.6	2.5	3.7	4.2	2.5	1.9	3.1	5.9	6.3	6.6	6.7	7.2	7.6	6.1	5.3	4.4	4.8	3.4	2.2	1.2	2.6	1.6	1.6	3.9
16	0.6	0.2	0.6	2.6	3.6	2.9	1.8	4.3	3.8	3	3.6	5.3	5	5	6	6.2	5.6	5.1	5.5	5.6	7.2	8.7	9.2	9.1	4.6
17	8.5	8.4	8.2	7.7	8.6	8.3	9.6	8.7	9.4	9.4	8.5	7.7	8.4	9.6	8.7	8.4	8.5	7.9	6	5.1	5.3	5.7	5.9	5.8	7.9
18	5.6	3.9	5.1	4.3	4.1	4.5	3.9	4.2	5.3	5.6	6.4	6.7	6.9	6.1	5.9	5.2	5.1	3.1	2.3	1.9	1.2	0.4	0.3	0.9	4.1
19	0.6	0.5	0.6	1.4	1.7	1.7	2.1	1.3	2.1	4.1	5.1	6.4	5.5	6.5	6.2	5.9	4.5	3.5	2.7	3.4	3.1	2.7	2.8	1.4	3.2
20	0	1.9	2.6	2.3	2.3	2.3	3.4	3.4	2.8	2.5	2.5	1.9	3.2	3.1	3.3	2.9	3.7	2.4	1.2	1.6	2	2.2	3	4	2.5
21	6.3	5.9	5.4	3.5	2.6	2.6	3.3	2.3	4.7	5.6	5	4.1	3.8	4.7	5.4	5.4	5.1	4.7	4.4	3.5	2.2	2.3	1.9	0.6	4
22	1.7	1.6	2.2	2	0.6	0.9	1.6	3	5.4	5.7	5.5	5.7	6.2	5.6	6	6.9	6.6	5.4	5	4.1	5.5	3.5	4.4	5.2	4.2
23	7.8	8.6	10.1	10.1	8.6	6	6.2	8.4	6.3	3.7	3.6	4.1	6.6	7	5.1	6.4	8	6.2	6	6.2	4.2	4.9	4.6	2.2	6.3
24	2.6	3.3	3.4	3.3	4.5	4.9	4.1	4.1	4.7	4.5	3.6	3	2.4	2.6	3.4	3.3	3.4	3.6	3.8	3.8	3	2.9	2.1	2.4	3.4
25	2.1	2.1	3.3	1.7	1.4	2.1	1.6	3.5	3.9	4	4.2	4.9	3.8	4.2	5.5	3.4	3.6	3.2	3.1	4.7	4.2	4.5	4.7	5.7	3.6
26	5.3	5.3	5.8	5.9	5.4	5.6	5.1	4.4	5.3	5.7	5	5.1	5.2	4.8	5.2	5.8	6.3	6	5.2	3.7	4.5	5	4.4	3.4	5.1
27	3.9	4	3.6	3.7	2.8	3.8	3.2	5	5.1	4.2	4.4	5.2	4.8	4.8	4.8	5.6	4.9	4.4	3.5	2.4	2.4	1.6	2.1	2	3.8
28	4.3	5.6	4.7	5.6	5.6	3.9	4.9	5.6	7	7.3	9.1	11.2	10.5	9.5	9.6	8.1	6.6	6.5	6.8	8.8	9.3	5	7.7	8.6	7.2
29	7	7.4	6	6.2	6.6	6.7	7.4	6.7	7.3	7.8	9.6	10.8	10.3	8.3	9.7	8.5	6.8	4.5	4	2.9	0.8	0.6	1	2.1	6.2
30	1.3	1.1	1	2.1	1.9	2.5	2.7	3.1	3.4	3.7	3.5	3.9	4	4.1	4.7	4.8	4.7	5.2	5.2	4.5	2.6	2.4	2.1	3.3	3.3
31	4.2	3.5	3.4	3.3	3.3	3.4	2.7	4.5	5.4	5.4	6.4	6.4	5.7	6.3	5.4	4.1	5	3.7	5.1	7.6	6.3	3.3	0.9	1.8	4.5
Avg	4.5	4.5	4.5	4.6	4.1	4	3.9	4.5	5.3	5.5	5.9	6.5	7	7.1	7.2	6.8	6.5	5.6	4.6	4.6	4.1	3.7	3.9	4.1	5.1
SD	2.7	2.7	2.5	2.6	2.4	2.3	2.5	2.4	2.4	2.4	2.7	2.7	3.2	2.7	2.7	2.4	2.3	2	1.9	2.2	2.3	2.4	2.7	2.6	1.8
S/A	0.61	0.61	0.57	0.56	0.57	0.57	0.64	0.53	0.46	0.43	0.45	0.42	0.45	0.38	0.38	0.35	0.35	0.37	0.42	0.48	0.57	0.63	0.69	0.62	0.35
Min	0	0.2	0.6	1.3	0.6	0.2	0.2	0.9	0.8	2.4	2.5	1.9	2.4	2.6	3.3	2.9	3.4	2.4	1.2	0.7	0.6	0	0.1	0.6	2.5
Max	10.2	9.9	10.1	11.1	9.4	9.1	10.1	10.3	10.9	11.5	14.6	13.9	16.8	12.6	13	12	12.6	10.6	8.8	8.8	9.3	9.5	10.4	9.1	9.5
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% 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

March 2005

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	999	1000	999	999	999	999	999	1000	1000	1000	1000	999	999	999	999	999	1000	1001	1002	1002	1003	1004	1004	1004	1000	
2	1004	1005	1005	1005	1006	1007	1008	1008	1009	1008	1008	1008	1007	1007	1006	1006	1007	1007	1008	1009	1009	1010	1010	1010	1011	1007
3	1011	1012	1012	1012	1012	1013	1013	1014	1014	1014	1014	1013	1013	1012	1012	1012	1012	1013	1014	1014	1015	1015	1015	1015	1013	
4	1015	1015	1015	1015	1016	1016	1016	1017	1017	1017	1017	1017	1016	1015	1014	1013	1012	1012	1012	1012	1012	1012	1011	1010	1014	
5	1010	1009	1009	1008	1008	1009	1009	1009	1009	1009	1008	1008	1007	1007	1007	1008	1009	1010	1011	1012	1012	1013	1013	1013	1009	
6	1014	1014	1014	1014	1015	1016	1016	1016	1016	1016	1016	1015	1013	1012	1011	1010	1009	1009	1009	1009	1010	1010	1010	1010	1013	
7	1010	1010	1009	1009	1009	1010	1010	1010	1010	1009	1009	1008	1006	1004	1003	1002	1001	1001	1001	1001	1001	1000	999	998	1005	
8	997	996	994	993	991	989	987	986	985	983	982	981	985	988	992	994	995	997	999	1002	1003	1005	1006	1007	993	
9	1009	1009	1010	1011	1012	1012	1012	1013	1013	1013	1013	1012	1011	1010	1009	1009	1008	1008	1008	1009	1009	1009	1009	1008	1010	
10	1008	1007	1006	1007	1007	1008	1008	1009	1009	1009	1009	1009	1007	1007	1006	1006	1005	1005	1006	1007	1007	1007	1007	1007	1007	
11	1006	1005	1004	1004	1004	1003	1003	1003	1003	1003	1002	1001	999	998	996	995	994	994	994	996	997	997	997	997	1000	
12	997	998	999	1000	1000	1000	1001	1001	1001	1001	1000	999	998	997	997	997	998	998	999	1000	1001	1002	1003	1003	1000	
13	1003	1003	1003	1003	1004	1005	1006	1006	1006	1006	1007	1007	1007	1006	1006	1006	1007	1007	1008	1008	1008	1009	1009	1009	1006	
14	1009	1009	1009	1008	1009	1010	1011	1012	1012	1012	1013	1013	1013	1012	1012	1012	1013	1014	1014	1015	1015	1015	1015	1016	1012	
15	1016	1016	1016	1016	1017	1018	1019	1019	1020	1020	1020	1020	1019	1018	1018	1017	1017	1018	1018	1018	1019	1019	1020	1019	1018	
16	1019	1018	1018	1018	1017	1018	1019	1019	1020	1020	1019	1018	1018	1017	1016	1015	1015	1015	1016	1016	1015	1014	1014	1013	1017	
17	1012	1012	1011	1011	1011	1011	1012	1012	1012	1012	1012	1012	1012	1011	1012	1012	1012	1012	1013	1013	1013	1013	1013	1013	1012	
18	1013	1013	1012	1012	1013	1013	1013	1014	1014	1015	1015	1014	1014	1014	1014	1014	1015	1015	1016	1017	1017	1017	1017	1017	1014	
19	1017	1017	1017	1017	1017	1018	1018	1019	1019	1019	1019	1019	1019	1018	1017	1017	1017	1017	1017	1016	1016	1016	1016	1015	1017	
20	1015	1015	1014	1014	1014	1014	1015	1015	1015	1015	1015	1014	1014	1013	1012	1012	1011	1011	1011	1012	1012	1012	1012	1012	1013	
21	1013	1013	1013	1014	1014	1015	1015	1015	1015	1016	1016	1015	1015	1014	1014	1013	1014	1015	1016	1017	1017	1018	1019	1019	1015	
22	1019	1019	1018	1019	1020	1020	1021	1022	1022	1023	1023	1022	1021	1021	1020	1020	1019	1019	1019	1019	1018	1018	1017	1015	1020	
23	1014	1012	1011	1009	1008	1008	1008	1007	1007	1007	1006	1004	1003	1001	1000	999	999	999	1000	1001	1002	1002	1003	1003	1005	
24	1004	1004	1005	1005	1007	1007	1008	1009	1011	1012	1012	1013	1013	1013	1013	1013	1013	1014	1014	1015	1016	1016	1017	1017	1011	
25	1017	1016	1016	1015	1015	1015	1016	1017	1017	1017	1016	1015	1016	1015	1013	1014	1014	1014	1014	1013	1014	1014	1014	1014	1015	
26	1014	1014	1014	1014	1014	1015	1016	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1017	1018	1016	
27	1017	1017	1016	1015	1016	1016	1017	1017	1017	1017	1016	1016	1015	1014	1013	1012	1012	1012	1012	1011	1011	1011	1010	1009	1014	
28	1008	1007	1005	1004	1003	1003	1001	1000	998	997	996	994	992	992	991	990	990	990	990	991	993	993	993	993	996	
29	993	993	993	993	995	996	996	997	998	999	1000	1001	1002	1003	1003	1004	1005	1006	1008	1009	1010	1010	1010	1010	1001	
30	1011	1011	1011	1012	1013	1013	1014	1015	1016	1016	1017	1017	1016	1016	1015	1015	1015	1015	1015	1016	1017	1017	1017	1017	1015	
31	1017	1016	1016	1016	1016	1016	1017	1018	1018	1018	1017	1017	1016	1015	1015	1015	1015	1015	1014	1012	1015	1015	1015	1014	1016	
Avg	1010	1010	1009	1009	1010	1010	1010	1011	1011	1011	1011	1010	1010	1009	1009	1009	1009	1009	1009	1010	1010	1011	1011	1011	1010	
SD	7	7	7	7	7	7	8	8	8	8	9	9	8	8	8	8	8	8	7	7	7	7	7	7	7	
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Min	993	993	993	993	991	989	987	986	985	983	982	981	985	988	991	990	990	990	990	991	993	993	993	993	993	
Max	1019	1019	1018	1019	1020	1020	1021	1022	1022	1023	1023	1022	1021	1021	1020	1020	1019	1019	1019	1019	1019	1019	1020	1019	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% failed QC -- 8928 total measurements.

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

March 2005

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	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13	13.8	13.6	13.8	13.8	13.8	13.8	13.8	13.8	13.8	13.1	12.8	12.7	12.7	12.7	12.7	12.7	13.1
2	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.8	13.9	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.8	13.2	12.8	12.8	12.7	12.7	12.7	12.7	13.2
3	12.7	12.6	12.6	12.6	12.6	12.5	12.6	14	14	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.8	13.2	12.8	12.8	12.7	12.7	12.7	12.7	13.2
4	12.6	12.6	12.6	12.6	12.5	12.5	12.7	14.1	14	13.9	13.8	13.7	13.7	13.7	13.7	13.7	13.7	13.1	12.8	12.8	12.8	12.7	12.7	12.7	13.2
5	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.4	13.3	13.8	13.8	13.8	13.2	13.9	13.3	12.8	12.8	12.7	12.7	12.7	12.7	12.6	12.6	13
6	12.6	12.5	12.5	12.5	12.5	12.5	12.6	13.9	13.9	13.8	13.7	13.7	13.7	13.6	13.6	13.6	13.6	13.1	12.9	12.8	12.8	12.8	12.8	12.8	13.1
7	12.7	12.7	12.7	12.7	12.7	12.6	12.7	13.7	13.7	13.6	13.5	13.5	13.4	13.4	13.4	13.4	13.4	13	12.8	12.8	12.8	12.7	12.7	12.7	13.1
8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13	13.4	13.5	13.1	13.8	13.7	13.9	13.8	13.2	12.8	12.7	12.7	12.7	12.7	12.6	13
9	12.6	12.6	12.5	12.5	12.5	12.5	12.8	14.1	14	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.8	13.2	12.8	12.8	12.8	12.7	12.7	12.7	13.2
10	12.7	12.7	12.7	12.6	12.6	12.5	12.6	13.8	13.9	13.8	13.8	13.7	13.7	13.7	13.7	13.7	13.7	13.1	12.8	12.8	12.7	12.7	12.7	12.7	13.1
11	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13.2	13.8	13.7	13.7	13.6	13.6	13.5	13.5	13.6	13.5	13.2	12.8	12.8	12.8	12.7	12.7	12.7	13.1
12	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.9	13.9	13.9	13.8	13.9	13.8	13.7	13.6	13.6	13.6	13.1	12.9	12.8	12.8	12.8	12.8	12.7	13.2
13	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13.8	13.8	13.8	13.7	13.7	13.6	13.6	13.6	13.7	13.7	13.2	12.8	12.8	12.7	12.7	12.7	12.7	13.1
14	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.6	13.1	13.6	13.8	13.8	13.8	13.8	13.7	13.1	12.8	12.8	12.8	12.7	12.7	12.7	13
15	12.7	12.6	12.6	12.6	12.6	12.5	12.8	13.9	13.9	13.8	13.7	13.7	13.7	13.7	13.6	13.6	13.6	13.1	12.8	12.8	12.8	12.7	12.7	12.7	13.1
16	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.7	12.9	13.5	13.9	13.9	13.8	13.8	13.3	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.6	12.9
17	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.7	12.8	12.9	13.1	13.4	13.2	13.1	13	12.8	12.8	12.7	12.6	12.5	12.5	12.5	12.5	12.7
18	12.5	12.5	12.5	12.5	12.5	12.5	12.6	13.8	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.1	12.9	12.8	12.8	12.7	12.7	12.7	13.1
19	12.7	12.7	12.7	12.7	12.6	12.6	12.7	13.5	13.8	13.7	13.6	13.6	13.6	13.5	13.5	13.6	13	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13.1
20	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.8	13.3	13.7	13.7	13.6	13.6	13.6	13.5	13.5	13.5	13.1	12.8	12.8	12.8	12.7	12.7	12.7	13
21	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.4	13.8	13.7	13.6	13.5	13.5	13.5	13.5	13.6	13.6	13.1	12.8	12.8	12.7	12.7	12.7	12.7	13.1
22	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.7	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.1	12.8	12.8	12.8	12.8	12.7	12.7	13.1
23	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.7	12.7	12.6	12.6	13	13.2	12.9	12.9	13.4	13.3	13	12.8	12.8	12.8	12.7	12.7	12.7	12.8
24	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13	13.6	13.7	13.7	13.7	13.6	13	13	12.9	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
25	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.6	13.1	13.6	13.5	13.6	13.4	13.5	13.7	13.2	13	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.9
26	12.7	12.6	12.6	12.6	12.6	12.5	12.6	12.6	13.1	13.6	13.6	13.6	13.5	13.5	13.5	13.6	13.3	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13
27	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.8	12.9	13.2	13.4	13.6	13.6	13.5	13	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.9
28	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13	13.3	13.4	13.3	13.4	13.3	13.1	12.8	12.8	12.8	12.8	12.7	12.7	12.8
29	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13.1	13.1	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.1	12.8	12.8	12.8	12.7	12.7	12.7	13
30	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.6	13.6	13.6	13.5	13.5	13.5	13.4	13.4	13.5	13.5	13.1	12.8	12.8	12.7	12.7	12.7	12.7	13
31	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13	13.6	13.6	13.5	13.5	13.5	13.5	13.5	13.4	13	12.8	12.8	12.8	12.8	12.8	12.8	12.7	13
Avg	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.3	13.4	13.5	13.5	13.6	13.6	13.6	13.6	13.5	13.4	13	12.8	12.8	12.7	12.7	12.7	12.7	13
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.6	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.1	0	0	0	0	0	0	0.1
S/A	0	0	0	0	0	0	0.01	0.04	0.04	0.03	0.02	0.02	0.01	0.01	0.02	0.02	0.03	0.01	0	0	0	0	0	0	0.01
Min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.6	13	13.1	12.9	12.9	13	12.8	12.8	12.7	12.6	12.5	12.5	12.5	12.5	12.7
Max	12.7	12.7	12.7	12.7	12.7	12.7	12.8	14.1	14	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.8	13.2	12.9	12.8	12.8	12.8	12.8	12.7	13.2
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% 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.