

November 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	0	0	19	136	300	464	502	634	619	541	402	195	71	6	0	0	0	0	0	0	3889
2	0	0	0	0	0	0	17	117	233	433	552	614	510	282	403	222	57	0	0	0	0	0	0	0	3441
3	0	0	0	0	0	0	9	37	111	205	104	111	229	246	199	107	28	0	0	0	0	0	0	0	1386
4	0	0	0	0	0	0	6	18	?	42 ?	52 ?	77	82 ?	83	85	35	11	0	0	0	0	0	0	0	490 ?
5	0	0	0	0	0	0	13	133	317	475	552	476	381	542	423	241	63	0	0	0	0	0	0	0	3616
6	0	0	0	0	0	0	12	128	309	466	581	638	631	555	418	238	61	0	0	0	0	0	0	0	4036
7	0	0	0	0	0	0	12	122	302	462	574	626	616	538	406	229	55	0	0	0	0	0	0	0	3942
8	0	0	0	0	0	0	12	110	283	445 ?	561	618	623	531	422	229	57	0	0	0	0	0	0	0	3892
9	0	0	0	0	0	0	10	117	299	460	561	640	616	537	407	224	61	0	0	0	0	0	0	0	3932
10	0	0	0	0	0	0	9	76 ?	?	?	?	?	?	?	?	?	45	0	0	0	0	0	0	0	131 ?
11	0	0	0	0	0	0	14	102 ?	?	?	?	?	?	265 ?	219	116	22	0	0	0	0	0	0	0	737 ?
12	0	0	0	0	0	0	7	49	135	95	161	289 ?	192	94 ?	39 ?	63	6	0	0	0	0	0	0	0	1130 ?
13	0	0	0	0	0	0	1	13	33	67	76	109	100	92	120	76	23	0	0	0	0	0	0	0	710
14	0	0	0	0	0	0	8	75 ?	?	?	?	?	?	?	?	?	53	0	0	0	0	0	0	0	135 ?
15	0	0	0	0	0	0	10	84 ?	?	?	?	?	?	?	?	?	37	0	0	0	0	0	0	0	132 ?
16	0	0	0	0	0	0	5	94	225	381	395	342	368	341	341	136	30	0	0	0	0	0	0	0	2658
17	0	0	0	0	0	0	9	93	252	403	518	557	553	473	352	186	40	0	0	0	0	0	0	0	3436
18	0	0	0	0	0	0	4	16	103	149	283	296	293	213	159	72	53	0	0	0	0	0	0	0	1641
19	0	0	0	0	0	0	7	51	143	284	260	220	280	187	154	60	31	0	0	0	0	0	0	0	1678
20	0	0	0	0	0	0	6	85	119	184	231	331	119	164	191	98	19	0	0	0	0	0	0	0	1549
21	0	0	0	0	0	0	3	45	92	222	400	530	484	482	313	144	30	0	0	0	0	0	0	0	2744
22	0	0	0	0	0	0	3	46	173	318	396	404	506	316	196	109	23	0	0	0	0	0	0	0	2490
23	0	0	0	0	0	0	1	16	58	70	95	146	181	183	120	39	8	0	0	0	0	0	0	0	917
24	0	0	0	0	0	0	4	24	44	144	159	516	418	299	68	53	6	0	0	0	0	0	0	0	1734
25	0	0	0	0	0	0	0	20	120	172	500	519	529	403	337	139	47	0	0	0	0	0	0	0	2786
26	0	0	0	0	0	0	3	70	238	404	515	570	558	485	357	184	42	0	0	0	0	0	0	0	3427
27	0	0	0	0	0	0	5	61	218	341	365	374	355	212	96	35	9	0	0	0	0	0	0	0	2072
28	0	0	0	0	0	0	2	16	106	200	222	411 ?	543	474	341	151	49	0	0	0	0	0	0	0	2513
29	0	0	0	0	0	0	2	60	206	432 ?	490	538 ?	524 ?	465	339	174	39	0	0	0	0	0	0	0	3268 ?
30	0	0	0	0	0	0	3	79	252 ?	308	491	440	368 ?	469	339	248	41	0	0	0	0	0	0	0	3038 ?
Avg	0	0	0	0	0	0	7	70	187	293	369	424	411	351	268	141	37	0	0	0	0	0	0	0	2252 ?
S D	0	0	0	0	0	0	5	40	91	147	181	182	178	161	129	72	19	1	0	0	0	0	0	0	1304
S/A	0	0	0	0	0	0	0.69	0.57	0.49	0.5	0.49	0.43	0.43	0.46	0.48	0.51	0.51	5.2	0	0	0	0	0	0	0.58
Min	0	0	0	0	0	0	0	13	33	42	52	77	82	83	39	35	6	0	0	0	0	0	0	0	131
Max	0	0	0	0	0	0	19	136	317	475	581	640	631	555	423	248	71	6	0	0	0	0	0	0	4036
n	0	0	0	0	0	0	111	342	292	293	303	290	296	308	317	324	316	2	0	0	0	0	0	0	3198

Daylight Data Recovery: 0.0% missing; 12.8% exceed the 15% QC threshold -- 3669 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.

November 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	0	0	117	317	568	728	585	839	822	796	718	354	143	0	0	0	0	0	0	0	5987
2	0	0	0	0	0	0	15	116	253	546	652	713	485	203	665	498	193	0	0	0	0	0	0	0	4339
3	0	0	0	0	0	0	0	0	0	2	0	0	1	23	78	1	0	0	0	0	0	0	0	0	106
4	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
5	0	0	0	0	0	0	188	573	762	823	688	461	360	779	824	706	365	0	0	0	0	0	0	0	6528
6	0	0	0	0	0	0	164	567	773	839	896	913	907	890	835	724	377	0	0	0	0	0	0	0	7885
7	0	0	0	0	0	0	177	548	756	845	881	889	890	861	811	697	331	0	0	0	0	0	0	0	7687
8	0	0	0	0	0	0	100	421	632	727 ?	812	855	862	749	690	690	326	0	0	0	0	0	0	0	6863
9	0	0	0	0	0	0	118	526	755	836	816	895	815	854	817	681	344	0	0	0	0	0	0	0	7457
10	0	0	0	0	0	0	1	7 ?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	8 ?
11	0	0	0	0	0	0	2	8 ?	?	?	?	1 ?	?	0 ?	0	0	0	0	0	0	0	0	0	0	11 ?
12	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
13	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
14	0	0	0	0	0	0	0	3 ?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	3 ?
15	0	0	0	0	0	0	1	5 ?	?	?	?	?	?	?	?	?	7	0	0	0	0	0	0	0	13 ?
16	0	0	0	0	0	0	58	304	206	503	233	45	170	148	480	199	8	0	0	0	0	0	0	0	2353
17	0	0	0	0	0	0	87	460	677	754	806	778	771	747	720	581	208	0	0	0	0	0	0	0	6588
18	0	0	0	0	0	0	1	0	3	3	16	5	7	0	0	2	217	0	0	0	0	0	0	0	253
19	0	0	0	0	0	0	8	6	60	129	7	1	6	1	0	0	42	0	0	0	0	0	0	0	260
20	0	0	0	0	0	0	12	152	2	2	3	69	0	0	38	36	0	0	0	0	0	0	0	0	314
21	0	0	0	0	0	0	0	0	1	40	404	611	248	610	502	157	10	0	0	0	0	0	0	0	2585
22	0	0	0	0	0	0	0	10	194	278	258	180	493	156	25	72	34	0	0	0	0	0	0	0	1700
23	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
24	0	0	0	0	0	0	0	0	0	0	1	512	390	138	0	0	0	0	0	0	0	0	0	0	1041
25	0	0	0	0	0	0	0	22	87	106	677	691	760	631	674	449	362	0	0	0	0	0	0	0	4459
26	0	0	0	0	0	0	2	462	753	860	900	916	911	883	825	682	362	0	0	0	0	0	0	0	7555
27	0	0	0	0	0	0	2	261	559	544	257	119	93	1	0	0	0	0	0	0	0	0	0	0	1835
28	0	0	0	0	0	0	0	0	0	40	29	?	869	852	750	349	251	0	0	0	0	0	0	0	3142 ?
29	0	0	0	0	0	0	0	374	670	814 ?	840	859 ?	862 ?	837	765	615	273	0	0	0	0	0	0	0	6911 ?
30	0	0	0	0	0	0	0	379	686 ?	412	855	419	66 ?	859	755	600	144	0	0	0	0	0	0	0	5176 ?
Avg	0	0	0	0	0	0	35	184	323	378	408	414	415	408	406	300	133	0	0	0	0	0	0	0	3035 ?
S D	0	0	0	0	0	0	60	219	331	360	375	382	379	390	369	299	150	0	0	0	0	0	0	0	3048
S/A	0	0	0	0	0	0	1.72	1.19	1.03	0.95	0.92	0.92	0.91	0.95	0.91	1	1.12	0	0	0	0	0	0	0	1
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	0	188	573	773	860	900	916	911	890	835	724	377	0	0	0	0	0	0	0	7885
n	0	0	0	0	0	0	111	343	307	297	309	291	298	314	324	324	316	2	0	0	0	0	0	0	3239

Daylight Data Recovery: 0.0% missing; 11.7% exceed the 15% QC threshold -- 3669 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

November 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	0	0	16	79	79	85	125	75	75	69	62	74	47	5	0	0	0	0	0	0	791
2	0	0	0	0	0	0	16	90	129	147	142	134	177	153	88	68	30	1	0	0	0	0	0	0	1175
3	0	0	0	0	0	0	10	37	111	204	104	105	228	226	150	104	28	0	0	0	0	0	0	0	1308
4	0	0	0	0	0	0	6	18	19 ?	38	41	77	74	83	85	35	11	0	0	0	0	0	0	0	487
5	0	0	0	0	0	0	10	30	48	63	137	162	145	93	50	39	16	0	0	0	0	0	0	0	792
6	0	0	0	0	0	0	10	29	44	57	54	53	57	51	44	34	14	0	0	0	0	0	0	0	446
7	0	0	0	0	0	0	9	28	44	72	107	76	58	53	46	34	14	0	0	0	0	0	0	0	539
8	0	0	0	0	0	0	12	38	80	106 ?	76	73	79	101	114	38	16	0	0	0	0	0	0	0	734
9	0	0	0	0	0	0	10	31	46	55	75	72	98	59	48	38	18	0	0	0	0	0	0	0	550
10	0	0	0	0	0	0	11	27 ?	?	?	?	?	?	?	?	?	28	0	0	0	0	0	0	0	65 ?
11	0	0	0	0	0	0	10	28 ?	?	?	?	323 ?	?	196 ?	206	114	22	0	0	0	0	0	0	0	899 ?
12	0	0	0	0	0	0	7	49	133	95	153	271 ?	192	72 ?	32	63	6	0	0	0	0	0	0	0	1073
13	0	0	0	0	0	0	1	13	32	67	76	109	100	92	119	76	23	0	0	0	0	0	0	0	708
14	0	0	0	0	0	0	9 ?	24 ?	?	?	?	?	?	?	?	?	12	0	0	0	0	0	0	0	45 ?
15	0	0	0	0	0	0	11 ?	35 ?	?	?	?	?	?	?	?	?	9	0	0	0	0	0	0	0	55 ?
16	0	0	0	0	0	0	5 ?	40	157	130	239	295	238	247	137	72	29	0	0	0	0	0	0	0	1590
17	0	0	0	0	0	0	10 ?	29	46	56	68	80	86	70	51	39	17	0	0	0	0	0	0	0	551
18	0	0	0	0	0	0	3 ?	16	103	149	269	291	290	213	159	72	30	0	0	0	0	0	0	0	1594
19	0	0	0	0	0	0	8 ?	50	121	230	258	220	276	187	154	60	27	0	0	0	0	0	0	0	1593
20	0	0	0	0	0	0	7 ?	62	118	184	231	279	119	164	170	86	19	0	0	0	0	0	0	0	1439
21	0	0	0	0	0	0	4 ?	45	92	198	167	155	308	149	98	93	28	0	0	0	0	0	0	0	1337
22	0	0	0	0	0	0	2	42	116	179	242	288	203	227	180	88	19	0	0	0	0	0	0	0	1585
23	0	0	0	0	0	0	1	16	58	70	95	146	181	183	120	39	9	0	0	0	0	0	0	0	917
24	0	0	0	0	0	0	5 ?	24	44	144	158	199	180	213	68	53	6	0	0	0	0	0	0	0	1092
25	0	0	0	0	0	0	0	16	96	121	143	122	98	79	69	39	14	0	0	0	0	0	0	0	798
26	0	0	0	0	0	0	4 ?	19	37	53	84	67	51	45	37	26	9	0	0	0	0	0	0	0	432
27	0	0	0	0	0	0	?	29	67	142	266	309	295	212	96	35	9	0	0	0	0	0	0	0	1459
28	0	0	0	0	0	0	2	16	106	186	212	?	108	51	48	72	24	0	0	0	0	0	0	0	824 ?
29	0	0	0	0	0	0	?	20	61	?	?	?	137 ?	55	43	31	11	0	0	0	0	0	0	0	358 ?
30	0	0	0	0	0	0	?	25	75 ?	226 ?	?	328 ?	341 ?	76	52	106	24	0	0	0	0	0	0	0	1254 ?
Avg	0	0	0	0	0	0	7	33	79	122	147	172	161	127	94	60	19	0	0	0	0	0	0	0	883 ?
S D	0	0	0	0	0	0	4	18	37	60	73	97	88	69	51	26	9	1	0	0	0	0	0	0	478
S/A	0	0	0	0	0	0	0.59	0.54	0.47	0.49	0.5	0.56	0.55	0.54	0.54	0.44	0.49	4.91	0	0	0	0	0	0	0.54
Min	0	0	0	0	0	0	0	13	19	38	41	53	51	45	32	26	6	0	0	0	0	0	0	0	45
Max	0	0	0	0	0	0	16	90	157	230	269	328	341	247	206	114	47	5	0	0	0	0	0	0	1594
n	0	0	0	0	0	0	89	342	302	290	288	279	297	314	322	324	316	2	0	0	0	0	0	0	3168

Daylight Data Recovery: 0.0% missing; 13.7% exceed the 15% QC threshold -- 3669 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

November 2004

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	20.7	20.2	19.4	18.7	17.8	17.1	16.7	18.1	19.7	20.9	21.6	22.4	23.1	23.2	23	22.2	20.6	18.5	17.4	16.8	16.5	16.4	16.3	16.5	19.3
2	16.7	16.5	16.4	16.4	16.5	16.3	16	16.8	19	21.7	23.8	25.3	26.1	25.7	26.9	26.6	25.9	24.3	23	22.2	21.7	21.3	21.4	21.3	21.2
3	21.1	20.9	21	20.8	20.6	20.6	20.8	20.9	21.4	22.4	22.8	21.7	20.6	19.8	19.6	19.1	18	16.9	15.9	15.3	14.9	14.5	14.9	14.7	19.1
4	14.5	14.4	14.2	14.2	14.3	14.8	15.2	14.5	13.9	13.8	14.3	14.9	15.6	16.1	16.9	17.5	18	19.5	20.4	20.7	20.8	20.8	18.3	16.4	16.4
5	15.1	14.1	13.2	12.4	11.9	11.3	10.5	10.9	12.3	13.7	14.5	15	15.2	15.6	16.2	16.2	15.4	13.6	11.6	10.6	10.6	10.1	10.2	10.3	12.9
6	10.1	9.4	7.9	6.7	5.9	5.3	4.8	5.9	9.3	12.6	14.8	15.7	16.3	16.9	16.9	16.2	14.4	13.4	13.3	12.9	12.6	12.6	12.1	11.6	11.8
7	11.2	10.7	10.3	9.9	10.2	9.9	10.2	10.9	12.5	14.5	16.4	18.5	19.7	20.4	21	21.3	20.4	18.4	17.1	16.1	15.5	15.1	14.5	14.2	15
8	13.8	13.4	13	12.7	11.8	11.1	11.2	13	14.7	15.2	14.9	15	15	14.6	14.2	13.9	13	11.4	10.5	9.7	9	8.2	7.4	7	12.2
9	6.6	6.2	5.7	5.8	5.5	4.9	4.5	5.6	7.7	9.1	9.8	10.5	10.8	10.7	10.8	10.2	9.4	8	7.2	7	6.7	6.4	5.9	5.4	7.5
10	4.9	5	4.6	4.2	4	4	4	5.1	7.9	9.8	10.8	11.5	11.9	12	12.1	11.4	10.2	9.1	8.7	8.5	8.2	7.8	7.4	7.2	7.9
11	7	6	4.9	4	3.5	3.9	3.8	5.9	10.2	13.1	14.4	16	17	17.3	17.1	16.8	16.2	14.9	14	13.6	13.5	13.5	13.6	13.7	11.4
12	13.5	13.4	13.6	13.4	13.4	13.2	13.3	13.7	15.3	17.5	17.7	20.3	20.6	18.8	17.4	16.8	16.3	16.6	16.1	16.1	16.4	16.5	16.5	16.8	16
13	16.6	14.5	13	12.3	10.7	9.6	8.8	8.6	8.7	8.7	8.7	8.8	8.6	8.6	8.7	8.7	8.7	8.3	7.5	6.6	6.5	6.7	6.6	6.2	9.2
14	5.5	5.1	4.8	4.4	3.9	3.7	3.5	3.6	4.6	6.2	7.3	8.2	8.9	9.6	9.7	9.2	8.2	6.7	5.7	5	4.5	3.7	2.9	2.5	5.7
15	2.1	1.9	1.5	1.9	1.1	0.7	1.1	2.5	5.1	8.2	10.3	12.1	13.4	14.8	15.4	15.2	14.2	12.3	10.6	9.1	7.7	6.2	6.3	5.8	7.5
16	5	4.9	5.5	6	6.1	5.5	3.7	4.7	8.6	11.4	13.9	15.1	16.3	16.4	16.5	15.5	13.8	12.1	10.4	9.5	8.9	8.3	7.6	7.1	9.7
17	6.3	5.1	4.3	4.3	4.6	4.7	4.6	5.4	8.7	11.7	14.2	16.2	17.6	18	18.1	17.5	15.1	12.9	11.6	10.8	9.7	8.6	7	6.4	10.2
18	6.5	5.8	5.6	5.6	6.3	7.1	7.6	8	8.9	10.6	12.5	13.8	14.9	15.5	15.7	15.5	15	13.7	12.8	12.5	12.7	12.4	11.7	11.1	10.9
19	10.7	10.3	10.3	10.2	10.3	10.4	10.2	10.5	11.6	13.7	15.3	16.6	17.5	17.8	18	18	17.2	15.7	14.9	13.4	13.2	13.4	13.3	12.4	13.5
20	12.4	12.5	12.3	11.7	11.4	11	11.1	11.6	13	14.5	16	17.6	18.1	18.1	17.9	18.1	17.5	16.6	16.4	16.1	16	16.2	16.2	16.1	14.9
21	16	15.9	15.5	15.1	14.7	14.8	14.7	14.7	14.7	15.1	16.1	17.2	17.4	17.2	17.3	16.4	15	13.5	12.7	12.1	11.9	11.7	11.5	11.3	14.7
22	10.9	10.4	10	10.2	10.7	10.9	10.6	10.2	11.4	13.1	14.6	15.7	16.9	17.3	17.4	17.6	16.7	15.3	14.3	14	13.8	13.9	13.9	14	13.5
23	13.6	13.6	13.3	13.1	13	12.7	12.7	12.7	13.2	14	14.5	14.9	15.5	15.6	16	16	15.7	15.1	15	14.8	14.6	14.6	14.7	14.6	14.3
24	14.6	14.7	14.8	14.7	14.7	14.4	14.4	14.5	14.5	14.8	15.6	17.6	19.4	20.6	20.6	20.5	20.1	19.3	18.9	18.4	18.5	18.9	19.2	18.9	17.2
25	19	18.7	18.8	18.8	19.4	19	19.2	19.1	19.8	20.5	21.6	21.6	20.8	19.1	18.7	16.3	13.9	12.1	10.9	9.8	8.6	7.5	6.5	5.6	16
26	4.7	3.9	3.2	2.9	2.2	1.8	1.6	2.7	4.2	5.5	6.6	7.6	8.4	9.2	9.3	9.4	8.3	6.9	6.3	6	5.6	5.7	4.9	4.8	5.5
27	4.2	4.5	4	3.8	3.6	3.7	4.7	6	9.8	13.3	14.8	15.9	16.6	16.9	16.6	16.3	15.8	14.6	14.2	14.4	14.8	15.9	16.5	11.5	
28	16.7	16.4	15.7	15.5	15.2	14.8	14.7	14.6	14.4	14.6	15.4	16.3	17.6	17.6	17.6	17.2	16.5	15.2	14.5	13.7	12.4	11.2	10	8.8	14.9
29	8.1	7.4	7.2	6.9	6.6	6.4	5.9	5.9	7.2	8.5	9.8	11.1	11.7	11.9	12	11.6	10.6	9.3	8.3	7.8	7.2	6	5.7	5.2	8.3
30	4.6	5.1	4.3	3.4	3.2	2.9	2.6	3.6	6.5	9.8	11.7	12.9	13.2	14	14.2	14	12.5	11.3	10.5	10.4	10	9.2	9.1	8.7	8.7
Avg	11.1	10.7	10.3	10	9.8	9.6	9.4	10	11.6	13.3	14.5	15.5	16.1	16.3	16.4	16.1	15.1	13.9	13	12.5	12.1	11.7	11.4	11	12.6
S D	5.4	5.4	5.4	5.4	5.5	5.5	5.5	5.2	4.6	4.3	4.2	4.2	4.2	3.9	4	4	4.1	4.2	4.3	4.4	4.7	4.8	4.9	4.1	
S/A	0.49	0.5	0.53	0.54	0.56	0.57	0.59	0.52	0.39	0.32	0.29	0.27	0.26	0.24	0.24	0.25	0.26	0.29	0.32	0.34	0.36	0.4	0.42	0.45	0.33
Min	2.1	1.9	1.5	1.9	1.1	0.7	1.1	2.5	4.2	5.5	6.6	7.6	8.4	8.6	8.7	8.7	8.2	6.7	5.7	5	4.5	3.7	2.9	2.5	5.5
Max	21.1	20.9	21	20.8	20.6	20.6	20.8	20.9	21.4	22.4	23.8	25.3	26.1	25.7	26.9	26.6	25.9	24.3	23	22.2	21.7	21.3	21.4	21.3	21.2
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: 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.

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

November 2004

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	83	85.9	90.5	93.6	96.8	98.3	97.6	89.4	73.3	62.2	50.3	42.9	43.4	44	44.4	46.7	60.2	72.5	81	82.2	79	83.2	89.5	90.3	74.2
2	87.6	88.7	93.2	96.7	98.3	100.3	103.1	103.7	101.5	95.7	86.7	79.6	76.4	78.3	71.1	71.7	75.7	82.7	89.5	96.5	99.8	101	99.1	98.4	90.6
3	98.2	99.3	99.6	100.4	101.2	101.1	100.9	100.9	99.6	97.5	95.7	84.6	76	72.2	66.7	63	66	73.4	74.4	78.6	81	84.7	83.9	81.5	86.7
4	83.3	86.6	87.4	87.8	90.4	89.2	88.3	97.8	103.3	?	?	?	?	?	?	?	?	?	105 ?	103.9 ?	103.9	100.4	96.4	96.9	94.7 ?
5	94.3	91.2	91.4	94.3	92.4	90.5	93.2	90.7	82.3	69.4	63.2	62	58.4	54.6	45.7	43.4	45.1	53.3	68	74.6	73.9	77.8	76.9	79.8	73.6
6	78.4	75.3	80.1	86	89.5	93	96.2	92.9	82.1	73.8	67.6	59.9	52	45.9	45.6	43.5	47.9	54.1	60.4	61.9	63.2	65.4	69	72.9	69
7	75.3	78.5	80.7	81.9	79.9	81.9	85.1	89.8	82.9	73.5	66.9	55.9	51.7	50.2	47	46	48.7	56.2	67.1	74.8	82.4	85.8	85.8	83.1	71.3
8	84	85.1	89.8	88.9	91.2	91	88.7	83.8	78	67	62.4	57.6	56	55.5	54.9	53.9	56.4	64.1	62.4	56.8	60.5	66.9	71.1	69.9	70.7
9	70.7	72.9	72.3	70.8	73.4	78.5	81.1	74.1	60.8	56.7	54.9	47.3	51	47.6	42.7	46.5	51	60.6	68.7	71.9	73.3	75.2	78.6	80.3	65
10	81.8	78.5	79.9	81.1	83.4	82.5	80.1	75.1	69.5	66.7	63.7	60.6	59.3	58.6	58.8	61.2	68.3	74.9	78.8	82.2	84.1	85.7	88.7	90.3	74.7
11	93.6	98.9	99.6	101.7	103.3	102.4	103.3	100.3	89.5	78.9	70.7	65.7	58.7	58.6	59.5	62.9	67.1	77.6	85.2	89.8	95.8	94.4	95.6	96.7	85.4
12	99.1	101.9	102.1	102	101.2	100.4	99.2	101.5	101	96.6	96.4	84.4	82.8	92.5	101.7	104.2	?	103.4	?	?	?	?	?	?	98.3 ?
13	?	?	?	104.5 ?	103.5	103.4	103.9	103.5	102.5	100.2	100.1	97.5	96.1	94.1	92	91.5	90.8	80.1	82.3	86.2	81.2	67.8	64.9	61.2	90.8 ?
14	64.9	69.4	72.5	75	77.5	78.3	78.8	76.2	73.4	58.4	44.9	39.1	35.8	36	38.7	42.7	52	64.8	73.2	79.5	82.7	86.9	90.7	91.4	65.9
15	92.4	93.1	91.4	89.2	90.9	92.7	91.6	84.8	77.4	65	54.8	45.8	40.6	35.9	31.9	30.3	34.5	38.3	47.6	54.8	70.5	77.3	69.1	69.3	65.4
16	75.1	76.2	69.9	66.9	66.7	71.8	85.3	80.2	70.6	63.8	57.5	52.7	45.5	44.6	41.3	47.8	55.2	63.8	73.9	80.5	82.1	83.8	84.3	86.7	67.8
17	89.6	94.5	97.9	97.7	96.6	94.8	94.8	91.7	82.5	76.4	65.2	54.6	47.2	44.4	44.7	49.9	61.1	73.5	84.4	80.2	87.8	95.3	100.6	103.1	79.5
18	103	103	104.3	103.9	103.7	102.7	101.5	101.6	101.3	95.5	86.6	78.2	72.5	72.8	67.8	68.8	74.5	83.1	89.2	90.7	87.2	88.8	91.6	93	90.2
19	93.1	94.1	94.3	94.8	94.9	95.3	96.5	96.1	94.2	88.2	83.4	80.8	77.7	77.8	77.5	80.3	89.4	94.5	94.4	98.4	97.7	95.9	96.1	100.7	91.1
20	102.4	102.7	102.7	104.3	?	?	?	104.3 ?	102.1	98	93.7	87.5	85	87.7	89.1	89.2	93.9	97.2	99	100.1	101.3	102.2	103.9	104.8 ?	97.7 ?
21	?	?	?	104.9 ?	104.5	103.6	103.5	102	101.6	99.1	93.3	83.4	82.8	81.6	82.1	85.9	93.5	99.4	102.4	104.5	?	?	?	?	95.8 ?
22	?	?	?	?	?	?	?	?	?	101.5 ?	96.2	91.4	83.3	75.7	77.2	77.5	83.3	91.5	96.7	99.6	101.6	99.6	98.9	102.3	91.7 ?
23	?	105 ?	104.9 ?	?	?	?	?	?	?	?	?	?	?	103.7 ?	102.2	102.2	103.4	104.3	104.2	104.6 ?	?	?	?	?	103.8 ?
24	?	?	?	?	?	?	?	?	?	?	?	101.9 ?	97.8	95.4	95.9	97.6	99.7	104.2	103.9	103.2	100.7	98.2	95.6	98.7	99.4 ?
25	101.1	103.1	102.9	100.3	96	99	101.8	103.4	100.7	92.1	76.2	66.5	57.3	56	55.6	62.8	54.7	59.3	62.2	64.7	66.2	69	71.7	74.1	79
26	76.6	79.3	81.6	80.5	82.6	85.3	85.3	76.2	65.7	61.5	61.5	59.9	57.2	54.4	52.4	52.4	59.6	68.1	73.1	76.4	80	81.7	87.6	88.9	72
27	91.9	94.1	94.4	94.9	98.5	101.7	102.1	100.6	96.8	91.1	87.5	82.9	80.1	77	76.8	79.6	85.5	98.8	103.3	?	?	?	102.6 ?	102.4	92.5 ?
28	102.9	104.3	104.5 ?	?	?	?	?	?	?	?	100.5 ?	88.6	74.9	70.3	69.5	69.4	70.9	76.1	78.4	80.5	72.2	72.4	72.9	76.5	81.5 ?
29	75.3	76.6	73.9	74.7	76.4	75.7	78.2	77.4	73.6	71.2	71	68.5	66.9	65.8	64.6	66.5	71	77.1	81.2	83.2	87.3	96	96.7	98.5	77
30	100.9	100.4	102.3	103.5	104	104.6	104.8 ?	101.8 ?	92.9	76.8	69.8	56.8	53.9	52.3	54.1	59.3	70.6	84.1	90.4	93.9	97.3	101.2	103.8	104.9 ?	86.8

Avg	87.9	89.9	90.9	91.5	91.9	92.7	93.8	92.3	86.9	79.9	74.8	69.2	65	64.9	63.8	65.4	68.9	76.9	82.1	84.1	84.3	86	87.6	88.8	82.7 ?
S D	11.2	11.2	11.3	11.4	10.8	9.9	8.9	10.6	13.6	15.2	16.8	17.4	17	18.9	19.9	19.8	18.1	17.4	15.3	14.4	12.6	11.9	12	12.5	11.7
S/A	0.13	0.12	0.12	0.12	0.12	0.11	0.09	0.11	0.16	0.19	0.22	0.25	0.26	0.29	0.31	0.3	0.26	0.23	0.19	0.17	0.15	0.14	0.14	0.14	0.14
Min	64.9	69.4	69.9	66.9	66.7	71.8	78.2	74.1	60.8	56.7	44.9	39.1	35.8	35.9	31.9	30.3	34.5	38.3	47.6	54.8	60.5	65.4	64.9	61.2	65
Max	103	105	104.9	104.9	104.5	104.6	104.8	104.3	103.3	101.5	100.5	101.9	97.8	103.7	102.2	104.2	103.4	104.3	105	104.6	103.9	102.2	103.9	104.9	103.8
n	300	308	295	299	299	298	297	299	310	309	321	333	336	343	348	348	336	346	336	323	312	312	318	309	7639

Data Recovery: 0.0% missing; 11.6% failed QC -- 8640 total measurements.

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

November 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	19.9	19.9	19.4	18.7	17.8	16.9	16.2	16.6	19.1	21.9	24.1	25.6	27	27.6	27.3	26.5	24.5	21.7	19	17.5	16.5	16	15.7	15.7	20.5
2	15.9	16	15.9	15.7	15.8	15.9	15.8	16	18	21.2	24.9	27.2	28.7	28.7	28.5	29.1	28.5	26.5	24.3	22.9	22	21.4	21.1	21	21.7
3	21	21	20.9	21	20.8	20.8	20.9	21	21.4	22.4	23.6	23.8	23.1	22.6	22	21.4	20.2	18.7	17.1	16	15.4	15	14.7	14.7	20
4	14.6	14.5	14.4	14.3	14.4	14.6	15.1	14.9	14.3	14.1	14.4	14.8	15.3	15.9	16.5	17.2	17.6	18.2	19.1	19.9	20.2	20.4	20.2	18.2	16.4
5	16.3	14.9	13.6	12.6	11.7	10.9	10.1	10.2	12.3	14.8	16.8	18.4	18.4	18.5	18.8	18.8	18.2	15.6	12.2	9.8	8.6	8.1	7.8	8.1	13.6
6	8.4	8.3	7.5	6.2	5.2	4.5	4	4.5	7.7	12.2	16.3	19.2	19.9	19.8	19.8	19.4	18.8	16.5	13.8	12.3	11.9	11.4	11	10.6	12
7	10.1	9.7	9.3	8.9	8.6	8.7	8.4	9.1	11.8	14.8	17.7	20.2	21.7	22.5	22.9	23.1	22.7	20.3	17.5	15.7	14.7	14.2	13.7	13.3	15
8	13	12.5	12.1	11.8	11.5	10.6	10	10.8	13.5	16	17.4	18.1	18.5	18.4	17.8	17.2	16.1	13.6	11	9.5	8.3	7.4	6.5	5.5	12.8
9	5	4.6	4	3.7	3.7	3.3	2.8	3.4	6.3	9.4	11.7	13	14	14.3	14	13.6	12.6	10.1	7.5	6	5.4	5.1	4.8	4.3	7.6
10	3.7	3.4	3.3	2.9	2.6	2.3	2.2	2.9	6	9.8	12.7	14.7	15.7	16.1	15.9	15.5	13.8	11	8.9	7.8	7.2	6.4	5.9	5.2	8.2
11	4.7	4.5	4	3.3	2.7	2.4	2.2	3.1	6.7	11.7	15.6	18	19.8	20	19.6	18.8	17.5	16.1	14.9	14	13.7	13.7	13.7	13.9	11.4
12	14	13.8	13.8	13.8	13.7	13.7	13.5	13.7	14.4	16.3	17.5	19.6	21.8	21.5	19.4	18	17.3	16.8	16.5	16.5	16.5	16.7	16.8	17	16.4
13	17.1	16.7	15.1	13.8	12.5	11.1	10.1	9.5	9.3	9.4	9.6	9.8	9.9	9.8	9.8	9.8	9.7	9	7.6	6.3	5.4	5.2	5.3	5.2	9.9
14	5	4.5	4.1	3.8	3.3	3	2.8	3	4.7	6.9	9	10.6	11.6	12.3	12.6	12.5	11.4	8.7	6	4	2.9	2	1.3	0.7	6.1
15	0.2	-0.1	-0.2	-0.3	-0.3	-0.6	-0.8	0.2	3.4	6.9	10.5	13.3	15.3	16.5	17.4	17.5	16.6	13.3	10.6	8.2	6.4	5.3	4.4	3.9	7
16	3.4	3.2	3.6	4	4.2	4.2	3.5	2.8	5.7	9.7	13.9	16.2	17.7	18.5	18.7	18.3	16.1	13.1	10.8	9.2	8	7.1	6.3	5.5	9.3
17	4.7	4	3.2	2.7	2.4	2.5	2.6	3.2	6.3	10.4	14.5	17.9	20.3	21.5	21.6	21.1	19.5	15.7	12.4	10.3	8.7	7.1	6.1	5.3	10.2
18	4.8	4.4	4	3.9	4.3	5.6	6.4	6.9	7.7	9.2	11.3	14.1	15.9	17.1	17.4	17.2	16.8	15.8	14.3	13.1	12.7	12.6	12	10.7	10.8
19	10.1	9.6	9.2	9.2	9.7	10.1	10.1	10	10.9	13	15.4	17.1	18.5	19.4	19.6	19.5	18.8	17.3	15.6	14.1	13	12.6	12.8	12.5	13.7
20	12.2	12.3	12.4	11.9	11.5	10.9	10.5	10.8	12.3	13.9	16	18.1	19.8	19.8	20	20	19.2	18.1	17	16.2	15.8	15.7	15.9	16.2	15.3
21	16.2	16.2	15.9	15.5	15	14.8	15	15.2	15.5	15.9	17.2	19.5	20.8	21.3	21	20.1	18.1	15.6	13.7	12.4	12	11.9	11.7	11.4	15.9
22	10.9	10.4	10.5	10.6	10.8	11	10.8	10.1	10.7	12.9	15.4	17.7	19.7	20.8	20.4	19.7	18.7	17	15.8	15	14.6	14.4	14.4	14.5	14.5
23	14.4	14.3	14.1	13.7	13.5	13.3	13.2	13.2	13.3	13.9	14.5	15.2	15.8	16.3	16.5	16.7	16.5	16.1	15.7	15.5	15.3	15.2	15.1	15.1	14.8
24	15	15.1	15.2	15.2	15.2	15.1	15	15	15.2	15.5	16.3	18	20.9	22.1	22.3	21.7	21.3	20.5	19.6	18.9	18.3	18.1	18.6	18.9	17.8
25	19	19	18.8	18.8	18.5	18.7	18.7	19	19.5	20.5	21.8	23.6	23.9	23	21.5	20.2	17.9	14.7	12.2	10.5	9.1	7.9	6.7	5.6	17
26	4.5	3.5	2.6	1.9	1.2	0.5	-0.3	-0.1	2.7	5.8	8.2	10.1	11.5	12.4	12.7	12.5	11.6	8.7	6.1	4.8	3.9	3.2	3.1	2.4	5.6
27	2.1	2.2	2.4	2.4	2.3	2.3	2.7	3.6	6.6	11.1	14.5	16.8	18	18.6	18.4	17.9	17	16	15.1	14.6	14.7	14.9	15.2	15.6	11
28	16	16.3	16.1	16	15.9	15.6	15.2	15.2	15.3	15.5	16.1	17.4	19.3	20.4	20.4	19.8	18.9	16.8	14.8	13.8	12.8	11.6	10.4	9.1	15.8
29	7.9	6.9	6.3	6.1	5.9	5.6	5.2	4.9	6.5	9.1	11.4	13.5	14.9	15.5	15.5	15.1	13.9	11	8.7	7.2	6.1	4.8	4	3.5	8.7
30	3.1	2.8	2.8	2.4	1.9	1.5	1.3	1.6	4.2	8.3	11.9	15.4	16.4	17.4	17.5	17.2	16.2	13.4	11.3	10.2	9.7	8.8	8.2	8.1	8.8
Avg	10.4	10.1	9.8	9.5	9.2	9	8.8	9	10.7	13.1	15.3	17.2	18.5	19	18.9	18.5	17.5	15.5	13.6	12.4	11.7	11.1	10.8	10.4	12.9
S D	6	6.1	6.1	6.1	6.1	6.1	6.2	6	5.2	4.5	4.2	4.2	4.2	4.1	3.9	3.9	3.8	4	4.3	4.7	4.9	5.2	5.4	5.6	4.3
S/A	0.58	0.6	0.62	0.65	0.66	0.68	0.7	0.67	0.48	0.34	0.27	0.24	0.23	0.22	0.21	0.21	0.22	0.26	0.32	0.37	0.42	0.46	0.5	0.54	0.34
Min	0.2	-0.1	-0.2	-0.3	-0.3	-0.6	-0.8	-0.1	2.7	5.8	8.2	9.8	9.9	9.8	9.8	9.8	9.7	8.7	6	4	2.9	2	1.3	0.7	5.6
Max	21	21	20.9	21	20.8	20.8	20.9	21	21.4	22.4	24.9	27.2	28.7	28.7	28.5	29.1	28.5	26.5	24.3	22.9	22	21.4	21.1	21	21.7
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: CSI Serial Number: Internal Temp Calibration Factor: N/A Calibration Date: 06/1995

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

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

Prepared by: Afshin M. Andreas, NREL

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

November 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	2.2	1.8	2	1.7	1.1	1.5	0.4	0.8	2.2	2.3	2.5	2.1	2	2.2	2.5	2.6	2.4	2.4	2.5	1.8	1.4	1.5	1.8	2	1.9
2	1.3	0.9	1.1	1.6	1.5	1.3	0.7	0.9	1.2	1.8	3.1	3.2	4.1	3.6	4	4	2	1.4	1.6	2	2.1	2.5	3	3.9	2.2
3	4.3	3.5	4	3.7	3.2	2.8	2.6	2.9	2.9	1.9	2	3.7	4.2	3.6	3.7	3.4	3	2.2	2	2.3	1.8	1.3	2	2.5	2.9
4	2.1	1.4	1.4	2.1	2.6	2.9	3.1	2.4	1.9	2.6	2.4	3	1.7	0.9	0.4	0.5	0.9	1	1.6	3.2	3.9	5.3	4.1	3.1	2.3
5	2.7	2.6	2.7	2.5	2.5	2.4	1.5	2.1	2.7	3.5	2.6	1.6	1.3	2.6	2.7	2.5	2	0.8	0.6	0.5	0.9	1	1.7	1.9	2
6	2	2.1	1.2	1.2	1.3	1.7	1	1	0.9	0.7	0.8	2	3.1	3.1	3.7	3.5	2.8	1.9	1.2	2.2	2	1.9	1.6	1.7	1.8
7	1.8	1.8	1.7	1.6	2.2	1.5	1.3	1.4	2.3	2.2	2.2	3.1	3.8	4	4.1	3.1	2.3	1.4	1.4	1.5	2	1.9	2.1	2.2	2.2
8	1.8	1.8	1.6	2.2	1.2	1.1	1.9	3.4	4.1	5.7	5.5	4.5	4.6	4.7	4.1	3.6	3.6	2.2	2.5	2.1	2	2	1.3	1.4	2.9
9	1.6	1.1	1.6	1.5	1.3	1.2	1.4	1.8	2.8	3.4	4.4	3.9	3.9	3.8	3.4	3.3	3	2.1	1.4	1.5	1.9	1.8	1.8	1.4	2.3
10	1.5	2.1	1.3	1.2	1.2	1.2	1	1.5	2	2.2	2.8	2.8	2.5	2.6	2.5	2.5	2.4	2.4	1.8	1.6	1.1	1.4	0.8	0.8	1.8
11	0.6	0.5	0.2	0.3	0.1	0.3	0.3	0.5	0.1	0.8	2	1.6	2	2.7	2.2	1.2	0	0.2	0.6	0.5	0.9	0.3	0.5	0.2	0.8
12	0.3	0.8	0.3	0.4	0.6	0.9	1.6	1.3	1.8	2.2	2	2.9	2.9	1.5	0.6	1	0.9	1.2	0.7	0.2	1.1	2.2	1.4	2.2	1.3
13	1.7	3.4	4.3	5.7	6.3	5.7	5.8	6	5.7	5	4.7	5.8	5.6	5.5	5.7	4.5	3.6	3.9	2.4	1.7	2.8	3.5	3.6	4.1	4.5
14	3.8	3.8	4.3	3.7	3.8	4.3	3.9	3.8	4.3	4.1	4.6	4.3	4.1	3.3	3.1	3.2	2.9	2	0.8	0.6	0.5	0.6	0.6	0.7	3
15	0.7	1.2	1	1.2	1.2	1.6	1.2	1.4	1.8	2.4	2.6	2.7	2.9	2.5	2.6	2.6	1.5	0.7	0.3	0.4	0.3	0.6	1	0.4	1.5
16	0.6	1.4	1.2	0.9	0.9	0.3	0.9	0.7	0.6	0.7	1	0.7	0.6	0.9	1.9	2.1	1.3	1.1	1.6	1.4	1.3	1.1	0.8	0.8	1
17	0.7	0.6	0.6	0.5	0.9	1.1	1	0.6	1.3	1.8	1.2	1	1.1	1.5	1.7	1.5	1.8	1.1	0.7	0.9	0.1	0.4	0.2	0.3	0.9
18	0.2	0.1	0.5	0.2	0.9	0.2	0.2	0.2	0.3	0.5	0.9	1.6	2	2	2.2	1.5	1.5	0.9	0.8	0.7	1.2	1	0.9	1.4	0.9
19	1.2	0.4	0.7	0.6	0.6	0.5	0.6	0.7	0.9	1.4	0.9	0.9	1.1	0.9	0.4	0.1	0	0.3	0.3	0.5	0.2	1	0.5	0.2	0.6
20	0.5	0.3	0.4	0.5	0.2	0.1	0.1	0	0.2	0.7	0.8	1.2	1.5	0.9	1.7	1.8	1	1.2	1	0.9	0.7	1.1	0.9	0.7	0.8
21	0.4	1.4	0.8	1.2	1.9	2.3	2.3	1.7	2.3	2.5	2.4	2.8	2.9	3.2	2.4	2.2	1.9	1.2	0.5	0.8	1	0.5	0	0	1.6
22	0	0	0	0	0.2	0.2	0	0.1	0.1	0.8	1.1	0.7	1.8	1.6	1.6	1.1	0.9	1.6	0.7	1.4	1	1	0.6	0.7	0.7
23	1	0.3	0.8	1.4	0.3	0.5	0.7	0.9	1.1	0.9	1	1.4	1.3	1.8	0.7	0.6	1.5	0.8	0.6	0.7	1.3	0.7	0.4	0.9	0.9
24	0.4	1.4	0.7	0.1	0.3	0.7	0.5	0.4	0.9	1.4	1.6	2.1	3.2	3.4	3.4	3.8	3.9	4.4	3.5	4.4	3.7	4.4	4.4	4.7	2.4
25	3.9	3.5	3.6	3.5	4.1	3.1	3.3	3.1	2.6	6.3	6.9	8	7.6	7.6	6.6	5.2	4.5	4	4	3.7	3.8	3.5	3.2	2.7	4.5
26	2.3	2.1	2.3	1.7	1.7	1.1	0.9	1.3	2.3	3.1	2.9	2.9	2.4	2	1.9	1.6	2	1.5	1.3	1.1	0.6	0.9	0.3	0.2	1.7
27	0.9	1.3	1.3	1.1	0.9	1.7	1.3	2.4	3.1	3.6	4	4.6	3.9	3.7	2.6	1.7	2	2.7	3	2.4	0.9	1.3	4.3	6.3	2.6
28	5	2.5	1.1	0.1	1.4	0	0.4	0.5	1	2	2.6	3.7	3.7	4	3.8	3.3	3.1	2.1	2	2.1	4.1	3.4	2.8	2.6	2.4
29	2.4	2.5	3.8	3.5	3.6	3.3	2.2	1.6	2.6	3.2	2.8	2.6	2.5	2.5	2.3	2.4	1.8	1.3	1.1	0.8	0.2	0.1	0.2	0.2	2.1
30	0.3	0.4	0	0.4	0.2	0.5	0.3	0.5	0.4	0.7	0.6	1.1	1	1.6	2.6	2.8	2.1	1.2	1.7	2	1.3	0.5	1.1	0.5	1

Avg	1.6	1.6	1.5	1.6	1.6	1.5	1.4	1.5	1.9	2.3	2.5	2.8	2.8	2.8	2.7	2.4	2.1	1.7	1.5	1.5	1.5	1.6	1.6	1.7	1.9
SD	1.3	1.1	1.3	1.4	1.4	1.3	1.3	1.3	1.3	1.5	1.5	1.6	1.5	1.5	1.4	1.2	1.1	1	0.9	1	1.1	1.3	1.3	1.5	1
S/A	0.81	0.69	0.83	0.88	0.88	0.88	0.92	0.86	0.71	0.64	0.61	0.59	0.54	0.53	0.52	0.5	0.51	0.6	0.64	0.66	0.73	0.79	0.81	0.9	0.52
Min	0	0	0	0	0.1	0	0	0	0.1	0.5	0.6	0.7	0.6	0.9	0.4	0.1	0	0.2	0.3	0.2	0.1	0.1	0	0	0.6
Max	5	3.8	4.3	5.7	6.3	5.7	5.8	6	5.7	6.3	6.9	8	7.6	7.6	6.6	5.2	4.5	4.4	4	4.4	4.1	5.3	4.4	6.3	4.5
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: 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

November 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	247	251	262	287	311	347	72	64	73	70	70	73	81	91	88	116	122	111	105	118	116	110	101	104	95
2	112	115	110	128	125	129	118	152	202	232	241	243	225	234	219	220	213	200	201	191	205	208	211	223	207
3	222	224	229	227	225	236	243	241	253	279	322	14	13	20	25	7	19	20	19	21	20	41	66	66	320
4	67	60	57	62	72	80	92	78	64	80	86	88	77	98	97	125	140	165	177	197	212	249	277	279	105
5	280	278	276	273	282	284	278	280	300	323	334	5	304	252	275	278	280	276	213	180	203	211	223	228	280
6	246	270	269	261	278	279	281	288	304	284	263	218	231	238	223	219	214	210	208	213	209	211	212	209	234
7	217	218	220	217	235	210	204	205	214	213	194	202	207	221	222	218	216	191	187	186	204	200	208	213	211
8	211	202	209	236	266	277	314	357	19	16	32	18	1	12	17	15	27	32	360	1	357	344	346	330	4
9	331	336	319	323	315	309	308	317	333	344	360	343	10	359	2	13	26	33	30	9	7	31	351	341	354
10	339	346	333	321	324	325	317	329	4	25	47	47	57	68	72	72	70	75	82	78	80	77	72	66	41
11	51	341	335	300	310	323	347	322	21	258	252	235	200	211	218	249	273	124	90	71	98	74	84	10	228
12	284	84	300	13	16	32	65	74	112	131	126	151	139	96	159	86	111	132	107	171	144	122	138	169	121
13	236	296	317	339	336	337	340	346	354	1	348	352	352	354	356	359	7	2	355	339	352	3	10	3	348
14	351	351	354	355	353	0	357	350	351	4	359	14	17	26	25	349	345	340	312	311	315	296	290	293	357
15	290	282	297	291	288	288	306	295	307	332	342	330	313	316	308	320	306	311	321	311	331	270	287	303	310
16	266	282	296	317	317	310	281	298	305	298	289	10	246	280	287	265	264	276	265	267	278	294	271	289	283
17	288	264	266	283	298	304	300	304	337	356	17	12	13	47	319	31	90	92	68	56	67	97	250	263	358
18	249	256	245	225	256	242	282	307	291	206	193	174	209	212	223	177	164	160	147	162	188	190	181	184	196
19	204	198	205	209	208	208	213	216	210	207	232	231	209	182	174	193	67	84	55	128	147	129	136	20	196
20	72	99	96	110	110	158	149	159	147	150	150	177	247	106	137	139	130	144	153	156	171	165	167	258	152
21	251	305	290	310	320	345	358	356	343	1	354	17	24	18	15	25	64	57	71	48	28	61	124	0	6
22	251	238	0	127	118	126	210	244	227	161	147	94	135	146	167	176	150	123	108	109	101	115	107	75	132
23	98	57	100	101	83	112	61	75	70	72	71	106	98	98	86	70	86	75	34	19	24	44	23	35	76
24	42	61	64	76	74	84	83	128	120	123	119	111	132	140	140	154	165	165	169	163	167	183	188	175	154
25	171	164	163	179	189	193	197	206	209	232	229	251	266	270	272	285	285	279	277	272	277	275	277	281	245
26	288	285	290	291	289	286	301	307	336	353	1	6	14	3	31	19	50	55	61	62	53	24	349	4	349
27	357	24	20	5	11	27	22	49	68	69	77	87	91	102	112	92	87	109	96	96	100	140	127	121	87
28	124	139	216	225	69	253	313	300	286	290	288	291	299	290	288	295	319	308	331	332	343	331	335	337	310
29	328	332	340	324	341	348	334	314	316	352	21	356	3	355	2	19	10	7	43	37	46	356	329	309	349
30	305	13	331	282	298	274	269	249	259	255	238	93	99	94	108	115	127	129	108	117	138	159	144	147	123
Avg	249	284	290	298	308	322	326	329	343	350	359	4	348	345	323	342	43	79	85	128	226	225	220	211	334
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

November 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	3.3	2.9	3.1	2.8	1.9	2.4	1	1.5	3.7	3.9	3.9	3.5	3.6	3.6	3.9	3.8	3.7	3.6	3.7	2.8	2.3	2.2	2.7	2.8	3
2	2.1	1.6	1.9	2.3	2.2	2.1	1.2	1.7	2.3	3.1	5	5.6	6.7	5.5	6.7	6.7	3.5	2.5	2.7	3.8	3.6	4.3	4.9	6.4	3.7
3	7	6	6.9	5.8	4.9	4.4	4.4	4.7	5	4.1	3.9	7.2	7.5	6.3	6.6	6.1	5.6	4.3	3.8	4	3.3	2.4	3.6	4.3	5.1
4	3.5	2.6	2.5	3.4	3.9	4.6	5.5	4	3.5	4.5	4.7	5.3	3.7	2.8	1.4	1.3	2.2	2.6	3.4	5.8	6.7	8.8	7.9	6.3	4.2
5	5.8	5.6	5.5	4.8	5.5	4.7	3.1	4	5.8	6.2	4.7	3.3	3	4.6	5.2	5	3.8	1.6	1.1	1	1.6	1.8	2.6	2.7	3.9
6	3.1	3.3	2	2.1	2.3	2.9	1.8	2	2.1	1.9	1.8	3.8	5.6	5.5	6	5.7	4.4	3	1.9	3.4	3	3	2.6	2.8	3.2
7	2.6	2.6	2.5	2.5	3.2	2.4	2.1	2.5	3.7	3.6	3.7	5.3	6.3	6.2	6.7	5.1	3.6	2.5	2.6	2.7	3.4	3	3.3	3.6	3.6
8	2.9	3	2.7	3.3	2.2	2.1	3.4	6	7.9	10.3	9.5	7.9	8.4	8.3	7.5	6.8	6.3	4.1	4.2	3.7	3.3	3.3	2.3	2.4	5.1
9	2.7	2.3	2.9	2.7	2.4	2.1	2.4	3.4	5.5	6.5	7.7	7	6.7	6.4	5.9	5.7	5.2	4.1	2.4	2.8	3.2	3.3	2.9	2.4	4.1
10	2.3	3.3	2.2	2.1	2.3	2	2	2.7	3.5	3.5	4.9	4.9	4.6	4.5	4.3	3.8	4	3.7	3.1	2.5	1.7	2	1.2	1.3	3
11	0.9	0.9	0.6	0.7	0.5	0.8	0.8	1.1	0.6	1.7	3.3	3.2	3.6	4.4	3.5	2	0.2	0.5	1.1	1	1.5	0.7	0.9	0.6	1.4
12	0.7	1.2	0.8	0.8	1.3	1.7	2.5	2	3.1	3.7	3.4	5	4.8	2.7	1.6	1.9	1.9	2.2	1.7	1	2.5	3.7	3	4.4	2.4
13	3.7	7	8.4	9.5	11.1	10.5	10.5	10.6	9.9	8.8	8.4	10.3	9.9	10.4	10.2	7.8	7	6.9	4	3	4.8	6.4	6.5	7.2	8
14	6.4	6.2	7.5	6.7	6.4	7.2	6.7	6.3	7	7.2	7.5	7.6	7.2	5.8	5.7	5.4	5.1	3.5	1.8	1.5	1.3	1.3	1.4	1.4	5.2
15	1.3	2.1	2	2.3	2.3	2.8	2.2	2.7	3.6	4.4	4.9	5.1	5.6	4.8	5.3	4.8	3.2	1.6	0.7	0.6	0.6	1.1	1.7	0.8	2.8
16	1.1	2.5	2.4	1.6	1.6	0.8	1.5	1.3	1.6	1.7	2.1	1.6	1.6	2.2	3.5	3.5	2.2	2	2.3	2.3	2.1	2	1.3	1.4	1.9
17	1.4	1.1	1.2	1.1	1.6	1.9	1.8	1.3	2.4	3.1	2.3	2.2	2.4	2.5	3.6	2.8	2.8	1.7	1.1	1.6	0.3	0.6	0.4	0.6	1.7
18	0.5	0.1	0.9	0.5	1.4	0.5	0.7	0.8	1	1.3	1.9	3	3.3	3.2	3.6	2.7	2.7	1.7	1.5	1.4	2.2	2.1	1.9	2.7	1.7
19	2	1.2	1.5	1.2	1.3	1.2	1.2	1.4	2	2.5	1.8	1.8	2.2	1.8	1.1	0.3	0.1	0.5	0.8	1	0.6	1.6	1	0.6	1.3
20	0.9	0.6	0.8	0.8	0.4	0.3	0.3	0.1	0.9	1.4	1.6	2.3	2.6	1.6	2.6	2.9	1.8	2	1.8	1.7	1.5	1.9	1.7	1.5	1.4
21	1	2.6	1.7	2.7	3.8	4.4	4.3	3.4	4.2	4.5	4.3	4.8	4.8	5.3	4.5	3.9	3.1	2.2	1.3	1.6	1.9	1.3	0.1	0	3
22	0	0.2	0	0.2	1.1	0.8	0.2	0.2	0.2	1.9	2.3	1.8	3.3	2.9	2.9	2.3	1.7	2.4	1.2	2.1	1.7	1.6	1.3	1.3	1.4
23	1.8	0.8	1.7	2.6	1.1	1.4	2	2.1	2.5	2.1	2.3	2.7	2.6	3.2	1.8	1.3	3.1	1.7	1.6	2.1	2.7	1.7	1.5	2.2	2
24	1.5	2.8	1.8	0.5	1	1.9	1.5	1.2	2.1	2.5	3	3.6	5.2	5.7	5.7	5.9	6.7	7.2	6.6	7.8	6.7	7.9	7.6	8	4.3
25	7	5.9	6	6.3	7.4	5.9	5.8	5.9	5	10.3	10.9	13.5	14.6	13.2	12.1	10.1	9.1	7.8	7.4	7.3	7.3	6.6	5.6	5	8.2
26	4.5	4.4	4.4	3.3	3	2.2	1.9	3	4.6	5.9	5.4	5	4.8	3.8	3.5	3.1	3.5	2.4	2.3	1.9	1.3	1.3	0.8	0.7	3.2
27	1.5	1.8	2	1.7	1.6	2.3	1.9	3.4	4.8	6.1	6.3	7.7	6.7	6.3	4.4	2.8	3.6	4.5	5.3	4.1	2.3	2.9	7.2	10.6	4.2
28	8.3	4.7	2.6	0.4	2.5	0.1	1.4	1.5	2.6	4.7	6.2	7.5	7.4	8.1	7.8	7.1	6	4	3.4	4.1	6.7	6.1	5.1	4.6	4.7
29	4.6	4.4	6.4	6.5	5.9	5.5	4.1	3.5	5.1	5.4	4.7	4.8	4.9	4.6	4.1	4.2	3.4	2.3	1.9	1.4	0.5	0.2	0.6	0.5	3.7
30	0.6	0.8	0.1	0.8	0.6	1	0.8	0.9	0.8	1.5	1.4	2.2	2	3	4.3	4.6	3.2	2	2.4	3	2.2	1	1.8	1.1	1.8
Avg	2.8	2.8	2.8	2.7	2.9	2.8	2.6	2.8	3.6	4.3	4.5	5	5.2	5	4.9	4.3	3.7	3	2.6	2.8	2.8	2.9	2.8	3	3.4
SD	2.2	1.9	2.2	2.3	2.4	2.3	2.2	2.2	2.2	2.5	2.4	2.7	2.7	2.6	2.5	2.2	2	1.8	1.6	1.8	1.9	2.2	2.2	2.6	1.7
S/A	0.78	0.69	0.79	0.83	0.83	0.83	0.84	0.77	0.63	0.59	0.55	0.55	0.53	0.52	0.51	0.51	0.52	0.59	0.62	0.64	0.7	0.77	0.79	0.86	0.51
Min	0	0.1	0	0.2	0.4	0.1	0.2	0.1	0.2	1.3	1.4	1.6	1.6	1.6	1.1	0.3	0.1	0.5	0.7	0.6	0.3	0.2	0.1	0	1.3
Max	8.3	7	8.4	9.5	11.1	10.5	10.5	10.6	9.9	10.3	10.9	13.5	14.6	13.2	12.1	10.1	9.1	7.8	7.4	7.8	7.3	8.8	7.9	10.6	8.2
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

November 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	1014	1014	1015	1015	1016	1017	1017	1018	1019	1019	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1019	1019	1019	1018	1018	
2	1018	1018	1018	1018	1018	1018	1018	1019	1019	1019	1019	1018	1017	1016	1016	1015	1015	1015	1015	1015	1014	1014	1014	1014	1013	1017
3	1013	1013	1012	1013	1013	1013	1014	1014	1015	1015	1015	1016	1016	1016	1017	1017	1018	1019	1019	1019	1020	1020	1020	1019	1016	
4	1019	1019	1018	1018	1017	1016	1016	1015	1015	1014	1013	1012	1010	1009	1007	1006	1005	1004	1004	1003	1003	1003	1003	1003	1011	
5	1004	1004	1004	1005	1006	1007	1008	1009	1010	1011	1011	1011	1011	1011	1011	1011	1012	1012	1012	1013	1013	1014	1014	1014	1010	
6	1014	1014	1014	1014	1015	1015	1015	1016	1016	1016	1016	1015	1014	1013	1013	1012	1012	1012	1013	1013	1013	1014	1013	1013	1014	
7	1013	1013	1012	1012	1012	1013	1013	1013	1014	1014	1014	1013	1012	1011	1011	1010	1010	1010	1010	1010	1011	1011	1011	1011	1012	
8	1010	1010	1010	1010	1011	1012	1013	1015	1016	1017	1018	1018	1018	1018	1019	1019	1020	1021	1022	1022	1023	1024	1024	1024	1017	
9	1024	1024	1024	1025	1025	1026	1027	1027	1028	1028	1029	1028	1028	1028	1028	1028	1028	1029	1029	1030	1030	1030	1031	1031	1028	
10	1031	1031	1031	1031	1031	1032	1032	1033	1033	1034	1034	1033	1033	1032	1031	1031	1031	1031	1031	1031	1031	1031	1030	1030	1032	
11	1029	1028	1028	1027	1027	1026	1026	1026	1026	1027	1027	1027	1025	1024	1023	1023	1022	1022	1022	1022	1022	1022	1021	1021	1025	
12	1020	1020	1019	1019	1019	1019	1019	1019	1019	1019	1019	1018	1018	1017	1016	1016	1015	1015	1015	1015	1015	1015	1014	1013	1017	
13	1013	1014	1015	1015	1016	1017	1019	1020	1022	1023	1023	1024	1024	1025	1025	1026	1027	1028	1029	1030	1030	1031	1031	1032	1023	
14	1032	1032	1032	1033	1034	1034	1035	1036	1037	1037	1037	1037	1036	1036	1035	1035	1036	1036	1036	1036	1036	1035	1035	1035	1035	
15	1035	1034	1034	1034	1034	1034	1034	1034	1034	1034	1033	1033	1032	1031	1031	1031	1031	1030	1030	1030	1030	1030	1030	1029	1032	
16	1029	1028	1028	1028	1028	1028	1028	1028	1028	1028	1028	1027	1026	1026	1025	1025	1025	1025	1025	1025	1025	1024	1024	1024	1027	
17	1024	1024	1024	1024	1024	1024	1024	1024	1025	1025	1025	1024	1024	1023	1023	1023	1024	1024	1024	1024	1024	1024	1024	1023	1024	
18	1023	1023	1022	1022	1022	1023	1023	1024	1024	1023	1023	1022	1021	1021	1020	1020	1020	1020	1020	1020	1021	1021	1020	1020	1022	
19	1019	1019	1019	1019	1019	1019	1019	1019	1019	1020	1020	1019	1018	1018	1017	1017	1018	1018	1018	1018	1018	1018	1018	1018	1018	
20	1018	1018	1018	1018	1018	1018	1018	1018	1019	1019	1019	1018	1018	1017	1017	1016	1016	1017	1017	1017	1017	1017	1017	1017	1018	
21	1017	1017	1017	1017	1018	1019	1019	1020	1021	1021	1022	1021	1021	1020	1020	1021	1021	1021	1021	1021	1021	1021	1021	1021	1020	
22	1021	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021	1020	1019	1018	1017	1017	1017	1017	1017	1017	1016	1016	1016	1019		
23	1015	1015	1014	1014	1014	1014	1014	1014	1014	1015	1015	1014	1014	1013	1012	1012	1013	1013	1013	1013	1013	1013	1013	1013	1014	
24	1012	1012	1012	1012	1012	1012	1012	1013	1013	1012	1011	1010	1009	1008	1007	1006	1006	1006	1005	1005	1003	1003	1002	1001	1008	
25	1000	1000	1000	999	997	997	996	996	996	996	995	995	995	997	998	1000	1002	1004	1005	1007	1008	1010	1011	1012	1001	
26	1012	1013	1014	1015	1016	1017	1018	1019	1020	1021	1021	1021	1021	1021	1021	1021	1022	1022	1023	1023	1024	1024	1024	1024	1020	
27	1024	1024	1023	1023	1023	1023	1023	1023	1023	1022	1022	1021	1020	1019	1018	1018	1017	1016	1015	1013	1012	1012	1010	1009	1019	
28	1008	1007	1007	1007	1005	1005	1006	1006	1007	1008	1008	1008	1008	1008	1009	1010	1011	1012	1013	1014	1016	1017	1018	1018	1010	
29	1019	1019	1020	1020	1021	1021	1022	1023	1024	1024	1024	1023	1023	1022	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1022	
30	1023	1022	1022	1022	1022	1023	1023	1023	1024	1024	1024	1023	1022	1021	1020	1020	1020	1020	1020	1020	1020	1020	1019	1018	1022	
Avg	1018	1018	1018	1018	1018	1019	1019	1020	1020	1020	1020	1020	1019	1018	1018	1018	1018	1019	1019	1019	1019	1019	1019	1019	1019	
S D	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	
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	1000	1000	1000	999	997	997	996	996	996	996	995	995	995	997	998	1000	1002	1004	1004	1003	1003	1003	1002	1001	1001	
Max	1035	1034	1034	1034	1034	1034	1035	1036	1037	1037	1037	1037	1036	1036	1035	1035	1036	1036	1036	1036	1036	1036	1035	1035	1035	
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640		

Data Recovery: 0.0% missing; 0.0% 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.

Prepared by: Afshin M. Andreas, NREL

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

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