

November 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	19	136	317	462	581	617	507	440	182	130	53	3	0	0	0	0	0	0	3448
2	0	0	0	0	0	0	8	88	227	344	607	662	647	566	428	246	66	0	0	0	0	0	0	0	3890
3	0	0	0	0	0	0	24	133	321	475	588	646	635	559	427	245	65	0	0	0	0	0	0	0	4118
4	0	0	0	0	0	0	15	131	326	451	581	647	654	568	440	246	63	0	0	0	0	0	0	0	4122
5	0	0	0	0	0	0	14	113	288	395	508	591	565	525	398	222	51	0	0	0	0	0	0	0	3670
6	0	0	0	0	0	0	19	137	287	457	566	603	569	513	350	205	45	0	0	0	0	0	0	0	3751
7	0	0	0	0	0	0	16	115	276	436	554	611	598	523	388	192	59	0	0	0	0	0	0	0	3769
8	0	0	0	0	0	0	15	76 ?	344 ?	434	543	593	545	507	387	209	48	0	0	0	0	0	0	0	3701
9	0	0	0	0	0	0	5	71	220	385	423	559	521	472	301	186	50	0	0	0	0	0	0	0	3192
10	0	0	0	0	0	0	0	3 ?	31 ?	145	341	469	538	430	398	215	54	0	0	0	0	0	0	0	2624 ?
11	0	0	0	0	0	0	8	110	289	448	560	616	605	528	397	215	52	0	0	0	0	0	0	0	3827
12	0	0	0	0	0	0	11	105	276	429	537	595	587	504	362	190	55	0	0	0	0	0	0	0	3650
13	0	0	0	0	0	0	11	102	272	422	517	576	493	463	312	209	35	0	0	0	0	0	0	0	3413
14	0	0	0	0	0	0	14	122	233	422	506	555	545	331	383	184	38	0	0	0	0	0	0	0	3334
15	0	0	0	0	0	0	6	44	166	374	532	473	465	359	303	114	17	0	0	0	0	0	0	0	2853
16	0	0	0	0	0	0	9	87	205	402	493	407	391	245	264	130	20	0	0	0	0	0	0	0	2652
17	0	0	0	0	0	0	3	27	74	122	295	567	590	476	377	204	50	0	0	0	0	0	0	0	2784
18	0	0	0	0	0	0	7	76	260	426	543	514	518	514	371	188	45	0	0	0	0	0	0	0	3462
19	0	0	0	0	0	0	7	84	256	418	528	582	574	499	369	200	47	0	0	0	0	0	0	0	3563
20	0	0	0	0	0	0	4	42	130	276	270	259	373	264	164	102	13	0	0	0	0	0	0	0	1897
21	0	0	0	0	0	0	0	5	?	33 ?	34 ?	?	78 ?	91 ?	42	22	5	0	0	0	0	0	0	0	311 ?
22	0	0	0	0	0	0	2	5	27 ?	96	94	123	230	311	233	22	6	0	0	0	0	0	0	0	1149
23	0	0	0	0	0	0	5	76	249	415	526	580	541	298	369	189	42	0	0	0	0	0	0	0	3290
24	0	0	0	0	0	0	5	50	230	378	500	555	549	481	355	182	41	0	0	0	0	0	0	0	3328
25	0	0	0	0	0	0	3	88	249	400	515	567	480	446	249	127	52	0	0	0	0	0	0	0	3176
26	0	0	0	0	0	0	4	67	230	389	499	554	546	474	313	161	21	0	0	0	0	0	0	0	3259
27	0	0	0	0	0	0	6	82	154	344	315	373	272	209	155	78	18	0	0	0	0	0	0	0	2005
28	0	0	0	0	0	0	5	48	178	242	329	222	268	181	162	106	22	0	0	0	0	0	0	0	1762
29	0	0	0	0	0	0	5	44	181	331	357	333	418	373	166	61	9	0	0	0	0	0	0	0	2276
30	0	0	0	0	0	0	0	57	147	347	421 ?	516	525	447	332	168	38	0	0	0	0	0	0	0	2998
Avg	0	0	0	0	0	0	8	77	222	357	455	516	494	420	313	165	39	0	0	0	0	0	0	0	3042
S/D	0	0	0	0	0	0	6	39	83	116	143	135	134	125	101	62	18	1	0	0	0	0	0	0	891
S/A	0	0	0	0	0	0	0.75	0.51	0.37	0.33	0.31	0.26	0.27	0.3	0.32	0.38	0.47	5.48	0	0	0	0	0	0	0.29
Min	0	0	0	0	0	0	0	3	27	33	34	123	78	91	42	22	5	0	0	0	0	0	0	0	311
Max	0	0	0	0	0	0	24	137	344	475	607	662	654	568	440	246	66	3	0	0	0	0	0	0	4122
n	0	0	0	0	0	0	111	346	328	349	346	348	352	356	358	358	317	2	0	0	0	0	0	0	3571

Daylight Data Recovery: 0.0% missing; 2.7% exceed the 15% QC threshold -- 3670 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

November 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	159	539	726	750	812	649	285	332	20	40	30	0	0	0	0	0	0	0	4341
2	0	0	0	0	0	0	2	15	251	433	891	919	911	881	829	715	387	0	0	0	0	0	0	0	6234
3	0	0	0	0	0	0	200	570	765	852	888	908	905	889	837	721	396	0	0	0	0	0	0	0	7928
4	0	0	0	0	0	0	177	561	736	761	869	913	884	892	848	734	385	0	0	0	0	0	0	0	7762
5	0	0	0	0	0	0	69	373	601	521	616	648	678	770	718	552	215	0	0	0	0	0	0	0	5763
6	0	0	0	0	0	0	71	410	664	824	801	754	643	755	439	304	30	0	0	0	0	0	0	0	5695
7	0	0	0	0	0	0	65	374	619	756	834	867	828	806	710	450	276	0	0	0	0	0	0	0	6584
8	0	0	0	0	0	0	9	200 ?	746 ?	831	833	803	666	781	747	591	207	0	0	0	0	0	0	0	6414
9	0	0	0	0	0	0	0	21	334	422	406	656	566	556	333	184	53	0	0	0	0	0	0	0	3530
10	0	0	0	0	0	0	0	0	0	10	177	415	735	672	808	634	279	0	0	0	0	0	0	0	3730
11	0	0	0	0	0	0	125	542	773	869	904	923	920	891	833	693	348	0	0	0	0	0	0	0	7819
12	0	0	0	0	0	0	148	530	755	856	885	895	889	822	675	531	302	0	0	0	0	0	0	0	7288
13	0	0	0	0	0	0	45	474	731	776	778	833	565	591	462	566	75	0	0	0	0	0	0	0	5897
14	0	0	0	0	0	0	42	303	428	669	732	745	698	265	603	479	177	0	0	0	0	0	0	0	5140
15	0	0	0	0	0	0	1	3	143	402	617	405	313	265	411	45	0	0	0	0	0	0	0	0	2605
16	0	0	0	0	0	0	25	333	474	674	703	204	394	25	355	241	0	0	0	0	0	0	0	0	3427
17	0	0	0	0	0	0	0	1	0	0	31	548	729	744	823	703	365	0	0	0	0	0	0	0	3944
18	0	0	0	0	0	0	0	340	692	826	843	489	575	854	788	626	316	0	0	0	0	0	0	0	6348
19	0	0	0	0	0	0	87	491	753	852	897	909	907	882	818	684	338	0	0	0	0	0	0	0	7619
20	0	0	0	0	0	0	1	2	58	210	193	37	76	12	4	12	1	0	0	0	0	0	0	0	606
21	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
22	0	0	0	0	0	0	0	1	0	2	2	3	32	260	370	0	0	0	0	0	0	0	0	0	669
23	0	0	0	0	0	0	54	499	783	887	927	934	789	247	800	672	298	0	0	0	0	0	0	0	6892
24	0	0	0	0	0	0	15	196	650	705	849	891	888	867	803	641	276	0	0	0	0	0	0	0	6781
25	0	0	0	0	0	0	0	325	646	824	904	924	639	654	380	168	262	0	0	0	0	0	0	0	5725
26	0	0	0	0	0	0	10	460	753	864	909	925	920	883	609	511	31	0	0	0	0	0	0	0	6875
27	0	0	0	0	0	0	4	197	57	449	188	209	38	7	7	28	0	0	0	0	0	0	0	0	1183
28	0	0	0	0	0	0	1	49	297	171	202	4	32	4	41	105	0	0	0	0	0	0	0	0	905
29	0	0	0	0	0	0	0	14	158	291	236	180	271	376	7	0	0	0	0	0	0	0	0	0	1532
30	0	0	0	0	0	0	0	171	134	594	770 ?	850	854	706	697	585	264	0	0	0	0	0	0	0	5624
Avg	0	0	0	0	0	0	44	267	458	569	623	615	588	556	526	407	177	0	0	0	0	0	0	0	4829
S D	0	0	0	0	0	0	61	213	301	305	325	333	315	328	308	276	151	0	0	0	0	0	0	0	2465
S/A	0	0	0	0	0	0	1.39	0.8	0.66	0.54	0.52	0.54	0.54	0.59	0.59	0.68	0.85	0	0	0	0	0	0	0	0.51
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	200	570	783	887	927	934	920	892	848	734	396	0	0	0	0	0	0	0	7928
n	0	0	0	0	0	0	111	357	357	359	356	360	360	360	360	360	317	2	0	0	0	0	0	0	3659

Daylight Data Recovery: 0.0% missing; 0.3% exceed the 15% QC threshold -- 3670 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.

November 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	14	38	59	81	87	170	295	226	169	119	48	3	0	0	0	0	0	0	1308
2	0	0	0	0	0	0	8	84	125	108	68	64	63	62	53	41	18	0	0	0	0	0	0	0	696
3	0	0	0	0	0	0	14	35	49	57	63	63	63	58	53	42	18	0	0	0	0	0	0	0	513
4	0	0	0	0	0	0	10	35	75	72	65	63	99	68	66	43	17	0	0	0	0	0	0	0	613
5	0	0	0	0	0	0	13	48	83	133	141	177	134	95	81	68	23	0	0	0	0	0	0	0	996
6	0	0	0	0	0	0	17	48	58	59	94	118	152	95	142	112	41	0	0	0	0	0	0	0	936
7	0	0	0	0	0	0	12	44	67	71	68	65	80	80	75	72	26	0	0	0	0	0	0	0	660
8	0	0	0	0	0	0	16	42 ?	51 ?	56	65	87	116	77	61	52	21	0	0	0	0	0	0	0	644
9	0	0	0	0	0	0	6	67	103	181	182	147	166	162	145	132	42	0	0	0	0	0	0	0	1333
10	0	0	0	0	0	0	0	7	23	132	238	202	81	66	51	46	20	0	0	0	0	0	0	0	865
11	0	0	0	0	0	0	8	29	45	51	56	55	55	53	48	37	14	0	0	0	0	0	0	0	452
12	0	0	0	0	0	0	9	30	44	46	49	54	57	66	74	48	22	0	0	0	0	0	0	0	499
13	0	0	0	0	0	0	9 ?	29	43	64	78	70	138	139	111	66	28	0	0	0	0	0	0	0	774
14	0	0	0	0	0	0	14 ?	77	90	118	98	102	125	178	133	65	19	0	0	0	0	0	0	0	1019
15	0	0	0	0	0	0	6 ?	44	108	176	177	221	259	200	118	99	17	0	0	0	0	0	0	0	1425
16	0	0	0	0	0	0	10 ?	35	59	89	96	269	144	230	120	56	20	0	0	0	0	0	0	0	1129
17	0	0	0	0	0	0	4	28	75	122	278	224	158	84	48	35	14	0	0	0	0	0	0	0	1070
18	0	0	0	0	0	0	8 ?	31	55	63	88	214	173	76	57	37	14	0	0	0	0	0	0	0	817
19	0	0	0	0	0	0	8 ?	26	41	47	50	56	56	52	47	41	16	0	0	0	0	0	0	0	440
20	0	0	0	0	0	0	5 ?	42	113	175	161	228	323	257	162	99	13	0	0	0	0	0	0	0	1578
21	0	0	0	0	0	0	0	5	16 ?	26	30 ?	27 ?	50	78	39	21	5	0	0	0	0	0	0	0	296 ?
22	0	0	0	0	0	0	2	5	23	96	94	122	212	178	78	22	6	0	0	0	0	0	0	0	838
23	0	0	0	0	0	0	4	21	38	47	53	59	100	176	64	38	13	0	0	0	0	0	0	0	613
24	0	0	0	0	0	0	6 ?	24	54	77	65	58	57	53	47	37	15	0	0	0	0	0	0	0	494
25	0	0	0	0	0	0	4 ?	49	69	57	57	54	113	114	89	87	28	0	0	0	0	0	0	0	721
26	0	0	0	0	0	0	5 ?	21	36	40	43	46	45	46	73	42	16	0	0	0	0	0	0	0	412
27	0	0	0	0	0	0	?	57	133	148	201	236	250	208	153	73	18	0	0	0	0	0	0	0	1477
28	0	0	0	0	0	0	?	39	100	168	210	219	245	178	142	77	22	0	0	0	0	0	0	0	1401
29	0	0	0	0	0	0	?	40	136	210	225	227	250	167	163	61	9	0	0	0	0	0	0	0	1487
30	0	0	0	0	0	0	0	30	112	95	76	66	63	90	67	39	14	0	0	0	0	0	0	0	653
Avg	0	0	0	0	0	0	8	37	69	96	108	126	137	120	91	60	20	0	0	0	0	0	0	0	872
S D	0	0	0	0	0	0	5	18	34	50	68	76	81	64	42	29	10	1	0	0	0	0	0	0	373
S/A	0	0	0	0	0	0	0.61	0.5	0.49	0.52	0.62	0.61	0.59	0.53	0.47	0.48	0.49	5.48	0	0	0	0	0	0	0.43
Min	0	0	0	0	0	0	0	5	16	26	30	27	45	46	39	21	5	0	0	0	0	0	0	0	296
Max	0	0	0	0	0	0	17	84	136	210	278	269	323	257	169	132	48	3	0	0	0	0	0	0	1578
n	0	0	0	0	0	0	91	355	350	359	356	356	358	358	360	360	317	2	0	0	0	0	0	0	3622

Daylight Data Recovery: 0.0% missing; 1.3% exceed the 15% QC threshold -- 3670 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17880F3 Calibration Factor: 8.067 $\mu\text{V}/\text{W}/\text{m}^2$ 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 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	11.7	11.5	11.2	11	11	10.8	10.9	12.2	16	18.7	21.1	21.4	21.5	21.4	21.2	20.3	18.8	17.4	16.7	16.5	15.6	15.9	15.7	15.4	16
2	15.4	15.6	14.6	14.7	14.9	14.4	13.8	13.3	13.7	14.1	15.1	15.6	16.2	16.3	16.7	17	16.5	14.5	12.7	11.3	9.4	9.4	9.3	8	13.8
3	7	6.6	6.2	5.4	5.3	5.9	6.9	8.7	11.3	14.1	16.1	17.4	18.1	18.7	19.1	19.2	18.5	16.1	14.1	13.3	13.2	12.5	12.4	11.9	12.4
4	11.8	12	11.6	11.1	10.8	10.5	10.4	11.3	14.3	16.8	18.7	20	20.9	21.8	22.3	22.3	21.3	18.9	17.2	16.8	16.7	15.9	15.5	15.2	16
5	15	14.6	14.5	14.3	14.2	14	13.8	14.7	16.7	18.7	20.2	21.4	22.3	23.1	23.2	23.1	21.6	19.6	18.7	18.1	17.2	16.9	16.4	16.3	17.9
6	15.9	15.5	15.2	14.9	14.6	14.6	14.6	15.4	17.4	19.7	21.5	22.4	23.2	23.9	24.1	23.7	22.7	21.1	19.7	19.4	19.1	18.7	18.1	17.7	18.9
7	17.5	17.4	17.1	16.7	16.3	15.7	15	15.3	16.9	18.7	20.3	21.6	21.8	21.5	21.2	20.2	18.6	16.9	15.8	14.7	14	13.4	13.3	12.1	17.2
8	11.9	12.2	11.7	11	10	9.7	9.2	10.5	12.9	16.2	19	20.4	21.6	22.6	23.3	23.3	22.2	20	18.6	18.3	17.9	16.8	16	15.2	16.3
9	14.9	14.9	15.1	15.1	15.3	15.5	15.7	15.9	17.5	20	21.3	22.6	23.9	25.1	25.5	25	23.9	22.2	21	20.4	19.7	19.8	19.6	19.5	19.6
10	19.5	19.3	19.2	19	19	19.2	19.5	17	16.6	17	16.3	16.4	17.1	17.5	17.3	16	14.5	12.7	11.6	11	10.2	9.3	8.5	8	15.5
11	7	6.5	6.2	6.1	5.6	3.6	2.8	3.6	6.4	9.5	11.2	12.4	12.9	13.5	13.9	14.1	13.4	11.6	9.8	8.3	8.5	7.7	6.4	5.7	8.6
12	5.1	5.1	4.5	5.1	4.5	4.1	3	5	8.4	12.6	15	15.6	16.1	16.6	16.3	16.3	15.3	13.3	12.7	12	11.5	11.3	11.1	10.7	10.5
13	10.4	10.4	10	9.5	9.7	10.3	10.7	11.8	14.4	17.3	19.1	20	20.8	21.3	21.6	22	20.9	19.2	18	17.3	17	17	17.1	17	16
14	16.7	16.7	16.3	15.6	15.2	14.9	14.8	15.7	17.9	20.4	21.8	23	23.5	23.6	24.4	24.4	23.2	20.9	19.6	18.6	18	17.2	16.2	16	18.9
15	15.7	15.6	15.6	15.6	15.6	16.2	17	18	18.8	20	21.3	23.1	23.4	21.3	22.4	22.2	21.5	20.9	20.1	19.4	19.3	19.3	18.9	18.7	19.2
16	18.3	17.8	17.7	17.7	17.8	17.6	18	18.4	19.9	21.9	23.4	24.2	24.4	24.5	24.7	24.3	23.1	22.3	21.9	21.6	21	20.6	20.4	19.2	20.9
17	13.7	11.3	10.4	9.4	8.7	8.6	8.7	9	8.9	8.6	8.7	9.2	10.2	10.5	11.3	11.1	10.1	8.7	7.5	6.8	6.1	5.9	5.1	4.4	8.9
18	3.8	3.2	2	1.2	0.8	0.6	0.4	0.8	1.9	3.1	4.7	5.8	6.4	7.3	7.6	7.3	6.7	5.2	4.7	3.9	2.8	2.2	2	2	3.6
19	1.5	0.8	0.4	-0.1	0.3	-0.5	-0.8	1.1	4.8	7.6	9.9	11.2	11.9	12.2	12.1	11.8	10.9	9.4	8.7	8.2	7.7	7.5	6.9	6.6	6.3
20	5.8	5.3	4.7	5.2	5.7	6.1	6.8	7.4	9.7	11.3	13.3	14.2	15.6	16.3	16	15.6	14.8	14	13.6	13.4	13.1	12.8	12.1	11.6	11
21	11.5	11.5	11.5	11.5	11.9	12	12.3	12.8	13.2	13.3	13.4	13.5	13.8	14.4	15	15.4	15.5	16.1	17	17.8	18.4	18.3	18.4	18.2	14.4
22	18.1	16.7	14.4	13.8	13.8	13	11.5	9.6	8.1	7.2	7.5	8.2	9	10	10.4	9.9	9.7	9.4	9.4	9.3	8.6	7.5	6.3	5.6	10.3
23	5.1	4.3	3.5	3	2.4	1.9	1.5	1.5	2.4	3.8	5	5.5	6.2	6.3	7.2	7.3	6.7	5.4	4.7	4.4	5.3	6.5	7.7	8	4.8
24	8.4	8.9	9	9	9.1	9.1	8.9	9.1	10.5	11.8	13.3	15.3	16.6	17.4	17.9	18.2	17.6	16.4	15.3	14.6	14.1	12.6	7.8	5.7	12.4
25	4	3.1	2.2	1.4	0.9	0.5	0.1	0.1	1	1.8	3	3.9	4.2	4.5	4.7	3.9	2.9	1.9	1.5	1	0.5	0.3	0.3	0.1	2
26	0.1	0.3	0.2	0	-0.1	-0.1	0.2	1	3.3	6.5	8.6	9.7	10.9	11.9	11.4	11.2	9.5	8.2	7.2	6.8	6.1	5.3	5.3	4.6	5.3
27	4	3.5	3.8	3.8	4.2	4.4	4.9	6	7.9	11.5	14.2	15.8	16.5	16.2	15.8	15.7	15	14.3	13.9	14.3	14.5	15.9	16.4	16.4	11.2
28	15.6	14.9	15.1	14.9	15.8	16.1	16.8	17.5	18.4	19.3	20.3	21	21.1	21.6	21	20.6	19.6	19.5	18.8	18	18.2	18.1	17.1	17.7	18.2
29	17.9	17.1	17.6	17.4	17.8	17.7	18.1	17.8	19.2	20.7	21.8	22.5	22.6	23.3	22.5	22	21.2	20	19.1	19.2	19.4	20	20.1	20.3	19.8
30	19	14.2	14.1	14	14.1	13.8	12.9	12.6	13.6	14.9	16.4	17.9	19.1	18.1	16.6	15.5	14.3	12.9	11.9	11.1	10.4	9.7	9.6	9.2	14
Avg	11.4	10.9	10.5	10.2	10.2	10	9.9	10.4	12.1	13.9	15.4	16.4	17.1	17.4	17.6	17.3	16.4	15	14.1	13.5	13.1	12.8	12.3	11.9	13.3
S D	5.8	5.7	5.8	5.8	5.9	6	6.1	5.8	5.7	5.8	5.8	5.9	5.9	5.8	5.7	5.7	5.7	5.5	5.4	5.5	5.6	5.7	5.7	5.9	5.3
S/A	0.51	0.52	0.55	0.57	0.58	0.6	0.62	0.56	0.47	0.41	0.38	0.36	0.34	0.33	0.33	0.33	0.35	0.37	0.38	0.41	0.43	0.44	0.46	0.49	0.4
Min	0.1	0.3	0.2	-0.1	-0.1	-0.5	-0.8	0.1	1	1.8	3	3.9	4.2	4.5	4.7	3.9	2.9	1.9	1.5	1	0.5	0.3	0.3	0.1	2
Max	19.5	19.3	19.2	19	19	19.2	19.5	18.4	19.9	21.9	23.4	24.2	24.4	25.1	25.5	25	23.9	22.3	21.9	21.6	21	20.6	20.4	20.3	20.9
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 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	89.1	95.2	99	99.8	98.4	100.1	101	97.7	84.2	77.9	70.6	68.9	68.3	69.5	72.1	77	82.3	88.6	95.3	97.8	100.9	100.5	100.1	101.1	89		
2	100.8	98.8	101.9	101.9	96.5	89.6	80.6	77	72.9	65.8	55.3	53.6	50.7	52.4	51.9	50.2	53.4	66.1	77.5	86	96.2	97.1	97.9	102	78.2		
3	104.4	104.5	104.5	?	?	?	104.3	?	97.9	88.9	77.1	67.5	57.2	53	46.9	43.7	44.4	49	60.4	72	78.6	78.2	88.3	96.6	100.9	77.1 ?	
4	100.3	95.1	94.6	95.9	99.4	101.6	99.8	97.3	91	84.1	71.5	60	56.2	52.4	48.2	50	54.5	65.8	75.3	89.9	94.9	98	99.6	99.8	82.3		
5	100.6	102.4	103.2	103.5	103.7	103.9	103.5	101	94.2	86	79	73.8	70.4	67.3	65.1	65.8	73.8	82.1	85.7	89.4	95.5	96.6	98.1	98.2	89.3		
6	100.7	102.9	104.3	104.9	?	?	?	104	?	99.1	89.7	77.8	73.3	70.5	67.7	67.4	69.7	75.1	82.3	90.8	96.4	97.5	99.5	100.9	100.7	89.3 ?	
7	99.6	99.6	100.4	101.6	102.8	104.3	?	104.8	?	100	88.2	72.7	59.2	53.7	55.1	58	64.3	72.4	80.7	88.7	95.4	98.2	100.8	102.6	104.1 ?	87.3 ?	
8	?	?	?	?	?	?	?	?	?	?	90	76.4	71	63.6	61.7	56.9	54.9	60.9	72.9	80.3	82.6	87.9	95	98.6	101.8	77 ?	
9	103	103.8	103.2	102.4	102.5	103.8	104.3	103.4	97.4	87.2	79.8	73.6	70.9	66	65.2	66.4	70.4	77.3	83.2	86.5	89.7	87.6	87.2	88.9	87.7		
10	91	92.9	94.5	95.6	95.6	95	91.2	103.5	?	103.3	?	75.7	58.5	51.8	46.7	38.1	46.5	47.5	51.8	56.2	56.3	59.6	64.1	66.5	68.3	71.7	
11	73.3	75.5	77.3	78.4	81.7	93.1	95.6	91.4	79.3	67.1	56	48.4	45	42.8	41.5	40.9	44.4	53.9	66.6	73.7	72.2	73.7	82.2	86.6	68.4		
12	93.1	89.8	90.6	84.1	87.2	91.2	99	93	80	59.2	44.4	43.8	39.6	43.4	38.2	38.9	55.2	62.4	72.1	78.5	82.2	85.6	89.3	93.5	72.3		
13	97.6	100.9	103.8	?	?	?	104.4	?	102	93.2	75.4	70	69.1	68.4	67.8	67.1	64.8	70	78	84.7	89.3	90.6	94.5	96.1	96.9	85 ?	
14	97.2	97.7	99.2	101.7	103	104.4	104.8	?	103.7	98.6	86	79.6	75.9	74.1	72	68	67.2	71.6	82.2	85.8	92.6	98.3	102	104.2 ?	?	90	
15	?	?	?	?	?	?	?	?	104.8	?	103.9	99.9	95.1	87.4	85.2	97.6	91.3	91	93.9	96.3	98.9	101.1	100.5	99.4	100.2	100.6	96.9 ?
16	102.1	104.1	105 ?	?	104.9	105 ?	103.6	102.9	100.2	94.5	89.3	84.6	82.6	82.3	80.5	82.9	84.7	91.5	94.9	96.3	97.7	99.3	100.7	101	95.2		
17	104.5 ?	104.3	?	104.7 ?	102.7	102	101.5	90.3	85	78.7	71	68.8	63.1	63.7	58.6	51.8	52.9	59.2	66.9	67	71.6	73.5	78.7	77.7	78.2		
18	73.1	71.4	74.7	77.5	79.6	81.1	82.6	81.2	78.8	77.3	74.8	71.4	68.5	64	62.4	63.9	69.1	77.7	81.2	86.9	95.6	98.6	98.6	98.6	78.7		
19	98	97.9	96.1	99.8	94.3	93.9	95.4	83.8	70.9	64.7	62.6	62.2	60	58.4	58.4	60.8	66.4	77.2	82.3	85.1	92.1	91.5	94.7	98.2	81		
20	100.4	100.9	102.8	103	101.8	99.5	98	97.8	93.9	88.4	82	81.2	71.5	70.3	73.7	77.2	83.6	89.1	93.5	94.8	96.2	98.1	102.7	?	91.3		
21	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	
22	?	?	?	?	101.1 ?	98.1	101.9	103.7	100.3	100.9	97.3	94.9	89.9	83.5	80.5	82.7	86.7	86.9	80.3	71.4	68.3	69.6	76	81.3	87.8 ?		
23	80.4	80.2	82.2	81.8	80.7	80	78.4	75.4	68.9	59.2	51.6	48.5	49.3	52.6	50.6	51	54.1	63.2	69	72	73.3	72.6	68	68.8	67.2		
24	68.5	66.8	66.7	69.8	72.1	74.2	77.5	79.4	76.4	73.6	70.2	64.7	60.5	58	56	53.2	54.5	59.1	65.3	69.7	72.3	75.4	85.7	82.6	68.8		
25	81.2	77.2	69.5	68.3	65.5	66.2	69.1	64.1	60.2	57	56.5	52.5	49.8	48.8	47.6	50.6	56.9	62.4	67.7	71	70.9	71.7	73.5	76.2	63.9		
26	79	78.6	77.9	80.2	81.1	82.6	82.2	75.9	68.9	65.2	64.6	61.9	50.6	47.2	56	65.8	75.2	82.3	88.6	92.8	99.4	104.4	104.5 ?	?	76.7		
27	104.8 ?	104.1	104.3	104.3	102.7	101.6	101.7	99	98.1	92.9	86.1	79.2	81.2	82.4	86.2	89.8	94.9	98.5	101.8	103.1	101.4	93.4	90.3	92.2	95.6		
28	95.3	97.9	98.6	98.6	97.8	98	97.4	93.8	89.9	86.8	84	79.1	78.1	76.2	78.3	84	87.9	85.6	87.3	90.9	91.5	90	93.1	91.4	89.7		
29	90.7	94.2	94	95.6	94.3	93.7	95	95.6	94.3	89.1	81.9	76.6	78.7	75.8	79.8	82.6	89.5	97.7	104.2	104.6 ?	103.8	101	99.6	99.3	92.1		
30	100.8	?	?	?	?	?	?	?	102.5	97.3	90.2	80.7	74.9	80.5	80.8	78.6	81.6	86.7	87.5	89.9	93.2	94.2	89.1	89	88.1 ?		
Avg	93.4	93.5	93.7	93.3	93.5	94	94.7	93.5	87.8	81.5	73.6	68.3	64.8	63.9	62.8	64.4	69.4	76.5	82.2	85.9	88.6	90.2	92.3	92.3	82.6 ?		
S D	10.8	11.5	12.1	12	11.3	10.6	10.5	11.3	12.2	13.2	12.9	12.6	13.1	13.9	14.7	15.1	15	13.5	11.9	11.9	12.3	11.7	10.9	10.6	9.3		
S/A	0.12	0.12	0.13	0.13	0.12	0.11	0.11	0.12	0.14	0.16	0.18	0.18	0.2	0.22	0.23	0.23	0.22	0.18	0.14	0.14	0.14	0.13	0.12	0.11	0.11		
Min	68.5	66.8	66.7	68.3	65.5	66.2	69.1	64.1	60.2	57	44.4	43.8	39.6	42.8	38.1	38.9	44.4	51.8	56.2	56.3	59.6	64.1	66.5	68.3	63.9		
Max	104.8	104.5	105	104.9	104.9	105	104.8	104.8	103.9	103.3	97.3	94.9	89.9	97.6	91.3	91	94.9	98.5	104.2	104.6	103.8	104.4	104.5	104.1	96.9		
n	303	296	281	254	272	270	272	298	323	343	348	348	348	348	348	348	348	348	348	348	343	348	346	337	307	7728	

Data Recovery: 0.0% missing; 10.6% 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 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	9.5	9.5	9.3	9.1	8.8	8.7	8.6	9.7	13.4	18.2	22.6	25.1	25.5	25.4	24.8	23.5	21.9	19.6	17.7	16.5	15.4	14.9	15.2	15	16.2
2	14.9	15	14.7	14.1	14.3	14.5	14.2	13.8	13.9	14.9	16.3	18	19.1	19.6	19.7	19.8	19.3	16.8	13	10.4	8.5	7.2	6.6	6.1	14.4
3	5.5	5	4.6	4.2	3.9	3.9	4.4	6	9	13.1	16.7	19.3	20.7	21.3	21.6	21.6	21.1	18.5	14.5	12.1	11.1	10.8	10.6	10.4	12.1
4	10.2	10.1	9.9	9.5	9.2	9	8.8	9.3	12.3	16	19.1	21.4	22.9	23.9	24.4	24.6	24.1	21.4	18.1	16.1	15.6	15.3	14.7	14.3	15.8
5	14	13.7	13.6	13.5	13.4	13.2	13	13.4	15.5	18.5	21.3	23.2	24.3	25.4	26	25.8	24.9	22.1	19.3	18.3	17.6	16.9	16.2	15.8	18.3
6	15.3	15	14.7	14.3	14	13.8	13.8	14.3	16.2	19.2	22.3	24.3	25.5	26.2	26.6	26.4	25.2	22.8	20.6	19.2	18.8	18.4	18	17.4	19.3
7	17	16.8	16.7	16.4	16.1	15.6	15.1	15.1	16.7	19.3	21.9	24.2	25.8	25.9	25.3	24.3	22.7	19.6	16.5	14.4	12.8	11.9	11.5	11.2	18
8	10.8	10.9	11	10.2	9.4	8.5	8	8.6	11.8	15.2	18.8	22.1	23.7	24.6	25.5	25.7	24.9	22.2	19.4	18.2	18	17.2	15.9	15	16.5
9	14.4	14.1	14.4	14.7	15	15.2	15.6	15.7	16.5	19.4	22.5	24.5	26.3	27.3	28	27.7	26.6	24.3	22.3	21	20.2	19.6	19.5	19.4	20.2
10	19.3	19.2	19.1	19.1	19	19.1	19.4	18.7	17.4	17	17.3	18.1	19.2	19.8	20	19.5	18	15.1	12.5	10.8	9.8	9	8.1	7.1	16.3
11	6.3	5.3	4.9	4.5	4.2	3.2	2	2.1	5	9	12.7	15	16.3	16.8	16.8	16.6	16	13.2	9.8	7.5	6.2	5.2	4.5	3.3	8.6
12	2.6	2.4	2.1	1.6	1.4	1.1	0.9	1.6	5.6	11	16.1	19	20.1	20.5	20.3	19.6	18.4	15.7	13	11.7	10.6	9.8	9.2	8.8	10.1
13	8.3	8.1	7.9	7.7	7.7	8.2	8.8	9.8	12.2	15.9	19.7	22.2	23.4	23.9	24.1	24.2	23.7	21.5	19.3	17.9	17	16.4	16.3	16.3	15.8
14	16	15.9	15.8	15.2	14.7	14.3	14.1	14.5	16.7	20.1	23.5	25.6	27	27.4	27	27.6	26.7	23.8	21.1	19.4	18.1	17.2	16.2	15.8	19.7
15	15.7	15.4	15.3	15.5	15.6	15.8	16.2	16.7	17.7	19.7	22.4	25.2	26.6	26.2	24.6	24.4	23.5	22.4	21.2	20.1	19.5	19.1	18.9	18.5	19.8
16	18.2	18.1	17.6	17.3	17.3	17.1	17	17.6	19.5	21.9	24.6	26.6	27.1	26.9	26.6	26.9	25.5	23.9	22.7	22.1	21.5	20.8	20.4	20.4	21.6
17	18.2	14.6	12.3	11.1	9.9	9	8.8	9	9.4	9.6	10	11.1	13.1	14.1	14.3	14.4	13.3	10.5	7.8	6.1	5.1	4.4	4	3.4	10.1
18	2.9	2.6	1.9	0.9	0.2	-0.3	-0.6	-0.4	1.4	4	6.5	8.8	9.9	10.8	11.4	11.2	10.1	7	4.3	2.9	1.4	0.2	-0.4	-0.7	4
19	-1	-1.4	-2	-2.5	-2.6	-2.8	-3.4	-2.7	0.8	5.9	10.4	13.6	15.3	16	15.9	15.4	14.3	11.4	8.8	7.2	6.1	5.5	5	4.4	5.7
20	4.3	4	3.4	3.4	3.9	4.6	5.2	5.7	7.4	10.2	13.7	15.4	17.2	19	19.3	18.3	17.2	15.8	14.8	14.2	13.9	13.5	13.1	12.5	11.2
21	12.1	12	11.9	11.9	12	12.2	12.4	12.7	13.1	13.4	13.7	13.9	14.1	14.5	14.9	15.4	15.7	15.9	16.4	17.1	17.7	18.1	18.3	18.4	14.5
22	18.2	17.9	16.7	15.3	14.3	13.2	12.7	11.5	9.9	8.5	7.8	8	9	10.4	11.7	11.5	10.6	9.9	9.4	9.4	9.1	8.2	6.7	5.3	11.1
23	4.6	3.9	3.1	2.4	1.8	1.2	0.7	0.6	2.3	4.7	7	8.5	9.1	9	8.8	9.4	8.9	6.5	4.2	3	3.2	4.3	5.8	6.9	5
24	7.5	8.1	8.4	8.3	8.2	8.2	8.2	8.3	9.7	12.1	14.2	16.2	18.1	19.1	19.6	19.8	19.4	17.7	15.9	14.5	13.6	12.9	10.9	8.1	12.8
25	5.8	4.1	3	2.1	1.4	0.7	0	-0.4	1.1	3.4	5.6	7.5	8.6	8.7	8.5	7.3	5.8	3.4	1.3	0.3	-0.4	-1	-1.4	-1.6	3.1
26	-1.9	-1.9	-1.8	-1.9	-2	-2.2	-2	-1.3	1.5	5.6	9.9	12.7	14.6	15.9	15.9	15	12.9	9.4	6.9	5.4	4.4	3.7	3.1	3.2	5.2
27	2.7	2.3	2	2.1	2.2	2.6	3.1	3.9	5.9	9.4	13.6	16.4	17.9	18.3	17.9	17.4	16.6	15.3	14.5	14.1	14.2	14.5	15.3	15.8	10.8
28	15.7	15.1	14.9	14.9	15.1	15.5	15.9	16.5	17.8	19.7	21	22.2	22.3	22.8	23	22.4	21.5	20.3	19.8	19	18.1	18.1	17.7	17.1	18.6
29	17.3	17.2	16.9	17.1	17.2	17.5	17.5	17.5	18.3	20.4	22.3	23.8	24.2	25.1	24.9	24	22.9	21.1	19.8	19.3	19.1	19.3	19.8	19.9	20.1
30	19.8	18	15.6	14.8	14.5	14.3	13.5	12.6	13.2	14.7	17.8	20.5	22.6	23.2	21.8	20	18	15	12.6	11.1	10.1	9.3	8.8	8.5	15.4
Avg	10.8	10.4	9.9	9.6	9.3	9.2	9.1	9.3	11	13.7	16.4	18.4	19.7	20.3	20.3	20	19	16.7	14.6	13.3	12.5	12	11.6	11.2	13.7
S D	6.4	6.4	6.3	6.4	6.4	6.5	6.6	6.5	5.9	5.6	5.7	5.9	5.8	5.8	5.6	5.7	5.7	5.7	5.9	6	6.1	6.2	6.3	6.4	5.4
S/A	0.6	0.61	0.64	0.67	0.69	0.71	0.73	0.69	0.53	0.41	0.35	0.32	0.3	0.28	0.28	0.28	0.3	0.34	0.4	0.45	0.49	0.52	0.54	0.57	0.39
Min	-1.9	-1.9	-2	-2.5	-2.6	-2.8	-3.4	-2.7	0.8	3.4	5.6	7.5	8.6	8.7	8.5	7.3	5.8	3.4	1.3	0.3	-0.4	-1	-1.4	-1.6	3.1
Max	19.8	19.2	19.1	19.1	19	19.1	19.4	18.7	19.5	21.9	24.6	26.6	27.1	27.4	28	27.7	26.7	24.3	22.7	22.1	21.5	20.8	20.4	20.4	21.6
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 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	1	1	0.7	0.4	0.4	0.3	0.2	0.6	0.4	0.9	1.6	2.8	2.6	2.8	1.8	1.9	2.1	1.9	1.4	0.6	0.6	1.3	0.9	0.8	1.2
2	1.2	0.9	0.1	1.4	2.8	4.2	4	4.7	5.2	4.7	4.9	4.6	4.1	3.6	2.9	2.3	1.5	0.7	0.2	0.3	0.1	0.2	0.3	0	2.3
3	0.2	0.2	0.3	0.4	0.7	1.1	1.2	1.6	1.7	2.6	3.1	3.3	3.4	3.6	3.7	3	1.9	0.6	0.4	1	1.3	1.4	1.6	1.3	1.6
4	1.5	1.7	1.3	1.2	1.2	1.2	0.9	1.2	2.4	3.5	4	4.8	4.6	4.3	4.2	3.6	2.1	1.5	1	1.9	2	1.7	2.2	2	2.3
5	1.7	1.8	1.9	1.9	1.7	1.8	1.7	1.8	2.3	2.2	3.8	4.4	3.6	3.5	3.9	3.2	2.1	1.4	1.6	2.3	1.7	1.7	2	1.8	2.3
6	1.8	1.6	1.3	1.1	1	1.2	1.3	1.5	2.1	3.3	5.3	5.1	4.1	4.3	3.8	3.2	1.6	1.4	1.6	2.6	2.8	2.1	2	1.8	2.4
7	2	2.2	2	2	1.9	1.3	1.6	1.4	1.7	2.8	2.6	2.1	2.5	3	2.8	2.7	2.1	1.4	0.5	0.1	0.2	0	0.1	0.3	1.6
8	0.2	0.3	0.1	0	0	0	0	0	0.6	2	2.1	2.9	3.3	3	2.9	3	1.3	0.5	0.5	0.8	1.5	0.8	0.4	0.4	1.1
9	0.1	0.3	0.3	0.3	0.4	1	0.7	0.8	1.9	2	2.3	3.2	2.9	3.9	3.2	3.1	3	2.8	3.2	3.4	2.9	3.5	3.7	3.6	2.2
10	3.8	3.5	3.5	3	3.1	4.1	4.2	2.3	2.5	3.4	4.2	4	3.2	4	4.7	4.4	4.6	3	2.6	2.8	3.2	2.8	2.4	2.4	3.4
11	1.5	1.3	1	1.3	1.1	1.1	1.1	1.3	1.4	1.7	2.5	2.5	2.3	2.7	3.1	2.2	1.5	0.2	0.3	0.9	0.3	0.6	0.3	0.1	1.3
12	0.1	0.2	0.2	0.1	0	0.3	0.2	0.3	0.4	0.2	0.9	1.3	1.6	1.6	1.9	1.7	1.5	1.4	1.8	1.2	1	0.9	1	0.7	0.9
13	0.7	0.5	0	0.1	0.6	0.7	1.1	0.8	1.3	2.1	2.4	3.4	3.6	3.8	3	2.9	1.7	1.5	2.1	2.3	1.8	1.8	2	1.6	1.7
14	1.5	1.5	1.2	1	0.9	0.9	1	1.3	1.6	2	2.9	2.4	2.4	2.5	2	1.6	1.2	1.8	1.7	1.3	0.8	0.2	1	1.3	1.5
15	0.3	0.1	0.4	0.3	0.2	0.5	1.8	2.4	2.8	3.7	4.2	2.5	3.4	4	3.9	3.5	2.7	2.1	2	2.1	2.7	2.6	2.5	2	2.2
16	1.5	1.6	1.5	1.9	1.8	1.8	2.5	2.9	3.1	3.8	4.1	4.8	4.7	4.4	4.7	4.3	3.4	3	3.7	3.8	3.7	3.6	3.3	3.6	3.2
17	4.3	4.7	3.9	4.1	3.7	2.2	1.9	2.7	3.6	4.5	4.2	3.5	2.6	2.7	1.7	2.6	2.6	1.7	1.4	1.8	1.4	2.1	1.9	2.5	2.8
18	3.4	3.4	2.6	2.7	2.8	2.6	2.9	3.2	3.1	3	2.9	2.7	2.3	1.8	1.6	1.4	1	1	0.7	0	0.1	0.2	0.3	0.2	1.9
19	0.3	0.4	0.1	0.5	0.5	0	0.6	0.9	1.5	1.7	1.6	2.1	2.3	2.2	2.4	2.1	1.7	1.4	1	0.7	0.8	0.7	0.2	0.6	1.1
20	0.6	0.2	0.6	0.8	1	0.7	0.7	0.9	0.7	1.1	1.4	1.4	1.1	1.1	1.5	1.2	1.4	1	0.7	0.1	0.2	0	0.5	0.8	0.8
21	0.1	0.3	0.3	0.7	1	0.5	1.2	1.8	1.9	1.9	1.7	2.4	3	3.2	4.5	4.8	4.2	3.6	2.4	2	2.1	1.8	1.6	1.9	2
22	2.1	1.9	2	1	4.4	4.2	6.3	4.5	5.3	5.4	5.4	4.8	4.8	4.8	5	3.3	1.4	1.7	2.9	3.1	2.8	2.5	2.5	3.2	3.5
23	3.3	3	2.7	3	3.2	3.3	2.8	2.4	2.9	3.1	3.3	4.1	4.4	4.1	3.9	3.5	2.5	0.6	0.4	0.6	0.8	2	2.9	3.2	2.8
24	4.1	4.9	5.1	4.5	4.4	4.5	4.4	4.3	4.3	4.8	4.9	4.6	5.3	5.8	6.2	5.6	4.5	3.5	2.7	2.4	2.7	3.3	4.7	5	4.4
25	4	3.8	4.5	4.2	3.9	3.3	2.5	2.3	2.6	2.7	2.6	2.1	1.8	2.2	1.4	2	2.7	2	1.8	2	1.8	1.6	1.4	1.1	2.5
26	1.2	1.4	1.3	1.4	0.9	1.4	1.3	1.4	1.6	1	1.5	1.4	0.9	1.1	1.9	1.8	1.1	0.4	0.3	0.5	0.1	0.1	0.4	0.2	1
27	0.2	0.6	0.5	0.4	0.9	0.6	1.1	1.3	1.1	2.1	2.8	3	2.6	2.5	2.1	1.6	1.4	1.2	1.1	1.9	2	3.2	2.9	3.1	1.7
28	2.6	1.9	2	1.7	2.7	1.9	2.5	2.8	3.4	4.3	4.4	4.7	4.2	4.1	4.4	4.2	4	4.1	4	3.5	3.7	3.8	3.2	3.9	3.4
29	3.9	3.7	4.1	3.6	3.7	4.9	4.2	3.8	5	5	5.5	6	5.4	7	6.5	5.2	4.5	4	3.2	4.1	3.9	5.1	5.1	3.9	4.6
30	3.7	2.7	0.3	0.3	0.6	0.2	0.3	0.2	1	1.5	1.7	1.2	1.4	3.3	3.4	3.3	2.6	2.1	1.9	2	2	2.2	2.8	2.8	1.8
Avg	1.8	1.7	1.5	1.5	1.7	1.7	1.9	1.9	2.3	2.8	3.2	3.3	3.2	3.4	3.3	3	2.3	1.8	1.6	1.7	1.7	1.8	1.9	1.9	2.2
SD	1.4	1.4	1.5	1.3	1.4	1.5	1.5	1.3	1.4	1.3	1.3	1.3	1.2	1.3	1.3	1.2	1.1	1.1	1.1	1.2	1.2	1.3	1.3	1.4	1
S/A	0.81	0.82	0.95	0.87	0.8	0.86	0.8	0.66	0.59	0.49	0.42	0.4	0.38	0.39	0.41	0.39	0.47	0.6	0.66	0.67	0.7	0.73	0.72	0.73	0.45
Min	0.1	0.1	0	0	0	0	0	0	0.4	0.2	0.9	1.2	0.9	1.1	1.4	1.2	1	0.2	0.2	0	0.1	0	0.1	0	0.8
Max	4.3	4.9	5.1	4.5	4.4	4.9	6.3	4.7	5.3	5.4	5.5	6	5.4	7	6.5	5.6	4.6	4.1	4	4.1	3.9	5.1	5.1	5	4.6
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 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	194	199	179	176	165	124	136	126	142	170	186	145	158	156	170	117	120	125	126	157	214	227	221	223	159
2	256	226	235	266	317	356	346	346	351	353	354	351	354	0	348	342	336	352	345	340	343	347	10	259	345
3	226	238	211	259	246	247	240	236	249	228	219	209	225	218	219	215	206	194	192	183	194	189	189	193	217
4	197	202	203	201	199	204	214	193	213	221	226	224	216	211	200	202	204	200	190	192	201	187	191	200	207
5	187	190	199	193	208	205	204	207	212	205	213	211	208	197	209	207	176	186	163	162	176	184	199	195	198
6	196	199	193	196	180	184	203	192	207	216	229	210	204	206	189	209	202	171	168	181	207	195	209	203	202
7	207	206	208	232	244	259	268	290	320	353	20	38	74	95	91	70	100	89	86	119	92	107	107	200	76
8	213	328	354	0	0	0	209	0	217	217	217	231	235	232	232	233	224	164	189	165	172	177	155	150	219
9	175	207	210	153	161	166	166	170	186	180	196	215	204	200	188	187	185	178	184	189	188	193	194	198	191
10	198	203	203	203	206	222	256	242	227	261	344	354	1	333	317	332	321	323	323	315	321	324	322	318	292
11	312	304	301	320	302	269	271	274	293	294	290	297	281	280	263	266	283	269	202	279	287	245	235	221	284
12	144	230	273	103	90	91	85	300	295	338	100	150	201	188	169	175	136	128	127	139	145	153	145	149	154
13	157	147	150	212	132	139	144	148	162	162	189	207	229	228	228	214	180	151	164	161	177	183	190	195	191
14	202	189	191	201	201	186	198	197	205	212	220	196	193	226	211	192	163	123	127	155	173	129	109	109	188
15	122	135	136	118	113	130	142	152	160	158	163	183	164	129	151	147	152	147	140	134	147	152	147	159	151
16	161	132	140	157	165	166	156	157	159	178	182	186	184	174	174	178	184	174	171	179	183	192	193	281	177
17	350	354	344	350	359	349	338	341	339	349	354	350	333	343	330	314	307	330	327	335	342	353	329	326	342
18	330	332	324	319	321	320	317	319	320	319	341	360	351	350	1	6	357	54	51	340	312	333	338	337	334
19	337	313	327	320	324	297	313	328	339	359	41	69	94	94	97	91	91	96	111	96	64	46	18	32	63
20	337	335	334	356	10	3	0	24	32	16	39	63	74	67	88	91	89	85	91	50	28	293	31	45	47
21	34	42	25	70	66	6	47	61	51	56	51	58	58	51	70	77	80	104	137	158	151	150	169	185	84
22	192	232	260	244	221	218	258	295	293	292	290	282	279	279	269	270	263	246	264	275	287	282	274	270	269
23	273	275	272	270	271	271	272	271	290	292	281	258	245	235	237	231	227	201	175	194	197	212	205	199	253
24	201	211	218	218	217	219	221	225	223	217	228	217	215	221	228	229	222	212	213	223	315	12	4	225	
25	350	351	351	355	355	353	350	344	353	12	18	28	357	35	6	50	52	44	28	3	356	355	357	341	5
26	347	357	350	346	329	341	341	334	337	23	51	93	137	77	118	104	127	140	124	112	40	22	20	12	32
27	346	339	0	350	19	22	18	22	27	57	64	69	75	66	66	60	56	61	57	81	95	108	108	118	70
28	101	89	90	93	104	108	119	123	125	120	126	126	133	135	122	126	125	131	122	121	123	120	118	125	121
29	125	121	122	121	127	122	128	122	128	143	146	142	153	157	162	161	159	150	142	148	153	159	161	172	144
30	228	275	316	159	113	239	247	225	254	277	284	303	335	345	2	7	357	10	15	0	8	7	3	6	340
Avg	223	242	242	251	243	236	252	263	258	244	238	207	206	199	194	186	165	141	149	168	178	181	177	202	204
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 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	1.7	1.5	1.5	1.1	1	0.7	0.4	1.2	1.1	1.7	3	4.5	4.3	5	3.2	2.9	3.2	2.9	2.1	1.3	1	2	1.5	1.4	2.1
2	1.9	1.4	0.4	2.4	5.5	7.1	7.4	8	9.2	8.1	9	7.7	7.1	6.6	4.9	4.3	3.1	1.3	0.5	0.6	0.3	0.3	0.6	0.1	4.1
3	0.6	0.4	0.6	0.7	1.2	1.5	1.9	2.4	2.6	4.2	5.3	5.5	5.4	6.2	6.1	5.2	3.4	1.4	1.1	1.9	2	2.6	3	2.3	2.8
4	2.6	2.9	2.1	2	2	2	1.6	2.2	4.4	5.8	6.6	8.1	7.5	7.2	7.6	6.4	3.8	2.7	1.9	3.5	3.7	3.1	3.9	3.4	4
5	3	3.4	3.5	3.2	3	3.2	3.2	3.4	4.3	3.9	6.4	7.1	6	6.1	6.9	5.8	3.9	2.7	2.8	3.7	3	3.2	3.4	3.2	4.1
6	3.5	2.8	2.5	2.1	1.9	2.4	2.3	2.6	4	5.7	8.8	8.5	6.9	7.8	6.4	5.5	2.9	2.4	3	4.6	4.7	3.8	3.4	3.1	4.2
7	3.6	3.8	3.3	3	3	2.2	2.6	2.9	3.5	4.7	4.3	3.7	4.1	4.5	4.4	4.4	3.3	2.1	0.9	0.4	0.5	0.2	0.3	0.7	2.8
8	0.8	0.8	0.2	0	0	0	0	0	1.4	3.5	3.8	4.9	5.1	5	4.7	4.8	2.1	1.1	1.2	1.5	2.7	1.8	1.2	1.1	2
9	0.7	0.9	0.9	0.7	1	2	1.5	1.7	3.6	3.5	4.1	5.3	5.1	6.8	6.1	5.7	5.4	5.4	6	6.1	5.2	6.3	6.7	6.5	4.1
10	6.7	6.3	6.1	5.1	5.4	7	7.3	4.2	4.5	6.5	7.6	7.6	6	7.7	8.7	7.9	9	5.9	5	5.7	6.2	5.4	4.3	4.6	6.3
11	2.7	2.5	2	2.5	2.1	1.9	2	2.6	2.9	3.5	5.1	4.9	4.6	5.2	5.4	4.6	3	0.6	0.6	1.5	0.7	1.1	0.6	0.4	2.6
12	0.3	0.5	0.6	0.2	0.1	0.4	0.6	0.6	1.1	0.8	2	2.8	3	3.1	3.4	3.1	2.5	2.3	2.9	2.1	1.6	1.4	1.6	1.1	1.6
13	1.2	0.7	0.1	0.7	1	1.3	1.9	1.5	2.7	3.9	4.3	6.3	6.1	6.4	5.3	5	2.8	2.5	3.4	3.7	3.6	3.6	3.7	3.4	3.1
14	2.8	3.1	2.7	2	1.6	1.7	1.8	2.5	2.9	3.4	4.6	4.2	4.2	4.2	3.5	2.9	2	2.7	2.6	2.2	2	0.7	1.5	1.9	2.7
15	0.7	0.5	1	0.8	0.5	1.4	3.1	4.3	4.9	6.5	7.5	4.5	5.8	6.4	6.4	6.1	4.1	3.8	3.4	3.6	4.5	4.5	4	3.6	3.8
16	2.7	2.6	2.5	3.3	3.4	3.2	4.3	4.9	5.3	7.1	7.8	9.3	8.5	8.3	8.8	8	6.3	5.7	6.7	7.1	6.4	6.5	5.7	6.7	5.9
17	7.3	8.1	6.9	7.2	6.8	4.5	4	5.6	6.3	7.7	6.9	6.2	5	5.1	3.7	5.2	4.9	3.4	2.7	2.9	2.8	3.8	3.4	4.6	5.2
18	5.8	6	4.6	5.1	5.2	5.2	5.7	6	5.8	5.6	5.4	5.5	4.7	4	3.3	3.1	2.2	1.8	1.5	0.3	0.3	0.6	0.7	0.6	3.7
19	0.6	0.7	0.3	0.9	1	0	1	1.6	2.7	3	3	3.8	4.1	4	4	3.6	2.7	2.4	1.7	1.2	1.3	1.3	0.4	0.9	1.9
20	0.9	0.3	0.9	1.3	1.5	1.3	1.2	1.4	1.5	2.3	2.5	2.6	2.4	2.2	2.5	2.2	2.2	1.9	1.3	0.6	0.6	0.3	1.3	1.7	1.5
21	0.6	1	1.1	1.6	2.3	1.4	2.6	3.4	3.6	3.5	3.3	4.1	5.4	5.9	7.6	8	6.9	6.2	4.3	4.1	4	3.5	3.5	4.3	3.8
22	4.2	4	3.9	2.5	7.6	7.4	10.8	9.1	11.2	10.6	11	9.1	9.5	9.5	9	5.8	2.8	2.9	5.1	5.9	5.5	4.8	4.4	5.8	6.8
23	5.8	5.5	5.3	5.4	5.8	6.3	5.2	4.7	6.1	6	6.1	7	7.1	6.8	6.3	5.8	4	1.3	1.3	1.4	1.9	3.9	5.2	5.5	5
24	7.3	8.3	8.4	7.3	7.3	7.6	7.1	6.6	7	7.9	8.2	7.3	9	9.5	9.9	8.7	7.3	5.3	4.4	3.9	4.6	5.9	8.3	8.6	7.3
25	7.1	6.5	8	7.1	6.8	5.6	4.2	4.2	4.6	4.9	4.5	4.4	3.7	4.1	3.1	3.6	4.7	3.3	3.2	3.3	3.2	2.7	2.3	2	4.5
26	2	2.3	2.1	2.2	1.7	2.2	2.3	2.6	3.1	2	3	2.8	2.1	2.4	3.1	3	1.8	1	0.8	0.8	0.2	0.1	0.8	0.3	1.9
27	0.5	0.9	1	0.7	1.4	1	1.7	2.1	2	3.6	4.6	4.8	4.3	4.1	3.5	2.8	2.4	2	1.9	3	2.9	5.1	4.8	5	2.8
28	4.3	3.2	3.1	2.5	4.3	3.1	4	4.7	5.4	6.6	7.2	7.9	7.3	7	7.1	6.6	6.3	6.5	6.3	5.4	6	5.8	5.2	5.9	5.5
29	6.1	5.4	6.3	5.7	6	7.4	6.7	6	7.9	9	9.6	10.2	9.3	11.6	11.3	9	7.4	6.6	5	6.9	6.7	8.7	8.5	6.8	7.7
30	6.8	5.3	1	1.1	1.7	0.6	0.9	0.7	2.2	3.2	3.4	2.7	3.2	5.1	5.7	5.4	4.4	3.6	3.5	3.5	3.6	3.8	4.9	4.8	3.4
Avg	3.2	3.1	2.8	2.7	3.1	3.1	3.3	3.5	4.3	5	5.6	5.8	5.6	5.9	5.7	5.2	4	3.1	2.9	3.1	3.1	3.2	3.3	3.4	3.9
SD	2.4	2.4	2.4	2.2	2.4	2.5	2.6	2.2	2.4	2.3	2.3	2.1	2	2.1	2.3	1.9	1.8	1.8	2	2	2.2	2.3	2.3	2.3	1.7
S/A	0.76	0.78	0.88	0.8	0.77	0.81	0.77	0.64	0.56	0.47	0.41	0.37	0.35	0.36	0.4	0.36	0.47	0.57	0.61	0.64	0.66	0.69	0.69	0.7	0.43
Min	0.3	0.3	0.1	0	0	0	0	0	1.1	0.8	2	2.6	2.1	2.2	2.5	2.2	1.8	0.6	0.5	0.3	0.2	0.1	0.3	0.1	1.5
Max	7.3	8.3	8.4	7.3	7.6	7.6	10.8	9.1	11.2	10.6	11	10.2	9.5	11.6	11.3	9	9	6.6	6.7	7.1	6.7	8.7	8.5	8.6	7.7
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

Instrument: NRG MAX-40 Serial Number: 0 Calibration Factor: 0.76171 m/s/mV Calibration Date: 06/1995

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

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

Prepared by: Afshin M. Andreas, NREL

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

November 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	1021	1021	1020	1020	1020	1019	1019	1020	1020	1020	1020	1019	1017	1016	1016	1015	1014	1014	1014	1014	1014	1014	1013	1012	1017
2	1012	1012	1011	1011	1011	1012	1014	1014	1016	1018	1018	1018	1017	1017	1018	1018	1019	1020	1021	1021	1022	1022	1022	1023	1017
3	1023	1023	1023	1023	1024	1024	1025	1025	1026	1026	1026	1025	1024	1023	1023	1022	1022	1021	1021	1021	1021	1021	1021	1021	1023
4	1020	1020	1020	1019	1019	1019	1020	1020	1020	1020	1019	1019	1018	1017	1017	1017	1017	1017	1017	1017	1017	1018	1018	1017	1018
5	1018	1018	1017	1017	1017	1018	1018	1019	1019	1019	1019	1018	1017	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018
6	1018	1017	1018	1018	1018	1018	1018	1018	1018	1019	1019	1019	1018	1017	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1017
7	1017	1017	1017	1017	1018	1019	1019	1020	1021	1021	1022	1021	1021	1020	1020	1020	1021	1021	1022	1022	1022	1022	1022	1021	1020
8	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1020	1019	1018	1018	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1019
9	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1016	1015	1014	1013	1012	1012	1011	1011	1011	1011	1011	1010	1009	1008	1014
10	1008	1007	1006	1005	1004	1004	1005	1006	1006	1007	1008	1008	1008	1008	1009	1010	1011	1012	1013	1014	1015	1015	1016	1016	1009
11	1017	1017	1017	1017	1017	1018	1019	1020	1020	1020	1020	1020	1019	1018	1018	1018	1019	1019	1020	1020	1020	1021	1021	1021	1019
12	1021	1022	1022	1022	1022	1023	1024	1024	1025	1025	1026	1026	1025	1024	1024	1025	1024	1025	1025	1025	1025	1026	1026	1026	1024
13	1026	1025	1025	1025	1025	1025	1025	1026	1026	1026	1026	1025	1025	1024	1024	1023	1023	1023	1023	1023	1023	1023	1023	1023	1025
14	1023	1023	1023	1023	1023	1023	1024	1024	1025	1025	1025	1024	1023	1023	1023	1023	1023	1023	1023	1023	1024	1024	1024	1024	1023
15	1023	1023	1023	1023	1023	1023	1023	1024	1024	1024	1024	1023	1023	1022	1021	1021	1021	1021	1021	1021	1021	1021	1020	1021	1022
16	1020	1020	1020	1019	1019	1019	1019	1019	1019	1018	1018	1017	1016	1014	1014	1014	1014	1014	1014	1013	1013	1013	1013	1014	1016
17	1015	1016	1017	1017	1017	1018	1018	1019	1020	1021	1022	1021	1021	1020	1020	1020	1021	1021	1022	1023	1023	1024	1024	1024	1020
18	1024	1024	1024	1025	1024	1025	1025	1026	1027	1027	1027	1026	1026	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025
19	1025	1025	1025	1025	1025	1026	1026	1027	1027	1028	1028	1027	1026	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1025	1026
20	1025	1025	1024	1024	1024	1024	1024	1024	1024	1024	1024	1023	1023	1022	1021	1021	1021	1021	1021	1021	1020	1020	1020	1019	1023
21	1018	1017	1017	1016	1015	1015	1014	1013	1013	1012	1011	1009	1007	1005	1002	1000	998	996	995	993	992	991	989	988	1005
22	987	986	986	985	984	983	983	985	987	989	990	991	992	992	993	994	995	995	996	997	998	999	999	1000	991
23	1000	1001	1002	1002	1003	1004	1005	1006	1006	1006	1006	1006	1005	1004	1004	1004	1003	1002	1002	1002	1002	1002	1001	1000	1003
24	999	998	998	997	997	997	997	997	997	997	996	995	994	994	993	994	995	997	998	1000	1001	1003	1006	1008	998
25	1009	1011	1012	1014	1016	1017	1019	1020	1021	1022	1023	1023	1022	1022	1022	1023	1023	1024	1024	1025	1025	1025	1025	1025	1021
26	1025	1025	1025	1025	1025	1025	1025	1025	1026	1026	1026	1026	1026	1025	1024	1023	1023	1023	1023	1024	1024	1024	1024	1024	1024
27	1024	1023	1023	1023	1023	1023	1023	1023	1024	1024	1024	1023	1022	1022	1021	1021	1021	1021	1022	1022	1021	1021	1021	1021	1022
28	1020	1020	1021	1021	1020	1021	1021	1020	1021	1021	1021	1020	1020	1019	1018	1019	1019	1019	1019	1019	1019	1019	1019	1018	1020
29	1018	1018	1017	1017	1016	1016	1016	1016	1015	1016	1015	1014	1013	1012	1012	1012	1012	1012	1011	1011	1011	1010	1010	1010	1014
30	1010	1011	1010	1010	1010	1010	1010	1011	1011	1011	1012	1011	1011	1010	1010	1011	1011	1012	1012	1013	1013	1013	1013	1013	1011
Avg	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1017	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017
SD	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	8	8	9	9	9	9	9	9	9	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	987	986	986	985	984	983	983	985	987	989	990	991	992	992	993	994	995	995	995	995	993	992	991	989	991
Max	1026	1025	1025	1025	1025	1026	1026	1027	1027	1028	1028	1027	1026	1025	1025	1025	1025	1025	1025	1025	1026	1026	1026	1026	1026
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

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

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

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

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 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	12.7	12.6	12.6	12.6	12.6	12.6	12.7	13.7	13.6	13.5	13.3	13.3	13.3	13.3	13.4	13.4	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
2	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.5	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13.2	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.6	13
3	12.6	12.6	12.6	12.6	12.5	12.5	12.7	13.8	13.7	13.6	13.5	13.5	13.4	13.4	13.4	13.4	13.3	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
4	12.7	12.7	12.6	12.6	12.6	12.6	12.7	13.7	13.6	13.5	13.5	13.4	13.4	13.3	13.3	13.4	13.2	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
5	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.5	13.5	13.5	13.4	13.4	13.3	13.3	13.3	13.3	13.1	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
6	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.5	13.5	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.4	13.5	13.4	13.4	13.3	13.3	13.3	13.3	13.4	13.2	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
8	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.6	13.6	13.6	13.4	13.4	13.4	13.3	13.3	13.3	13.1	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13
9	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.4	13.4	13.4	13.3	13.3	13.3	13.3	13	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
10	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13	13.5	13.5	13.4	13.4	13.4	13.5	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
11	12.6	12.6	12.6	12.6	12.5	12.5	12.6	13.9	13.8	13.7	13.6	13.6	13.6	13.5	13.6	13.6	13.3	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.1
12	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.8	13.8	13.6	13.5	13.5	13.5	13.4	13.5	13.5	13.3	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
13	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.6	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
14	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.4	13.5	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.1	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
15	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.1	13.4	13.4	13.3	13.3	13.3	13.3	13.2	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
16	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.3	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.1	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.9
17	12.7	12.7	12.6	12.6	12.6	12.5	12.5	12.5	12.7	13.2	13.7	13.7	13.6	13.6	13.6	13.6	13.4	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.9
18	12.6	12.6	12.6	12.5	12.5	12.5	12.4	13.7	13.9	13.9	13.8	13.8	13.7	13.7	13.7	13.7	13.4	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.6	13.1
19	12.6	12.6	12.6	12.6	12.5	12.4	12.4	13.9	13.9	13.8	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	12.7	13.1
20	12.7	12.6	12.6	12.6	12.6	12.5	12.5	12.6	13.3	13.5	13.6	13.5	13.5	13.5	13.5	13.4	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
21	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.5	12.6	12.6	12.6	12.6	12.6	12.8	12.6	12.6	12.6	12.5	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
22	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.9	13	13.2	13.5	13.6	13.4	12.9	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
23	12.6	12.6	12.6	12.6	12.5	12.5	12.4	13.8	13.9	13.8	13.8	13.7	13.7	13.8	13.7	13.8	13.4	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13.1
24	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.2	13.7	13.6	13.6	13.5	13.5	13.5	13.5	13.5	13.2	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
25	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.6	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.9	13.5	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.1
26	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.7	13.9	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
27	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.4	13.6	13.7	13.6	13.5	13.5	13.5	13.6	13.1	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
28	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.4	13.4	13.4	13.4	13.4	13.3	13.4	13.4	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
29	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13.4	13.4	13.4	13.3	13.3	13.3	13.4	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
30	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.1	13.5	13.6	13.5	13.4	13.4	13.4	13.4	13.5	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13
Avg	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.3	13.5	13.5	13.5	13.4	13.4	13.4	13.4	13.4	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
S D	0	0	0	0	0	0.1	0.1	0.5	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0	0	0	0	0	0	0	0.1
S/A	0	0	0	0	0	0	0.01	0.04	0.03	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.02	0	0	0	0	0	0	0	0	0.01
Min	12.6	12.5	12.5	12.5	12.5	12.4	12.4	12.5	12.5	12.6	12.6	12.6	12.6	12.8	12.6	12.6	12.6	12.5	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
Max	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.9	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.9	13.5	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	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	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.