

December 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	3	42	153	316	376	344	323	452	323	162	33	0	0	0	0	0	0	0	2526
2	0	0	0	0	0	0	0	52	209	369	483	532	542	478	354	181	45	0	0	0	0	0	0	0	3245
3	0	0	0	0	0	0	0	54	175	357	427	341	393	435	336	95	13	0	0	0	0	0	0	0	2626
4	0	0	0	0	0	0	0	25	40 ?	208	336	330	339	218	194	85	23	0	0	0	0	0	0	0	1798
5	0	0	0	0	0	0	0	8	19 ?	41 ?	42 ?	?	38 ?	34 ?	43 ?	16 ?	5	0	0	0	0	0	0	0	245 ?
6	0	0	0	0	0	0	0	12	51	183	443	434	295	302	140	70	35	0	0	0	0	0	0	0	1964
7	0	0	0	0	0	0	0	66	263 ?	346	462	516	518	457	312	124	43	0	0	0	0	0	0	0	3107
8	0	0	0	0	0	0	0	26	97	194	338	410	521	460	208	66	15	0	0	0	0	0	0	0	2336
9	0	0	0	0	0	0	0	8	38	104	147	304	358	282	344	178	42	0	0	0	0	0	0	0	1806
10	0	0	0	0	0	0	0	66	228	341	428	491	443	434	338	161	14	0	0	0	0	0	0	0	2944
11	0	0	0	0	0	0	0	44	181	343	461	521	520	459	338	176	42	0	0	0	0	0	0	0	3084
12	0	0	0	0	0	0	0	53	181	340	444	518	518	455	337	127	14	0	0	0	0	0	0	0	2987
13	0	0	0	0	0	0	0	35	174	310	430	486	527	468	348	183	45	0	0	0	0	0	0	0	3006
14	0	0	0	0	0	0	0	54	76	132	267	264	260	168	104	81	21	0	0	0	0	0	0	0	1426
15	0	0	0	0	0	0	0	10	22	32 ?	81	95	116	81	68	24	4	0	0	0	0	0	0	0	534
16	0	0	0	0	0	0	0	39	173	341	459	521	498	380	294	146	41	0	0	0	0	0	0	0	2893
17	0	0	0	0	0	0	0	25	105	142	199	341	302	190	147	51	20	0	0	0	0	0	0	0	1521
18	0	0	0	0	0	0	0	6	24	43	71	71	82	58	73	36	10	0	0	0	0	0	0	0	474
19	0	0	0	0	0	0	0	24	170	323	442	504	506	452	365	169	36	0	0	0	0	0	0	0	2992
20	0	0	0	0	0	0	0	36 ?	?	257	398	504	529	465	345	186	43	0	0	0	0	0	0	0	2762 ?
21	0	0	0	0	0	0	0	24	166	316	375	513	518	459	339	179	40	0	0	0	0	0	0	0	2929
22	0	0	0	0	0	0	0	33	167	330	453	518	521	463	346	182	41	0	0	0	0	0	0	0	3054
23	0	0	0	0	0	0	0	42	176	337	463	531	537	480	363	196	47	0	0	0	0	0	0	0	3173
24	0	0	0	0	0	0	0	43	165	335	460	531	534	476	356	189	45	0	0	0	0	0	0	0	3134
25	0	0	0	0	0	0	0	15	24 ?	48 ?	35 ?	80 ?	93	68	67	51	14	0	0	0	0	0	0	0	496 ?
26	0	0	0	0	0	0	0	17	64	216	431	500	334	337	160	165	43	0	0	0	0	0	0	0	2268
27	0	0	0	0	0	0	0	32	164	323	444	520 ?	521	464	343	180	34	0	0	0	0	0	0	0	3026
28	0	0	0	0	0	0	0	37	135	229	363	422	453	443	306	150	24	0	0	0	0	0	0	0	2562
29	0	0	0	0	0	0	0	3	49	134	133	77	69	72	245	101	31	0	0	0	0	0	0	0	915
30	0	0	0	0	0	0	0	30	154	294 ?	405 ?	431 ?	?	448	296	178	46	0	0	0	0	0	0	0	2282 ?
31	0	0	0	0	0	0	0	26	155	205	138	145	141	378	193	98	26	0	0	0	0	0	0	0	1505
Avg	0	0	0	0	0	0	0	32	127	242	337	393	378	349	259	129	30	0	0	0	0	0	0	0	2246
S D	0	0	0	0	0	0	1	17	69	110	148	157	170	154	108	57	14	0	0	0	0	0	0	0	933
S/A	0	0	0	0	0	0	5.57	0.54	0.55	0.45	0.44	0.4	0.45	0.44	0.42	0.44	0.46	0	0	0	0	0	0	0	0.42
Min	0	0	0	0	0	0	0	3	19	32	35	71	38	34	43	16	4	0	0	0	0	0	0	0	245
Max	0	0	0	0	0	0	3	66	263	369	483	532	542	480	365	196	47	0	0	0	0	0	0	0	3245
n	0	0	0	0	0	0	1	317	341	354	350	337	344	360	362	365	301	0	0	0	0	0	0	0	3432

Daylight Data Recovery: 0.0% missing; 4.7% exceed the 15% QC threshold -- 3600 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.

December 2005

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	39	24	209	226	29	66	776	708	536	130	0	0	0	0	0	0	0	2744
2	0	0	0	0	0	0	0	344	687	810	866	841	892	875	822	663	347	0	0	0	0	0	0	0	7147
3	0	0	0	0	0	0	0	190	330	666	526	129	284	746	768	127	0	0	0	0	0	0	0	0	3766
4	0	0	0	0	0	0	0	5	1	68	164	128	116	37	64	2	2	0	0	0	0	0	0	0	588
5	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
6	0	0	0	0	0	0	0	0	0	73	574	488	170	203	116	37	65	0	0	0	0	0	0	0	1728
7	0	0	0	0	0	0	0	217	653 ?	771	839	846	861	832	669	204	109	0	0	0	0	0	0	0	6001
8	0	0	0	0	0	0	0	0	1	75	345	422	684	671	55	0	0	0	0	0	0	0	0	0	2254
9	0	0	0	0	0	0	0	0	0	0	3	129	195	304	817	681	331	0	0	0	0	0	0	0	2462
10	0	0	0	0	0	0	0	324	687	743	688	716	381	724	804	517	7	0	0	0	0	0	0	0	5591
11	0	0	0	0	0	0	0	247	635	806	871	897	890	871	805	656	332	0	0	0	0	0	0	0	7010
12	0	0	0	0	0	0	0	200	304	688	771	885	890	863	786	344	0	0	0	0	0	0	0	0	5730
13	0	0	0	0	0	0	0	122	574	559	627	693	906	899	849	713	400	0	0	0	0	0	0	0	6342
14	0	0	0	0	0	0	0	145	5	3	91	43	20	7	0	3	0	0	0	0	0	0	0	0	316
15	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
16	0	0	0	0	0	0	0	287	664	843	904	931	802	379	410	281	91	0	0	0	0	0	0	0	5590
17	0	0	0	0	0	0	0	21	73	6	12	25	2	1	4	1	4	0	0	0	0	0	0	0	148
18	0	0	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	2
19	0	0	0	0	0	0	0	66	489	798	859	888	884	838	752	621	280	0	0	0	0	0	0	0	6476
20	0	0	0	0	0	0	0	252	568 ?	371	674	870	905	884	805	686	369	0	0	0	0	0	0	0	6383
21	0	0	0	0	0	0	0	85	619	739	619	881	899	878	819	682	354	0	0	0	0	0	0	0	6574
22	0	0	0	0	0	0	0	263	619	757	811	837	851	847	803	682	367	0	0	0	0	0	0	0	6837
23	0	0	0	0	0	0	0	319	630	726	769	795	815	812	793	700	408	0	0	0	0	0	0	0	6766
24	0	0	0	0	0	0	0	298	492	708	757	782	798	799	773	673	390	0	0	0	0	0	0	0	6471
25	0	0	0	0	0	0	0	1	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
26	0	0	0	0	0	0	0	1	0	193	637	591	260	255	13	436	262	0	0	0	0	0	0	0	2647
27	0	0	0	0	0	0	0	147	439	635	697	728	750	736	694	536	191	0	0	0	0	0	0	0	5554
28	0	0	0	0	0	0	0	171	173	96	214	389	467	565	436	249	6	0	0	0	0	0	0	0	2766
29	0	0	0	0	0	0	0	0	0	22	2	0	0	0	183	89	54	0	0	0	0	0	0	0	351
30	0	0	0	0	0	0	0	204	468	578	532	498 ?	667 ?	646	461	426	296	0	0	0	0	0	0	0	4775
31	0	0	0	0	0	0	0	94	366	120	2	4	1	189	29	4	0	0	0	0	0	0	0	0	809
Avg	0	0	0	0	0	0	0	130	307	389	454	467	466	504	459	340	155	0	0	0	0	0	0	0	3672
S D	0	0	0	0	0	0	0	121	282	341	343	371	381	362	358	290	162	0	0	0	0	0	0	0	2705
S/A	0	0	0	0	0	0	0	0.93	0.92	0.88	0.75	0.8	0.82	0.72	0.78	0.85	1.05	0	0	0	0	0	0	0	0.74
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	2
Max	0	0	0	0	0	0	0	344	687	843	904	931	906	899	849	713	408	0	0	0	0	0	0	0	7147
n	0	0	0	0	0	0	1	322	360	371	371	366	368	372	372	372	301	0	0	0	0	0	0	0	3576

Daylight Data Recovery: 0.0% missing; 0.7% exceed the 15% QC threshold -- 3600 total daylight measurements.

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

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

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

December 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	?	40	146	228	241	324	281	77	61	46	19	0	0	0	0	0	0	0	1462
2	0	0	0	0	0	0	0	19	43	55	62	77	64	60	52	39	16	0	0	0	0	0	0	0	486
3	0	0	0	0	0	0	0	39	90	93	161	248	217	73	53	60	13	0	0	0	0	0	0	0	1049
4	0	0	0	0	0	0	0	27	33	181	250	251	274	199	166	84	23	0	0	0	0	0	0	0	1489
5	0	0	0	0	0	0	0	9	18	34	35	30	34 ?	25 ?	24 ?	15 ?	5	0	0	0	0	0	0	0	228 ?
6	0	0	0	0	0	0	0	13	51	151	163	169	198	202	96	62	29	0	0	0	0	0	0	0	1135
7	0	0	0	0	0	0	0	19	56 ?	61	67	74	71	67	61	83	30	0	0	0	0	0	0	0	589
8	0	0	0	0	0	0	0	26	97	160	159	172	162	136	183	66	15	0	0	0	0	0	0	0	1176
9	0	0	0	0	0	0	0	8	38	104	147	226	238	128	49	33	14	0	0	0	0	0	0	0	986
10	0	0	0	0	0	0	0	21	47	69	102	113	227	93	49	44	14	0	0	0	0	0	0	0	778
11	0	0	0	0	0	0	0	22	41	50	56	58	59	53	47	36	15	0	0	0	0	0	0	0	437
12	0	0	0	0	0	0	0	41	105	90	79	62	58	54	53	43	14	0	0	0	0	0	0	0	599
13	0	0	0	0	0	0	0	24	49	110	134	121	58	49	41	31	13	0	0	0	0	0	0	0	629
14	0	0	0	0	0	0	0	47	76	132	217	242	252	164	104	81	21	0	0	0	0	0	0	0	1335
15	0	0	0	0	0	0	0	10	22	29	81	95	116	81	68	24	4	0	0	0	0	0	0	0	531
16	0	0	0	0	0	0	0	14	34	44	47	48	79	187	134	75	33	0	0	0	0	0	0	0	695
17	0	0	0	0	0	0	0	26	90	141	193	330	302	190	146	51	20	0	0	0	0	0	0	0	1488
18	0	0	0	0	0	0	0	6	24	43	71	71	82	58	73	36	10	0	0	0	0	0	0	0	474
19	0	0	0	0	0	0	0	15	69	47	53	53	53	63	92	35	12	0	0	0	0	0	0	0	492
20	0	0	0	0	0	0	0	24	53 ?	93	78	65	67	55	52	37	14	0	0	0	0	0	0	0	539
21	0	0	0	0	0	0	0	16	39	56	81	64	57	51	43	33	12	0	0	0	0	0	0	0	453
22	0	0	0	0	0	0	0	17	37	47	51	54	54	47	42	32	11	0	0	0	0	0	0	0	391
23	0	0	0	0	0	0	0	13	31	43	48	49	49	47	41	31	12	0	0	0	0	0	0	0	364
24	0	0	0	0	0	0	0	21	52	45	47	49	49	44	38	29	10	0	0	0	0	0	0	0	384
25	0	0	0	0	0	0	0	15	20 ?	32	29 ?	71	88	68	67	51	13	0	0	0	0	0	0	0	455
26	0	0	0	0	0	0	0	19	64	112	70	121	167	187	154	63	16	0	0	0	0	0	0	0	975
27	0	0	0	0	0	0	0	26	54	53	51	49	49	54	47	39	14	0	0	0	0	0	0	0	437
28	0	0	0	0	0	0	0	27	88	178	223	148	132	108	102	72	23	0	0	0	0	0	0	0	1102
29	0	0	0	0	0	0	0	3	49	127	133	74	63	72	169	77	25	0	0	0	0	0	0	0	791
30	0	0	0	0	0	0	0	16	39	51	84	107 ?	58 ?	67	77	60	14	0	0	0	0	0	0	0	573 ?
31	0	0	0	0	0	0	0	17	62	155	137	123	131	260	179	97	26	0	0	0	0	0	0	0	1188
Avg	0	0	0	0	0	0	0	21	55	91	108	121	122	97	83	50	17	0	0	0	0	0	0	0	765
S D	0	0	0	0	0	0	0	10	29	53	65	84	84	61	48	21	7	0	0	0	0	0	0	0	376
S/A	0	0	0	0	0	0	0	0.5	0.52	0.59	0.6	0.7	0.69	0.63	0.58	0.41	0.42	0	0	0	0	0	0	0	0.49
Min	0	0	0	0	0	0	0	3	18	29	29	30	34	25	24	15	4	0	0	0	0	0	0	0	228
Max	0	0	0	0	0	0	0	47	146	228	250	330	302	260	183	97	33	0	0	0	0	0	0	0	1489
n	0	0	0	0	0	0	0	303	357	371	368	365	365	366	369	369	300	0	0	0	0	0	0	0	3533

Daylight Data Recovery: 0.0% missing; 1.9% exceed the 15% QC threshold -- 3600 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

December 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	8.8	8.4	7.6	6.6	5.9	5.4	5.1	4.5	5.3	6.5	7.1	8	8.4	9.3	10.5	10.1	9.1	7.9	6.8	6.2	6.3	6.3	6.5	6.4	7.2
2	7.3	7.7	7	6.1	5.1	4.1	3.7	3.7	5	6.7	8	8.4	9.4	9.5	9.4	9	8.1	6.6	5.4	4.6	3.4	2.8	2.3	1.5	6
3	0.6	0.1	-0.3	-0.4	0.1	-0.9	-1.5	-0.6	2.4	4	5.5	5.5	6.2	7.6	8	7.5	6.7	6.2	5.7	5.8	6.5	6.8	6.8	6.8	4
4	6.3	6.6	7.3	8.9	10.6	11.4	12.3	13.5	14.7	15.9	17.1	18.1	18.9	19.1	19.3	18.8	18.1	17.2	16.5	16.2	15.2	11.6	9.6	8.6	13.8
5	7.3	6.7	6.2	6	6	6.3	6.6	6.7	7	7.2	8	8.6	8.8	8.4	8.3	8.2	8.3	8.4	8.8	8.8	8.8	9.5	7.3	5	7.5
6	4.3	4.3	3.5	3.1	2.6	2.1	1.9	2	2.3	2.8	4.1	4.9	4.9	5.5	5.2	4.6	4.1	3.2	2.6	1.9	1.4	0	-0.7	-0.9	2.9
7	-1.3	-1.7	-1.7	-1.2	-0.5	-0.4	-0.4	-0.5	1.3	3.1	4.2	5.6	6.9	7.8	8.2	7.5	6.8	5.6	4.8	4.2	3.4	2.7	2.3	2	2.8
8	1.5	1.3	1.3	1.1	0.7	0.4	0.2	-0.2	0.1	0.7	1.6	2.8	3.7	4.3	3.6	2.6	1.9	1.5	1.3	1.3	1.3	2.9	4.9	6.2	2
9	7.4	8.6	9.6	10.8	11.9	13.3	11.3	2.8	2.8	3.5	4.7	6.2	7.4	8	9.3	8.9	7.6	6.1	5	4.3	3.6	2.9	2.2	1.6	6.7
10	1.1	0.5	-0.2	-0.5	-1.2	-2.1	-2.3	-2.4	-0.4	3.1	4.8	5.6	6.5	7.4	8.5	8.7	7.6	6.3	6.2	6.6	6.6	7	6.9	7.3	3.8
11	7.3	6.9	6.7	6.2	5.8	5.4	4.9	4.6	5.2	6.6	7.9	9.1	10.3	11.3	11.5	11.4	10.4	9	7.8	7.2	7.2	6.6	5.5	4.9	7.5
12	4.8	4.8	4.6	4.1	4.3	4	3.3	3.2	4.7	6.7	8.1	9	9.6	10.2	10.8	10.6	9.6	8.9	8.6	8.7	8.4	8.1	7.3	5.9	7
13	4.9	3.8	3.2	2.8	2.2	1.3	0.9	0.7	0.7	1.1	1.7	2.3	2.8	2.9	2.8	2.5	1.5	0.5	-0.2	-0.5	-0.6	-1.3	-1.7	-2.2	1.3
14	-2.6	-2.6	-2.7	-3	-2.9	-2.9	-2.9	-2.5	-1.4	-0.8	0.4	2.5	3.3	3.2	3	2.7	2.2	1.9	1.7	1.5	1.4	1.5	1.6	1.5	0.2
15	1.5	2.4	3.4	4.1	5.2	6.1	6.7	7.1	7.7	7.6	7.5	8.2	8.9	9.8	10.4	10.9	11.1	11.2	12	13.4	13.9	14.1	14.1	14.1	8.8
16	14.7	15	15.3	15	12.5	8.3	6.2	5.5	5.6	6.7	7.9	9.5	10.6	10.5	10.8	10.6	10	9.1	8.4	7.7	7.1	6.8	6.2	5.3	9.4
17	5.2	4.8	4.3	3.8	3.3	2.8	2.7	3.4	4.4	5.1	6.8	8	8.2	8.4	8	7.4	7.3	7	6.6	6.4	6.5	6.6	6.5	6	5.8
18	6.2	6	5.5	5.2	5.1	4.9	4.8	4.6	4.8	4.9	5.2	5.2	4.9	5	5.1	5.1	4.8	4.5	4.4	4.4	3.9	3.2	2.8	2.3	4.7
19	1.9	1.2	1.3	1	1	1.3	1.5	0.8	1.9	3.9	5.9	7.7	8.6	8.9	9.6	9.9	8.7	7.2	5.5	4.3	3.8	3.3	2.4	2.1	4.3
20	1.6	1	0.7	0.1	-1.4	-1.6	-2.1	-2.1	-0.4	1.4	3	3.9	4.3	5.4	5.6	5.3	4.9	3.7	2.8	1.7	0.6	0.7	-0.1	-0.6	1.6
21	-0.5	-0.7	-1.6	-1.1	-0.4	0.1	-0.3	-0.6	0	1.1	1.8	3	3.8	4.4	5.4	5.4	4.4	2.8	1.7	0.5	-0.1	-0.5	-1.2	-1.8	1.1
22	-2.2	-2.5	-1.9	-2.8	-2.2	-2.1	-2	-1.2	0.7	2.9	4.4	5.5	6	7	7	7.3	6.1	4.1	3.2	2.6	2.1	1.6	0.8	0.3	1.9
23	0.2	0.7	0.7	0.6	0.3	0.1	-0.8	-0.5	1.5	4.1	6.8	9	11.2	12.1	12.8	13.1	12.2	10.1	8.8	7.5	6.5	6.1	5	4.5	5.5
24	4.8	5	5	5.3	5	4.7	4.1	3.9	5	7.6	10.3	12.1	13.7	14.7	15.2	15.1	13.8	11.4	10.3	8.6	7.2	6.6	6.9	7.3	8.5
25	7.3	7.4	7.7	7.7	7.6	7.6	7.9	9	11.3	12.7	14.1	15.1	15.7	15.1	15.2	15.4	15.4	15.5	15.2	14.8	14	13.6	13.2	12.4	12.1
26	11.9	11.2	10.3	9.5	8.7	8.4	8	7.8	8.3	9	10.2	10.9	10.7	10.4	10.2	10.7	10.2	9.1	8.7	7.8	7.2	6.5	5.9	5.4	9
27	4.9	4.5	3.9	3.4	3.2	2.8	2.5	2.2	3.1	4.7	6.7	8.4	9.8	10.5	10.9	11.2	10.4	8.8	6.6	5.7	5.2	4.9	4.4	3.8	5.9
28	3.7	3.8	3.7	3.8	4	4.4	4.9	5.2	6.7	8.4	10.5	12	13.4	15.1	15.6	15.4	14.4	13.7	12.6	12.1	11.7	11.5	11.2	10.7	9.5
29	10.2	10.5	9.8	9.7	10.3	10.7	10.1	10.4	11.2	11.7	12.3	12.2	12.1	12.3	13	13.3	13	11.8	11.2	10.9	10.7	9.5	8.8	7.9	11
30	6.5	5.5	4.9	4.4	3.7	3.4	3	2.8	4.1	6	8.5	10.7	12.3	13.1	13.2	12.3	11.1	9.3	8.1	7.2	6.6	6	5.7	5.7	7.3
31	5.3	5	4.8	4.7	4.8	5	5	5.5	7.1	8.8	9.5	10.8	10.9	13.5	14.5	14.2	13.6	12.9	12.2	11.8	11.5	11.3	10.8	10.3	9.3
Avg	4.5	4.4	4.2	4	3.9	3.7	3.4	3.2	4.3	5.6	6.9	8	8.8	9.4	9.7	9.5	8.8	7.8	7.1	6.6	6.2	5.8	5.3	4.8	6.1
S D	4	4.1	4.1	4.2	4.1	4.1	4.1	3.9	3.8	3.7	3.7	3.7	3.8	3.8	4	4.1	4.1	4.1	4.1	4.2	4.2	4.1	4	4	3.4
S/A	0.89	0.94	0.98	1.04	1.05	1.12	1.2	1.22	0.89	0.65	0.53	0.46	0.43	0.41	0.41	0.43	0.46	0.52	0.58	0.64	0.68	0.71	0.76	0.83	0.57
Min	-2.6	-2.6	-2.7	-3	-2.9	-2.9	-2.9	-2.5	-1.4	-0.8	0.4	2.3	2.8	2.9	2.8	2.5	1.5	0.5	-0.2	-0.5	-0.6	-1.3	-1.7	-2.2	0.2
Max	14.7	15	15.3	15	12.5	13.3	12.3	13.5	14.7	15.9	17.1	18.1	18.9	19.1	19.3	18.8	18.1	17.2	16.5	16.2	15.2	14.1	14.1	14.1	13.8
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: CSI 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

December 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	88.2	91.1	93.8	92.5	95.4	95.8	96.1	98.8	98.4	92	88	84.2	82.7	77.6	72.9	74.3	80.4	85	90.3	93.1	93.3	93.9	92.9	94	89.4	
2	90.7	88.2	86.5	86.3	86.9	88	86.7	83.8	78.6	69.2	60.3	59	49	44.1	37.6	38.2	35.3	35.1	39.3	41.5	47	49.4	50.5	53.1	61.8	
3	56.7	58.9	61.3	62.9	59.5	68.5	72.5	69	53.9	45.3	40.1	41.7	40.5	38.4	37.1	40.9	49.1	56.7	61.2	61.8	65.7	69	75.7	85.1	57.1	
4	97	102.4	104.7 ?	?	104.1 ?	103.5	102.4 ?	95.7	87.4	82.9	80.2	79.7	75.8	75.3	74.8	77	81.1	85.2	88.7	90.1	95.3	98.9	101	103.6	90.7 ?	
5	104.8 ?	104.4 ?	?	?	?	?	?	?	?	?	104.5	103.7	103.4	104.3 ?	?	?	?	?	?	?	?	?	?	?	104.2 ?	
6	?	?	?	?	?	?	104.9	103.6	100.7	96.7	86.2	79	75.9	72.7	71.4	72.9	74.6	79.1	82.3	86.5	89.1	96.4	100.5	102.1	87.5 ?	
7	104.1	104.9 ?	104.8 ?	104.4	104.4	102.2	102.4	102.5	98.1	89.1	76.8	72.2	63.9	59.5	56.7	56.7	56.8	62.5	67.4	69.8	76.1	80.8	82.1	83.4	82.6	
8	85.6	86	85.9	85.6	85.4	84.2	82.4	78.7	71.8	69.5	68.7	64.3	62.7	64.2	70.3	74.2	76.9	81.5	84.8	86.7	90.6	96.1	94.8	94.2	80.2	
9	97.9	100.5	103.6	104.1	104.5	104.7	104 ?	?	?	?	?	92.3	75.5	71.7	54.1	49	49.8	55.3	60.8	62.5	66.1	70.8	76.1	77.9	79.1 ?	
10	77.7	80.8	84.3	85.9	89.2	96.1	97.9	100.3	95.3	81.8	80.5	73.7	63.3	72.1	72.5	75.3	82.4	92.5	90.8	100.1	101.6	101.7	103	104.5 ?	88	
11	?	?	104.8 ?	104.8 ?	103.7	102.8	103	102.3	96.8	83.3	67.8	62.4	58.4	51.9	49.9	50.6	54.6	60.1	64.4	65.6	66.7	68.5	70.2	70.4	75.6 ?	
12	70.3	70.5	72.9	79.3	77.5	78.3	81.4	82.2	77	68.4	62.5	55.8	52.3	48.9	46.3	48.8	55.4	59.2	63.5	65.2	69.9	72.1	78.8	92.3	67.9	
13	98.3	97.5	89.1	82.1	80.2	73.9	75.1	77.1	74.8	75.4	74.5	67.7	58.9	51.8	47.3	50.8	56.9	61.6	67.9	66.9	65.1	68.6	71.2	73.8	71.1	
14	74.9	74.7	69.8	75.9	80.2	82.4	84.2	86.1	86.8	88.4	89.8	88.7	85.9	84.9	83.2	78.4	83.5	87.4	90.4	91.9	94.1	96.6	98	100.2	85.7	
15	100.7	101.2	101	100	96.9	93.5	93.4	93.9	94.6	100.2	104.4	104.4	?	?	?	?	?	?	?	?	?	?	?	?	?	98.7 ?
16	?	?	?	103.4 ?	101	101.5	101	101.2	100.1	93.4	86.8	78	72.4	72	69.9	68.8	71.8	76.2	78.9	79.5	76.4	73.5	74.2	78.9	83.8 ?	
17	78.9	80.8	83.3	85.5	88.7	92	93.5	92.2	87.1	86.6	83.7	74.5	71.5	72.3	74.9	77.9	80	83.4	84.4	84.9	86.1	86.8	88.5	90.2	83.7	
18	88.9	93.7	100.2	103.3	103.6	104.3 ?	?	?	105 ?	?	103.2	101.5	102.8	104.2	102	101.4	102.4	102.5	99.5	97.9	99.1	100.3	100.5	101	100.8 ?	
19	101.5	102.6	100.6	100.9	102	102.1	100	100.5	99.1	92.5	78.9	64.2	58.5	56.3	56.2	55.3	58.8	68.3	79.7	85.4	87.5	91	94.5	96.6	84.7	
20	97	98.1	97.7	98.8	103.2	104.4	104.9 ?	103.1	92.9	80.7	72.2	61.9	63.5	65.6	67.4	63.5	66.5	69.4	63.3	66	70.9	69	73.1	75.5	80.4	
21	71.8	72.5	79.9	79.2	79.1	80.9	82.6	83.1	78.8	73.7	71.8	65.7	60.9	55.9	54.2	56.5	61.7	70.1	75.6	81	79.3	79.5	85.7	91.9	73.8	
22	93.8	92.2	81.6	83.9	84.4	87.7	83.9	83.8	82.5	78.1	72.6	63.8	58.5	52.4	56	58.8	70.5	80.3	82.7	84.7	88.5	92.2	97.1	99.8	79.6	
23	103	104.2	104.1	99.9	97	92	94.6	89.4	79.7	70.2	59.1	51.6	42.4	37.4	34.4	34.6	37.6	44.5	53.1	62.2	67.7	67.2	76.9	76.2	70	
24	67.4	66.6	68.3	65.6	67.3	69.1	71.6	72.6	70	63.8	55.5	46.2	39.6	40.8	41.2	43.8	46.3	51.8	55.1	64.2	76.8	81.3	84.6	88	62.4	
25	89.8	93.9	96.7	98	100.2	102.3	?	103.5 ?	101.5	104.3 ?	104.9 ?	?	103.6	104.2 ?	?	?	?	?	?	?	?	?	?	?	100.2 ?	
26	101 ?	98.1	98.6	97.3	98.2	97.7	99	99.9	97.8	93.6	86.3	81.2	77.1	69.5	65	61.6	63.8	69.1	67.3	70.8	73.1	77	81.4	83.1	83.7	
27	84.8	85.5	87.3	88.6	88.6	90.2	91.9	93.2	89.5	82.5	73.7	64.2	58.7	55.8	54.4	53.9	56.1	65	83.1	93	97.5	99.8	102.1	104.2 ?	81	
28	?	104.6 ?	104.5	103.6	102.4	100.3	96.4	94	90.1	90.1	85.9	79.4	77.6	76.9	77	78.3	83.1	86.1	85	81.4	85.2	89.1	92	95	89.5	
29	97.5	97.4	102.3 ?	?	?	?	?	?	?	?	?	104.6 ?	104.4	103.9	101.5	97.1	90.5	91.5	91.7	94	94.9	81.2	77.9	79.6	79.4	93.5 ?
30	83.9	88.4	90	91.6	95.1	96.3	97.4	97.4	91.8	83.8	76.3	67	61.4	60.6	61	69	72	77.6	83.6	88.9	96.2	99	100.4	100.4	84.5	
31	102.1	103.8	104.8	104.9 ?	?	104.9 ?	?	104.7 ?	101	97.2	95.8	93.8	99.9	91.8	87.4	88.2	90.2	92.8	95	95.7	95.1	87.7	77.5	74.7	95 ?	
Avg	89.2	90.8	91.5	91.4	91.8	92.8	92.4	92.3	88.6	82.7	79.8	74.2	70	67.8	63.3	63.9	67.5	72.5	76.4	79	81.5	83.4	85.8	88.2	82.8 ?	
S D	12.9	12.9	12.7	12.1	12.1	11.1	10.3	10.4	12	13	16	17	18.8	19.5	17.5	16.7	16.7	16.1	15.2	14.5	13.4	13.5	12.8	12.7	11.6	
S/A	0.14	0.14	0.14	0.13	0.13	0.12	0.11	0.11	0.14	0.16	0.2	0.23	0.27	0.29	0.28	0.26	0.25	0.22	0.2	0.18	0.16	0.16	0.15	0.14	0.14	
Min	56.7	58.9	61.3	62.9	59.5	68.5	71.6	69	53.9	45.3	40.1	41.7	39.6	37.4	34.4	34.6	35.3	35.1	39.3	41.5	47	49.4	50.5	53.1	57.1	
Max	104.8	104.9	104.8	104.9	104.5	104.9	104.9	104.7	105	104.3	104.9	104.4	103.9	104.3	102	101.4	102.4	102.5	99.5	100.1	101.6	101.7	103	104.5	104.2	
n	313	320	310	299	316	321	296	316	326	316	341	360	358	348	336	336	336	336	336	336	336	336	336	326	7892	

Data Recovery: 0.0% missing; 11.6% failed QC -- 8928 total measurements.

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

December 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	8.1	7.8	7.3	6.7	5.8	4.9	4.4	4	4.2	6.4	8.9	10.7	11.4	12.3	13.2	13.4	12.1	9.6	7.4	5.8	5.5	5.8	6	5.9	7.8
2	6	6.7	7	6.2	5.1	3.9	2.9	2.6	4.2	6.7	9.1	10.7	11.5	11.9	11.7	11.4	10.4	8.1	5.8	4.3	2.9	1.7	1	0.5	6.4
3	-0.3	-1.1	-1.7	-2.1	-1.8	-1.6	-2.1	-2.4	-0.1	3.6	7.4	9.2	9.4	10.1	11.1	10.7	8.9	7.4	5.9	5.5	5.9	6.3	6.6	6.8	4.2
4	6.2	6	6.4	7.4	8.8	9.9	10.7	11.5	12.8	14.5	16.7	18.3	19.6	20.2	20.3	20.1	19.3	18.2	17	16.3	15.8	14.5	11.8	10	13.8
5	8.8	7.8	7.1	6.6	6.4	6.3	6.5	6.8	6.9	7.1	7.4	7.9	8.3	8.6	8.6	8.5	8.5	8.6	8.7	9	9.1	9.2	9.4	7.7	7.9
6	6.1	5.1	4.7	4.1	3.5	3	2.5	2.2	2.2	2.7	4.5	7.2	8	8	7.7	6.4	5.3	3.4	1.6	0.6	-0.3	-1.4	-2.3	-2.8	3.4
7	-3.1	-3.4	-3.8	-3.8	-3.1	-2.4	-2.1	-2	-0.5	2.5	5.3	7.8	9.6	10.4	10.7	10	8.8	6.5	4.2	2.7	2	1.3	0.7	0.3	2.4
8	0.2	0.1	0.2	0.2	0.2	-0.1	-0.2	-0.4	-0.3	0.3	1.8	4	5.8	7.6	7.7	5.8	3.8	2.3	1.5	1.2	1	1.1	2.5	4.3	2.1
9	5.6	7	8.1	9.2	10.3	11.4	12.5	9.3	5.3	4.5	4.9	5.9	7.6	8.8	10	10.9	10.3	7.7	5.1	3.6	2.5	1.6	0.9	0.3	6.8
10	-0.3	-0.9	-1.8	-2.5	-3	-3.8	-4.3	-4.3	-2.2	2	6.4	8.7	9.7	10.1	10.6	11	10.3	8.5	6.9	6	6	6.6	6.9	6.8	3.9
11	7	6.8	6.3	5.9	5.4	4.9	4.4	4	4.9	7	9.2	10.9	12	12.9	13.5	13.4	12.7	10.4	8.2	6.7	6.5	6.5	5.4	4.3	7.9
12	3.8	3.9	4.3	4.2	3.9	3.6	2.8	2.4	3.6	6.3	9	11	12	12.6	13.1	13.1	11.5	9.9	9	8.5	8.1	7.8	7.7	7.1	7.5
13	6.1	5.3	4.5	3.7	2.9	1.8	0.8	0.1	0.7	2.4	3.8	4.9	5.9	6.4	6.1	5.6	4.5	2	-0.3	-1.6	-2.1	-2.7	-3.2	-3.7	2.2
14	-4.3	-4.7	-4.7	-4.7	-4.7	-4.5	-4.4	-4.1	-2.8	-1.5	-0.1	2.1	3.9	4.9	4.8	4.3	3.6	2.8	2.3	2	1.9	1.8	1.8	1.4	-0.1
15	0.9	1.4	2.3	3.1	3.9	5	5.8	6.5	7.1	7.4	7.4	7.8	8.4	9.2	9.8	10.4	10.8	11.1	11.4	12.3	13.2	13.7	14.1	14.2	8.2
16	14.4	14.9	15.2	15.3	14.5	12.3	9.2	7.2	6.9	8.4	10.2	11.8	13.4	13.9	13.5	13	11.7	9.9	8.3	7	6.1	5.7	5.1	4.2	10.5
17	3.8	3.6	2.6	2	1.5	1.1	1	1.7	3.1	4.8	6.3	8.1	9.7	10.5	10.3	9.5	8.5	7.8	7.2	6.9	6.5	6.5	6.7	6.6	5.7
18	6.4	6.3	5.7	5.3	5.1	5	4.9	4.9	4.8	5	5.2	5.3	5.2	5.3	5.3	5.2	4.9	4.5	4.4	4.2	3.3	2.4	1.7	4.8	
19	0.9	0.4	0.1	0	0.1	0.4	0.5	0	0.5	3.7	7	9.7	11.9	12.7	12.7	12.8	11.7	8.5	5.4	3.7	2.1	1.5	1.1	0.3	4.5
20	0.2	-0.1	-0.6	-1.2	-2.1	-3	-3.4	-3.6	-2.3	0.4	2.9	6.5	8.2	8.8	8.8	8.3	7.3	4.7	2.2	0.3	-1.4	-2.4	-2.8	-3.2	1.3
21	-3.6	-3.5	-3.7	-3.8	-3	-1.9	-1.5	-1.8	-1.2	1.4	3.6	5.2	7.2	8.4	8.9	8.9	7.5	4.4	1.5	-0.9	-2.5	-3.2	-4	-5	0.7
22	-5.4	-5.8	-5.9	-5.9	-5.8	-5.3	-4.9	-4.3	-1.9	1.8	5.1	7.6	9.4	10.5	11	10.6	9.5	6.3	3.2	1.6	0.5	-0.7	-1.3	-1.6	1.2
23	-1.8	-1.6	-1.2	-1	-1.2	-1.5	-2.1	-2.4	-0.9	2.6	6.3	9.5	11.8	13.5	14.2	14.6	14.2	11.7	8.7	7	5.7	4.8	4	3.1	4.9
24	2.9	3.2	3.3	3.5	3.8	3.8	3.5	3.1	4.2	6.7	10.1	13.1	15	16.4	17.2	17.3	16.5	13.3	10.1	8.5	7.1	5.7	5.3	5.8	8.3
25	6.3	6.7	6.9	7.2	7.2	7.7	7.8	8.1	8.8	10.5	12.1	13.6	14.8	15.2	15.2	15.4	15.5	15.6	15.5	15.3	15	14.5	14	13.2	11.7
26	12.4	11.4	10.5	9.8	9	8.5	8.4	8.1	8.2	8.8	10.7	12.7	13.6	13	12.4	12	11.9	10.4	8.9	8	7.2	6.5	5.8	5.1	9.7
27	4.6	4	3.4	2.7	2.3	2.1	1.7	1.3	1.9	4.7	7.7	10.3	12.3	13.5	13.8	13.8	12.8	10	7	5.3	4.5	4	3.5	3.1	6.3
28	2.6	2.6	2.3	2.1	2.3	2.6	2.8	2.9	4.3	6.8	9.5	12.3	14.6	16.6	17.7	17.7	16.4	14.7	13.4	12.4	11.7	11.3	11.3	11.3	9.3
29	10.8	10.4	10.3	10	10.1	10.5	10.7	10.6	10.9	11.6	12.5	12.7	12.8	13	13.4	14.4	14.3	13.5	12.5	11.8	11.4	10.9	10	8.9	11.6
30	7.3	5.9	4.9	4.1	3.5	3	2.5	2.1	3.1	6	9.6	13	15.5	17	17	16.2	14.7	11.7	8.6	7	6.1	5.2	4.6	4.4	8
31	4.2	3.6	3.3	3.2	3.4	3.5	3.7	4	5.2	7.8	9.6	10.8	11.2	11.9	14.3	14.9	14.5	13.4	12.4	11.4	10.9	10.5	10.1	9.6	8.6
Avg	3.8	3.5	3.3	3.1	3	2.9	2.7	2.5	3.3	5.3	7.4	9.3	10.6	11.4	11.8	11.6	10.7	8.9	7.2	6.2	5.6	5.1	4.7	4.2	6.2
SD	4.8	4.8	4.9	4.9	4.8	4.7	4.7	4.5	4	3.5	3.4	3.4	3.5	3.5	3.7	3.9	4	4	4.3	4.5	4.8	4.9	4.9	4.9	3.5
S/A	1.29	1.37	1.46	1.55	1.58	1.6	1.72	1.79	1.22	0.67	0.46	0.36	0.33	0.31	0.31	0.33	0.37	0.45	0.59	0.73	0.86	0.97	1.06	1.17	0.57
Min	-5.4	-5.8	-5.9	-5.9	-5.8	-5.3	-4.9	-4.3	-2.8	-1.5	-0.1	2.1	3.9	4.9	4.8	4.3	3.6	2	-0.3	-1.6	-2.5	-3.2	-4	-5	-0.1
Max	14.4	14.9	15.2	15.3	14.5	12.3	12.5	11.5	12.8	14.5	16.7	18.3	19.6	20.2	20.3	20.1	19.3	18.2	17	16.3	15.8	14.5	14.1	14.2	13.8
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

December 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	2.8	3.1	3.4	3.1	1.9	1.9	1.3	0.2	1.1	1.8	2.3	1.9	1.5	2	1.4	2.1	2.6	1.5	1.1	0.9	0.8	1.1	1.3	1.7	1.8
2	3.1	3.4	3.1	2.7	2.9	2.3	2.6	2.1	3.3	4.7	4.6	5.6	6.3	6.7	6.3	5.8	4.6	3.7	3.2	2.2	1.7	1.9	1.8	1.7	3.6
3	1.4	1.1	1.2	1.6	1.7	1.5	1	0.5	0.5	1.1	1.5	1.7	1.9	1.2	1.8	1.9	1.5	0.4	0.7	1.1	1.2	2	1.8	1	1.3
4	1.1	1.7	1.2	1.8	2.3	2.8	3.8	4.7	6	6	6.8	6.2	6.6	6	5.4	4.4	3.4	2	1.4	0.5	0.7	4.3	3.8	4	3.6
5	3.9	4.5	4	3.3	3.5	2.8	2.5	3.4	3.8	4.2	3.8	3.6	3.9	2.7	3.9	3.6	3.5	1.9	2.8	2.8	1.4	2.1	3.9	4.4	3.4
6	4.4	2.9	3	3.6	3.2	3	2.9	2.7	3.1	2.6	2.9	3.2	2.9	2.8	2.6	2.3	2.1	1	1.1	0.8	0.4	0.1	0.4	0.2	2.3
7	0.4	0.1	0.2	0.8	1.5	1.5	1.3	0.7	0.5	1.8	2.2	2.1	3.4	3.4	2.8	2.3	1.7	0.9	0.7	0.9	1	0.8	1.2	1.2	1.4
8	1.5	2.4	2.7	3.1	3	2.7	2.5	2.6	2.9	2.9	3.3	3.4	3.1	2.8	2.8	3	2.4	1.8	2.2	1.2	0.8	2.6	3.1	4	2.6
9	4.9	4.9	5.5	4.9	4.4	4.6	5.2	3.6	0.4	2.3	3.1	3.2	3.3	2.4	3.7	4	3.3	2.1	1.6	1.6	1.3	1.3	1.8	1.8	3.1
10	1.4	0.7	0.8	0.9	0.2	0.4	0.4	0.5	0.5	0.4	1.2	2.2	2.4	3	3.1	2.2	1.8	1.5	1.5	1.7	0.7	1	1.1	2.5	1.3
11	2.5	2.1	2.6	2.5	2.8	2.8	2.7	2.7	2.9	3.4	5.1	5.6	5.8	5.3	5.4	4.8	3.7	2.2	1.8	2.2	2.2	2.2	2.3	1.6	3.2
12	1.9	2	1.6	2.4	2.4	2.3	2.1	2	2.3	3.3	3.9	4.9	4.6	3.4	2.9	1.9	0.9	0.9	0.7	1.3	0.3	0.7	3.3	3.3	2.3
13	3.5	3.9	4.4	4	4.6	3.6	2.4	3.1	3.1	3.9	4.6	4.1	4	4.3	4.1	3.8	3.5	2.2	1.8	1.9	1.9	1.4	1.7	1.2	3.2
14	1.3	1.6	2.4	2	2.9	2.6	2.4	2.6	2.3	2.4	2.6	2.8	2.7	2.8	2.9	3.1	2.6	2.3	2.1	2.6	2.6	2	1.5	1.5	2.4
15	1.2	1.8	1.5	1.3	1.7	1.9	2.5	3.1	3.7	4.2	3.7	3.9	4.2	4	4.4	3.7	3.1	2.2	3.9	6	5.6	5.5	3.4	3.4	3.3
16	3.1	2.4	2.3	4.4	4.7	4.6	2.5	2.2	2.7	2.7	3.7	2.9	2.5	3.4	3	2.8	1.5	0.9	0.8	1.2	1	0.9	0.7	0.7	2.4
17	0.8	0.7	0.7	0.9	0.9	1.4	1.3	1.7	1.9	2	3	3.9	3	2.4	2.9	3	1.5	1.9	2.1	1.5	1	0.9	1.5	1.9	1.8
18	2.2	1.9	2.1	1.4	1.7	1.3	2.3	2.5	3.2	2.6	3.9	4	2.5	2.2	2.9	2.8	2.1	2.4	2.4	2	1.7	1.4	1.2	0.2	2.2
19	0	0.5	0.3	0.4	0.6	0.7	0.1	0.1	0.4	1.9	2.2	1.3	1.6	2.4	2.3	1.5	1.3	0	1	0.3	0.8	1.2	0.5	1.6	1
20	1.5	1.5	0.9	0.4	0.2	0.5	0.5	0.6	0.7	0.7	0.4	1.3	2	2.3	3	3.1	1.5	0.9	0.7	0.1	0.5	0.7	0.9	0.5	1.1
21	0.5	0.1	0.1	1.9	2.4	2.5	1.9	2.3	2.8	3.2	3.1	2.2	1.6	1.4	0.6	1.3	1	0.9	0.4	0.2	0.6	0.2	0.1	0	1.3
22	0	0.3	0.1	0.5	0.9	1.1	1.6	1.8	1.4	3.1	3.2	2.6	1.9	1.1	1.4	1.3	1.3	1.2	0.9	1	0.4	0.2	0.8	0.6	1.2
23	0.9	1.4	1.5	1.6	1.8	1.3	1.1	1.6	1.7	3.1	3.7	4	4.3	4.7	4.4	3.6	2.4	1.6	2	1.9	1.9	1.8	1.9	2.2	2.4
24	2.8	2.6	2.9	3.2	3.1	3.3	3.2	2.4	1.7	2.4	2.7	3.5	3.6	2.7	2.3	2.3	1.6	1.3	1.7	2	1.9	1.3	1.9	2.4	2.5
25	2.1	1.4	1.4	0.9	0.6	1.2	1.9	2.2	2.7	3.3	3.9	4.8	5	4.4	3.3	3	2.5	1.6	1.1	1.2	1.1	2.3	3.1	1.8	2.4
26	3.1	3.1	2.9	3.1	4.2	5	4.6	4.7	5.4	5.4	6.1	6.5	6.7	6.9	5.4	4.9	4.3	3.6	4.8	4.5	4	4.4	3.9	4.5	4.7
27	3.7	3.4	2.7	2.8	3.5	3	2.3	1.6	1.7	2.7	2.5	2.6	2.2	2.6	2.4	1.5	1.1	0.1	1	1.6	1.7	1.5	1.4	0.8	2.1
28	1.3	0.7	0.4	1	1.7	1.7	1.4	1.5	1.8	2.2	3	2.7	3	3.3	3.4	2.9	2.6	3	2.4	2.5	2.2	1.9	0.9	1.4	2
29	0.5	0.6	0.7	1.7	0.6	2	0.7	0.8	0.7	1.5	3.3	2.9	3.1	3.2	4.2	3.7	3	2.8	1	2.2	3.6	4	3.4	3.2	2.2
30	2.9	3	2.7	2.5	2.8	2.6	2.2	1.9	2	1.6	0.5	0.7	0.7	1.1	1	2.2	1.5	0.7	1.2	1.5	1.1	1	1.1	0.8	1.6
31	0.2	0.3	0.4	0.6	1.2	1.2	1.7	1.7	2.5	3.2	2.2	2.7	1.8	3.3	4.9	4	2.6	2.1	1.6	2	2.3	2.4	2.6	2.7	2.1
Avg	2	1.9	1.9	2.1	2.3	2.3	2.1	2.1	2.2	2.8	3.2	3.3	3.3	3.2	3.3	3	2.3	1.7	1.7	1.7	1.6	1.8	1.9	1.9	2.3
S D	1.3	1.3	1.4	1.2	1.3	1.2	1.1	1.2	1.4	1.3	1.4	1.4	1.5	1.5	1.4	1.1	0.9	1	1.2	1.2	1.3	1.1	1.3	1.3	0.9
S/A	0.68	0.68	0.71	0.59	0.58	0.52	0.54	0.56	0.62	0.45	0.44	0.43	0.47	0.46	0.42	0.37	0.42	0.56	0.6	0.69	0.74	0.72	0.6	0.67	0.38
Min	0	0.1	0.1	0.4	0.2	0.4	0.1	0.1	0.4	0.4	0.4	0.7	0.7	1.1	0.6	1.3	0.9	0	0.4	0.1	0.3	0.1	0.1	0	1
Max	4.9	4.9	5.5	4.9	4.7	5	5.2	4.7	6	6	6.8	6.5	6.7	6.9	6.3	5.8	4.6	3.7	4.8	6	5.6	5.5	3.9	4.5	4.7
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

December 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	360	358	359	354	359	7	2	269	287	302	323	335	357	18	299	281	262	237	224	249	236	225	225	222	321
2	243	270	274	269	277	287	272	267	268	278	274	271	270	266	272	271	272	281	289	290	273	275	280	287	273
3	274	278	287	322	320	250	242	318	331	326	317	266	266	259	243	229	213	167	126	136	152	152	142	128	248
4	102	122	116	152	190	223	199	207	226	220	232	237	237	242	244	249	232	244	236	254	13	31	34	40	228
5	31	41	35	42	43	46	41	42	44	49	61	57	60	39	51	57	50	39	46	51	46	89	325	335	41
6	332	324	311	312	309	314	320	317	326	330	339	331	318	313	301	296	298	313	321	322	335	264	259	246	318
7	247	189	223	252	245	242	248	254	283	289	282	279	270	286	289	299	299	304	305	340	337	357	357	3	287
8	0	6	5	19	32	27	14	9	4	10	24	35	63	47	29	44	50	46	39	21	42	75	93	100	36
9	106	114	117	130	142	160	271	302	292	270	290	300	306	305	310	309	323	310	299	302	302	305	318	332	291
10	332	332	319	330	326	301	272	257	256	277	198	178	167	198	175	183	141	117	121	133	155	157	199	225	183
11	231	236	233	226	240	235	236	241	249	242	259	256	256	263	262	263	263	276	273	286	275	267	263	252	254
12	242	246	219	227	235	241	232	237	255	262	255	257	260	251	251	228	184	199	191	202	297	313	330	342	253
13	358	9	6	5	345	334	324	335	330	342	349	5	348	2	2	357	4	1	359	344	353	0	332	311	352
14	315	11	347	336	341	339	324	331	331	326	347	353	327	358	357	353	2	343	346	344	352	357	5	355	345
15	350	31	28	24	54	52	63	66	67	69	67	69	71	75	77	83	90	103	117	126	150	129	122	126	89
16	144	173	203	245	270	278	284	277	272	283	270	286	283	257	247	254	245	256	238	263	283	298	263	266	259
17	261	271	280	295	310	310	320	352	360	13	50	46	57	52	47	46	40	17	28	33	48	20	343	352	21
18	16	12	14	14	32	32	17	12	28	9	33	33	17	12	19	1	2	350	347	342	343	334	330	327	11
19	334	306	312	308	317	313	305	275	310	320	312	283	289	294	303	300	307	31	34	36	352	349	331	342	314
20	349	346	349	354	291	288	284	295	310	321	25	241	243	250	252	244	234	265	283	250	253	289	276	289	273
21	302	314	279	348	10	14	13	8	8	11	21	30	26	36	215	267	265	236	283	306	299	308	342	0	2
22	0	281	270	276	340	349	347	357	22	31	37	53	73	91	146	206	178	151	150	148	167	181	170	204	57
23	210	204	213	221	223	228	204	211	213	233	230	234	225	226	220	224	223	201	198	199	200	202	190	206	218
24	213	208	208	216	218	221	229	225	210	204	214	227	215	192	179	182	173	169	151	153	158	172	186	187	202
25	185	194	172	140	150	87	97	97	128	129	148	154	161	161	148	152	151	170	168	182	190	202	229	215	158
26	223	219	221	224	225	230	231	230	236	246	255	258	261	265	266	271	265	265	270	270	267	266	261	264	252
27	265	267	263	262	267	264	269	274	287	297	295	323	308	298	302	277	274	219	92	111	106	115	119	112	278
28	143	158	155	158	163	161	161	156	161	168	190	176	181	181	168	154	149	166	160	159	163	180	240	109	166
29	291	245	111	100	144	146	186	201	200	212	234	224	235	251	261	275	291	306	279	277	267	261	267	274	255
30	269	265	268	261	262	261	265	263	276	291	296	62	313	254	236	194	175	207	107	115	123	118	136	189	248
31	176	155	173	157	162	193	169	181	178	177	175	181	189	205	237	246	245	249	248	236	231	235	237	267	215
Avg	290	301	301	285	281	271	277	288	288	292	288	282	267	266	267	268	268	275	290	240	246	239	275	287	276
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: NRG Vane Serial Number: 0 Calibration Factor: 0.1408 deg/mV Calibration Date: 06/1995

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

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

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

December 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	5.3	5.1	5.8	5.3	3.5	3.5	2.6	0.6	2.3	3.8	4.4	3.7	3.2	3.7	3	3.9	4.4	2.3	1.9	1.6	1.4	2	2	2.7	3.3
2	5	5.9	5.6	4.8	5.2	4.5	4.6	3.9	6.3	8.6	8.2	10.1	11.2	12.1	11.5	10.6	8.8	7.6	6.3	4.4	3	3.5	3.7	3.3	6.6
3	2.5	2	2.2	2.8	3.2	2.5	1.7	1	1.4	2.5	3.2	3.4	3.8	3	3.6	3.3	2.8	1	1.2	2	2.3	3.3	3.1	1.9	2.5
4	2	3.2	2.3	3.5	4.4	4.7	6.6	8	9.6	9.7	11.2	9.8	10.7	9.8	9.1	7.1	5	3	2.1	1	1.6	7.1	6.8	7.1	6.1
5	6.6	7.6	6.8	6.1	6.2	5.5	5	6.1	6.6	6.8	6.6	6.1	7	4.9	6.4	6.2	6.2	4.1	5.2	5	3	4.5	7	7.3	6
6	7.7	5.8	6.6	7.2	6.7	6.4	5.9	5.6	6.3	5.7	5.9	6.2	5.6	5.4	5.6	4.7	4.3	1.9	2	1.5	1	0.4	0.9	0.5	4.6
7	0.7	0.5	0.5	1.2	2	2.2	1.9	1.1	1.5	3.2	4	4.1	6.3	6.8	5.8	4.9	3.7	1.8	1.3	1.6	1.7	1.4	1.9	2.1	2.6
8	2.3	4	4.6	5.3	5	4.8	4.6	4.8	5.3	5.5	5.5	5.6	4.9	4.9	4.8	5	3.9	2.8	3.7	2.2	1.4	4.3	4.9	6.2	4.4
9	7.7	8	8.7	7.6	7.4	8.4	9.6	7.5	1.8	4.8	7	6.9	7.2	5.6	7.2	7.4	6.1	4	3.3	3.1	2.6	2.5	2.4	3.2	5.8
10	2.4	1.6	1.4	1.5	0.6	0.7	0.8	1	1	1.1	2.4	3.8	4.1	5.1	4.8	3.9	2.9	2.4	2.6	2.8	1.6	1.9	2	4	2.3
11	3.7	3.3	4	3.7	4.5	4.3	4.2	4.3	5.1	5.6	8.1	9	9.7	9.4	9	8.1	6	4.2	3.3	4.1	4.2	3.8	3.5	2.6	5.3
12	2.8	3.3	2.7	3.6	3.6	3.7	3	3.2	3.8	5.4	6.6	8	7.8	5.7	5	3.2	1.9	1.6	1.4	2.5	0.8	1.5	5.9	5.6	3.9
13	5.9	7	7.9	7.1	7.7	6	4.6	5.7	5.6	6.9	8.1	7.2	7	7.5	7.1	6.4	6.1	4.1	3.6	3.4	3.3	2.5	3.2	2.6	5.7
14	2.4	3.1	4.1	3.5	4.8	4.6	4.4	4.5	4.4	4.1	4.5	5	5	5.1	5.2	5.5	4.7	4	3.7	4.4	4.2	3.4	2.7	2.4	4.2
15	2	3	2.3	1.9	2.7	2.9	4.3	5	5.8	6.3	5.9	6.4	7.2	6.9	7	6.6	5.7	4.1	6.6	9.7	9.3	9	5.7	5.5	5.5
16	5.4	4.5	4.5	7.3	8.1	8.7	5.2	4.9	5.3	5.4	6.2	5.3	5	5.5	4.9	4.4	2.5	1.3	1.3	1.9	2	1.8	1.2	1.2	4.3
17	1.3	1.3	1.4	1.7	1.5	2.2	2.4	2.8	3.4	3.5	5	6.3	5	4.1	4.8	5.1	2.7	3.3	3.8	2.8	1.9	1.9	2.4	3	3.1
18	3.7	3.2	3.5	2.4	3	2.7	4.2	4.8	5.9	4.8	6.5	6.8	5	4.6	5.4	5.1	4.3	4.4	4.3	4.1	3.4	2.8	2.8	0.9	4.1
19	0.4	1.7	1.2	1.4	1.8	2	0.9	0.2	1.3	3.7	4.3	3	3.6	4.7	4.7	3.4	2.7	0.1	2	0.8	1.5	1.8	1.1	2.4	2.1
20	2.5	2.4	1.6	0.9	0.8	1.2	1.2	1.5	1.9	1.7	1.2	2.7	3.7	4.5	5.2	5	2.5	1.7	1.5	0.2	0.9	1.3	1.4	1	2
21	1.1	0.5	0.3	3.1	4.2	4.2	3.7	4.1	5.2	5.9	5.3	4	3.3	2.7	1.6	2.9	2	1.2	0.8	0.6	1.4	0.6	0.2	0	2.5
22	0	0.5	0.4	0.8	1.3	1.7	2.4	3	2.8	5.3	5.1	4.2	3.4	2.2	2.7	2.5	2.3	1.9	1.5	1.8	1	0.5	1.4	1.1	2.1
23	1.5	2.2	2.4	2.4	2.6	2	2	2.6	3	5	5.8	6	6.6	7.3	6.9	5.6	3.5	2.3	2.9	3	3	2.9	3	3.4	3.6
24	4.4	4	4.8	4.9	4.9	5	4.3	3.6	3	3.9	4.4	5.5	5.9	4.6	4	3.9	2.7	2.2	2.6	2.9	3	2.4	3.1	3.7	3.9
25	3.4	2.3	2.4	1.6	1.2	1.9	2.8	3.6	4.3	5.4	6.6	7.9	8.9	7.4	5.5	5.6	4.8	3.3	2.7	2.9	2.6	4.1	4.8	3.5	4.1
26	5.1	5.5	4.9	5.3	6.7	7.6	6.8	7.3	8	8.8	10.2	10.5	11.3	12.1	9.7	9.4	7.7	6.3	8.6	7.8	6.9	7.3	6	6.9	7.8
27	5.7	5.6	4.3	4.4	5.8	4.5	3.6	3	3.5	5.4	4.8	4.6	4.7	5.2	4.7	3.4	2.3	0.3	1.6	2.4	2.6	2.1	2	1.2	3.7
28	1.8	1.3	0.9	1.7	2.6	2.7	2.3	2.4	2.9	3.6	5	4.7	5.1	5.7	5.9	4.9	3.9	5	3.9	4	3.6	3.3	1.6	2.1	3.4
29	1.2	1.3	1.4	3.4	1.4	3.7	1.9	2.1	2	3.1	5.6	4.8	5	5.4	7.4	7.8	6.3	5.7	2.3	4.4	6.3	6.6	5.9	5.7	4.2
30	4.8	4.7	4.4	3.8	4	4.1	3.5	2.9	3.8	3.3	1.5	1.6	1.9	2.8	2.3	3.7	2.5	1.3	2.1	2.2	1.7	1.5	1.8	1.6	2.8
31	0.7	0.8	0.9	1.2	2	2.1	2.7	2.9	4.1	5.1	3.6	4.9	3.4	6.1	7.5	6	4.3	3.3	2.5	3	3.4	3.6	4	4.5	3.5
Avg	3.3	3.4	3.4	3.6	3.9	3.9	3.7	3.7	4.1	5	5.6	5.8	5.9	5.8	5.8	5.3	4.2	3	3	3	2.8	3.1	3.2	3.2	4.1
SD	2.2	2.1	2.3	2.1	2.2	2	1.9	2	2.1	1.9	2.2	2.2	2.5	2.4	2.2	1.9	1.8	1.7	1.8	2	1.9	2.1	1.9	2	1.5
S/A	0.65	0.63	0.67	0.57	0.56	0.52	0.52	0.55	0.51	0.39	0.39	0.38	0.42	0.41	0.38	0.36	0.42	0.58	0.59	0.65	0.67	0.67	0.59	0.63	0.36
Min	0	0.5	0.3	0.8	0.6	0.7	0.8	0.2	1	1.1	1.2	1.6	1.9	2.2	1.6	2.5	1.9	0.1	0.8	0.2	0.8	0.4	0.2	0	2
Max	7.7	8	8.7	7.6	8.1	8.7	9.6	8	9.6	9.7	11.2	10.5	11.3	12.1	11.5	10.6	8.8	7.6	8.6	9.7	9.3	9	7	7.3	7.8
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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

December 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	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1011	1010	1008	1007	1007	1007	1007	1007	1008	1007	1007	1007	1007	1010
2	1006	1007	1007	1007	1008	1008	1009	1010	1010	1011	1011	1010	1009	1009	1009	1010	1011	1012	1013	1014	1015	1016	1017	1017	1011
3	1017	1017	1018	1018	1018	1019	1020	1021	1021	1022	1022	1021	1020	1019	1019	1019	1019	1019	1019	1019	1018	1018	1017	1016	1019
4	1015	1014	1013	1011	1010	1010	1009	1009	1010	1010	1010	1009	1008	1008	1008	1009	1010	1011	1012	1013	1013	1015	1015	1016	1011
5	1016	1016	1016	1017	1017	1017	1018	1017	1017	1016	1016	1015	1014	1013	1012	1012	1011	1011	1010	1009	1008	1007	1007	1007	1013
6	1008	1008	1009	1011	1012	1013	1014	1016	1017	1018	1018	1019	1019	1019	1020	1020	1021	1022	1023	1023	1024	1024	1025	1025	1018
7	1025	1025	1026	1026	1026	1027	1028	1028	1029	1030	1030	1030	1029	1028	1028	1029	1030	1031	1031	1032	1033	1033	1034	1034	1029
8	1034	1034	1035	1035	1036	1036	1037	1037	1037	1038	1037	1036	1035	1034	1034	1034	1034	1033	1032	1032	1031	1029	1027	1025	1034
9	1022	1021	1019	1017	1015	1013	1015	1017	1017	1017	1017	1016	1016	1015	1016	1017	1018	1019	1020	1021	1021	1021	1022	1022	1018
10	1021	1021	1022	1021	1021	1020	1021	1021	1021	1021	1021	1020	1018	1017	1015	1014	1013	1013	1011	1010	1010	1009	1008	1008	1017
11	1007	1007	1006	1006	1005	1005	1005	1006	1006	1006	1005	1004	1003	1003	1003	1003	1004	1005	1006	1006	1007	1007	1007	1007	1005
12	1007	1007	1007	1007	1007	1008	1008	1009	1009	1010	1010	1009	1008	1007	1007	1007	1008	1008	1009	1010	1010	1011	1011	1012	1009
13	1012	1013	1014	1014	1015	1016	1017	1018	1019	1020	1020	1020	1020	1020	1021	1021	1022	1023	1023	1024	1024	1024	1025	1026	1020
14	1026	1026	1026	1026	1026	1026	1027	1027	1028	1028	1027	1027	1026	1026	1026	1026	1026	1026	1026	1026	1025	1025	1024	1024	1026
15	1023	1022	1022	1022	1021	1021	1021	1020	1020	1020	1019	1018	1015	1013	1012	1011	1010	1009	1008	1007	1006	1005	1004	1003	1015
16	1002	1002	1002	1002	1003	1005	1007	1009	1010	1011	1012	1012	1012	1013	1013	1014	1016	1017	1018	1019	1020	1020	1021	1022	1012
17	1022	1023	1024	1024	1025	1026	1027	1028	1029	1030	1030	1030	1030	1030	1029	1029	1030	1030	1030	1029	1029	1029	1030	1030	1028
18	1029	1029	1028	1028	1028	1028	1028	1028	1028	1029	1029	1028	1027	1027	1026	1026	1026	1026	1026	1026	1026	1025	1025	1025	1027
19	1024	1024	1023	1023	1022	1022	1023	1023	1023	1023	1023	1022	1021	1020	1020	1020	1020	1020	1021	1021	1022	1022	1022	1022	1022
20	1022	1022	1022	1021	1021	1021	1022	1022	1023	1023	1022	1021	1020	1020	1019	1019	1019	1019	1020	1020	1020	1020	1020	1020	1021
21	1019	1020	1020	1020	1021	1021	1022	1022	1022	1022	1023	1022	1021	1020	1020	1020	1020	1020	1021	1021	1021	1021	1021	1021	1021
22	1021	1021	1022	1022	1022	1022	1023	1024	1025	1025	1025	1024	1023	1023	1022	1022	1023	1023	1023	1022	1022	1022	1021	1021	1023
23	1020	1020	1020	1019	1019	1019	1019	1019	1020	1020	1019	1018	1017	1016	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1017
24	1014	1014	1014	1014	1014	1014	1014	1014	1015	1015	1015	1014	1013	1012	1012	1012	1012	1012	1012	1012	1013	1013	1012	1012	1013
25	1011	1011	1010	1009	1009	1008	1008	1007	1007	1006	1005	1004	1002	1001	1000	999	998	997	997	997	997	997	997	997	1003
26	997	997	997	996	996	996	997	997	998	999	999	998	998	998	999	1000	1001	1002	1004	1005	1006	1006	1007	1007	1000
27	1008	1008	1009	1009	1009	1010	1011	1012	1012	1013	1013	1013	1012	1011	1011	1012	1012	1013	1013	1014	1014	1013	1013	1013	1012
28	1012	1013	1013	1013	1012	1012	1012	1012	1012	1012	1012	1011	1009	1009	1007	1007	1006	1005	1005	1004	1004	1004	1003	1002	1009
29	1000	999	998	996	995	995	994	995	995	995	995	994	993	993	993	994	996	997	998	999	1000	1000	1001	1002	997
30	1003	1003	1004	1004	1005	1006	1007	1008	1009	1010	1011	1010	1009	1009	1009	1009	1009	1010	1010	1010	1010	1010	1010	1010	1008
31	1010	1010	1010	1010	1009	1010	1009	1009	1009	1009	1008	1007	1006	1005	1004	1005	1006	1006	1007	1008	1009	1009	1009	1010	1008
Avg	1015	1015	1015	1015	1015	1015	1016	1016	1017	1017	1017	1016	1015	1014	1014	1014	1015	1015	1015	1015	1015	1015	1016	1015	1015
SD	9	9	9	9	9	9	9	9	9	9	9	10	10	10	10	9	9	9	9	9	9	9	9	9	9
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	997	997	997	996	995	995	994	995	995	995	995	994	993	993	993	994	996	997	997	997	997	997	997	997	997
Max	1034	1034	1035	1035	1036	1036	1037	1037	1037	1038	1037	1036	1035	1034	1034	1034	1034	1034	1033	1032	1032	1033	1033	1034	1034
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

December 2005

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.8	13.6	13.8	13.8	13.7	13.7	13.7	13.6	13.7	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13
2	12.7	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.5	13.9	13.8	13.7	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
3	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.4	14	13.9	13.8	13.8	13.8	13.7	13.7	13.3	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
4	12.7	12.6	12.6	12.6	12.5	12.6	12.6	12.6	12.6	13.3	13.5	13.5	13.5	13.5	13.4	13.3	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
5	12.7	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5
6	12.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5	13.4	13.8	13.7	13.8	13.8	13.8	13.4	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.3	14	13.9	13.8	13.8	13.7	13.7	13.7	13.8	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.6	13.1
8	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.7	13.9	13.9	13.8	13.8	13.8	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13
9	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.8	13.8	13.7	13.7	13.4	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13
10	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.4	14	13.9	13.8	13.8	13.7	13.7	13.7	13.6	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.1
11	12.7	12.6	12.6	12.6	12.6	12.6	12.5	13.2	13.8	13.8	13.7	13.7	13.7	13.6	13.6	13.7	13.3	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.1
12	12.6	12.6	12.6	12.6	12.6	12.6	12.5	13.2	13.8	13.8	13.7	13.7	13.7	13.7	13.7	13.4	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13
13	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.9	13.9	13.9	13.9	13.9	13.9	13.8	13.8	13.9	13.5	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.1
14	12.6	12.6	12.5	12.5	12.5	12.5	12.4	13.2	13.3	13.5	14	13.9	13.9	13.9	13.7	13.5	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13
15	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.7	13	13.1	13	12.9	12.7	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.6
16	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13	13.7	13.7	13.7	13.6	13.6	13.6	13.6	13.7	13.3	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
17	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.7	13.4	13.6	13.8	13.8	13.8	13.7	13.8	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13
18	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	12.8	12.9	12.8	12.8	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.4	12.6
19	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5	13.9	13.8	13.7	13.7	13.6	13.6	13.6	13.7	13.3	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
20	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.2	14	14	13.9	13.8	13.8	13.8	13.8	13.8	13.5	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.1
21	12.6	12.6	12.6	12.6	12.5	12.6	12.6	12.7	14	13.9	13.9	13.9	13.8	13.8	13.8	13.8	13.5	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.1
22	12.6	12.6	12.5	12.5	12.5	12.5	12.5	13.2	14	13.9	13.9	13.8	13.7	13.7	13.7	13.7	13.5	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13.1
23	12.6	12.6	12.6	12.6	12.6	12.5	12.5	13.2	14	13.9	13.8	13.7	13.7	13.6	13.6	13.6	13.4	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.1
24	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.2	13.9	13.8	13.7	13.6	13.6	13.5	13.5	13.5	13.3	12.8	12.8	12.7	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	12.6	12.6	12.6	12.6	12.7	12.8	12.8	12.8	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
26	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	13.5	13.6	13.6	13.6	13.6	13.7	13.7	13.3	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
27	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13	13.8	13.8	13.8	13.8	13.7	13.6	13.6	13.6	13.6	13.2	12.8	12.7	12.7	12.7	12.7	12.6	12.6	13
28	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.8	13.8	13.7	13.7	13.6	13.5	13.5	13.5	13.5	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
29	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.2	13	12.9	12.9	13.5	13.3	13.1	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.8
30	12.6	12.5	12.5	12.5	12.5	12.5	12.5	13	13.9	13.8	13.7	13.6	13.5	13.5	13.5	13.6	13.4	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13
31	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13.8	13.8	13.6	13.5	13.4	13.7	13.6	13.4	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
Avg	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.9	13.4	13.6	13.6	13.6	13.6	13.5	13.6	13.4	13.1	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.6	0.5	0.4	0.4	0.3	0.4	0.3	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
S/A	0	0	0	0	0	0	0	0.03	0.05	0.03	0.03	0.03	0.03	0.03	0.02	0.03	0.02	0.01	0.01	0.01	0.01	0	0	0	0	0.01
Min	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.4	12.4	12.5
Max	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.5	14	14	14	13.9	13.9	13.9	13.9	13.9	13.5	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.1
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL