

January 2012

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	0	32	150	306	421	467	488	458	337	163	38	0	0	0	0	0	0	0	2859
2	0	0	0	0	0	0	0	31	154	316	443	509	526	475	368	208	54	0	0	0	0	0	0	0	3083
3	0	0	0	0	0	0	0	28	153	316	444	508	528	403	136	81	24	0	0	0	0	0	0	0	2620
4	0	0	0	0	0	0	0	31	150	315	440	503	530	471	369	210	55	0	0	0	0	0	0	0	3076
5	0	0	0	0	0	0	0	16	141	298	421	491	510	458	354	187	48	0	0	0	0	0	0	0	2924
6	0	0	0	0	0	0	0	30	150	306	429	496	514	467	361	206	52	0	0	0	0	0	0	0	3009
7	0	0	0	0	0	0	0	16	130	228	321	347	463	389	346	200	50	0	0	0	0	0	0	0	2489
8	0	0	0	0	0	0	0	21	96	224	272	330	505	407	301	175	36	0	0	0	0	0	0	0	2368
9	0	0	0	0	0	0	0	3	18 ?	33	42 ?	72	41 ?	64	28 ?	?	6	1	0	0	0	0	0	0	308 ?
10	0	0	0	0	0	0	0	21	139	261	352	509	523	482	373	245	57	0	0	0	0	0	0	0	2961
11	0	0	0	0	0	0	0	7	23	53	113	150	168	102	53	37	6	1	0	0	0	0	0	0	713
12	0	0	0	0	0	0	0	30	152	313	434	498	481	411	378	222	65	4	0	0	0	0	0	0	2987
13	0	0	0	0	0	0	0	32	163	332	466	542	556	500	395	236	72	6	0	0	0	0	0	0	3300
14	0	0	0	0	0	0	0	32	161	328	459	536	554	507	399	240	74	3	0	0	0	0	0	0	3293
15	0	0	0	0	0	0	0	18	83	249	446	530	548	505	401	244	78	6	0	0	0	0	0	0	3107
16	0	0	0	0	0	0	0	44	204	231	407	547	491	428	393	199	38	5	0	0	0	0	0	0	2987
17	0	0	0	0	0	0	0	25	95	254	310	472	417	322	150	113	65	12	0	0	0	0	0	0	2234
18	0	0	0	0	0	0	0	5	32	51	151	194	410	370	330	224	87	9	0	0	0	0	0	0	1862
19	0	0	0	0	0	0	0	29	165	334	463	539	565	519	413	256	80	5	0	0	0	0	0	0	3368
20	0	0	0	0	0	0	0	33	124	278	334	365	444	450	352	160	43	4	0	0	0	0	0	0	2586
21	0	0	0	0	0	0	0	7	35	37 ?	83	109	97	172	92	93	7	0	0	0	0	0	0	0	731
22	0	0	0	0	0	0	0	5	26	47	45	103	125	111	94	48	20	3	0	0	0	0	0	0	627
23	0	0	0	0	0	0	0	19	64	98	141	207	246	293	203	64	32	5	0	0	0	0	0	0	1371
24	0	0	0	0	0	0	0	2	36	153	279	228	232	402	455	278	101	13	0	0	0	0	0	0	2179
25	0	0	0	0	0	0	0	28	132	317	433	550	571	527	421	269	97	9	0	0	0	0	0	0	3355
26	0	0	0	0	0	0	0	36	159	263	313	211	287	229	199	106	78	6	0	0	0	0	0	0	1888
27	0	0	0	0	0	0	0	18	40	67 ?	37 ?	68	148	298	245	278	109	16	0	0	0	0	0	0	1325
28	0	0	0	0	0	0	0	41	184	358	495	576	593	549	443	290	114	12	0	0	0	0	0	0	3657
29	0	0	0	0	0	0	0	41	190	367	507	593	615	573	465	304	120	13	0	0	0	0	0	0	3789
30	0	0	0	0	0	0	0	40	190	364	501	588	611	567	460	299	117	11	0	0	0	0	0	0	3749
31	0	0	0	0	0	0	0	40	192	365	502	586	607	562	454	295	114	15	0	0	0	0	0	0	3733
Avg	0	0	0	0	0	0	0	24	120	241	339	401	432	402	315	198	62	5	0	0	0	0	0	0	2533
S D	0	0	0	0	0	0	0	12	59	113	153	178	171	141	130	79	34	5	0	0	0	0	0	0	990
S/A	0	0	0	0	0	0	0	0.51	0.49	0.47	0.45	0.44	0.39	0.35	0.41	0.4	0.54	1.03	0	0	0	0	0	0	0.39
Min	0	0	0	0	0	0	0	2	18	33	37	68	41	64	28	37	6	0	0	0	0	0	0	0	308
Max	0	0	0	0	0	0	0	44	204	367	507	593	615	573	465	304	120	16	0	0	0	0	0	0	3789
n	0	0	0	0	0	0	0	292	365	360	362	370	364	371	365	358	368	66	0	0	0	0	0	0	3642

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.7% exceed the 15% QC threshold -- 3704 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31392F3 Calibration Factor: 7.3961 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 07/2007

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.

January 2012

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	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*	
2	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*	
3	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*	
4	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*	
5	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*	
6	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*	
7	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*	
8	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	0	*	
9	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
10	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
11	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
12	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
13	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
14	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
15	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
16	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
17	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
18	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
19	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
20	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
21	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
22	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
23	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
24	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
25	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
26	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
27	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
28	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
29	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
30	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
31	0	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
Avg	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	N/A	*
SD	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	0	0
S/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	N/A	
Max	0	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	0	0	N/A	
n	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	0	0

Daylight Data Recovery: 100.0% missing; 0.0% untested; 0.0% exceed the 15% QC threshold -- 3704 total daylight measurements.

Instrument: Eppley NIP Serial Number: 23398E6 Calibration Factor: 7.1447 μV/W/m² Calibration Date: 07/2007

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

January 2012

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	0	15	34	46	70	101	104	62	59	72	32	0	0	0	0	0	0	0	595
2	0	0	0	0	0	0	0	14	33	45	50	51	50	47	42	33	14	0	0	0	0	0	0	0	380
3	0	0	0	0	0	0	0	15	38	53	60	65	71	156	135	81	24	0	0	0	0	0	0	0	697
4	0	0	0	0	0	0	0	16	34	49	56	62	82	55	54	45	22	0	0	0	0	0	0	0	474
5	0	0	0	0	0	0	0	13	46	63	70	70	67	63	71	92	27	0	0	0	0	0	0	0	581
6	0	0	0	0	0	0	0	15	34	46	52	54	54	51	45	36	15	0	0	0	0	0	0	0	401
7	0	0	0	0	0	0	0	16	98	137	208	219	124	95	70	52	20	0	0	0	0	0	0	0	1038
8	0	0	0	0	0	0	0	23	86	170	231	162	79	106	135	112	34	0	0	0	0	0	0	0	1138
9	0	0	0	0	0	0	0	3	17	31	39	65	36	61	25	16 ?	7	1	0	0	0	0	0	0	299
10	0	0	0	0	0	0	0	22	68	62	61	68	57	54	53	77	19	0	0	0	0	0	0	0	542
11	0	0	0	0	0	0	0	8	23	53	113	150	168	102	53	33	6	0	0	0	0	0	0	0	710
12	0	0	0	0	0	0	0	15	39	67	106	100	160	140	60	49	23	4	0	0	0	0	0	0	763
13	0	0	0	0	0	0	0	15	35	48	54	57	59	67	57	46	23	4	0	0	0	0	0	0	465
14	0	0	0	0	0	0	0	15	36	49	56	59	59	56	51	42	21	2	0	0	0	0	0	0	446
15	0	0	0	0	0	0	0	18	65	107	73	70	66	60	53	41	21	4	0	0	0	0	0	0	579
16	0	0	0	0	0	0	0	17	53	150	201	145	117	135	64	56	38	4	0	0	0	0	0	0	980
17	0	0	0	0	0	0	0	24	92	164	153	169	213	221	118	95	41	11	0	0	0	0	0	0	1303
18	0	0	0	0	0	0	0	5	32	51	144	193	248	199	133	73	24	6	0	0	0	0	0	0	1107
19	0	0	0	0	0	0	0	15	40	52	56	58	57	54	52	44	25	4	0	0	0	0	0	0	457
20	0	0	0	0	0	0	0	29	97	166	286	292	314	228	109	114	40	4	0	0	0	0	0	0	1679
21	0	0	0	0	0	0	0	8	35	31	83	109	97	150	92	92	7	0	0	0	0	0	0	0	703
22	0	0	0	0	0	0	0	5	26	47	45	103	125	111	94	48	20	3	0	0	0	0	0	0	627
23	0	0	0	0	0	0	0	21	64	98	141	207	246	266	178	64	32	5	0	0	0	0	0	0	1321
24	0	0	0	0	0	0	0	2	31	130	200	226	232	222	129	127	56	11	0	0	0	0	0	0	1367
25	0	0	0	0	0	0	0	19	63	72	66	74	132	111	75	55	31	7	0	0	0	0	0	0	705
26	0	0	0	0	0	0	0	23	55	140	221	211	284	229	198	105	59	6	0	0	0	0	0	0	1529
27	0	0	0	0	0	0	0	19	40	50	35 ?	68	121	237	150	52	30	8	0	0	0	0	0	0	809
28	0	0	0	0	0	0	0	16	36	46	53	55	57	55	50	43	26	5	0	0	0	0	0	0	442
29	0	0	0	0	0	0	0	16	39	50	51	51	53	51	47	42	26	5	0	0	0	0	0	0	431
30	0	0	0	0	0	0	0	15	35	43	46	49	52	56	48	38	22	3	0	0	0	0	0	0	408
31	0	0	0	0	0	0	0	17	40	53	56	60	63	64	58	50	32	8	0	0	0	0	0	0	500
Avg	0	0	0	0	0	0	0	15	47	76	101	110	118	115	83	62	26	3	0	0	0	0	0	0	757
S D	0	0	0	0	0	0	0	6	22	44	70	67	78	70	44	28	12	3	0	0	0	0	0	0	375
S/A	0	0	0	0	0	0	0	0.41	0.46	0.58	0.69	0.61	0.66	0.61	0.53	0.45	0.46	0.96	0	0	0	0	0	0	0.5
Min	0	0	0	0	0	0	0	2	17	31	35	49	36	47	25	16	6	0	0	0	0	0	0	0	299
Max	0	0	0	0	0	0	0	29	98	170	286	292	314	266	198	127	59	11	0	0	0	0	0	0	1679
n	0	0	0	0	0	0	0	271	370	371	368	372	372	372	370	369	369	66	0	0	0	0	0	0	3670

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.9% exceed the 15% QC threshold -- 3704 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31393F3 Calibration Factor: 7.6820 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 07/2007

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.

January 2012

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	8.5	7.8	6.7	6.5	6.3	5.9	5	5.7	8.1	10.7	13.7	15.4	16.8	17.9	18.3	17.9	17	16.2	15.6	15.2	14.8	14.6	13.6	13.6	12.2
2	14.2	13.8	12.7	10.6	9	7.8	6.6	5.9	6.4	7	7.3	7.7	8.2	8.5	8.6	8.5	7.9	6.1	4.9	4.4	4	3.4	2.8	2.2	7.4
3	1.5	0.9	0.6	-0.1	-0.8	-1.3	-1.8	-2.1	-1.5	-0.2	0.7	1.5	2	2.2	1.3	0.7	0.3	-0.1	-0.3	-0.8	-2	-2.7	-3.2	-3.7	-0.4
4	-4.3	-5.3	-5.9	-6.5	-6.8	-6.7	-7.1	-7.3	-5.4	-3.6	-2.1	-0.9	0.3	1.5	2.4	2.9	2.7	1.6	1.1	1.5	1.2	1.4	2	2.3	-1.7
5	1.9	2.3	2.5	1.8	1.8	1.6	1.2	0.6	1.4	4.1	6.5	8.9	10.4	11.1	11.5	11.3	10.7	9.1	7.8	5.9	5.9	5.5	5	5.1	5.6
6	4.6	4.8	5.2	4.9	4.2	4.4	4.7	5.2	7.3	10	12.1	14.1	15.6	17	18.2	18.5	17.4	15	13.6	12.4	11.8	11	10.6	10.1	10.5
7	9.4	8.9	8.9	8.9	8.4	7.9	7.9	7.8	8.4	10.3	11.5	13.6	15.8	17.2	17.9	18.1	17.6	16.3	15.2	14.2	13.6	13.1	12.6	11.9	12.3
8	11.9	12.1	12	12.3	12	11.6	11.1	10.5	10.2	10.3	10.2	10.5	12.3	12.2	11.8	11.3	10.2	8.8	8	7.5	7.1	7.1	7.5	7.6	10.3
9	7.3	7.3	7.4	7.4	7.2	7.1	6.9	7.2	7.1	7.1	6.9	6.8	6.9	7.1	7.2	6.9	6.9	7.1	7.3	7.4	7.3	7	6.7	6.6	7.1
10	6.6	6.5	6.5	6.2	6.1	6	5.9	5.3	5.5	6.3	7.8	9.3	11.2	12	12.9	13.1	12.4	9.7	8.9	8.4	7.5	6.8	6.3	6.1	8
11	5.5	5.2	5.3	5.7	6.2	6.6	6.9	7.4	7.9	8.4	8.9	10.7	11.8	12.8	13	12.8	13.8	13.7	13.4	13.9	14.1	13.2	14.4	14.6	10.3
12	15.1	15.5	14.8	14.1	12.9	11.5	10.6	10.1	10.5	11.3	12.3	13.6	14.3	14.4	14.9	15.1	14.4	13	12.1	11.3	10.9	10.7	10.5	11.1	12.7
13	12.7	14	14.6	15	14.2	11.7	8.1	6.1	5.6	5.3	5.2	5.5	6	6.4	6.5	6.6	6.3	5.3	4.4	3.9	3.8	3.6	3.9	3.6	7.4
14	2.9	2	1.1	0.2	-0.4	-0.8	-1.3	-1.6	-0.7	1	2.4	3.3	4	4.7	5.2	5.5	5.5	4.3	3.6	3.3	2.3	1.3	1.6	1.8	2.1
15	1.9	2.4	2.9	2.6	1.9	1.7	1.7	1.4	1.3	2.1	2.9	3.3	3.7	4	4.3	4	3.2	1.6	0.6	-0.1	-0.8	-1	-1	-0.9	1.8
16	-0.6	-1	-2	-2.5	-3	-3.4	-2.9	-3.3	-0.7	2.2	3.7	5.3	5.8	6.2	7.2	7.6	7	6.2	6	6.3	5.9	5.9	6.3	6.4	2.9
17	6.5	7.5	8.4	8.8	8.6	9.1	9.7	10	11.2	12.7	14.5	16.4	17.5	18.3	18	17.3	17.3	16.7	16	15.5	15.1	15.2	15.4	16.3	13.4
18	16.2	14.9	13.9	14.1	14.1	14.2	14	13.3	10	7.4	7.4	8.3	8.8	9.6	9.3	8	7.2	5.8	4.8	4.1	3.4	2.8	2.4	2.7	9
19	2.4	2.3	1.9	1.7	1.2	0.9	0.8	0.6	1.7	3.4	5	6.4	6.8	7.8	8.1	8.3	8.1	6.6	5.6	5.2	5.2	5.1	5.3	6.2	4.4
20	6.7	6.3	6.2	6.6	6.2	5.3	4.8	4.8	5.6	7.2	8.6	8.4	9	8.8	8.9	8	7.2	6.6	6.2	6.3	6.7	6.6	7.1	7.8	6.9
21	8.1	8.5	9.3	9	9.3	9.6	10.1	11.4	12.7	13.4	14.2	15	16.3	17.6	17.8	18	15.8	6.9	5.7	5.2	4.6	3.8	3.3	3.2	10.4
22	2.9	2.7	2.3	2.1	2.2	2.6	2.6	2.6	2.9	3.6	4.2	4.8	5.6	5.8	5.9	5.6	5.4	5.1	5	5	5	5	5.1	5.3	4.1
23	5.7	6.2	6.4	6.4	6.2	6.2	6.2	6.3	6.7	7.1	7.6	8.4	9.9	11.3	11.8	12.3	11.6	11.4	13.8	14.6	14.9	15	15.2	16	9.9
24	16.6	16.5	16.5	16.4	15.9	14.6	14.5	14.8	14.8	15.2	16.1	16.1	15.6	15.7	17.2	17.6	17.4	15.7	14.1	13.5	12.6	12.1	11.6	11	15.1
25	10.3	8.4	7.4	6.7	6.1	5	4.2	4.5	6.5	8.6	10.5	11.2	11.4	11.1	11	10.6	10.1	8.7	7.6	6.9	6.6	6.7	6.8	6.3	8.1
26	6.3	6.2	5.5	5.3	5.1	5.2	5.2	6.6	9.3	11.6	14	15.1	15.9	16.8	17.5	17.7	17.7	16.2	15	15	15.9	16.4	17.2	17.2	12.2
27	16.9	17	17	17.4	18.2	18.2	18.2	18.7	18.6	19.1	17.2	14.5	15.1	16.4	17.5	19.4	19.6	18	16.6	15.3	14	12.7	11.7	10.5	16.6
28	8.9	8.4	8.1	7.4	6.8	6.1	5.7	6.1	7.8	9.1	10	11.7	12.7	14	15.1	15.5	15.3	14.1	12.9	11.6	11.1	11.2	11	9.4	10.4
29	8.6	8.1	7.2	6.8	6.9	6.6	5.8	4.9	5.9	7.2	8.2	9.1	9.6	10	10.3	10	9.8	8.6	6.8	5.9	5.3	5.3	5.9	5.8	7.4
30	5.7	5.4	5.3	5.2	4.7	4	2.6	2.4	3.8	6.7	8	8.7	9.6	10.6	11.6	11.9	12.1	10.7	7.6	6.9	6.6	6.6	6.6	6.3	7.1
31	6.2	6.6	7	7.1	7.1	6.9	6.9	7.4	9	11.4	13.3	14.9	16.2	17.2	18	18.1	17.7	15.8	14.4	13.2	12.8	12.1	11.7	11.4	11.8
Avg	7.3	7.2	6.9	6.7	6.4	6	5.6	5.6	6.4	7.6	8.7	9.6	10.5	11.2	11.6	11.6	11.2	9.7	8.8	8.3	8	7.7	7.6	7.5	8.2
S/D	5.2	5.3	5.3	5.5	5.5	5.3	5.4	5.4	5	4.7	4.6	4.6	4.8	5	5.1	5.3	5.3	5.1	5	4.9	5	5	5	5.1	4.4
S/A	0.71	0.73	0.76	0.81	0.86	0.89	0.93	0.97	0.78	0.62	0.53	0.48	0.45	0.44	0.44	0.46	0.47	0.52	0.56	0.59	0.63	0.66	0.66	0.67	0.53
Min	-4.3	-5.3	-5.9	-6.5	-6.8	-6.7	-7.1	-7.3	-5.4	-3.6	-2.1	-0.9	0.3	1.5	1.3	0.7	0.3	-0.1	-0.3	-0.8	-2	-2.7	-3.2	-3.7	-1.7
Max	16.9	17	17	17.4	18.2	18.2	18.2	18.7	18.6	19.1	17.2	16.4	17.5	18.3	18.3	19.4	19.6	18	16.6	15.5	15.9	16.4	17.2	17.2	16.6
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% untested; 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

January 2012

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	90.2	93.7	98.1	99	99.7	101.2	103.5	103.8 ?	102.9	93	76.6	68.8	65.9	60.4	60.7	63.7	68.2	67.4	67.5	68.8	75.7	81.8	89.6	99.6	83.3
2	100.8	92.5	88	76.1	65.3	62.5	67	65.4	60.6	54.5	50.8	45	42	39.3	37.7	37.3	39.6	48	52.3	54.8	51.7	50.4	53.7	58.4	58.1
3	65.5	69.4	70.6	75	76.7	77.1	75.8	74.4	68.9	61.2	54.4	51.1	47.1	46.2	48.6	51.1	53.5	56.2	53	55.9	65.9	54.5	53	56.3	60.9
4	61	66	67.7	69.8	71	70.6	75.5	78.6	68.7	59.4	55.2	53.4	51.4	48.2	46.2	49.5	50	59.2	64.8	64	71.3	71	69.8	65.7	62.8
5	68.3	66.2	63.6	68.4	68.4	67.2	68.5	71.3	68.8	59.7	55.8	52.7	51.1	49.2	47.7	48.3	49.5	55.9	60.7	70.5	68.3	69.9	73.4	73.2	62.4
6	76.4	77.4	81.9	84.1	85.9	82.2	80.6	80	73.4	64.4	58.6	52.9	47.1	42.9	39.2	39.1	44	52.6	58.5	67.1	75.9	81.1	80.1	79.4	66.9
7	81.5	82.9	82.4	81.8	84.4	87.8	86.5	86.4	84.9	76.9	73	65.9	62	60.2	59	58.2	59.9	61.3	66	72.8	75.2	78.1	83.3	89.3	75
8	91.9	92.8	93.7	87.5	81.3	68.6	61.8	59.7	62.2	68	71.7	66.5	58.7	58.2	59.3	60.6	67.8	77.3	79.8	83.5	86	86	85.8	87.4	74.8
9	91.5	92.4	93.3	95.9	98.1	100.5	103	103.5	104.5	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	98.1 ?
10	?	?	?	?	?	?	?	104.8 ?	103.5	102.2	98.7	94.1	82.1	74.6	70.6	71.5	74	87	91	92.3	97.6	102.7	104.5 ?	?	90.7 ?
11	?	?	?	103.6	98.3	98.1	98.3	97.9	95.3	94.4	100.9	99.3	100.7	102.5	104.5 ?	?	?	?	?	?	?	?	104.8 ?	103.4	100.1 ?
12	103.2	104.1	104	99.7	96.1	92.8	97	98.4	98.1	96.7	94.7	90.6	88.4	89.5	85.6	83.9	86.2	92	95.7	99.1	103.2	104	104.6	103.4	96.3
13	99.3	97.3	98.1	84	70.2	61.1	68	75.4	71.6	68.2	54.1	53.5	53.9	53.6	53.8	54.2	56.4	60	65.6	70.1	71.3	73	69.2	70.8	68.9
14	73.8	76.4	76.5	80.8	82.7	82.7	85.1	87.5	83.2	75.6	66.4	62.7	60.4	57.8	56	56.5	56.4	62.9	66.3	67.7	75.8	80	79.3	81.5	72.3
15	84.7	81.1	79.8	82.6	83	83.5	80.7	86.8	86.1	83.1	69.6	59.5	57.5	54.9	52.8	50.7	52.7	67.9	76.1	82.4	86.6	89.5	89	89.5	75.4
16	92.6	95.4	99	99.9	100.9	101.6	100.5	101.6	91.9	82.8	74.3	67.3	62.9	62.2	61.5	61.1	68	75.7	74.8	74.7	82.6	85.9	85	88	82.9
17	93	94.7	95.6	96	97.1	98	99.4	100.4	98.9	96	92.4	86.9	82.7	78.6	79.2	82.5	83.3	84.3	87.4	89.7	92	91.6	90.8	88.4	90.8
18	89.9	100.4	104.5 ?	104.1	103.3	102.7	103.1 ?	?	99.9 ?	100.9	93.6	82.8	67.6	63.9	63.5	65.6	64.8	68.4	73	76.9	79.1	77.9	77.6	70.8	84.1 ?
19	72.7	74.4	74	73	72.9	75.5	78.5	81.2	79.9	81.8	78.3	67.1	60.6	57.3	55.8	57.3	60.3	67.4	72.4	82.9	86.3	90.6	90.1	82.6	73.9
20	84	88	90.3	86.5	91.2	96.7	99.5	101	99	91.9	82	82.3	79	76.7	74.5	79.2	85.3	90.8	93.1	97.6	100.5	103.8 ?	?	?	89.7 ?
21	?	?	?	?	?	?	?	?	?	?	?	104.5 ?	100.5	91.6	92	87.7	89.8	?	?	?	?	?	?	?	94.4 ?
22	?	?	?	?	?	?	?	?	?	?	?	?	?	?	104.8	104.8 ?	?	?	?	?	?	?	?	?	?
23	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
24	104	103.9	104.7	?	?	?	?	?	?	104.3 ?	101.3	99	97	93.6	89.6	87	87.8	95.4	100.9	102.4	104.1	?	?	?	98.3 ?
25	?	?	?	?	?	?	?	?	?	101.5 ?	92.1	85.4	84.3	85.4	83.8	83.3	89.9	97.2	100.8	103.5	104.9 ?	?	?	?	92.7 ?
26	?	?	?	?	?	?	?	?	104.6 ?	103.8	99.3	98.2	95.2	93.2	91.1	88.1	87.8	97.2	100.6	99.7	103	103.7	101.3	102.3	98.1 ?
27	102.4	101.6	103.9	104.7 ?	103.3	103.9 ?	101.4	100.4	102.6	100	99	102.6	102.5	100.4	97.1	82.6	68.2	64.1	66.2	70.4	74	77.3	79.3	83.4	91.3
28	92.6	94.5	90.8	89.3	89.3	92.7	96	96.2	90.1	83.6	83.2	79.6	80	76.4	69.9	65.1	63.8	69.2	74.8	81.8	82.8	79.3	78.1	82.8	82.6
29	81.8	76.7	76.4	66.2	60	57.4	63.3	69	64.1	56.9	51.9	45.5	46.1	44.2	42.9	50.4	52.4	53.1	69	77.9	86	83.6	67.7	65.3	62.8
30	64.7	63.9	60.2	58	59.9	62.9	67.9	69.1	67.3	58.8	53.2	52.2	49.9	41.8	37.2	34.6	35.4	41.9	80.1	90.4	95	94	97.6	99	64
31	99.7	97.3	91.5	88.9	85.7	82.4	78.6	79.3	76.8	62.4	54.5	49.5	43.2	40.8	38.9	38	40.6	49.1	55.1	63.1	70.9	71.1	69.6	68.6	66.5
Avg	86.1	86.8	87	85.6	84.4	83.7	85	86.3	84.9	80.8	75.4	72.1	68.6	67.1	66.8	65.3	65.6	70.6	75.9	80.1	84.1	83.4	82.4	83.1	80.7 ?
S D	13.2	12.8	13.5	13.1	13.8	15.2	14.5	14.1	15.2	17.2	18.2	19.5	19.6	20.6	21.5	19.4	17.9	17.3	15.7	14.7	14.1	14.5	14.5	14.6	14
S/A	0.15	0.15	0.15	0.15	0.16	0.18	0.17	0.16	0.18	0.21	0.24	0.27	0.29	0.31	0.32	0.3	0.27	0.25	0.21	0.18	0.17	0.17	0.18	0.18	0.17
Min	61	63.9	60.2	58	59.9	57.4	61.8	59.7	60.6	54.5	50.8	45	42	39.3	37.2	34.6	35.4	41.9	52.3	54.8	51.7	50.4	53	56.3	58.1
Max	104	104.1	104.7	104.7	103.3	103.9	103.5	104.8	104.6	104.3	101.3	104.5	102.5	102.5	104.8	104.8	102.2	103.5	103.5	104	104.9	105	104.8	105	103.3
n	288	286	280	281	288	285	281	278	299	308	324	329	336	344	352	340	336	324	324	324	313	285	273	278	7340

Data Recovery: 0.0% missing; 0.0% untested; 17.6% 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

January 2012

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	6.6	5.3	4.4	3.7	3.4	3.1	3	5.7	11	15.2	18.3	19.9	21.1	21.4	20.9	19.4	17.5	16.1	15.3	14.9	14.7	14.4	13.4	12.4
2	13.4	13.8	13.5	12	10	8.4	6.8	5.7	6.5	9.1	11.1	12.7	13.4	13.6	12.9	12.1	11.1	8.5	5.2	3.5	3.4	3.3	2.7	2.2	8.9
3	1.7	1.2	0.7	0.2	-0.5	-1.2	-2	-2.7	-1.8	0.9	3.5	5.1	6.2	6.3	5.4	3.4	2	0.9	0.1	-0.6	-1.3	-2.5	-3.5	-4.3	0.7
4	-5	-6.1	-7	-7.7	-8.3	-8.5	-8.7	-8.9	-6.7	-2.1	1.6	3.7	5	6	6.4	6.4	5.9	3.6	0.6	-0.1	-0.2	-0.2	0.3	1.3	-1.2
5	1.7	1.5	1.5	0.9	0.8	1	0.8	0.2	0.5	4.4	8.4	12	14.3	15.4	15.7	15.2	13.8	11.2	7.8	5.5	4.2	3.9	3.6	3.3	6.1
6	3.1	2.9	2.9	3.4	3.2	2.6	2.6	3.1	5.4	9.8	13.8	16.6	18.8	19.8	20.5	20.9	20.5	17.8	14.6	12.6	11.3	10.6	9.8	9.4	10.7
7	8.8	7.9	7.4	7.3	7.3	7	6.8	6.9	7.3	9.8	12.3	14.9	17	19.7	20.7	21.1	20.5	18.3	15.8	14.1	13.2	12.7	12.2	11.5	12.5
8	11.1	11.3	11.8	11.6	12	12	11.5	11.1	10.8	11.5	12.7	12.9	15.1	17.2	16.7	15.7	13.9	11.2	8.9	8	7.3	6.8	6.9	7.4	11.5
9	7.4	7.3	7.4	7.5	7.6	7.4	7.2	6.8	6.8	6.9	7	7.1	7.2	7.3	7.6	7.6	7.4	7.4	7.5	7.6	7.7	7.7	7.5	7.3	7.3
10	7.2	7.1	7	6.9	6.7	6.5	6.4	5.9	5.9	8.4	11.8	14.8	16.7	17.6	17.5	17.4	16.6	13.1	9.6	7.7	6.8	5.9	5.1	4.6	9.7
11	4.3	4	3.7	4	4.5	5.4	6.2	6.8	7.4	8.2	8.6	9.8	11.5	12.9	13.4	13.3	13.8	13.9	13.8	14.2	14.1	13.9	14.2	13.9	9.8
12	14.4	14.9	15.2	14.5	13.6	12.5	11.3	10.4	11.1	13.4	15.4	17.2	18.9	18.6	18.4	18.3	17.8	15.6	12.8	11.2	10.5	10.2	9.9	9.9	14
13	10.8	12.1	13	13.9	14.3	13.5	11.1	8.3	7.6	8.3	8.9	9.3	9.7	9.9	9.7	9.3	8.9	7.2	5.1	3.7	3.1	2.9	3	3.3	8.6
14	3.2	2.7	1.6	0.3	-0.7	-1.4	-1.9	-2.5	-0.9	2.6	5.6	7.7	9.1	9.4	9.4	9	8.5	6.6	3.9	2.8	1.5	-0.4	-1.6	-0.8	3.1
15	0	0.9	1.8	2.1	1.3	0.4	0.7	0.9	0.9	2	4.7	7	8.2	8.8	8.6	8.1	7.2	4.7	1.4	-0.6	-2.3	-3.6	-4	-3.8	2.3
16	-3.6	-3.3	-3.6	-4.6	-5.2	-5.6	-5.7	-5.4	-3	2.8	6.1	9.4	11.3	11.4	11	11.2	9.9	8	6.4	5.9	5.8	5.5	5.6	6	3.2
17	6.2	6.7	7.4	8.2	8.7	8.9	9.1	9.4	10.1	12	15	17.5	19.6	20.4	20.2	19.1	18.7	18.1	16.7	15.8	15.1	14.7	14.7	15.3	13.6
18	15.9	15.8	14.6	14.1	14	14.1	14.3	13.9	13	9.9	8.2	8.6	9.9	11.7	12.4	12	11	8.8	5.9	4.2	3.2	2.3	1.7	1.7	10.1
19	2	2	1.8	1.6	1.1	0.5	0.2	-0.3	0.9	4.6	8.2	12	14.3	14.1	13.8	12.8	11.9	9.4	5.8	4.4	4.2	4.3	4.5	5.1	5.8
20	5.6	5.6	5.2	5.4	5.5	5.2	4.6	4.2	4.6	7.1	10.4	11.8	12.7	13.5	13.7	12.7	10.5	8.4	7.2	6.8	6.7	6.6	6.6	6.9	7.8
21	7.4	7.8	8.3	8.8	9.1	9.5	9.8	10.3	11.3	12.3	13.1	14.2	15.2	16.5	18.1	18.5	18.7	14.5	9.3	7	5.9	5	4.3	3.7	10.8
22	3.4	3.2	3	2.8	2.6	2.7	2.8	2.9	3	3.4	4.1	4.8	5.7	6.5	6.8	7	6.7	6.3	5.9	5.7	5.6	5.6	5.6	5.6	4.7
23	5.7	6.1	6.5	6.7	6.8	6.7	6.7	6.7	7.1	7.8	8.6	9.9	11.8	13.2	14.6	14.7	14.1	13	12.6	13.5	14.3	14.7	14.8	15.3	10.5
24	15.9	16.4	16.6	16.6	16.6	16	15.3	15.1	15.1	15.3	16.7	18.1	18.3	18.7	20.2	21.4	21.1	19.1	15.9	13.9	12.3	11.5	11.2	10.7	16.2
25	10	9	7.4	6.3	5.5	4.7	4.1	3.7	5.3	8.8	12.3	14.9	16.3	16.7	16.3	15.7	14.9	12.5	9	6.8	5.8	5.5	5.5	5.4	9.3
26	5.1	4.7	4.3	4	4	4.1	4.1	4.6	7.6	12.2	15.1	17.3	18.3	19.3	20	20.1	20	18.8	16.5	15.2	15.3	15.8	16.4	17	12.5
27	17.2	17	16.8	16.9	17.3	17.8	17.7	17.8	18.3	18.6	18.8	18.6	15.3	15.9	17.7	19.6	21.1	20.4	17.8	15.7	14.1	12.6	11.3	10	16.8
28	8.2	6.4	5.9	5.8	5.3	4.8	4.1	4	6.6	10.8	13.8	15.9	17.6	18.3	18.7	18.8	18.5	16.9	13.6	11.1	9.7	9.2	9.2	9	10.9
29	8	7.1	6	5.5	5.9	6.3	5.9	4.5	5.8	9.1	12.1	15.1	17.2	17.1	16.3	15.3	14.2	12.1	8.1	5.4	3.9	3	3	3.5	8.8
30	3.7	3.7	3.7	3.7	3.5	3	2	0.9	3.4	8.4	12.5	15.5	16	15.9	15.8	16	15.9	14.2	9.8	7.2	5.9	5.1	5	4.9	8.2
31	4.6	4.5	4.8	5.2	5.4	5.5	5.5	5.7	8	11.6	15.1	17.5	19.3	20.4	20.9	21	20.7	19	15.6	13.5	12.4	11.8	11.2	10.8	12.1
Avg	6.6	6.5	6.3	6.1	5.9	5.6	5.2	4.9	5.9	8.3	10.7	12.5	13.9	14.6	14.9	14.7	14	12.1	9.7	8.3	7.6	7.1	6.8	6.8	9
S D	5.4	5.5	5.6	5.7	5.9	5.9	5.8	5.8	5.3	4.4	4.3	4.5	4.6	4.8	5.1	5.3	5.2	5.1	5	5.1	5.3	5.4	5.4	5.4	4.3
S/A	0.81	0.85	0.89	0.94	1	1.06	1.11	1.17	0.9	0.53	0.4	0.35	0.32	0.31	0.32	0.35	0.38	0.43	0.53	0.61	0.68	0.75	0.8	0.79	0.48
Min	-5	-6.1	-7	-7.7	-8.3	-8.5	-8.7	-8.9	-6.7	-2.1	1.6	3.7	5	6	5.4	3.4	2	0.9	0.1	-0.6	-2.3	-3.6	-4	-4.3	-1.2
Max	17.2	17	16.8	16.9	17.3	17.8	17.7	17.8	18.3	18.6	18.8	18.3	19.9	21.1	21.4	21.4	21.1	20.4	17.8	15.8	15.3	15.8	16.4	17	16.8
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 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

January 2012

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	0.3	0	0.1	0	0	0	0.1	0.2	0.6	1.8	3.2	3.7	4.1	5.2	4.9	4.4	3.6	3.9	4.4	5.2	4.8	4	1.5	2.6	2.4
2	3.1	3.3	3.2	3.2	3.4	2.9	2.6	2.9	2.6	4	3.7	3.5	3.3	3.3	3.6	3.6	2.5	1.6	1.3	2.4	2.6	2	1.9	2.1	2.9
3	2.4	2.6	2.9	3.3	4	3.3	4.1	3	4	4.4	5.4	5.3	5.6	4.9	4.7	4.7	3.8	3.5	3	4.1	5	3.7	3.3	3	3.9
4	1.7	1.6	1.6	1.4	1.2	1.1	0.8	1.1	1.4	1.8	3.5	3.4	3.3	2.7	3.1	3	1.9	0.6	1.8	2.3	1.9	3.2	3.4	2.5	2.1
5	2	1.7	1.6	1.3	1.2	1.2	1.3	0.7	1.5	2.6	2.6	3	2.9	2.6	2.6	2	0.7	0.1	0.8	1.3	1.3	1.4	1.2	1.7	1.7
6	1.4	1.4	2.5	2.1	1	1.2	2.3	2.3	2.8	2.7	3.5	3.7	4.2	4.3	4	3.8	3.2	2.7	2.3	2.3	3	2.6	2.7	2.8	2.7
7	1.9	1.8	2.5	2.7	2.8	2.7	2.3	2.2	2.3	2.8	2.7	3.1	3	3.1	3.1	3	1.9	1.9	1.3	1.8	2.1	2.5	1.9	0.9	2.4
8	1.3	1.4	1.1	1.8	1.9	2.7	3.1	2.9	3	3.5	3.8	2.8	2.4	2.7	2.6	1.8	2	0.9	1.1	1.3	1.1	1.2	0.8	0.1	2
9	0.2	0.1	0.3	0.2	0.8	0.2	0.8	0.3	0.3	1	1.8	1.1	0.9	1.2	1.1	1.4	0.6	0.9	0.1	0.3	0.6	0.8	1	1.5	0.7
10	1.2	1.9	2	2	2.3	1.8	1.1	1.2	0.8	1.4	1.4	1.6	1.5	2.2	1.8	1.8	1.7	1.3	0.7	1.1	1.2	0.5	0.1	0.1	1.4
11	0	0.2	0.6	0.5	1.2	0.9	1.3	1.2	1.1	1.4	2	2.2	2.9	2.4	2.2	2.5	4.4	4.5	3.4	2.1	1.8	2.1	3	4.9	2
12	4	3.7	3.4	4	4.5	4.5	3.9	3.2	3.6	3.9	3.9	3.3	4.6	4.8	4.6	3.9	3.5	2.1	1.8	2.3	3.4	3.1	3.3	3.8	3.6
13	4.6	5.4	5.3	6.5	7.2	9.1	7.5	6.2	6.3	7	8	7.4	6.8	6.7	7	5.8	4.2	3.3	2.3	1.8	1.9	1.9	3.3	3.3	5.4
14	3.1	2.1	2.3	2.6	3.4	2.4	2.2	1.6	2.3	3	3.7	3.4	3.8	3.3	3.6	3.3	2.6	1.6	1.5	0.7	0.1	0	0.9	0.9	2.3
15	1.2	1.9	1.7	0.6	0.4	0.2	1.4	2.9	3.6	4.8	5	5	4.1	4	3.9	3.8	3.8	2.5	1.4	0.6	0.1	0.4	0.7	0.8	2.3
16	1	0.5	0	0	0.1	0.1	0.4	0.1	0	0.1	1.4	2.7	2.8	2.8	2.9	2.9	1.9	1.8	1.9	2.1	1.9	2.4	2.2	2.3	1.4
17	2.6	3.5	3.6	3.5	2.8	3.4	4.5	4.4	3.7	4.1	4.2	5.4	6.1	6.9	6.2	6.1	6.3	5.7	5.1	4.1	3.6	3.7	4.2	4.6	4.5
18	5.4	6.6	5	4.2	4.1	3.7	3.2	3.3	3.9	2.8	2.7	3.4	4.4	3.6	4	4.6	4.6	3.5	3.1	3.2	2.7	3.1	3	3.9	3.8
19	3.3	2.8	2.6	2.3	1.6	1.9	2.6	1.8	1.6	2.2	1.2	0.6	1.9	1.2	2.5	2.7	1.7	0.8	1.1	1.9	1.2	1.1	2.6	3.5	1.9
20	3.2	2.8	2.2	2.2	2.6	2.5	2	1.4	1.5	1.2	2.6	2.7	2.5	3.3	3.2	3.3	2.7	1.7	1.7	1.8	0.9	1.1	1.7	2.2	2.2
21	1.8	2	1.7	0.9	1.2	0.8	1.6	3.2	4.9	5	4.8	4.2	3	3.9	3	2.9	3.4	4.1	3.1	3.3	4.4	4.6	4.3	4.7	3.2
22	4	4.1	4.3	3.8	4	3.4	3.4	3.6	3.2	3.1	3.2	3.3	3.8	4.3	3.6	3.4	3.4	3	3.2	2.7	2.7	2.3	2.3	2.6	3.4
23	2.6	2.2	1.1	0.6	0.6	0.7	0.5	0.3	0.5	1.1	0.5	0.6	1.6	2	1.8	1.3	1.2	1.5	1.9	2.5	2.9	3.2	2.7	2.9	1.5
24	3.5	3.3	3	3.4	1.9	1.9	1.7	1.6	1.7	2.4	3.9	4.2	2.8	2.5	2.4	2.4	1.7	1.4	1.3	0.6	0.4	1.1	1	0.6	2.1
25	0.1	0	0	0	0	0	0.2	1.4	1.9	2.7	4	3.9	3.7	3.6	3.2	2.4	1.8	1.7	1.2	1.2	1.5	1.2	1	0.5	1.6
26	0.1	0	0	0	0	0	0.2	0.5	0.2	1.8	1.3	1.3	1.9	1.9	1.9	1.1	1.8	0.8	0.8	1.6	2.7	2.6	3.3	3.1	1.2
27	3.2	4	5.1	4.7	5.4	5.7	5	5.7	5	5.9	6.1	4.3	3.9	3.8	3.8	5.4	5.3	3.9	2.9	2	2.2	2.1	1.8	0.7	4.1
28	0.1	0.7	1.6	1.3	1.5	1	1.3	1.4	1.6	2.4	3	2.9	3.2	3.4	3.3	3.6	2.8	1.3	0.8	1	1.1	1.3	2.4	2.1	1.9
29	2	1.5	1.4	1.9	2.5	2.1	1.4	0.8	1.6	2.7	1.8	1.2	1.5	1.7	2.1	2.8	2.1	1.6	1.5	1.2	1.2	1.5	2.1	2.3	1.8
30	2.3	2.4	2.6	2.6	2.1	1.9	0.8	0.7	0.6	1.2	0.9	2.4	2.5	3	2.3	1.8	1	0.3	2	1.5	1.1	1.6	1.6	1.3	1.7
31	1.9	2.4	2.5	2.5	2.9	2.8	2.2	2	3.1	3.9	4.4	4.5	4.5	4.4	4.4	4.4	3.5	2.6	2.3	3.2	4.3	2.9	3.4	2.8	3.3
Avg	2.1	2.2	2.2	2.1	2.2	2.1	2.1	2.1	2.3	2.9	3.2	3.2	3.3	3.4	3.3	3.2	2.8	2.2	2	2	2.1	2.1	2.2	2.3	2.5
SD	1.4	1.6	1.5	1.6	1.7	1.9	1.6	1.5	1.6	1.5	1.6	1.5	1.4	1.4	1.3	1.3	1.3	1.3	1.2	1.1	1.3	1.1	1.1	1.4	1.1
S/A	0.67	0.72	0.68	0.74	0.77	0.9	0.78	0.75	0.68	0.54	0.51	0.46	0.41	0.4	0.38	0.39	0.46	0.61	0.59	0.56	0.63	0.54	0.49	0.59	0.43
Min	0	0	0	0	0	0	0.1	0.1	0	0.1	0.5	0.6	0.9	1.2	1.1	1.1	0.6	0.3	0.1	0.3	0.1	0	0.1	0.1	0.7
Max	5.4	6.6	5.3	6.5	7.2	9.1	7.5	6.2	6.3	7	8	7.4	6.8	6.9	7	6.1	6.3	5.7	5.1	5.2	5	4.6	4.3	4.9	5.4
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% untested; 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

January 2012

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	301	337	211	0	0	233	181	209	207	205	223	237	232	241	238	240	235	234	236	246	249	275	296	288	243
2	320	333	334	344	342	337	330	331	349	346	348	349	356	329	326	325	330	335	349	1	1	0	358	353	341
3	348	352	1	357	353	353	354	352	353	2	12	1	4	349	358	2	8	16	12	26	25	22	9	6	4
4	354	341	340	331	333	341	314	317	320	325	317	312	315	300	258	257	257	225	240	246	250	249	251	263	289
5	253	257	264	268	269	291	291	280	308	326	337	356	357	349	357	338	344	355	313	255	262	261	261	269	312
6	252	245	249	253	244	249	248	246	251	258	264	269	257	280	263	259	246	242	239	241	245	245	249	251	254
7	247	245	247	250	250	253	256	253	258	282	281	287	281	261	266	270	271	253	242	235	243	244	247	268	259
8	288	303	13	51	81	87	68	74	82	86	88	94	98	112	109	111	105	105	112	121	104	109	118	110	89
9	94	121	106	84	87	63	96	62	103	125	119	113	111	117	105	86	80	43	89	9	357	343	333	324	81
10	336	334	339	350	351	358	357	350	333	316	330	310	320	321	322	310	272	231	225	213	224	233	221	221	319
11	0	171	173	169	177	174	164	147	143	127	129	125	132	136	138	147	174	164	161	175	176	174	190	198	161
12	219	236	267	287	287	288	288	279	279	274	273	255	240	246	243	254	247	242	243	236	238	238	236	235	256
13	235	241	249	275	281	300	304	307	297	299	307	309	309	315	315	312	308	295	284	274	279	286	294	314	295
14	327	328	335	324	325	333	324	317	316	333	341	333	328	318	304	301	313	316	315	289	236	261	267	275	321
15	275	286	319	351	327	338	24	54	63	52	41	45	42	37	36	35	48	64	71	68	91	88	106	114	42
16	117	83	37	68	33	12	62	346	356	330	162	214	205	200	229	236	228	215	232	232	221	224	246	242	220
17	240	245	250	251	247	246	248	250	259	255	267	265	273	278	271	250	248	250	249	252	252	250	251	259	256
18	259	249	261	279	290	300	305	320	47	84	89	69	68	70	82	77	80	88	76	80	83	91	84	74	53
19	86	53	48	37	29	27	40	35	31	56	58	18	297	291	287	261	271	271	227	210	208	227	220	237	354
20	245	254	258	262	280	290	284	277	288	339	40	68	90	105	114	113	117	114	104	115	120	121	125	130	128
21	135	178	191	195	197	197	221	240	247	248	247	248	253	253	265	261	19	61	62	60	53	52	50	49	265
22	50	55	49	49	45	45	57	50	54	43	37	44	51	52	54	41	46	38	40	39	34	28	37	46	46
23	64	63	28	352	5	5	21	68	322	314	304	243	217	222	230	210	183	179	225	230	234	244	243	240	236
24	244	249	246	248	288	330	303	291	287	305	314	318	328	322	309	294	267	248	285	319	317	304	298	305	290
25	74	64	27	32	0	67	85	86	88	92	94	93	90	95	112	119	127	134	107	113	122	138	129	125	104
26	159	161	25	205	0	0	161	176	206	192	201	224	224	233	226	225	219	172	187	203	220	224	226	231	217
27	236	234	237	236	234	240	233	239	239	242	275	283	259	271	279	314	329	331	331	341	339	349	351	333	268
28	297	91	102	117	95	99	101	113	114	153	177	218	232	251	283	302	303	304	292	254	271	298	339	349	254
29	357	6	24	17	30	31	49	24	47	68	70	64	274	280	259	235	235	241	228	242	233	247	253	256	314
30	255	275	300	311	319	343	344	339	325	37	25	344	321	329	337	348	335	171	158	170	177	202	199	215	307
31	227	237	242	247	247	252	262	270	286	277	257	264	259	267	259	258	252	242	247	233	248	251	251	254	255
Avg	267	271	282	293	301	307	306	302	310	314	318	312	299	293	287	287	285	258	246	240	254	259	261	267	291
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% untested; 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

January 2012

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	0.8	0.2	0.3	0	0	0	0.3	0.5	1.2	3	5.3	5.7	7.1	8.2	8.1	7.3	6	6.5	7.3	8	7.6	6.5	3	4.6	4.1
2	5.7	6.3	6.2	6.4	6.8	5.5	4.8	5.6	5.7	7.8	7.3	6.9	6.8	6.6	6.9	6.4	4.7	3.1	2.9	5.3	5.7	4.8	4.1	4.9	5.7
3	4.9	5.7	6.2	6.9	7.6	7.2	7.9	6.7	8	9	10.4	11.1	11.1	10.7	9.4	9.6	7.9	6.9	6.6	7.9	9.4	7.4	7.1	6.3	8
4	3.8	3	3	2.4	2.2	2.2	1.4	1.8	2.6	3.6	6.1	6.2	5.8	4.8	5.4	5.3	3.4	1.2	3	3.3	2.9	4.6	5.4	4.7	3.7
5	3.4	3.1	3.1	2.6	2.4	2.1	2.4	1.2	2.5	4.9	4.4	6.1	6.4	5.6	5.2	4.9	4.1	1.6	0.4	1.3	1.8	1.9	2	1.9	3.1
6	2.2	2	3.4	3.1	1.7	1.9	3.3	3.7	4.4	4.9	6.4	6.7	7	7.3	6.9	6.6	4.9	4.2	3.8	3.8	5	4	4	4.2	4.4
7	3.1	2.8	3.7	4.1	4.2	4.1	3.7	3.7	3.8	5.2	4.7	5.4	5.2	5.2	5.3	5.4	3.6	2.9	2.3	2.8	3.3	3.7	2.7	1.6	3.9
8	2.3	2.2	2	3.5	3.4	5.2	5.5	5.3	5.6	6.3	6.8	4.8	4.3	4.5	4.4	3.3	3.4	2.1	2	2.5	2.1	2.3	1.8	0.7	3.6
9	0.7	0.7	0.9	0.9	1.7	0.7	1.8	1.1	1.4	2.3	3.4	2.5	2.1	2.6	2.4	2.7	1.7	2	0.4	1.4	2.2	2.4	2.5	3	1.8
10	3.2	4	4.4	4.7	5.3	4.2	3	2.7	2	2.8	3.1	3.2	3.2	4	3.9	3.4	2.9	2.2	1.4	1.7	2.1	1.1	0.6	0.6	2.9
11	0	0.6	1	1	1.9	1.7	2	2	2.1	2.3	3.4	3.7	4.5	4	4	4.5	7.3	7.2	5.4	4	3.5	3.9	5.3	7.8	3.5
12	6.4	6.1	6.4	6.6	7.9	7.6	6.8	5.5	6.8	7.4	6.8	5.7	7.4	7.8	7.7	6.6	5.5	3.6	3.2	3.8	5.7	5.3	5.5	6.2	6.2
13	7.7	8.7	8.8	11.8	13	15.6	13.1	10.5	11	11.7	13.4	12.4	11.3	11.6	11.4	10.1	7.1	5.6	4	3.4	3.7	3.6	5.4	5.8	9.2
14	5.2	4.2	4.7	4.5	5.6	4.6	3.8	3	4.1	5.6	7.3	6.5	7.1	5.9	6.3	5.7	4.8	2.7	2.5	1.4	0.4	0.1	1.5	1.7	4.1
15	2.3	3.4	3.1	1.4	0.9	0.9	3	5	6.4	8.3	8.7	8.2	7.4	7.6	7.4	7.3	6.4	4.5	3.1	1.7	0.4	0.9	1.6	1.6	4.2
16	1.9	1	0.3	0.2	0.2	0.3	0.8	0.3	0.1	0.5	2.5	4.3	4.6	4.4	4.7	4.6	3.3	2.9	3	3.4	3.2	4.3	3.7	3.8	2.4
17	4	5.4	5.7	5.4	4.5	5.4	6.9	6.7	6.5	7.1	7.5	10	11.3	12.5	11.4	10	9.6	9	7.9	7	5.9	6.1	6.7	8	7.5
18	9.4	10.9	8.9	7.8	6.8	6.4	5.4	5.8	7.3	5.4	5	6.3	7.8	6.5	7.3	8.1	7.9	6	5.6	5.9	5.1	5.3	5.5	7	6.8
19	5.8	4.8	4.6	4.5	3.7	4.2	4.7	3.9	4	4.5	3	2	3.7	3	4.8	4.6	3.3	1.6	1.8	3.4	2.3	2.1	4.3	5.9	3.8
20	5.1	4.4	4.1	4.7	4.7	4.2	3.5	2.7	3.1	3	5.1	5	4.7	5.7	5.4	5.8	5.1	3.5	3.4	3.8	2.4	2.3	3.6	3.9	4.1
21	3.3	4	3.4	2.2	2.6	1.7	3.1	5	7.6	7.9	7.4	7	5.6	6.9	6	5	5.8	7.1	5.6	5.9	7.2	7.7	7.4	8.3	5.6
22	7	7.2	7.3	6.7	7	6.8	6.1	6.8	6.1	5.8	5.9	6	6.8	7.4	6.9	6.4	5.9	5.2	5.9	5.2	5	4.5	4	4.6	6.1
23	4.9	4.2	3	2.1	1.9	2.2	1.8	1.1	1.6	2.1	1.4	1.6	2.9	3.3	3.1	2.5	2.3	2.4	3.3	4.3	5	5.2	4.7	5	3
24	5.6	5.6	4.8	5.6	3.8	3.7	3.2	3.2	3.2	4.2	6.9	6.8	5.4	4.6	4.3	3.8	2.7	2.3	2.3	1.1	0.8	1.8	1.7	1.1	3.7
25	0.3	0.2	0	0	0	0.2	0.7	2.4	3.6	5	6.5	6.3	6.3	6.1	5.2	4.2	3	2.9	2.1	2	2.4	2.1	1.8	1.1	2.7
26	0.4	0.1	0.2	0	0	0	0.3	1	0.5	2.8	2.6	2.4	3	3.4	3.2	2.2	2.7	1.5	1.5	2.6	4.2	4.1	5.5	5.1	2
27	5.2	6.5	7.9	7.6	8.8	9.3	8.6	9.5	7.9	9.4	10.3	7.7	7	7.3	6.6	9.6	9.3	7.3	5.1	4	4.2	3.9	3.6	1.4	7
28	0.5	1.3	2.6	2.3	2.3	1.6	2	2.4	2.9	3.8	4.6	4.8	5.2	5.7	5.7	5.9	4.7	2.1	1.2	1.6	1.7	2.1	4.4	3.8	3.1
29	4	3	2.8	3.8	4.7	3.7	2.6	1.8	3.1	4.7	3.4	2.5	3.3	3.4	3.9	4.2	3.6	2.6	2.3	1.9	1.8	2.2	3.2	3.5	3.2
30	3.7	4.1	4.5	4.4	3.4	3.7	1.9	1.4	1.4	2.8	2.2	4.9	5.1	6.1	4.8	3.9	2.2	0.8	3.5	2.5	1.7	2.5	2.7	2.3	3.2
31	3	4.1	4.1	3.9	4.4	4.2	4	4	5.5	7	7.5	8.1	7.7	8.1	7.8	7.7	5.8	4.3	4	5.1	6.5	4.7	5.2	4.5	5.5
Avg	3.7	3.9	3.9	3.9	4	3.9	3.8	3.8	4.3	5.2	5.8	5.8	6	6.2	6	5.7	4.9	3.8	3.4	3.6	3.7	3.7	3.9	4	4.5
SD	2.3	2.6	2.5	2.7	3	3.2	2.8	2.6	2.6	2.5	2.7	2.5	2.3	2.4	2.2	2.2	2.1	2.2	1.9	1.9	2.2	1.9	1.8	2.2	1.8
S/A	0.62	0.66	0.63	0.7	0.75	0.83	0.72	0.68	0.61	0.49	0.46	0.43	0.39	0.39	0.36	0.38	0.43	0.57	0.56	0.53	0.6	0.52	0.45	0.55	0.41
Min	0	0.1	0	0	0	0	0.3	0.3	0.1	0.5	1.4	1.6	2.1	2.6	2.4	2.2	1.7	0.8	0.4	1.1	0.4	0.1	0.6	0.6	1.8
Max	9.4	10.9	8.9	11.8	13	15.6	13.1	10.5	11	11.7	13.4	12.4	11.3	12.5	11.4	10.1	9.6	9	7.9	8	9.4	7.7	7.4	8.3	9.2
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% untested; 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

January 2012

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	1018	1018	1019	1019	1019	1019	1019	1020	1020	1020	1019	1018	1015	1014	1012	1012	1011	1011	1010	1010	1010	1010	1010	1009	1015
2	1009	1009	1009	1010	1010	1011	1011	1012	1013	1014	1013	1012	1011	1010	1010	1010	1010	1011	1012	1012	1012	1013	1012	1011	1011
3	1011	1011	1011	1011	1011	1012	1012	1013	1014	1015	1014	1013	1013	1013	1014	1015	1016	1017	1019	1020	1021	1022	1022	1023	1015
4	1023	1023	1024	1024	1024	1025	1025	1026	1027	1027	1026	1024	1023	1022	1021	1020	1019	1019	1019	1019	1019	1018	1017	1016	1022
5	1015	1015	1014	1014	1014	1013	1013	1014	1015	1016	1015	1014	1013	1013	1013	1013	1014	1015	1015	1016	1016	1016	1016	1016	1015
6	1016	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1015	1014	1013	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1014
7	1012	1012	1012	1011	1011	1011	1012	1012	1012	1013	1013	1012	1012	1011	1011	1011	1012	1012	1013	1013	1013	1014	1014	1014	1012
8	1015	1015	1016	1016	1017	1018	1019	1020	1021	1022	1022	1022	1022	1021	1021	1022	1022	1023	1023	1023	1023	1023	1023	1023	1020
9	1023	1022	1022	1022	1022	1022	1022	1022	1022	1023	1022	1021	1020	1019	1018	1018	1017	1017	1017	1016	1016	1016	1015	1015	1020
10	1014	1014	1015	1015	1015	1015	1016	1016	1016	1017	1017	1016	1015	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015	1015
11	1015	1015	1015	1014	1014	1014	1014	1013	1013	1014	1013	1012	1010	1009	1008	1007	1006	1005	1004	1003	1002	1001	999	998	1009
12	997	997	998	998	998	999	1000	1000	1001	1001	1002	1001	1000	1000	999	1000	1000	1000	1001	1001	1001	1001	1001	1000	1000
13	998	998	997	997	997	999	1002	1004	1005	1006	1007	1007	1007	1007	1008	1009	1010	1011	1012	1013	1013	1014	1013	1014	1006
14	1014	1014	1015	1015	1016	1017	1017	1018	1019	1019	1019	1019	1017	1017	1016	1016	1016	1017	1018	1018	1019	1019	1019	1019	1017
15	1019	1019	1019	1019	1019	1019	1020	1022	1023	1025	1026	1026	1026	1026	1027	1028	1029	1030	1031	1032	1032	1033	1033	1033	1026
16	1033	1033	1033	1033	1033	1033	1033	1034	1035	1035	1034	1034	1032	1031	1030	1030	1030	1029	1029	1028	1028	1027	1026	1026	1031
17	1025	1024	1023	1023	1022	1021	1021	1020	1020	1020	1019	1018	1016	1015	1014	1013	1012	1012	1011	1011	1011	1011	1010	1010	1017
18	1009	1008	1008	1008	1008	1008	1009	1010	1012	1013	1014	1014	1013	1013	1014	1015	1016	1016	1017	1017	1017	1017	1017	1017	1013
19	1017	1017	1017	1018	1018	1018	1019	1019	1021	1021	1021	1020	1019	1018	1017	1017	1018	1018	1018	1017	1017	1017	1016	1016	1018
20	1016	1016	1017	1016	1016	1017	1017	1018	1019	1020	1020	1020	1020	1020	1020	1020	1021	1022	1022	1021	1021	1021	1020	1019	1019
21	1018	1017	1017	1016	1014	1013	1013	1013	1012	1012	1011	1010	1010	1009	1009	1009	1011	1012	1014	1015	1017	1017	1018	1019	1014
22	1020	1021	1021	1021	1022	1022	1022	1023	1024	1025	1025	1025	1025	1024	1024	1024	1025	1025	1025	1025	1025	1024	1023	1023	1023
23	1023	1022	1023	1022	1021	1021	1020	1020	1020	1021	1020	1020	1018	1017	1017	1016	1016	1015	1015	1015	1015	1015	1015	1015	1018
24	1014	1015	1015	1015	1015	1015	1016	1016	1016	1017	1017	1017	1016	1016	1016	1016	1016	1017	1018	1018	1019	1019	1020	1020	1017
25	1020	1020	1021	1021	1021	1022	1023	1024	1024	1025	1026	1025	1025	1024	1023	1023	1023	1022	1022	1022	1022	1022	1022	1021	1023
26	1020	1020	1020	1020	1019	1019	1019	1019	1019	1019	1018	1017	1016	1015	1014	1013	1013	1013	1012	1012	1011	1010	1009	1009	1016
27	1008	1007	1006	1005	1004	1003	1003	1003	1002	1001	1001	1001	1000	1000	1000	1001	1003	1005	1007	1009	1010	1011	1013	1013	1005
28	1014	1014	1015	1015	1016	1016	1017	1017	1017	1018	1018	1017	1016	1015	1014	1014	1014	1015	1016	1017	1017	1018	1018	1019	1016
29	1019	1020	1020	1021	1022	1023	1023	1023	1024	1024	1025	1025	1024	1023	1022	1022	1021	1021	1022	1022	1022	1022	1022	1022	1022
30	1021	1021	1022	1022	1023	1024	1025	1026	1027	1027	1028	1028	1027	1026	1026	1026	1026	1026	1027	1027	1027	1027	1027	1027	1025
31	1027	1026	1026	1025	1025	1025	1026	1026	1026	1026	1026	1026	1024	1023	1023	1022	1022	1022	1023	1022	1023	1023	1023	1022	1024
Avg	1016	1016	1016	1016	1016	1017	1017	1017	1018	1018	1018	1017	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1017
S D	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	997	997	997	997	997	999	1000	1000	1001	1001	1001	1001	1000	1000	999	1000	1000	1000	1001	1001	1001	1001	999	998	1000
Max	1033	1033	1033	1033	1033	1033	1033	1034	1035	1035	1034	1034	1032	1031	1030	1030	1030	1030	1031	1032	1032	1033	1033	1033	1031
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% untested; 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

January 2012

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.3	13.8	13.6	13.5	13.4	13.4	13.4	13.4	13.1	12.9	12.9	12.8	12.8	12.8	12.8	12.8	12.8	13
2	12.8	12.8	12.7	12.7	12.7	12.7	12.6	13.3	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.6	12.9	12.8	12.8	12.8	12.8	12.7	12.7	13.1
3	12.7	12.7	12.7	12.6	12.6	12.6	12.5	13.1	14	13.9	13.9	13.8	13.8	13.8	13.8	13.4	13	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13.1
4	12.6	12.6	12.5	12.4	12.4	12.4	12.4	13.4	14.1	14	13.9	13.8	13.8	13.8	13.8	13.8	13.6	12.9	12.8	12.8	12.8	12.8	12.8	12.8	13.1
5	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13.9	13.8	13.7	13.6	13.5	13.5	13.5	13.6	13.5	12.9	12.9	12.8	12.8	12.8	12.8	12.7	13.1
6	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13.2	13.8	13.6	13.5	13.5	13.4	13.4	13.4	13.3	12.9	12.9	12.8	12.8	12.8	12.8	12.8	13.1
7	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13.5	13.7	13.6	13.5	13.5	13.4	13.4	13.4	13.3	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13
8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13.3	13.6	13.6	13.6	13.5	13.5	13.5	13.5	13.2	12.9	12.8	12.8	12.8	12.8	12.8	12.8	13
9	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.8	12.6	12.8	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
10	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13.8	13.7	13.6	13.5	13.4	13.4	13.4	13.4	13.3	12.9	12.8	12.8	12.8	12.8	12.7	12.7	13
11	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.1	13.4	13.5	13.2	13	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8
12	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13	13.6	13.5	13.5	13.4	13.4	13.4	13.4	13.4	13.4	12.9	12.9	12.8	12.8	12.8	12.8	12.8	13
13	12.8	12.8	12.8	12.8	12.8	12.7	12.7	13.2	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.7	12.9	12.8	12.8	12.8	12.8	12.8	12.8	13.1
14	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13.4	14	13.9	13.8	13.7	13.7	13.7	13.7	13.7	13.7	13	12.9	12.8	12.8	12.8	12.7	12.7	13.1
15	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13.3	13.9	13.8	13.8	13.8	13.7	13.7	13.8	13.8	13	12.8	12.8	12.8	12.8	12.7	12.7	13.1
16	12.7	12.7	12.7	12.6	12.6	12.5	12.5	13.3	14	13.9	13.8	13.7	13.6	13.7	13.7	13.6	13.1	12.9	12.9	12.8	12.8	12.8	12.8	12.8	13.1
17	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.2	13.6	13.5	13.4	13.4	13.4	13.2	13.3	13.4	13	12.9	12.9	12.8	12.8	12.8	12.8	13
18	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.3	13.7	13.7	13.6	13.6	13.6	13.7	13	12.9	12.8	12.8	12.8	12.7	12.7	13
19	12.7	12.7	12.7	12.6	12.6	12.6	12.5	13	13.9	13.8	13.7	13.6	13.5	13.5	13.6	13.6	13.6	13	12.9	12.8	12.8	12.8	12.8	12.8	13.1
20	12.8	12.8	12.7	12.7	12.7	12.7	12.6	12.8	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.2	12.9	12.9	12.8	12.8	12.8	12.8	12.8	13.1
21	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.1	13.1	13.3	13.2	13.1	12.9	12.8	12.7	12.7	12.6	12.6	12.6	12.6	12.8
22	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.9	13.3	13.5	13.6	13.6	13.4	13	12.9	12.8	12.8	12.8	12.8	12.8	12.7	12.8
23	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.9	13.3	13.5	13.6	13.6	13.6	13.4	13	12.9	12.8	12.8	12.8	12.8	12.8	12.7	12.8
24	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13	13.4	13.4	13.4	13.4	13.3	13.3	13.3	12.9	12.9	12.8	12.8	12.8	12.8	12.7	12.9
25	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.2	13.8	13.7	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13	12.9	12.8	12.8	12.8	12.8	12.7	13.1
26	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.2	13.7	13.6	13.5	13.5	13.4	13.4	13.4	13.3	13.3	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13
27	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.8	12.7	12.8	13	13.5	13.4	13.4	13.4	13	12.9	12.8	12.8	12.8	12.8	12.7	12.9
28	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.4	13.7	13.6	13.5	13.5	13.4	13.4	13.4	13.4	13.5	13	12.9	12.8	12.8	12.8	12.8	12.8	13
29	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.4	13.8	13.7	13.6	13.5	13.5	13.5	13.5	13.5	13.6	13.1	12.8	12.8	12.8	12.7	12.7	12.7	13.1
30	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.5	13.8	13.7	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13.1	12.9	12.8	12.8	12.8	12.8	12.8	13.1
31	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13.4	13.7	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13	12.9	12.9	12.8	12.8	12.8	12.8	13.1
Avg	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13	13.5	13.5	13.5	13.5	13.5	13.5	13.4	13.4	13.3	12.9	12.8	12.8	12.8	12.8	12.7	12.7	13
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.3	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.04	0.03	0.03	0.02	0.02	0.01	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	12.5	12.5	12.5	12.4	12.4	12.4	12.4	12.5	12.5	12.6	12.6	12.8	12.6	12.8	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.6
Max	12.8	12.8	12.8	12.8	12.8	12.7	12.7	13.5	14.1	14	13.9	13.8	13.8	13.8	13.8	13.8	13.8	13.1	12.9	12.9	12.8	12.8	12.8	12.8	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	8928

Data Recovery: 0.0% missing; 0.0% untested; 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.