

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

March 2011

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	14	125	341	534	685	773	795	744	626	457	249	60	0	0	0	0	0	0	5405
2	0	0	0	0	0	0	39	201	345	526	665	755	779	732	620	449	240	57	0	0	0	0	0	0	5409
3	0	0	0	0	0	0	17	140	353	544	693	778	796	724	580	432	237	63	0	0	0	0	0	0	5355
4	0	0	0	0	0	0	22	122	342	527	674	762	768	724	611	442	224	52	0	0	0	0	0	0	5271
5	0	0	0	0	0	0	26	73	106	204	375	371	372	366	292	211	109	37	0	0	0	0	0	0	2543
6	0	0	0	0	0	0	25	65	101	112	124	116	197	266	138	43 ?	35	11	0	0	0	0	0	0	1233
7	0	0	0	0	0	0	17	169	340	553	699	788	809	760	631	365	175	37	0	0	0	0	0	0	5343
8	0	0	0	0	0	0	26	159	372	560	703	739	676	562	511	324	218	70	0	0	0	0	0	0	4920
9	0	0	0	0	0	0	15	74	169	302	555	648	636	357	201	116	76	29	1	0	0	0	0	0	3181
10	0	0	0	0	0	0	3	19	50	66	185	293	439	161	148	78	62	22	1	0	0	0	0	0	1528
11	0	0	0	0	0	0	26	192	383	569	721	816	822	563	319	165	74	27	5	0	0	0	0	0	4680
12	0	0	0	0	0	0	31	175	389	578	725	803	820	766	647	464	264	72	4	0	0	0	0	0	5737
13	0	0	0	0	0	0	29	116	233	526	704	789	809	659	597	459	251	57	2	0	0	0	0	0	5231
14	0	0	0	0	0	0	36	129	372	394	413	487	378	270	396	181	132	38	5	0	0	0	0	0	3230
15	0	0	0	0	0	0	28	161	380	524	456	410	214	120	79	69 ?	30 ?	24	6	0	0	0	0	0	2500
16	0	0	0	0	0	0	2	18 ?	51 ?	74	171	266	281	301	441	232	187	83	1	0	0	0	0	0	2108
17	0	0	0	0	0	0	49	204	404	591	739	824	843	791	666	496	288	95	7	0	0	0	0	0	5996
18	0	0	0	0	0	0	37	183	396	582	721	799	812	761	640	471	270	76	3	0	0	0	0	0	5750
19	0	0	0	0	0	0	18	70	143	371	675	813	842	791	670	501	296	90	8	0	0	0	0	0	5288
20	0	0	0	0	0	0	32	193	381	593	750	827	851	814	679	501	290	57	8	0	0	0	0	0	5976
21	0	0	0	0	0	0	9	71	96	140	249	579	805	712	525	269	155	50	5	0	0	0	0	0	3666
22	0	0	0	0	0	0	24	208	400	571	710	805	822	765	647	466	263	61	16	0	0	0	0	0	5759
23	0	0	0	0	0	0	20	138	264	414	623	729	542	206	78	216	275	68	7	0	0	0	0	0	3581
24	0	0	0	0	0	0	30	110	317	108	316	631	584	186	311	327	278	78	5	0	0	0	0	0	3282
25	0	0	0	0	0	0	32	225	386	638	761	799	840	658	330	288	125	33	4	0	0	0	0	0	5119
26	0	0	0	0	0	0	7	24 ?	51	106	215	254	240	263	188	68	48	11 ?	1	0	0	0	0	0	1477
27	0	0	0	0	0	0	3	27 ?	43 ?	86	88	112	133	128	183	114	166	106	19	0	0	0	0	0	1208 ?
28	0	0	0	0	0	3	25	39	113	164	245	174	141	234	389	316	254	128	8	0	0	0	0	0	2232
29	0	0	0	0	0	4	71	269	466	654	792	870	891	831	705	527	324	109	19	0	0	0	0	0	6534
30	0	0	0	0	0	0	2	?	52 ?	94	103	82	61 ?	?	52 ?	52	39	18	1	0	0	0	0	0	556 ?
31	0	0	0	0	0	1	9	30	81	108	103	124	98	98 ?	167	124	79	14 ?	0	0	0	0	0	0	1037
Avg	0	0	0	0	0	0	23	124	255	381	504	581	584	510	422	298	184	56	4	0	0	0	0	0	3908
S D	0	0	0	0	0	1	15	70	143	214	249	272	284	264	220	164	93	31	5	0	0	0	0	0	1825
S/A	0	0	0	0	0	3.37	0.63	0.57	0.56	0.56	0.49	0.47	0.49	0.52	0.52	0.55	0.51	0.55	1.22	0	0	0	0	0	0.47
Min	0	0	0	0	0	0	2	18	43	66	88	82	61	98	52	43	30	11	0	0	0	0	0	0	556
Max	0	0	0	0	0	4	71	269	466	654	792	870	891	831	705	527	324	128	19	0	0	0	0	0	6534
n	0	0	0	0	0	5	278	336	352	369	371	372	364	355	361	358	364	362	58	0	0	0	0	0	4305

Daylight Data Recovery: 0.0% missing; 0.0% untested; 2.9% exceed the 15% QC threshold -- 4435 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.

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

March 2011

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

Daylight Data Recovery: 100.0% missing; 0.0% untested; 0.0% exceed the 15% QC threshold -- 4435 total daylight measurements.

Instrument: Eppley NIP Serial Number: 23398E6 Calibration Factor: 7.1447 $\mu\text{V}/\text{W}/\text{m}^2$ 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.

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

March 2011

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	10	37	56	63	67	71	71	70	66	56	39	17	0	0	0	0	0	0	621
2	0	0	0	0	0	0	14	49	65	81	85	87	82	75	67	60	45	19	0	0	0	0	0	0	728
3	0	0	0	0	0	0	11	31	49	55	59	64	78	87	95	69	49	21	0	0	0	0	0	0	668
4	0	0	0	0	0	0	16	39	60	71	80	80	154	105	85	84	89	33	0	0	0	0	0	0	895
5	0	0	0	0	0	0	22	62	106	204	371	348	355	365	286	209	109	36	0	0	0	0	0	0	2473
6	0	0	0	0	0	0	25	65	101	112	124	116	197	266	138	35	35	11	0	0	0	0	0	0	1224
7	0	0	0	0	0	0	19	67	129	71	71	72	73	70	75	146	137	37	0	0	0	0	0	0	967
8	0	0	0	0	0	0	15	39	63	86	97	211	245	284	245	199	98	37	0	0	0	0	0	0	1619
9	0	0	0	0	0	0	15	74	163	280	365	327	388	327	201	116	76	29	1	0	0	0	0	0	2365
10	0	0	0	0	0	0	3	18	46	61	185	293	412	161	148	78	62	22	1	0	0	0	0	0	1490
11	0	0	0	0	0	0	15	39	56	67	78	91	112	242	298	163	74	26	5	0	0	0	0	0	1266
12	0	0	0	0	0	0	18	46	64	75	82	89	88	87	82	88	64	29	4	0	0	0	0	0	816
13	0	0	0	0	0	0	29	114	183	225	113	120	181	188	164	99	72	31	1	0	0	0	0	0	1519
14	0	0	0	0	0	0	34	99	151	294	385	460	376	270	376	181	125	38	5	0	0	0	0	0	2793
15	0	0	0	0	0	0	23	74	127	269	378	403	210	120	76	50	26	23	6	0	0	0	0	0	1786
16	0	0	0	0	0	0	2	17 ?	51 ?	74	171	262	281	297	296	180	148	41	1	0	0	0	0	0	1821
17	0	0	0	0	0	0	20	52	70	81	86	92	92	83	81	78	90	56	6	0	0	0	0	0	887
18	0	0	0	0	0	0	27	63	81	93	107	115	118	115	108	93	73	35	3	0	0	0	0	0	1030
19	0	0	0	0	0	0	19	70	141	277	166	123	102	95	96	89	66	35	7	0	0	0	0	0	1286
20	0	0	0	0	0	0	26	118	153	144	145	146	138	136	137	114	107	53	8	0	0	0	0	0	1424
21	0	0	0	0	0	0	10	71	89	140	247	410	308	249	284	221	146	50	5	0	0	0	0	0	2231
22	0	0	0	0	0	0	22	100	129	155	224	169	170	172	149	140	110	52	18 ?	0	0	0	0	0	1610
23	0	0	0	0	0	0	20	131	241	378	393	284	372	204	75	179	95	46	7	0	0	0	0	0	2426
24	0	0	0	0	0	0	24	109	200	102	274	414	373	164	293	220	141	53	5	0	0	0	0	0	2372
25	0	0	0	0	0	0	33	155	162	98	151	237	251	430	306	231	125	33	4	0	0	0	0	0	2216
26	0	0	0	0	0	0	7	21 ?	47	106	215	254	240	263	188	68	43	12	1	0	0	0	0	0	1466
27	0	0	0	0	0	0	4	20	39	86	88	112	133	128	183	114	145	80	18	0	0	0	0	0	1148
28	0	0	0	0	0	?	25	39	113	164	245	174	141	234	372	305	152	52	5	0	0	0	0	0	2020
29	0	0	0	0	0	?	29	59	74	80	89	92	96	96	92	84	68	41	16	0	0	0	0	0	917
30	0	0	0	0	0	0	2	19 ?	42 ?	94	98	82	52	34 ?	43 ?	50	39	18	1	0	0	0	0	0	574 ?
31	0	0	0	0	0	2 ?	9	30	81	108	103	124	98	87	167	124	79	13	0	0	0	0	0	0	1026
Avg	0	0	0	0	0	0	18	62	101	135	172	191	193	178	170	127	88	35	4	0	0	0	0	0	1474
S D	0	0	0	0	0	0	9	36	53	85	109	122	113	100	99	66	38	16	5	0	0	0	0	0	632
S/A	0	0	0	0	0	5.39	0.5	0.58	0.52	0.63	0.63	0.64	0.59	0.57	0.58	0.53	0.43	0.45	1.23	0	0	0	0	0	0.43
Min	0	0	0	0	0	0	2	17	39	55	59	64	52	34	43	35	26	11	0	0	0	0	0	0	574
Max	0	0	0	0	0	2	34	155	241	378	393	460	412	430	376	305	152	80	18	0	0	0	0	0	2793
n	0	0	0	0	0	2	265	353	363	372	372	372	372	366	368	371	371	369	57	0	0	0	0	0	4373

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.4% exceed the 15% QC threshold -- 4435 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31393F3 Calibration Factor: 7.6820 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

March 2011

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	14.1	9.8	9.4	9.2	8.3	7.3	6.4	5.6	6	6.6	6.9	7.5	7.8	7.8	7.8	7.9	7.2	5.7	4.1	3.3	2.9	2	1.9	1.5	6.5
2	0.4	0.3	0.5	0	-0.7	-0.6	-0.7	0.6	4.9	8.5	10.7	12.7	14.3	15.2	16.2	16.5	16.9	16	14.2	12.9	11.7	11.4	10.9	10	8.4
3	9.2	8.2	7.3	6.4	5.5	4.3	3.3	3	3.1	3.5	3.6	3.8	3.7	3.5	3.1	2.7	2.3	1.5	0.6	0.3	0.3	0.6	0.8	-0.1	3.4
4	-0.1	0.6	0.4	0.1	0.4	0.7	1.3	2.7	5.8	7.2	8.3	9.4	9.8	10	10.4	10.6	10.2	9.4	8.5	7.8	8.1	9.5	9.4	8.9	6.2
5	8	7.6	7.4	7.5	7.6	8	8	9.6	11.1	13.3	14.9	15.5	15.9	16.8	17	16.1	16.2	15.9	14.8	14	13.1	13.1	13.9	14.3	12.5
6	14.2	14.7	14.7	14.8	14.2	13.7	14.3	14.9	15.2	15.1	15.5	15.9	16.2	17.2	17.5	17.3	17.3	17.2	16.7	16.4	16.7	15.3	10.6	8.8	15.2
7	8.3	7.1	5.9	5.3	5	4.8	4.7	5.1	5.6	6.2	7.4	8.5	9.8	10.5	11.4	11.5	11.3	10.4	9.1	7.8	7.1	6.9	6.7	6.3	7.6
8	5.9	5.1	5.1	5	3.9	3.1	3.3	4.4	6.4	7.8	9.1	9.9	10.1	10.2	10.2	9.6	8.2	7.4	6.1	5.4	5.1	4.8	4.6	4.1	6.4
9	4.1	3.8	3.7	3.8	4	4	4.4	5.6	7.8	10	11.7	12.9	13.8	13.8	13.4	12.7	12.2	12.2	11.9	12.1	12	11.5	11.4	11.7	9.4
10	12	12.2	12.7	12.6	13.5	13.9	14.4	14.9	15	15.6	15.6	16.3	17.5	17.7	17.5	17.7	18.3	18.5	17.7	15.4	11	10.7	10.7	10.9	14.7
11	11.1	10.8	9.2	8.2	7.5	6.9	6.2	6.4	7	7.7	8.6	9.4	10.1	10.1	9.3	8.7	8.2	8.1	7.6	6.6	5.8	5.3	5.2	5.6	7.9
12	5.3	4.7	3.9	3.3	3	2.9	2.8	3.9	6.3	8.8	10.4	12	13.8	15.2	16.5	17.6	17.8	17	15.5	13.8	13.1	12.6	12.2	11.7	10.2
13	11.2	11	10.9	10.6	10.5	10.4	10.3	11	12.4	15.2	18.9	21.4	22.2	22.6	22.9	23.1	23.2	22.5	20.6	17.4	13.6	11.4	11.1	10.7	15.6
14	9.8	9.2	8.3	7.4	6.8	6.6	6.5	7.1	8.2	8.6	9.3	10.4	10.2	9.7	10.1	9.4	9.2	8.6	7.8	7.6	7	6.7	6.5	6.7	8.2
15	6.7	6.3	6.2	6	5.8	5.8	6.3	7.4	8.9	9.9	10.8	10.8	10.5	9.9	9.7	9.4	8.6	8.8	9.5	10.1	10.7	11.8	13.2	13.9	9
16	13.7	14	14.4	14.9	14.7	14.4	14.5	14.4	14.5	13.8	12.8	13.8	14.7	15.2	16	16.4	16.2	15.9	13.9	12.1	11.2	10.9	10.8	10.6	13.9
17	10.2	9.7	9.4	8.8	8.5	8.4	8.8	10	11.5	12.8	14	14.9	15.6	16.5	17.4	16.9	15.8	14.3	12.6	11.5	11.1	10.6	10.1	10.2	12.1
18	10.5	10.7	10.6	10.5	10.1	10.1	10.8	12.6	15	17.5	19.4	22	24.1	25.4	26.4	26.8	27	26.3	24.3	23	21.8	21.5	21.4	20.7	18.7
19	19.7	18.8	18.6	17.6	17.1	17	18	18.2	17.8	16.9	16.5	16.6	17.3	17.6	16.6	16	15.6	13.4	11.3	10.1	9.4	9.2	8.9	8.7	15.3
20	8.5	7.9	7.4	6.8	6.7	6.9	6.6	7.1	8.2	9.4	9.9	10.5	11.1	11.1	11.2	11.4	10.5	8.6	7.7	7.4	7.4	7.6	7.6	7.9	8.6
21	8.2	8.3	8.7	9.1	9.6	9.9	10.3	11.1	12.3	13.3	15.8	18.4	20.6	22	22.9	22.6	22.5	21.9	20.8	19.9	19.8	20	20.3	17.9	16.1
22	17.4	16.9	16.7	16.5	16.3	16.1	16.1	17.2	19	21	18	15.3	15.2	15	15.2	14.7	13.7	12	10.8	10.4	10.3	10.4	10.5	10.6	14.8
23	10.9	11.1	11.2	11.1	10.9	10.6	10.3	10.5	11.2	12.7	13.7	15	16.6	16	15.3	17.4	18.9	17.4	16.6	16.3	16.6	16.5	15.5	14.9	14.1
24	13.8	13.2	13	12.9	12.8	12.8	12.7	13.2	14.3	13.1	11.5	12.5	12.2	8.6	9.3	10	10.1	8.6	7.7	7.5	7.3	7	6.9	6.9	10.7
25	7	7.1	7	6.7	6	6.1	5.9	6.1	6.7	7.9	9	9.9	11.2	11.5	10.8	9.8	9.6	7.8	7.6	7.3	6.9	6.6	6.6	7.1	7.9
26	7.5	7.6	7.8	7.9	7.6	7.4	7	5.4	4.4	4.8	5.5	6.4	6.3	6.3	6.4	5.7	5.2	4.9	4.6	4.4	4.1	3.8	4	3.7	5.8
27	3.2	3.2	3.1	2.6	2.8	2.9	2.6	2.6	2.7	2.8	3.1	3.1	3.2	3	3.5	3.9	4.3	4.5	4.1	3	2.3	1.7	1.4	1.1	3
28	0.6	0.5	0.2	0.2	0.5	1	1.2	1.7	3.3	4.8	6.2	6.5	6.5	6.5	7.2	7.8	8.2	8.8	6.9	5.3	4.3	3.4	2.5	2.5	4
29	1.9	1	0.7	0.4	0.5	0.4	1.1	3.9	6.8	8.9	10.1	11	11.6	12.7	13	12.1	10.5	10	9.2	7.8	7.1	6.9	6.8	6.7	6.7
30	6.5	6.5	6.2	6.6	7.3	7.5	6.6	4.9	4.3	4.6	5.5	5.3	5	5	5.4	6.3	6.9	8.3	8.6	8.3	8.3	8.3	8.2	8	6.6
31	7.9	8	7.9	7.7	7.5	7.5	7.5	7.7	8	8.5	8.6	8.9	8.7	8.7	8.6	8.7	8.7	8.4	7.9	7.5	7.3	7	6.7	6.5	7.9
Avg	8.6	8.2	8	7.7	7.5	7.5	7.5	8	9.2	10.2	11	11.8	12.4	12.6	12.8	12.8	12.6	11.9	10.9	10.1	9.5	9.2	8.9	8.7	9.9
S/D	4.8	4.6	4.7	4.7	4.7	4.7	4.8	4.7	4.5	4.4	4.4	4.7	5.1	5.5	5.6	5.7	5.8	5.8	5.5	5.2	4.9	4.9	4.9	4.7	4.2
S/A	0.55	0.56	0.59	0.61	0.62	0.63	0.64	0.59	0.49	0.44	0.4	0.39	0.41	0.43	0.44	0.44	0.46	0.48	0.5	0.51	0.52	0.54	0.54	0.55	0.42
Min	-0.1	0.3	0.2	0	-0.7	-0.6	-0.7	0.6	2.7	2.8	3.1	3.1	3.2	3	3.1	2.7	2.3	1.5	0.6	0.3	0.3	0.6	0.8	-0.1	3
Max	19.7	18.8	18.6	17.6	17.1	17	18	18.2	19	21	19.4	22	24.1	25.4	26.4	26.8	27	26.3	24.3	23	21.8	21.5	21.4	20.7	18.7
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% 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

March 2011

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	104.6 ?	102.8	97.1	94.3	95.3	92.7	87.8	79.2	73.6	66.1	62.4	58.9	60.1	64	64.6	63.1	59.6	64.5	71.4	83.5	90.2	96.8	99.6	102.2	80.6	
2	104.3	104.1	103.9	?	?	?	?	?	?	101.7	91.1	70.1	66.8	56.6	44.7	33.4	35.5	39.1	45.6	53.3	57.8	60.2	60	62.8	66.7	66.2 ?
3	61.8	59.3	50.8	52.3	57.7	66.6	66.2	64.3	58.1	53.6	49.9	54.9	63.8	65.8	66.4	63.7	67.2	73	80.7	83.4	82.7	85.7	93.1	95.6	67.4	
4	97.7	99.5	101	101.5	101.8	102.6	102	96.6	84.8	77.2	75.9	74.1	74.9	77.2	78.1	79.4	84.9	92.4	99.6	103.3	104.7 ?	104.2 ?	?	?	91.5 ?	
5	?	?	?	?	?	?	?	?	101.1 ?	99.3	93.3	87.4	86.3	88.4	85.2	81.4	86.3	87.8	86.4	92	95.7	99.3	98.1	95.7	96.8	91.8 ?
6	98.4	97.8	97.6	97.9	101.1 ?	105 ?	103.8 ?	102.9 ?	104.8 ?	104.6	104.5	104	103.2	100.2	99.6	100.8	99.8	99.9	100.1	97.9	96.7	97.2	95.4	96	100.4 ?	
7	96.8	95	92.2	89.8	91.2	90.3	88.6	83.9	80.3	76.1	74.2	70.9	67.4	63.7	60.6	59.4	59.4	63.5	70.1	75	78.9	76.5	72.7	73.8	77.1	
8	72.9	79.6	79	79.2	87.8	90.9	89.5	89.5	82.9	81.1	80.9	80.1	81.5	80.7	80.1	83.3	84.2	82.7	92.8	103.2	104.8 ?	?	?	?	85.1 ?	
9	?	?	?	?	?	?	?	?	103.1 ?	97.5	91.8	88.3	88	89.9	93.3	97.1	100.3	101	102.5	102.1	103.4	104.9 ?	?	103.1	97.8 ?	
10	101.3	101.4	100.1	101.1	98.7	98.6	100.2	102	104.3	103.4	104.8 ?	103.4	99.5	97.2	96.7	94.7	91.2	93.4	95.6	94.2	102.4	?	?	?	99.2 ?	
11	103.9	101.6	99.1	101.1	99.9	97.8	97.1	90.4	79.9	74	72.7	69.5	66.9	65.9	67.2	67.8	69.9	70.2	72.3	76	81.9	85.8	87.5	82.7	82.5	
12	83.4	85.9	89.6	92.7	95.7	96.1	95.6	90.3	81.6	70.9	62	58.2	52.1	49.9	45.6	44	45.1	50.3	55.2	72.9	75	76	76.6	77.8	71.8	
13	78.9	79.5	79.5	82.4	85	86.4	87.8	86.3	81.4	71.7	53.1	34	33.5	34.9	36.7	38.2	39.6	42.6	45.9	61.3	84.8	95.6	95.2	97.1	67.1	
14	90.1	82.7	86	92.9	95.9	91.3	90.8	87	80.2	76.7	70.7	67.4	68	76.2	78.4	80	77.5	78.4	81.8	84.8	90.5	93.1	94.6	91.9	83.6	
15	87	87.2	89.9	89.7	94.5	99.3	100.8	98.7	86.9	81.4	80.1	82.5	85.4	89.1	92.7	96.1	102.2 ?	104.6 ?	?	?	?	?	104.9 ?	104.9 ?	92.9 ?	
16	?	?	?	?	?	?	?	?	?	?	?	102.7 ?	100	95.3	90.3	89.4	87.6	84.9	94.7	103.8	?	104.7	104.5	?	96.2 ?	
17	?	?	?	?	?	?	101.9 ?	90.6	82.1	77.1	71.9	67.4	62	57.2	55.7	64.5	69.2	74	80	80.7	89.1	100.1	101	103.9 ?	79.3 ?	
18	?	?	104.5	102.9	101.9	100.7	98.7	94.3	85.9	77	72.5	65.2	58.2	54.6	51.7	50.4	51.2	54.5	62	65.9	69.4	69.5	66.9	67.9	73.9	
19	70.8	74	74.9	79.9	83.7	87.4	89.3	76.2	64.1	51.4	55.3	60.3	62.6	61.9	64.9	63.3	63	71.8	78.7	86.5	88.8	86.8	88.3	90.3	73.9	
20	93	96.5	96.2	98.4	101.6	97.1	94	89.8	84.9	77.1	71.3	67.7	62.6	51	49.1	58.6	64.1	74.2	82.8	93.8	100.6	101.7	104	102.3	83.9	
21	101.6	102.6	102.5	103.5	104.9	104.6	104.4	101.6	101.3	102.2	94.3	84.5	79.9	75.3	72.9	74.2	75.6	77	82.8	86.3	86.8	86.1	85	98.4	91.2	
22	99.2	101.2	99.7	97.5	96.3	94.3	93	88.8	84.9	79.5	92.3	85.7	80.5	79.7	78	79.4	81.9	86.7	90.3	96	99.9	99.8	100.9	100.6	91.1	
23	99.9	98.2	96.9	97.1	98.9	100.8	100.7	100.3	98.8	95	92.9	90.5	87.6	91.9	97.1	90.8	86.1	92.9	96.5	99.3	99.2	103.4	?	?	96.1	
24	103.6	104	104.8 ?	?	?	?	?	104.3 ?	99.3	99.1	102.9	97.2	98.6	103.1 ?	98.6	95.7	94.4	97.9	99.3	95.9	93.8	94.1	94.5	95.1	98.8 ?	
25	94.7	94	89	89.3	94.8	93.5	88.5	80.7	72.7	66	63.5	59.7	57	57	68	80.7	83.6	87.8	90.2	91.1	93.9	95.8	96.3	95.9	82.6	
26	96.9	98.7	98.9	99.8	99.8	99.7	95.3	102	101.6	97.8	85.5	79.7	82.7	80.2	78.9	81.4	81.4	82.5	86.6	90.8	97.9	102.2	100.8	102.3	92.6	
27	?	?	?	?	?	?	?	?	?	103.6 ?	101.6	99.8	98.7	101.4	99.3	95.6	90.3	85.3	88.4	93.6	97.9	100.4	101.8	102.1	97.3 ?	
28	103.8	104.3	104.9 ?	?	104.6 ?	103.5	104.1	104.4	101	95.9	86	86.3	83.7	82.8	78.3	76.1	70.2	65	71.9	86.5	90.2	96.8	101.5	100.3	91.4 ?	
29	100.4	104.2 ?	?	?	?	?	101.9 ?	87.5	70.6	58.8	47.9	45.2	45	45.2	44.5	55.8	62.7	66	72.4	85.7	93.1	94.4	95	96.2	73.6 ?	
30	91.6	92.4	94.3	87.5	75.1	71.7	85	101	103.2	?	?	104.9 ?	104.2	104.3 ?	?	?	?	?	?	?	?	?	?	?	92.9 ?	
31	?	?	?	?	?	?	?	?	?	?	?	?	104.8 ?	104.2	104.7 ?	103.2	102.7	104.1	104.6 ?	?	?	?	?	?	104 ?	
Avg	93.2	93.6	93	91.9	93.9	94.1	94.5	92.1	87.6	82.1	77.8	76.5	76	75.1	73.6	75	75.7	78.4	82.6	87.4	91	92.7	92.4	93.5	86.3 ?	
S D	11.8	11.6	12.3	11.7	10.9	9.7	8.6	10	13.1	15.4	16.7	18.3	19	20	20.1	18.9	18.1	16.9	15.4	12.5	11	11.5	11.8	11.3	10.9	
S/A	0.13	0.12	0.13	0.13	0.12	0.1	0.09	0.11	0.15	0.19	0.21	0.24	0.25	0.27	0.27	0.25	0.24	0.22	0.19	0.14	0.12	0.13	0.12	0.13	0.13	
Min	61.8	59.3	50.8	52.3	57.7	66.6	66.2	64.3	58.1	51.4	47.9	34	33.5	34.9	33.4	35.5	39.1	42.6	45.9	57.8	60.2	60	62.8	66.7	66.2	
Max	104.6	104.3	104.9	103.5	104.9	105	104.4	104.4	104.8	104.6	104.8	104.9	104.8	104.3	104.7	103.2	102.7	104.6	104.6	103.8	104.8	104.9	104.9	104.9	104	
n	277	283	268	252	249	253	275	300	320	333	329	347	367	365	357	360	355	355	341	335	308	296	280	274	7487	

Data Recovery: 0.0% missing; 0.0% untested; 16.1% failed QC -- 8928 total measurements.

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

March 2011

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	14.6	13.3	10.8	9.8	9.4	8.3	7.2	6.6	7.6	9.2	10.7	11.8	12.4	12.5	12.2	12.3	12.2	10.8	7.3	4	2.1	0.6	-0.7	-1	8.5
2	-1.4	-1.7	-2	-2.4	-2.8	-3	-3.1	-1.8	3.4	9	13.5	16.5	18.2	19	19.3	19.8	20	19.4	16.5	13.3	10.9	9.7	9.2	8.7	8.7
3	8.6	8	7.2	6.4	5.5	4.4	3.4	3.4	4.9	6.3	7.5	8.5	8.9	8.7	8.1	7.5	7	5.9	3.1	0.7	-0.5	-0.8	-0.8	-1.1	5
4	-1.3	-1.2	-1.1	-1.2	-1.2	-1	-0.7	0.6	4.6	8.6	11.4	13.7	15.3	15.6	15.3	15.3	14.8	13.5	10.7	8.5	7.5	7.8	8.6	8.3	7.2
5	7.5	7	6.7	6.6	6.6	6.6	6.8	7.6	9.2	11.3	14.3	17	18	18.9	19.5	19.3	18.4	17.5	16.2	15	14.2	13.5	13.4	13.9	12.7
6	14.3	14.5	14.8	14.9	14.9	14.3	14	14.3	15	15.5	15.7	16.1	16.4	17	17.6	17.7	17.5	17.3	17	16.5	16.2	16.3	14.4	11.3	15.6
7	9.9	8.9	7.8	6.4	5.8	5.5	5.3	5.7	7.7	9.4	11.3	13.1	14.4	15	15.3	15.7	15	13.1	10.7	8.6	7.1	6.2	6	5.6	9.6
8	5.1	4.4	3.7	3.5	3.1	2.1	1.6	2.9	6.6	9.9	12.6	15.1	16.1	15.7	15.5	14.8	13.5	11.7	8.9	6.1	4.8	4.2	3.8	3.2	7.9
9	3.1	3.1	3.1	3	3.1	3.3	3.6	4.2	5.8	8.5	11.8	14.9	17	17.8	17	15.8	14.6	13.5	12.7	12.3	12.4	12.1	11.5	11.5	9.8
10	11.8	12	12.3	12.6	12.8	13.4	13.9	14.2	14.3	14.8	15.4	16.3	17.5	19.1	18.7	18.4	18.6	18.9	18.6	17.9	14.6	12.2	11.3	11	15
11	11	10.9	10	8.6	7.5	6.6	6	6.7	8.9	10.8	12.4	13.6	14.1	14.1	13.2	12.1	10.7	9.6	8.7	7.1	5.2	4.1	3.5	3.7	9.1
12	3.8	3.5	2.9	2.3	1.8	1.6	1.4	3	6.9	10.8	13.6	15.7	17.3	18.4	19.2	20.2	20.8	20.4	18	15.2	13.4	12.5	12	11.6	11.1
13	11.1	10.7	10.3	10	9.6	9.5	9.5	10.1	11.5	14.7	19.2	23	25	25.9	26.1	26.3	26.4	25.8	22.7	19.3	16.5	13.7	12	10.9	16.7
14	10.2	9.6	8.8	7.9	7	6.4	6	6.7	8.5	10.7	11.9	13	14.1	13.7	13.4	13.6	12.3	11.1	9.7	8.7	7.7	6.8	6.5	6.4	9.6
15	6.4	5.8	5.2	5.2	5.2	4.9	4.9	6.1	9.1	12.1	13.9	14.6	14.5	13.3	12.1	11.4	10.4	9.4	9.2	9.4	10	10.7	11.8	13	9.5
16	13.6	13.7	13.9	14.4	14.7	14.7	14.7	14.8	14.9	15	14.6	15.1	16.5	17.8	18.6	19.7	19.4	18.7	16.9	13.5	11.8	11.3	11	10.4	15
17	10.1	9.6	9.3	8.7	8	7.6	7.4	8.7	12.1	15.4	18.1	20	21.1	21.5	22.2	23.3	22.2	19.9	16.5	13	11.1	10.1	9.4	8.9	13.9
18	9.1	9.4	9.5	9.5	9.4	9.2	9.4	11.1	14.8	18.5	21.7	24.2	26.5	27.7	28.8	29.7	30.1	29.6	27.1	23.9	22	21	20.5	20.4	19.3
19	19.8	18.8	18.3	17.6	16.9	16.8	16.8	17.7	18.4	18.9	19.6	20.5	21.6	22.1	22.1	21.4	20.7	19.3	15.4	11.8	9.7	8.4	7.6	7.1	17
20	6.6	6.1	5.7	5.6	5.3	5.4	5.7	6.5	8.7	11.5	14.2	15.9	16.9	16.5	16.1	16.6	16.9	14.4	10.8	9	8.2	8	7.7	7.3	10.2
21	7.5	7.9	8.3	8.8	9.2	9.6	9.9	10.6	11.8	12.6	14.1	17.4	21	23.4	24.7	25.2	24.5	23.6	22.3	20.7	19.7	19.6	20	19.2	16.3
22	17.5	16.6	16.1	16	16	16	15.9	16.6	19.7	23.2	24.9	23	21.6	20.6	20.2	20.3	19.5	17.4	14.2	12	11.1	10.7	10.6	10.6	17.1
23	10.9	11.2	11.4	11.4	11.3	11.2	10.9	11.1	12.2	14.4	16.9	20.2	22.1	22.3	19.6	18.2	20.5	21.6	19.1	17	16.5	16.5	16.1	15.6	15.8
24	15	14	13.4	13.2	12.9	12.6	12.6	12.8	14.2	16.1	14.8	15.5	17.4	15.8	12.2	12.4	13.6	12.9	10.4	8.8	7.6	7	6.7	6.3	12.4
25	6.6	6.9	7	7	6.8	6.4	6.3	6.8	8.3	11.1	14.1	16.4	17.7	18.2	17.7	15.2	13.6	11.6	9.5	8.3	7.3	6.5	5.9	6.1	10.1
26	6.6	6.9	7.1	7.4	7.6	7.6	7.6	7.3	6.2	5.6	6.3	7.5	8.6	8.9	9.4	8.7	7.3	6.4	5.7	4.8	4.3	3.9	3.7	3.7	6.6
27	3.5	3.4	3.3	3.1	2.9	3	3	2.8	2.9	3	3.2	3.4	3.9	4.3	4.6	5.1	5.5	6.3	5.8	3.7	1.9	0.9	0.3	-0.1	3.3
28	-0.4	-0.7	-0.9	-1.1	-1	-0.6	0	0.8	2.1	4	6.2	8	8.5	8.4	9.5	11.8	12.7	12.9	11.3	7.1	4.6	2.7	1.3	0.3	4.5
29	-0.3	-0.8	-1.3	-1.8	-2	-1.6	-1.1	1.7	6.7	11.8	15.5	18	18.6	18.1	18	18.6	16.9	15.1	12.5	9.4	7.5	6.4	6.2	6	8.3
30	5.6	5.3	5.2	5.5	6	6.7	6.5	5.4	4.6	4.5	5.1	5.8	5.7	5.4	5.4	5.9	6.6	7.3	8.2	8.4	8.5	8.5	8.6	8.5	6.4
31	8.4	8.4	8.4	8.3	8.2	8	8	8.1	8.4	9	9.6	10	10.2	10.2	10.1	10.1	10.1	9.9	9.4	8.7	8.2	7.8	7.4	7.1	8.8
Avg	8.2	7.9	7.6	7.3	7.1	7	6.9	7.5	9.4	11.5	13.3	15	16	16.3	16.2	16.2	15.9	15	13.1	11.1	9.7	9	8.6	8.2	11
S D	5.3	5.2	5.1	5.2	5.2	5.2	5.1	4.9	4.5	4.5	4.7	4.9	5.3	5.6	5.7	5.8	5.9	5.9	5.5	5.3	5.2	5.3	5.3	5.3	4.2
S/A	0.65	0.66	0.68	0.71	0.73	0.74	0.75	0.65	0.48	0.4	0.36	0.33	0.33	0.34	0.35	0.36	0.37	0.39	0.42	0.48	0.54	0.59	0.62	0.64	0.38
Min	-1.4	-1.7	-2	-2.4	-2.8	-3	-3.1	-1.8	2.1	3	3.2	3.4	3.9	4.3	4.6	5.1	5.5	5.9	3.1	0.7	-0.5	-0.8	-0.8	-1.1	3.3
Max	19.8	18.8	18.3	17.6	16.9	16.8	16.8	17.7	19.7	23.2	24.9	24.2	26.5	27.7	28.8	29.7	30.1	29.6	27.1	23.9	22	21	20.5	20.4	19.3
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% 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

March 2011

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	2.9	6.5	6.7	5.8	6.7	5.7	5.5	5.6	5.6	5.1	5.4	5.2	5.2	4.9	4.6	4	3.8	3.3	2.7	1.7	0.5	0	0.3	0.3	4.1
2	0.2	0.4	0.1	0	0	0.1	0	0.1	0.8	1.7	2.6	3.1	3.3	3.4	3.6	3.4	3	2.4	1.3	0.5	0.8	0.8	0.5	0.4	1.5
3	3.9	3.7	4.6	3.9	3.6	3.4	3.3	4.6	5.6	5.7	5.7	5.1	5.3	4.7	4.9	4.4	4.2	4	2.9	1.9	2	1.7	0.9	0.4	3.8
4	0.6	1.1	1.2	1.3	1.5	1.7	1.3	1.9	3.5	4.5	3.9	3.5	3.4	3.3	3.2	3.8	3.4	3	2.2	1.7	1.9	3	1.9	0.3	2.4
5	0.3	0.4	0.3	0	0.3	0.2	1.2	0.7	0	3.4	3.8	4.2	4.4	3.8	4.5	4	4.1	3.8	2.3	2.4	1.8	2.2	2.5	2.8	2.2
6	1.9	2.6	3	2.7	3	3	3.6	4.7	4.7	3.6	3.9	4	5.8	6.3	6.3	6.6	5	3.6	4.5	4.9	5.4	7.1	7.5	4.2	4.5
7	3.8	3.6	4	3.4	3.2	3.5	3.3	3.6	3.6	4.3	3.9	3.6	3.4	3.8	3.3	3.2	3	2.5	2	2	1	1.5	1.6	1.7	3
8	2.2	2	2.6	2.3	1.4	1.8	1.7	2.3	3.3	3.8	3.1	3.2	3.4	3.2	3.4	3.5	4.1	3.3	2.6	2.3	2.3	1.7	0.7	1.3	2.6
9	1.3	1.3	1.4	1.2	1.3	1.5	1.1	1.4	2.6	4.3	4.9	5	4.6	3.8	3.9	3.9	3.5	3.2	3.4	4.1	3	3	1.6	2.2	2.8
10	1.7	2	2.7	2.7	3.1	3	3.4	4.6	3.9	3	2.9	4.9	6.1	5.5	6.6	5.7	6.3	6.4	3.8	4.9	1.6	2	1.3	1.9	3.7
11	3.1	3.4	2.7	2.8	2	2.2	2.7	3.9	4.8	4.6	4.5	5.4	5.6	5.7	5.4	5.1	4.2	3.7	2.8	1.5	0.8	0.8	1.7	2	3.4
12	1.5	1.4	1.4	1.4	1.9	1.5	1.4	2	2.2	3.4	3.8	3.4	3.3	3.7	4.1	4	4.3	3.6	3.4	3.4	4.1	4.3	4.5	4.1	3
13	4.2	3.2	2.3	1.8	2.2	2.7	2.2	2.2	2.2	3.2	3.8	5.2	4.9	4	4.3	3.5	2.6	1.2	1	1.6	2.7	3.5	3.9	4.1	3
14	4.8	5.4	4.9	4	4	3.9	3.1	4	5	4.8	4.6	4	3.9	3.4	3.2	3.3	3.4	3.1	2.6	2.2	2.3	2.2	1.4	1.6	3.6
15	1.7	1.4	1.3	1.6	1.7	1.9	2.8	3.6	5.1	5.1	4.2	4.4	3.8	3.9	3.8	3.5	2.9	3.3	3.1	2.8	1.8	2.2	3.4	5.4	3.1
16	3.8	2.8	2.8	2.4	1.1	0.6	0.5	0.2	1.4	1.7	0.9	1	1.2	2.4	2.4	2.2	2.6	1.3	0.8	0.6	1.1	1.2	0.2	0	1.5
17	0.6	0.1	0.8	0.6	0.7	1	1.4	2.4	3	2.8	2.7	2.7	2.7	1.9	1.3	2.3	2.8	2.7	1.9	1.5	1.5	1.6	1.6	2.6	1.8
18	3	3.1	2.8	2.7	1.8	2.6	2.1	2.7	3.5	3.8	3.9	3.9	4.4	4.7	4.4	4.3	3.6	1.9	0.6	0.9	1.5	1.4	2.5	2.2	2.8
19	1.1	1.6	1.4	0.6	1.1	2.1	3.4	4.6	5.2	5.7	6.3	4.7	3.7	3.4	4.4	4.6	3.8	3.8	3.1	3.2	1.9	1.5	1.3	1	3.1
20	0.9	0.7	1.6	2	2.1	3.3	3.6	4	3.9	3.2	3.2	2.9	3.5	4.6	3.1	2.2	3	3.4	3.8	2.7	2.8	2.5	2.9	2.6	2.9
21	3.2	2.5	2	1.3	0.7	2.2	1.5	2.6	4.1	4.1	4.8	6.1	6	7.2	5.4	5.7	4.4	3.4	2	1.6	2.3	3.3	3.5	1.4	3.4
22	2.9	3	2	2.8	3	2.3	2.2	3.2	3.2	3.9	5	4.9	4.9	4.5	3.9	4.2	3.6	3.2	3	3	3.4	2.9	3.4	3.6	3.4
23	3.3	4	2.6	3.6	3.3	2.7	2.9	3.5	3.3	2.8	2.2	1.4	1.1	1.6	1.9	1.8	1.3	2.1	0.9	0.6	1.3	3.1	1.3	3.6	2.3
24	1.7	2	2.3	0.8	2.2	2.2	1.2	1.6	2.6	3	3	3.1	3.7	4.6	3.5	3.7	3.7	4	3.3	3.8	2.4	2	1.8	1.7	2.7
25	1.9	1.6	2.2	2.2	1.5	1.3	2.4	3.9	2.9	2	1.6	1.3	1.6	1.5	2.7	2.8	3.2	3.9	3.2	2.3	2.3	1.6	1.1	0.6	2.2
26	0.3	0	0.1	0.7	1.3	2.1	3.2	4.5	3.9	3.2	3.9	3.1	3.1	2.9	2.7	2.7	3.4	3.5	2.5	2.5	2.2	3	3.2	3.3	2.6
27	4.2	4.4	4.4	4.6	5	4.8	4.9	5	4.6	4.9	5.1	4.2	4.1	3.8	3.7	2.7	2.6	2.7	1.3	0.6	0.8	0.9	1	1.1	3.4
28	0.9	1	0.8	0.5	1.4	1.2	0.6	0.8	1.8	1.6	1.8	2.4	2.7	2.1	1.2	1	1.3	1	0.5	1.2	0.4	0	0	0.1	1.1
29	0	0.1	0	0	0.5	0.5	0.5	1	1.3	1.3	1.1	1.3	1.9	1.6	2	3.6	3.6	2.6	1.6	2	1.5	2.3	1.9	1	1.4
30	0.7	0.8	1.8	1.9	1.9	3	2.6	3.3	3.6	3.2	2.3	3.2	4.8	4.2	3.8	4.6	5.9	6.3	3.9	3.2	2.2	2.2	2.9	3.7	3.2
31	4.1	3.4	3	3.6	2.4	2	2.1	1.8	2.3	1.8	1.9	1.9	2.4	1.2	2.6	2.4	2.1	0.8	1.8	0.6	1.7	1.9	1.6	2.7	2.2
Avg	2.2	2.2	2.2	2.1	2.1	2.3	2.3	2.9	3.3	3.5	3.6	3.6	3.8	3.7	3.7	3.6	3.5	3.1	2.4	2.2	2	2.2	2.1	2.2	2.8
SD	1.4	1.6	1.5	1.4	1.4	1.3	1.3	1.5	1.4	1.2	1.4	1.3	1.3	1.4	1.3	1.2	1.1	1.2	1.1	1.2	1	1.3	1.5	1.4	0.8
S/A	0.66	0.71	0.67	0.68	0.67	0.56	0.55	0.52	0.42	0.34	0.38	0.37	0.35	0.38	0.35	0.33	0.31	0.39	0.44	0.55	0.53	0.61	0.74	0.66	0.29
Min	0	0	0	0	0	0.1	0	0.1	0	1.3	0.9	1	1.1	1.2	1.2	1	1.3	0.8	0.5	0.5	0.4	0	0	0	1.1
Max	4.8	6.5	6.7	5.8	6.7	5.7	5.5	5.6	5.6	5.7	6.3	6.1	6.1	7.2	6.6	6.6	6.3	6.4	4.5	4.9	5.4	7.1	7.5	5.4	4.5
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% 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

March 2011

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	300	351	349	353	346	345	348	355	1	14	22	36	35	41	43	38	42	40	46	47	30	310	358	341	10
2	292	297	4	280	300	325	300	274	148	199	219	212	213	226	228	229	256	257	258	245	206	215	214	8	233
3	22	21	7	14	17	22	24	23	27	32	34	29	33	37	39	46	41	49	42	42	45	40	23	302	30
4	312	352	337	339	7	36	13	40	53	52	58	64	72	94	98	91	88	78	70	68	78	85	77	29	64
5	5	25	54	58	63	91	85	91	148	118	123	113	116	108	128	115	125	129	122	115	106	122	132	138	118
6	139	137	139	136	165	135	140	141	145	144	145	145	149	150	152	155	166	170	156	162	179	221	271	284	163
7	275	277	295	297	294	298	306	308	300	317	325	317	321	326	348	356	344	20	15	27	18	13	348	354	321
8	11	41	45	37	336	350	4	29	43	48	49	50	46	47	49	42	43	42	46	59	56	45	19	27	40
9	357	350	356	10	13	25	25	44	63	71	78	82	82	91	86	90	91	92	83	94	93	93	76	75	75
10	85	94	101	106	115	114	115	121	133	165	145	138	139	138	137	140	154	168	170	219	266	237	167	199	144
11	230	258	264	261	246	253	260	264	269	263	256	254	256	252	256	259	264	265	261	254	215	212	233	254	256
12	246	238	237	232	230	241	241	261	271	256	251	231	213	196	206	199	193	192	189	182	189	193	193	191	212
13	194	197	209	206	221	228	224	224	240	259	268	266	268	262	255	250	257	276	293	74	9	34	42	48	253
14	45	40	39	40	40	37	27	30	29	28	14	20	44	37	49	50	48	47	50	63	69	54	55	39	
15	54	48	50	44	41	46	48	56	62	67	69	72	68	70	67	61	60	68	69	73	75	90	113	123	70
16	126	137	149	175	234	238	229	230	239	285	289	272	264	264	256	262	271	278	83	106	100	110	101	113	214
17	213	208	261	275	333	323	331	337	351	19	22	12	27	52	66	158	157	135	127	128	156	169	172	185	70
18	188	187	185	194	200	196	207	212	226	244	250	246	253	254	254	246	255	234	212	200	199	199	224	226	227
19	211	246	255	252	256	297	332	346	358	37	33	43	54	63	61	53	50	71	66	63	59	62	51	48	36
20	14	338	350	6	28	39	39	42	35	36	27	33	49	54	50	59	60	64	69	66	67	77	90	101	49
21	97	112	126	128	161	161	168	175	182	188	197	222	227	229	235	236	234	231	219	204	205	232	284	318	211
22	199	197	202	230	232	243	251	262	267	314	37	55	55	59	59	60	66	69	83	91	79	82	87	96	71
23	73	78	68	76	73	56	47	54	55	55	69	110	135	103	126	359	91	118	112	127	182	297	268	281	69
24	290	228	208	245	247	269	261	265	283	6	353	355	45	32	29	34	35	44	47	35	23	18	20	21	10
25	24	7	346	12	44	24	337	350	343	10	42	330	129	258	151	114	115	110	100	121	129	126	127	128	64
26	154	63	340	357	356	11	37	35	25	26	39	42	39	41	47	53	54	62	60	69	60	64	66	60	45
27	62	64	47	50	49	44	34	34	35	38	34	32	23	23	2	354	358	354	339	299	275	272	284	284	30
28	274	293	291	311	319	328	286	305	341	346	26	5	12	354	36	49	345	355	31	60	51	70	197	323	353
29	173	317	261	310	302	293	299	318	338	21	355	294	286	273	235	92	104	105	114	104	112	118	113	97	92
30	93	75	70	61	68	72	67	74	96	75	62	64	63	50	51	71	89	86	10	44	33	25	345	345	59
31	346	347	358	348	345	319	323	326	334	332	332	336	328	318	29	41	70	58	32	21	15	1	28	31	356
Avg	50	33	17	19	2	8	9	15	15	27	34	37	52	60	77	80	84	87	78	90	93	97	77	54	55
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

March 2011

Peak Wind Speed (1-Minute Gust)
Hourly and Daily Averages
Instrument: NRG MAX-40
Meters per Second

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	6	11	11.7	10.3	11.2	9.5	9.4	9.4	9.8	9.4	8.9	8.9	8.6	8.1	7.8	7.1	6	5.7	4.3	3	1.1	0.3	0.7	0.7	7
2	0.6	0.9	0.4	0.1	0.1	0.4	0	0.3	1.4	3.1	4.6	5.9	5.9	5.9	6.4	6.1	5.7	4.2	2.1	1	1.3	1.3	1.1	7.6	2.8
3	6.8	6.6	8.3	7.5	6.6	6.2	5.8	8.2	9.6	9.4	9.4	8.7	9.1	8	8.3	7.9	7.1	6.6	5	3.3	3.4	2.9	1.8	1	6.6
4	1.4	1.9	1.6	2.1	2.5	2.5	2.2	3.3	6.1	7.2	6.3	6	5.6	5.5	5.3	5.9	6.1	5.1	4.1	3	3.5	5.3	3.3	0.7	4
5	0.7	0.9	0.7	0.2	0.6	0.6	1.9	1.5	0.4	5.8	6.3	6.7	6.9	6.3	7.6	6.6	6.8	6.5	4	4	3.3	3.7	4.5	5	3.8
6	3.6	4.2	5	4.8	5.3	5	6	7.9	7.7	6.3	6.5	6.9	9.4	10.4	10	11.3	8.4	6.2	7.4	8.4	9.3	12	13.5	8.4	7.7
7	7.8	6.9	7.7	7.7	7.1	7.3	7.3	7	7.3	8.3	7	7.3	6.9	6.8	6.5	5.7	5.4	4.2	3.8	3.9	2.2	2.8	2.7	3.1	5.9
8	3.9	3.3	4.3	3.9	2.3	2.9	2.9	4.2	5.3	6.1	5.2	5.3	5.6	5.3	5.6	5.9	6.8	5.3	4.2	4	4.1	2.8	1.6	2.1	4.3
9	2.1	2.3	2.3	2.2	2.4	2.7	2	2.6	4.5	6.9	7.8	7.8	7.1	6.3	6.4	6.4	5.9	5.3	5.9	7.1	5	5	2.9	3.6	4.7
10	2.9	3.2	4.2	4.3	4.9	4.7	5.6	7.2	6.5	5.2	5.1	7.8	10.5	9.3	10.8	9.5	10.5	11	6.3	9	3.5	3.8	2.5	3.9	6.3
11	5.6	5.8	4.9	5	3.6	4.2	5.1	7	8.8	8.3	8.1	9.3	10.1	10.3	9.2	9	7.4	6.7	4.7	2.6	1.6	1.7	2.9	3.4	6.1
12	2.5	2.3	2.3	2.4	3.1	2.5	2.2	3.8	4.5	6.1	6.5	6.3	6.2	6.1	7.2	7.1	7.5	5.7	5.3	5.8	6.5	6.7	7	6.3	5.1
13	6.9	5.4	4.4	3.8	4.3	4.8	4	4	4	5.9	7.1	9.3	8.8	7.5	7.4	6.4	5	2.7	2	3	4.7	5.6	6.5	7.1	5.4
14	8.1	8.5	7.9	6.7	6.8	6.4	5.6	6.6	8	8.2	7.9	6.8	6.8	5.5	5.6	5.5	5.3	4.6	4	4.1	4.1	2.8	2.9	6	6
15	3.3	2.6	2.5	2.8	2.9	3.3	4.6	6.5	8.4	8.1	6.9	7.4	6.6	6.7	6.6	6.1	5.2	5.3	5.2	4.7	3.3	3.7	5.9	8.3	5.3
16	6.3	4.7	4.4	4	2.5	1.8	1.6	1.1	2.9	4	2.9	2.8	2.8	4.6	4.6	4.1	4.9	3.2	1.8	1.3	2.1	2	0.5	0.1	3
17	1.3	0.4	2	1.5	1.4	1.9	2.7	4.9	5.3	4.8	4.8	5	5	3.6	2.8	4	4.4	4.3	3.1	2.6	2.6	2.9	2.9	4.3	3.3
18	4.7	5.1	4.4	3.8	3	3.9	3.9	5.3	6.4	7.1	6.3	6.6	7.7	8	7.6	7.2	6.7	3.6	1.4	2	2.5	2.5	4.5	4	4.9
19	2.5	2.9	2.6	1.2	1.9	3.6	5.9	8	9.6	9.2	10.1	7.9	6	5.9	7.3	7.5	6.3	5.9	5	5.2	3.2	2.6	2.2	1.6	5.2
20	1.5	1.4	2.6	3.7	3.9	5.6	6	6.6	6.3	6	5.4	5.3	6.2	7.3	5.1	4.1	5.2	5.8	6	4.4	4.9	4.5	4.7	4.6	4.9
21	5.4	4.2	3.3	2.6	1.6	3.6	2.7	4.4	7	6.3	8.1	10.9	10.9	12.4	9.5	9.5	7.8	6.6	4	3.2	4.6	5.4	6.2	3.1	6
22	4.9	4.6	3.6	4.6	4.7	3.8	3.6	5.3	5.9	7.2	8.3	8	7.7	7.4	6.5	6.9	6.1	5.5	5.1	5.3	5.9	5.2	5.7	6.3	5.8
23	5.5	6.7	4.6	6.1	5.8	4.7	4.8	5.8	5.6	4.6	3.9	3.2	2.5	2.8	3	3.2	2.2	3.6	1.6	1.2	2.9	6.6	3	7.6	4.2
24	3.9	3.5	4	2	4.1	4.4	2.7	3.7	5.3	5.5	5.2	5.3	6	7.7	5.8	6.3	6.5	6.7	5.6	6.4	4.3	3.7	3.4	3.6	4.8
25	3.6	3.2	3.9	3.7	2.7	2.4	4.3	6.1	5.5	3.9	3.4	3	3.4	3.6	4.7	5	5.3	6.2	5.1	3.9	3.8	2.8	2	1.3	3.9
26	1	0.1	0.3	1.4	2.5	3.8	5.6	7.9	6.9	5.8	6.7	5.5	5.5	5	4.8	4.6	5.6	6.2	4.8	4.8	4.1	5.1	5.4	5.7	4.5
27	7	7.7	7.4	7.7	8.1	8.3	8.8	8.5	8.1	8.6	8.8	7.1	7.3	7.1	6.3	4.9	4.7	4.4	4.4	2.6	1.6	1.7	2.2	2.1	6
28	1.7	1.8	1.8	1.5	2.6	2.6	1.7	2	3.2	3.2	3.3	4.4	4.9	3.8	2.5	2.4	2.6	2.2	1	2.1	0.9	0.2	0.3	0.3	2.2
29	0.2	0.4	0	0.1	1.1	1.4	1.4	2.1	2.7	2.8	2.8	3.2	4.2	3.9	4.1	6.2	6	4.3	2.7	3.3	2.7	3.7	3.3	2.2	2.7
30	1.8	1.9	3.2	3.6	3.7	5.3	4.6	5.8	5.9	5.6	4.4	5.9	8.7	7.1	6.8	7.7	9.8	10.3	6.9	5.7	3.9	4.1	5.6	6	5.6
31	6.8	5.9	5.4	6.3	4.3	4.1	4	3.8	4.3	3.6	3.6	3.8	4.6	3.1	4.8	4.3	3.8	1.9	3.4	1.8	3.4	3.9	3.3	5	4.1
Avg	3.9	3.9	3.9	3.8	3.8	4	4.2	5.2	5.9	6.2	6.2	6.4	6.7	6.5	6.4	6.3	6	5.4	4.2	3.9	3.6	3.8	3.7	3.9	4.9
SD	2.4	2.6	2.6	2.5	2.4	2.1	2.2	2.4	2.3	1.9	2	2.1	2.2	2	1.9	1.7	1.9	1.6	2	1.7	2.2	2.6	2.5	1.3	1.3
S/A	0.61	0.68	0.66	0.65	0.63	0.52	0.52	0.46	0.39	0.31	0.32	0.32	0.34	0.32	0.31	0.29	0.36	0.4	0.51	0.48	0.58	0.69	0.62	0.27	0.27
Min	0.2	0.1	0	0.1	0.1	0.4	0	0.3	0.4	2.8	2.8	2.8	2.5	2.8	2.5	2.4	2.2	1.9	1	1	0.9	0.2	0.3	0.1	2.2
Max	8.1	11	11.7	10.3	11.2	9.5	9.4	9.4	9.8	9.4	10.1	10.9	10.9	12.4	10.8	11.3	10.5	11	7.4	9	9.3	12	13.5	8.4	7.7
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% 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.

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

March 2011

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	1008	1010	1011	1012	1014	1016	1017	1018	1020	1021	1022	1023	1023	1023	1023	1024	1024	1025	1025	1025	1026	1026	1025	1025	1020	
2	1025	1025	1024	1024	1023	1023	1023	1023	1024	1024	1023	1022	1021	1020	1019	1018	1019	1019	1020	1020	1020	1021	1021	1021	1023	1022
3	1024	1025	1026	1027	1028	1029	1030	1031	1032	1034	1034	1034	1034	1034	1034	1034	1034	1034	1035	1035	1035	1035	1035	1035	1032	
4	1035	1034	1034	1034	1034	1034	1034	1035	1035	1035	1035	1035	1034	1033	1032	1032	1031	1031	1031	1031	1031	1030	1030	1030	1033	
5	1029	1029	1028	1028	1028	1028	1027	1027	1028	1027	1027	1027	1026	1025	1024	1023	1023	1022	1022	1022	1021	1021	1020	1019	1025	
6	1019	1018	1017	1016	1016	1015	1015	1014	1014	1013	1012	1011	1009	1007	1005	1004	1004	1003	1002	1001	1000	1001	1003	1005	1009	
7	1006	1008	1008	1009	1011	1012	1012	1014	1015	1016	1017	1017	1017	1017	1017	1017	1018	1019	1020	1021	1022	1023	1024	1024	1016	
8	1024	1024	1024	1025	1025	1026	1027	1028	1028	1029	1029	1030	1029	1029	1029	1029	1029	1030	1030	1030	1029	1030	1030	1029	1028	
9	1029	1029	1028	1027	1028	1028	1028	1029	1028	1028	1028	1027	1027	1026	1025	1025	1024	1024	1022	1022	1022	1022	1022	1021	1026	
10	1020	1019	1018	1017	1016	1015	1014	1014	1014	1014	1013	1012	1011	1009	1008	1007	1006	1006	1006	1007	1007	1007	1006	1006	1011	
11	1006	1007	1007	1007	1008	1008	1009	1010	1010	1010	1011	1011	1010	1010	1010	1010	1010	1011	1012	1013	1013	1014	1015	1015	1011	
12	1015	1016	1016	1016	1016	1017	1018	1018	1018	1018	1018	1017	1016	1015	1014	1014	1013	1013	1013	1014	1014	1014	1014	1014	1016	
13	1014	1014	1014	1014	1014	1015	1016	1017	1017	1017	1017	1017	1017	1016	1016	1016	1016	1016	1017	1017	1018	1019	1020	1020	1016	
14	1021	1022	1022	1021	1022	1022	1023	1024	1024	1025	1025	1025	1024	1024	1024	1024	1024	1024	1025	1026	1026	1027	1027	1027	1024	
15	1027	1027	1026	1026	1026	1026	1027	1027	1027	1028	1028	1027	1027	1026	1025	1024	1024	1023	1023	1022	1022	1022	1021	1020	1025	
16	1019	1019	1018	1017	1017	1017	1017	1017	1018	1018	1018	1018	1017	1017	1016	1016	1016	1017	1018	1018	1019	1019	1019	1019	1018	
17	1019	1020	1020	1020	1021	1021	1022	1023	1024	1024	1024	1024	1024	1023	1022	1022	1021	1021	1021	1021	1022	1022	1021	1021	1022	
18	1020	1019	1019	1018	1018	1018	1018	1018	1018	1017	1017	1016	1015	1014	1013	1013	1012	1013	1013	1013	1013	1013	1013	1014	1016	
19	1014	1014	1014	1013	1014	1015	1016	1018	1019	1021	1022	1022	1022	1022	1022	1022	1023	1024	1025	1026	1026	1027	1027	1028	1021	
20	1028	1028	1029	1029	1030	1031	1032	1033	1034	1034	1034	1034	1034	1033	1032	1032	1031	1031	1031	1031	1031	1031	1030	1030	1031	
21	1029	1028	1027	1026	1026	1024	1024	1024	1023	1022	1021	1019	1018	1016	1015	1014	1014	1013	1013	1013	1012	1013	1014	1013	1019	
22	1012	1011	1010	1010	1010	1010	1011	1011	1011	1012	1012	1013	1012	1012	1011	1010	1010	1011	1011	1012	1012	1012	1012	1011	1011	
23	1010	1009	1008	1007	1007	1007	1007	1007	1006	1006	1005	1004	1003	1002	1000	999	998	996	996	996	995	997	996	997	1002	
24	996	996	995	995	996	997	997	998	999	1000	1002	1003	1004	1005	1005	1006	1007	1008	1009	1010	1011	1011	1012	1012	1003	
25	1013	1013	1013	1013	1014	1014	1015	1016	1016	1016	1015	1014	1014	1013	1012	1012	1011	1012	1013	1013	1013	1013	1013	1012	1013	
26	1012	1012	1012	1012	1012	1014	1014	1015	1015	1016	1016	1015	1015	1014	1014	1014	1013	1013	1013	1013	1014	1014	1013	1013	1014	
27	1011	1011	1010	1010	1010	1010	1010	1011	1012	1012	1013	1013	1013	1013	1012	1013	1013	1014	1014	1014	1015	1016	1016	1016	1013	
28	1016	1015	1015	1015	1015	1015	1016	1017	1016	1017	1017	1017	1016	1016	1015	1015	1015	1015	1016	1016	1017	1017	1017	1017	1016	
29	1017	1017	1017	1018	1018	1019	1020	1021	1021	1022	1022	1021	1021	1020	1019	1019	1019	1019	1019	1019	1020	1021	1021	1020	1020	
30	1020	1020	1019	1019	1019	1018	1019	1019	1019	1018	1018	1017	1015	1014	1013	1011	1009	1007	1007	1006	1006	1006	1005	1005	1014	
31	1005	1004	1003	1003	1003	1004	1004	1005	1005	1005	1006	1004	1004	1004	1003	1002	1001	1001	1001	1001	1001	1000	999	997	1003	
Avg	1018	1017	1017	1017	1017	1018	1018	1019	1019	1019	1019	1019	1018	1018	1017	1017	1017	1017	1017	1017	1018	1018	1017	1018	1018	
S D	9	9	9	8	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	8		
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		
Min	996	996	995	995	996	997	997	998	999	1000	1002	1003	1003	1002	1000	999	998	996	996	996	995	997	996	997	1002	
Max	1035	1034	1034	1034	1034	1034	1034	1035	1035	1035	1035	1035	1035	1034	1034	1034	1034	1034	1035	1035	1035	1035	1035	1035	1033	
n	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

March 2011

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	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.7	13.3	12.9	12.9	12.8	12.8	12.8	12.8	13.2
2	12.7	12.7	12.7	12.7	12.7	12.6	12.8	14	13.8	13.7	13.5	13.5	13.4	13.4	13.4	13.4	13.4	13.2	13	12.9	12.9	12.9	12.8	12.8	13.1
3	12.8	12.8	12.8	12.8	12.7	12.7	12.9	13.9	13.8	13.8	13.7	13.7	13.7	13.7	13.8	13.8	13.8	13.3	12.9	12.9	12.8	12.8	12.8	12.8	13.2
4	12.8	12.8	12.7	12.7	12.7	12.6	12.8	13.9	13.8	13.7	13.6	13.5	13.5	13.5	13.5	13.6	13.6	13.2	12.9	12.9	12.9	12.9	12.9	12.9	13.2
5	12.8	12.8	12.8	12.8	12.8	12.7	12.7	13.4	13.4	13.6	13.5	13.5	13.5	13.4	13.4	13.5	13.4	13.1	13	12.9	12.9	12.9	12.9	12.9	13.1
6	12.9	12.8	12.8	12.8	12.8	12.8	12.7	12.8	13.1	13.3	13.4	13.3	13.5	13.5	13.4	13	13	12.9	12.9	12.9	12.8	12.8	12.8	12.7	13
7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.8	13.7	13.7	13.6	13.6	13.5	13.5	13.5	13.5	13.6	13.1	12.9	12.9	12.9	12.8	12.8	12.8	13.1
8	12.8	12.8	12.8	12.8	12.7	12.7	13	13.9	13.7	13.7	13.6	13.5	13.5	13.5	13.5	13.6	13.6	13.3	12.9	12.9	12.9	12.8	12.8	12.8	13.2
9	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13	13.8	13.7	13.6	13.5	13.5	13.5	13.5	13.5	13.3	13	12.9	12.9	12.9	12.9	12.9	12.9	13.1
10	12.9	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.8	12.8	13.4	13.5	13.5	13.4	13.4	13.2	13.1	13	12.9	12.9	12.9	12.8	12.8	12.8	13
11	12.7	12.7	12.7	12.7	12.6	12.6	13	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.7	13.3	13	12.9	12.9	12.9	12.8	12.8	12.8	13.1
12	12.8	12.8	12.8	12.7	12.7	12.7	13	13.9	13.7	13.6	13.5	13.5	13.5	13.4	13.4	13.4	13.4	13.2	13	12.9	12.9	12.9	12.9	12.9	13.1
13	12.8	12.8	12.8	12.8	12.8	12.8	12.7	13.4	13.6	13.5	13.4	13.3	13.3	13.2	13.2	13.2	13.3	13.1	13	12.9	12.9	12.9	12.8	12.8	13.1
14	12.8	12.8	12.7	12.7	12.7	12.7	12.8	13.7	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.7	13.1	12.9	12.9	12.9	12.9	12.8	12.8	13.2
15	12.8	12.8	12.8	12.8	12.7	12.7	12.8	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.3	13.1	13	12.9	12.9	12.9	12.9	12.9	12.9	12.8	13.1
16	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13.3	13.5	13.5	13.5	13.4	13.4	13.4	13.2	13	12.9	12.9	12.9	12.8	12.8	13
17	12.8	12.8	12.8	12.7	12.7	12.7	13	13.7	13.6	13.5	13.4	13.4	13.4	13.3	13.3	13.3	13.3	13.4	13.2	13	12.9	12.9	12.8	12.8	13.1
18	12.8	12.8	12.8	12.8	12.8	12.7	13	13.6	13.5	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13	13	12.9	12.9	12.9	12.9	12.8	13
19	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.9	13.3	13.4	13.4	13.4	13.3	13.3	13.3	13.4	13.4	13.1	12.9	12.9	12.8	12.8	12.8	12.8	13
20	12.8	12.7	12.7	12.7	12.7	12.6	12.7	13.8	13.7	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13.2	12.9	12.9	12.9	12.9	12.8	12.8	13.1
21	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.9	13.1	13.3	13.5	13.4	13.4	13.3	13.3	13.3	13.3	13.1	13	12.9	12.9	12.9	12.9	12.8	13
22	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13.4	13.4	13.3	13.3	13.3	13.3	13.4	13.4	13.4	13.4	13.1	12.9	12.9	12.8	12.8	12.8	12.8	13
23	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13.3	13.6	13.5	13.5	13.4	13.3	13.4	13.2	13.4	13.4	13.1	13	12.9	12.9	12.9	12.9	12.9	13.1
24	12.8	12.8	12.8	12.8	12.7	12.7	12.8	13.2	13.5	13.3	13.6	13.5	13.5	13.4	13.6	13.6	13.6	13.3	12.9	12.9	12.9	12.8	12.8	12.8	13.1
25	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13.8	13.7	13.6	13.5	13.5	13.4	13.5	13.5	13.6	13.6	13.1	12.9	12.9	12.9	12.8	12.8	12.8	13.1
26	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.6	12.7	13.2	13.8	13.8	13.7	13.7	13.7	13.3	13.1	12.9	12.9	12.9	12.8	12.8	12.8	12.7	13
27	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13	13.3	13.5	13.7	13.7	13.8	13.6	13.8	13.4	13	12.9	12.9	12.8	12.8	12.8	13
28	12.7	12.6	12.6	12.5	12.5	12.5	12.5	12.6	13.4	13.6	13.8	13.7	13.5	13.7	13.7	13.6	13.6	13.3	13	12.9	12.9	12.8	12.8	12.8	13.1
29	12.8	12.8	12.7	12.7	12.7	12.7	13.4	13.9	13.7	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13.5	13.2	12.9	12.9	12.9	12.8	12.8	12.8	13.1
30	12.8	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13.2	13.4	13.3	13	12.8	12.7	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.8
31	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13.2	13.2	13.4	13.3	13.2	13.5	13.4	13.2	12.9	12.9	12.8	12.8	12.8	12.7	12.7	12.9
Avg	12.8	12.8	12.7	12.7	12.7	12.7	12.8	13.4	13.4	13.5	13.5	13.5	13.5	13.4	13.4	13.4	13.1	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13.1
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.4	0.3	0.1	0.1	0.1	0.2	0.2	0.3	0.2	0.1	0.1	0	0	0.1	0.1	0.1	0.1
S/A	0	0	0.01	0	0	0	0.01	0.04	0.03	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0	0	0	0	0	0	0.01	0.01
Min	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.6	12.6	12.8	13.2	13.3	13	12.8	12.7	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.8
Max	12.9	12.8	12.8	12.8	12.8	12.8	13.4	14	13.8	13.8	13.8	13.8	13.7	13.7	13.8	13.8	13.8	13.4	13	12.9	12.9	12.9	12.9	12.9	13.2
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% 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.