

February 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	29	209	280	494	575	600	521	437	281	86	18	0	0	0	0	0	0	3531
2	0	0	0	0	0	0	0	12	47	129	260	209	267	102	415	281	119	14	0	0	0	0	0	0	1855
3	0	0	0	0	0	0	0	47	207	385	521	609	631	585	472	312	129	11	0	0	0	0	0	0	3909
4	0	0	0	0	0	0	0	39	212	377	493	590	612	538	240	29 ?	20	2	0	0	0	0	0	0	3151
5	0	0	0	0	0	0	0	6	23 ?	63 ?	74	111	114	154	121	53	10 ?	3	0	0	0	0	0	0	733 ?
6	0	0	0	0	0	0	0	65	235	424	454	456	410	346	287	228	75	14	0	0	0	0	0	0	2993
7	0	0	0	0	0	0	0	66	234	409	539	623	578	549	495	291	131	17	0	0	0	0	0	0	3933
8	0	0	0	0	0	0	0	36	173	259	205	222	188	78	55 ?	38 ?	36	11	0	0	0	0	0	0	1302 ?
9	0	0	0	0	0	0	0	47	216	371	506	573	606	582	494	349	143	13	0	0	0	0	0	0	3898
10	0	0	0	0	0	0	1	37	191	385	415	380	356	216	137	81	36	6	0	0	0	0	0	0	2241
11	0	0	0	0	0	0	0	10	50	173	274	358	213	132	104	58	40	18	0	0	0	0	0	0	1431
12	0	0	0	0	0	0	2	60	243	433	580	666	684	632	536	373	176	34	0	0	0	0	0	0	4421
13	0	0	0	0	0	0	3	69	251	441	589	673	689	636	530	345	140	25	0	0	0	0	0	0	4391
14	0	0	0	0	0	0	0	13	68	70	113	237	218	358	333	232	165	33	0	0	0	0	0	0	1840
15	0	0	0	0	0	0	3	66	240	419	562	653	668	621	525	361	172	40	0	0	0	0	0	0	4330
16	0	0	0	0	0	0	1	24	71	157	233	224	211	264	269	82 ?	17 ?	5	0	0	0	0	0	0	1559
17	0	0	0	0	0	0	3	25	87	164	390	376	328	529	416	313	105	16	0	0	0	0	0	0	2751
18	0	0	0	0	0	0	3	30	224	414	506	645	688	634	536	293	109	21	0	0	0	0	0	0	4102
19	0	0	0	0	0	0	0	14	81	101	128	151	99	85	65	49 ?	?	2	0	0	0	0	0	0	775 ?
20	0	0	0	0	0	0	5	49	159	276	473	705	712	668	566	400	199	44	0	0	0	0	0	0	4257
21	0	0	0	0	0	0	9	87	275	409	410	175	143	505	339	328	167	35	0	0	0	0	0	0	2882
22	0	0	0	0	0	0	6	87	277	463	609	700	710	659	559	389	181	19	0	0	0	0	0	0	4660
23	0	0	0	0	0	0	11	103	193	440	568	651	696	652	556	326	180	42	0	0	0	0	0	0	4418
24	0	0	0	0	0	0	9	57	161	328	397	426	218	286	97	59	28	9	0	0	0	0	0	0	2075
25	0	0	0	0	0	0	17	96	254	411	582	675	791	658	591	431	227	54	0	0	0	0	0	0	4787
26	0	0	0	0	0	0	13	106	316	505	646	739	727	683	537	429	230	53	0	0	0	0	0	0	4984
27	0	0	0	0	0	0	10	68	201	332	311	241	318	163	193	84	47	16	0	0	0	0	0	0	1983
28	0	0	0	0	0	0	15	97	286	500	650	745	765	713	602	433	217	48	0	0	0	0	0	0	5071
29	0	0	0	0	0	0	8	77	141	169	130	315	158	210	129	143	87	41	0	0	0	0	0	0	1609

Avg	0	0	0	0	0	0	4	52	184	320	418	473	462	440	367	244	117	23	0	0	0	0	0	0	3099
S D	0	0	0	0	0	0	5	30	81	135	173	209	239	220	186	141	69	16	0	0	0	0	0	0	1361
S/A	0	0	0	0	0	0	1.24	0.57	0.44	0.42	0.41	0.44	0.52	0.5	0.51	0.58	0.59	0.7	0	0	0	0	0	0	0.44
Min	0	0	0	0	0	0	0	6	23	63	74	111	99	78	55	29	10	2	0	0	0	0	0	0	733
Max	0	0	0	0	0	0	17	106	316	505	650	745	791	713	602	433	230	54	0	0	0	0	0	0	5071
n	0	0	0	0	0	0	55	344	339	345	348	348	348	347	342	327	324	239	0	0	0	0	0	0	3707

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.7% exceed the 15% QC threshold -- 3770 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.

February 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	*
2	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	*
4	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	*
6	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	*
8	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	*
10	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	*
12	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	*
14	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	*
16	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	*
18	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	*
20	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	*
22	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	*
24	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	*
26	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	*
28	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	*

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	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	0	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	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	N/A	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

Daylight Data Recovery: 100.0% missing; 0.0% untested; 0.0% exceed the 15% QC threshold -- 3770 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.

February 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	19	77	147	151	77	89	100	125	64	39	15	0	0	0	0	0	0	901
2	0	0	0	0	0	0	0	12	47	129	228	185	158	96	101	53	33	7	0	0	0	0	0	0	1048
3	0	0	0	0	0	0	0	18	41	53	61	63	64	57	56	46	27	6	0	0	0	0	0	0	492
4	0	0	0	0	0	0	0	20	51	60	89	106	79	153	144	24	20	2	0	0	0	0	0	0	749
5	0	0	0	0	0	0	0	6	18	55	74	111	114	154	121	53	11	3	0	0	0	0	0	0	722
6	0	0	0	0	0	0	0	30	61	138	257	301	247	277	218	160	73	14	0	0	0	0	0	0	1776
7	0	0	0	0	0	0	0	41	65	67	66	74	109	118	91	90	90	16	0	0	0	0	0	0	828
8	0	0	0	0	0	0	0	29	140	245	204	222	187	78	44	25	36	11	0	0	0	0	0	0	1221
9	0	0	0	0	0	0	0	29	56	97	191	228	123	75	60	47	32	9	0	0	0	0	0	0	945
10	0	0	0	0	0	0	?	28	96	119	186	301	314	216	137	81	36	6	0	0	0	0	0	0	1520
11	0	0	0	0	0	0	0	10	50	173	264	322	213	132	104	58	40	18	0	0	0	0	0	0	1384
12	0	0	0	0	0	0	?	24	52	62	65	65	66	64	61	53	37	13	0	0	0	0	0	0	562
13	0	0	0	0	0	0	2	23	43	50	55	55	57	60	66	87	101	24	0	0	0	0	0	0	625
14	0	0	0	0	0	0	0	13	68	70	113	237	218	344	237	155	44	19	0	0	0	0	0	0	1518
15	0	0	0	0	0	0	4 ?	27	55	72	79	76	74	67	62	58	42	23	0	0	0	0	0	0	639
16	0	0	0	0	0	0	1	24	71	157	233	224	211	254	260	71	15	5	0	0	0	0	0	0	1526
17	0	0	0	0	0	0	4 ?	25	87	164	271	342	316	264	179	163	81	16	0	0	0	0	0	0	1911
18	0	0	0	0	0	0	3	30	152	118	196	192	100	87	79	157	105	21	0	0	0	0	0	0	1239
19	0	0	0	0	0	0	0	14	76	101	128	151	99	85	65	40	8 ?	2	0	0	0	0	0	0	768
20	0	0	0	0	0	0	7 ?	43	148	234	295	132	90	83	78	70	51	21	0	0	0	0	0	0	1254
21	0	0	0	0	0	0	11 ?	40	88	138	271	173	143	293	269	187	126	31	0	0	0	0	0	0	1770
22	0	0	0	0	0	0	5	34	60	71	73	80	103	136	273	314	175	19	0	0	0	0	0	0	1343
23	0	0	0	0	0	0	10	39	60	94	183	172	205	430	?	300 ?	146 ?	42	0	0	0	0	0	0	1679 ?
24	0	0	0	0	0	0	12 ?	57	116	163	233	273	217	286	97	59	28	9	0	0	0	0	0	0	1549
25	0	0	0	0	0	0	23 ?	64	144	212	331	487 ?	?	?	?	?	159 ?	54	0	0	0	0	0	0	1474 ?
26	0	0	0	0	0	0	9	39	112	290	473 ?	?	?	?	488 ?	?	159 ?	53	0	0	0	0	0	0	1624 ?
27	0	0	0	0	0	0	14 ?	65	195	327	311	241	318	163	193	84	47	16	0	0	0	0	0	0	1972
28	0	0	0	0	0	0	18	97	270 ?	?	?	?	?	?	?	?	188 ?	48	0	0	0	0	0	0	622 ?
29	0	0	0	0	0	0	10	77	141	169	130	315	158	210	122	143	87	41	0	0	0	0	0	0	1603

Avg	0	0	0	0	0	0	5	34	91	135	186	193	157	165	143	102	70	19	0	0	0	0	0	0	1216
S D	0	0	0	0	0	0	6	21	55	74	103	108	81	102	100	76	53	15	0	0	0	0	0	0	452
S/A	0	0	0	0	0	0	1.3	0.62	0.6	0.55	0.55	0.56	0.52	0.62	0.7	0.75	0.76	0.78	0	0	0	0	0	0	0.37
Min	0	0	0	0	0	0	0	6	18	50	55	55	57	57	44	24	8	2	0	0	0	0	0	0	492
Max	0	0	0	0	0	0	23	97	270	327	473	487	318	430	488	314	188	54	0	0	0	0	0	0	1972
n	0	0	0	0	0	0	42	340	343	335	327	319	312	312	302	306	315	239	0	0	0	0	0	0	3496

Daylight Data Recovery: 0.0% missing; 0.0% untested; 7.3% exceed the 15% QC threshold -- 3770 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**

**February 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	10.7	10.9	11.3	10.5	10.6	11.4	11.2	11.2	12.2	14	16.1	17.9	19.5	20.1	20.8	20.8	19.9	18.3	17.3	16.9	16.4	15.5	15.2	14.2	15.1
2	13.4	12.7	12.8	12.6	12.6	12.8	13	13.2	13.7	14.2	15	15.9	15.6	12.9	13.4	15.4	15.5	14.3	12.8	11.4	10.1	9.5	9.1	8.2	12.9
3	7.4	6.6	6	5.6	5.2	4.7	4.3	4.3	5.2	6.4	7.4	8.4	9.3	10	10.3	10.5	10.3	8.7	6.9	5.9	5.3	5.3	5	4.4	6.8
4	4	3.5	3.9	4	4	4.5	4	4.5	6.8	9.3	11.5	13.1	14.5	15.3	15.6	14.8	13.9	12.4	10.4	9.9	9.3	8.7	8.6	8.6	9
5	7.6	6.6	6.7	6.8	6.9	6.9	6.7	6.6	6.5	6.3	6.3	6.3	6.4	6.5	6.6	6.6	6.2	5.6	5.1	4.7	4.1	3.5	3.1	2.6	5.9
6	2.1	1.8	2	2.2	1.4	-0.1	-1.2	-0.3	2.5	5.5	6.8	7.8	8.4	8.9	9.7	9.7	9.5	9	8	7.5	7.3	7.2	6.9	7.3	5.4
7	7.2	7.5	7	6.4	5.5	4.6	4.2	4.3	6.5	8.7	10.3	11.7	12.6	12.9	12.9	12.7	12.2	10.7	8.9	8	7.6	7.1	5.6	4.9	8.3
8	4.8	4.3	3.6	3.4	3.5	3.6	3.6	3.7	5.6	7.6	10	11	11.2	10.7	10.1	8.7	7.8	7.3	7.1	6.8	6.2	5.6	5.4	5.4	6.5
9	5.3	5.3	5.2	4.6	3.6	2.8	2.3	1.5	2.6	3.9	4.9	5.7	6.7	7.7	8.4	9.3	9.1	7.7	6.1	4.9	4.7	4.5	4.1	3.3	5.2
10	3.2	3	2.9	2.9	2.4	2.8	2.5	2.8	4.5	7.7	9	9.5	10	10.1	10.1	10	9.5	9	8.4	8.1	7.7	7.2	6.9	6.7	6.5
11	6.8	7	7	6.7	6.4	6.4	6.3	6.2	6.3	6.8	7.9	8.9	8.6	7.5	6.4	6.2	6.2	5.6	1.8	2.2	1.7	0.3	-0.7	-1.8	5.3
12	-2.9	-3.5	-3.3	-3.6	-3.9	-4.6	-4.5	-4.3	-3.5	-2.7	-2.2	-1	-0.2	1.1	1.8	2.6	3.1	2.5	1.3	0.7	-0.1	-0.6	-0.9	-1	-1.2
13	-1.3	-1.6	-2.4	-3	-3.3	-3.8	-4.4	-4.3	-1.6	1.5	3.2	5.6	7.5	7.6	7.7	8.1	7.6	6.9	5.2	4.3	4.1	3.8	3.4	3.2	2.3
14	2.9	3.2	3.9	4.2	4.3	4.4	4.7	4.8	5.2	6.1	6.9	8.1	9.1	9.6	10.5	10.5	11.3	10.3	8.9	8.2	7.4	7.5	8.3	8.5	7
15	8.4	8.5	8.2	8.1	7.8	7.6	7.4	7.1	8.3	10.2	11.4	12.5	13.4	14.5	15.5	15.7	14.5	10.8	8.8	7.9	7.2	6.7	5.6	4.8	9.6
16	4.5	4.4	4.5	4	3.6	4.2	5	5.8	7.2	8.6	10.1	10.9	11.1	11.9	12.6	11.6	10.8	10.3	10.3	9.9	9.9	10	10	10.1	8.4
17	9.8	9.1	8.7	7.9	7.3	7	6.8	6.9	7.3	7.9	9.4	11.4	11.9	11.8	12.6	13.4	12.9	11.7	10.3	9.1	8.1	7.5	7.1	6.7	9.3
18	6.1	5.8	6.1	6.3	5.8	5.7	5.8	6.2	8.3	10.2	10.7	11.2	12	12.6	13	12.8	12	11.1	10.3	10.1	10.5	10.7	10.5	10.6	9.3
19	10.9	10.9	11.2	9.8	8.5	7.8	7.9	7.5	7.4	7.6	7.5	6.7	6.3	6	5.8	5.5	5.6	5.8	5.9	6.1	5.8	5.3	5	3.9	7.1
20	3	2.3	1.5	1.7	1.7	2.7	2.5	2.6	3.5	4.2	5.2	6.3	7.3	7.5	7.4	7.8	7.8	6.5	5	4	3.4	3	2.3	1.2	4.2
21	0.1	-0.3	-0.1	0.1	-0.2	0.3	0.5	1.6	4.8	6.9	9.4	10.1	8.8	9.4	11.2	11.7	12.3	12.2	12	11.8	12.1	11.9	12	11.7	7.1
22	11.2	10.6	10.3	10.3	10.7	10.1	10	10.3	11.5	13.1	15	16.6	18.2	18.6	19.3	19.6	19.6	17.8	16.4	15.6	14.7	14	13.6	13.6	14.2
23	13.3	13.5	13.8	12.6	10.8	10.4	10.1	10.2	12	14.5	16.5	18.1	19.3	20.7	21.8	22.2	22.3	21.7	19.9	18.1	17.1	16.3	16.5	16.3	16.2
24	16.5	17	16.8	17.3	17.7	18.7	19	19.7	20.6	21.9	22.3	23	22.7	22.3	22.5	21.3	20.5	19.7	19.3	19.2	18	15.5	14.8	14.3	19.2
25	12.4	10.3	8.9	8	7	6.3	5.6	5.9	6.6	7.2	8.1	8.6	9.2	9.7	10	10.3	10.3	9.6	8.4	7.5	6.5	5.4	4.4	3.6	7.9
26	2.8	2	1.7	1	-0.3	-0.8	-0.9	0.1	2.7	4.1	5.3	6.6	7.6	8.1	8.1	8.3	8.5	8.1	6.5	5.4	4.9	4.7	4.5	4.2	4.3
27	3.9	3.8	3.9	3.4	3.3	2.7	3.5	4.4	6.6	8.9	10.8	12	13.6	13.4	14	13.7	13.3	12.7	11.7	10.9	10.7	10.7	10.4	10.5	8.9
28	10.5	10.8	10.5	9.1	8.3	7.6	7	7	8.7	10.6	11.8	12.4	13.1	13.5	13.2	12.2	10.7	8.9	7.5	6.7	6.5	6.4	6.3	6.3	9.4
29	6	6.1	6.7	6.8	7.7	8.6	9.5	10.6	13.1	15	16.1	17.5	18.7	18.7	18.9	19.7	19.9	20.1	19.5	19	18.6	18.6	18.8	18.7	14.7

Avg	6.6	6.3	6.2	5.9	5.5	5.4	5.3	5.5	6.9	8.5	9.8	10.8	11.5	11.7	12.1	12.1	11.8	10.9	9.7	9	8.5	8	7.7	7.3	8.4
SD	4.6	4.7	4.7	4.6	4.6	4.9	5	5	4.7	4.7	4.8	4.9	5	4.9	5	5	4.9	4.8	4.9	4.9	4.8	4.7	4.9	5	4.4
S/A	0.7	0.75	0.76	0.79	0.85	0.91	0.95	0.9	0.68	0.56	0.49	0.45	0.43	0.42	0.42	0.41	0.41	0.44	0.51	0.54	0.57	0.59	0.64	0.69	0.52
Min	-2.9	-3.5	-3.3	-3.6	-3.9	-4.6	-4.5	-4.3	-3.5	-2.7	-2.2	-1	-0.2	1.1	1.8	2.6	3.1	2.5	1.3	0.7	-0.1	-0.6	-0.9	-1.8	-1.2
Max	16.5	17	16.8	17.3	17.7	18.7	19	19.7	20.6	21.9	22.3	23	22.7	22.3	22.5	22.2	22.3	21.7	19.9	19.2	18.6	18.6	18.8	18.7	19.2
n	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	8352

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8352 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.

Prepared by: Afshin M. Andreas, NREL

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

**February 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	67.6	62	58.3	62.7	64.2	63.2	66.1	69.5	72.2	69.4	61	56.6	55.8	56.8	56.9	57.8	61.6	68.7	74.3	76.5	77.7	81.5	88	97.7	67.8	
2	102.8	?	?	?	?	?	?	?	?	?	102.7	98.2	97.5	102.2	96.9	83.8	81	87.8	95.7	100.8	104.5 ?	?	100.5 ?	96.4	96.5 ?	
3	94.1	96.9	96.4	90.7	89.6	90.8	92.8	94	87.6	82.3	79	74.1	69.9	65.2	62.4	61.7	61	76.5	90.8	95	97.2	96.8	99.7	101.2	85.2	
4	102	103.4	104.1	104.3 ?	104.7 ?	103.9	104.9 ?	104.5 ?	98.8	87.5	74.3	67.5	63.4	60.6	66.4	74	82.4	98.2	?	?	?	?	?	?	89.2 ?	
5	?	?	?	?	?	?	?	?	?	?	?	104.4 ?	104.2	102.1	100	99.2	101.1	100.5	96.2	94.7	97.4	98.8	100.1	101.5	100 ?	
6	101.3	101	99.8	97.7	99.3	102.4 ?	?	?	?	101.1 ?	89.6	83.8	78.6	74.9	74.2	72.7	73.9	76	81.5	89.3	89.7	90.8	92.9	95.4	94.4	89.1 ?
7	96.2	94.2	92.8	92.9	95.3	98.4	99.8	99.3	91.2	78.1	68	60.9	57.6	56.8	54.2	53.6	55.1	62.7	73.5	75.6	82.1	90.5	97.2	98.6	80.2	
8	100.7	103	104 ?	?	?	102.9	102.1	104.7 ?	104.9 ?	104.6 ?	98.5	91.3	90.5	94.6	95.6	102.7 ?	?	?	?	104.9 ?	103.9	104	104.1	104.6	101.1 ?	
9	?	?	101.3	98.7	99.5	100.2	98.4	103 ?	100.7	82.8	79.2	76.6	69.8	57.7	51	47.5	47.6	52.5	66.9	83.6	86.7	88.4	89.6	94.6	80.7 ?	
10	96.7	99	101.6	103.7	?	?	?	?	103.3 ?	91.8	81.2	74.7	71.4	73.7	72.2	76.3	84	88.4	94.6	102	105 ?	?	?	?	89.4 ?	
11	?	?	?	?	?	?	?	?	?	103.6 ?	99.1	93.1	89.3	89.9	94.7	91.1	88.9	90.8	?	101.5	92.6	69.8	62.1	61.8	87.7 ?	
12	60.9	61.8	64.1	81.8	83.3	93.8	87.8	77.6	62.5	60.2	55.9	52.5	47.5	45.3	44.7	43.3	42.3	45.6	53.4	55.8	58.1	62.5	66.3	66	61.4	
13	68	69.3	72.1	76.2	76.2	79	82.9	84.9	72.5	59.8	53.3	45.4	37.7	39.9	47.8	45.1	36.6	46.1	50.3	63	73.3	78.8	86.6	93.4	64.1	
14	96.4	94.6	91.8	89.7	87	85.7	86.1	89.8	91	89.6	87.2	87	83.3	82.1	81.3	85	78.3	83.7	87.8	94.8	98.9	95.9	83.6	82.6	88	
15	85.1	85.5	87.2	86.4	88	90.7	93.2	95.9	93.9	86.1	76.4	67.5	63	58.9	51.7	48	58.3	79.6	88.2	91.7	94.7	97.9	102.1	102.7	82.2	
16	103.6	104.1	103.9	104.7 ?	?	?	?	?	?	102.2	98.1	93.6	91.3	91.9	93.2	98.2	103.4 ?	?	?	?	?	?	?	?	99 ?	
17	?	?	?	?	?	?	?	?	?	?	102 ?	97.4	93.3	90.9	85.5	80	80	84.7	91.9	99	102.2	104.4	?	?	92.6 ?	
18	?	?	?	103.8	?	?	?	103.3 ?	90	70.2	66	62.4	58.5	59.1	57.3	60.4	67.5	74	82.8	89.6	94.1	96.9	97.7	98	79.5 ?	
19	98	99	98.6	84.9	90.1	98.8	100.4	98.6	100.5	103.6	101.4	103 ?	?	?	?	?	?	?	?	?	?	103.6	102.8	104.4	99.2 ?	
20	104.9 ?	?	?	?	?	103.2 ?	101.1	98.4	96.4	94.3	87.3	81.6	75.2	68.5	67.4	67.3	70.4	75.3	77.9	85	90	94.3	96.8	100.9	86.8 ?	
21	104.2 ?	?	?	?	?	?	?	103.1 ?	97.9	95.7	90.1	87.8	96.9	99	92.9	92.4	94.5	96.7	98.6	100.7	103.3	104.6 ?	?	?	97.4 ?	
22	?	?	?	?	103.3	104.1	104	102.8	99.6	92.5	79.9	66.1	55.1	53.7	46.7	49.2	54.8	72.7	83.6	81.3	79.4	86.2	93.7	97.6	80.3 ?	
23	99.6	99.6	99.3	100.8	?	?	?	?	102.5 ?	97.3	92	88.9	86.5	82.2	76.4	76.1	76.3	78.3	85.2	94.7	103	104.8 ?	104.2	104.4	92.6 ?	
24	103.6	102.3	103.5	104	104.5	102.9	102.1	100.3	98	94.2	92.9	91.3	92	94.7	92.4	91.5	92.6	94.7	96.5	99.6	103.8 ?	88.4	79.8	56.8	95.1	
25	55	59	59	59.9	60.3	62.1	66.2	70	67.7	55	49.2	47.9	44.8	41.2	38.9	37.4	36.4	38.3	41.7	43.2	43.1	45.8	46	46.8	50.6	
26	50.8	55.9	58.4	62	72.1	76	74.4	73.5	62	57.8	57.3	55.1	52.9	53.3	59.5	60.7	53.2	54.1	69.1	80.2	89.9	94.4	95.7	96.6	67.3	
27	97.5	97.2	97.9	100.1	101.9	103.1	102.2	102.4	98.3	93.2	90.4	84.3	71.8	74.5	69.6	76.6	86.5	91.5	99.3	?	?	?	?	?	91.5 ?	
28	?	?	?	?	?	?	?	?	?	94.1 ?	66.8	60.6	67.5	64.6	62.9	65.1	69.4	75.5	81.9	87	92.3	94.7	98.7	103.4 ?	?	79 ?
29	?	?	?	?	?	?	?	?	102.3	100.1	101.5	101.1	99.4	99.1	99.3	95.4	94.3	92.3	97.9	101.2	103.2	103.5	102.6	102.4	99.7 ?	

Avg	89.9	88.2	89.2	89.7	88.7	92.3	92	93.4	91.2	84.9	81	77.8	73.5	72.5	71.2	71.3	71.8	76.8	82.2	87.9	90.8	91	91.2	91.1	85.3 ?
S D	17.8	17.7	17.3	15.1	14.2	13.8	12.9	12.2	13.4	15.5	16.6	17.4	18.5	19.5	19.1	19.1	19.2	17.4	16	15.5	15.2	14.6	15.1	17	12.9
S/A	0.2	0.2	0.19	0.17	0.16	0.15	0.14	0.13	0.15	0.18	0.21	0.22	0.25	0.27	0.27	0.27	0.27	0.23	0.2	0.18	0.17	0.16	0.17	0.19	0.15
Min	50.8	55.9	58.3	59.9	60.3	62.1	66.1	69.5	62	55	49.2	45.4	37.7	39.9	38.9	37.4	36.4	38.3	41.7	43.2	43.1	45.8	46	46.8	50.6
Max	104.9	104.1	104.1	104.7	104.7	104.1	104.9	104.7	104.9	104.6	102.7	104.4	104.2	102.2	100	102.7	103.4	100.5	99.3	104.9	105	104.8	104.2	104.6	101.1
n	237	215	222	218	188	205	196	204	256	296	328	335	336	336	336	331	317	311	288	287	275	269	267	264	6524

Data Recovery: 0.0% missing; 0.0% untested; 21.9% failed QC -- 8352 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**

**February 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	10.3	9.7	9.8	10	9.7	10.2	10.6	10.7	11.8	14.8	17.2	20.2	22.2	23.2	23.4	23.8	23.4	20.9	18.3	16.9	16.5	16	15.6	15	15.8
2	13.8	13	12.6	12.5	12.5	12.7	12.9	13.2	13.5	14.1	15.1	17	18	17.2	15.7	17.5	18.3	17.3	13.9	11.7	10.2	9.1	9	8.2	13.7
3	7	6	5.3	4.8	4.2	3.5	2.9	2.8	5	8.1	10.6	12.8	14.8	15.9	16	15.8	15.5	13.2	8.8	6.2	4.8	4	3.6	2.8	8.1
4	2.1	1.4	1.1	1.6	2	2.6	2.5	2.5	4.9	10.1	14.4	17.7	19.7	20.5	20.7	18.5	16	14.5	12.8	11.2	10.6	9.9	9.3	9.2	9.8
5	9	8	7.4	7.2	7.2	7.2	7.2	7.1	7	6.9	6.9	7	7.4	7.7	8.1	8.1	7.6	6.9	6.3	5.6	4.3	3.1	2.2	1.4	6.5
6	0.9	0.4	0.2	0.3	-0.1	-0.8	-1.8	-2.1	0.9	6.2	10.5	13.3	14.1	14.2	14.4	14	12.9	11.2	9.4	8.1	7.4	7.3	7.2	7.3	6.5
7	7.4	7.6	7.7	7.1	5.6	4.3	3.3	3.2	6	9.9	13.1	15.9	18.1	18.6	18.5	18.4	16.9	14.2	10.8	8.5	7.3	6.2	4.7	3.2	9.9
8	2.5	2.2	2	1.6	1.7	1.9	2	2.2	3.8	6.9	9.8	11.7	13.1	13.1	12.2	10.6	9	8.1	7.6	7.4	6.9	6	5.6	5.5	6.4
9	5.6	5.5	5.5	5.1	3.9	2.8	1.8	1.2	2.7	6	8.3	10.5	11.8	13.3	13.7	14.1	14.5	11.9	7.2	4.9	4	3.4	2.7	1.9	6.8
10	1.2	0.9	0.6	0.6	0.6	0.6	0.8	0.8	2.4	7	11.9	13.2	13.4	13.3	12.6	12.1	11.3	10.5	9.7	8.5	8	7.6	7.3	7.1	6.7
11	7.1	7.1	7.2	7.2	6.9	6.8	6.6	6.4	6.5	6.9	8.4	10.5	11.8	11.2	9.6	8.3	7.5	6.8	5.1	3	2.1	1	0	-0.8	6.4
12	-1.8	-3.2	-3.7	-3.5	-3.6	-3.9	-4.4	-4.8	-3.1	-0.5	1.5	3.2	4.6	5.1	5.4	5.5	5.9	5.5	2.7	0.4	-1	-1.9	-2.6	-3.1	-0.1
13	-3.3	-3.8	-4.2	-4.9	-5.5	-6.1	-6.8	-6.5	-2.3	3.3	7.8	10.7	14	15.1	14.2	13.2	12	9.7	6.8	4.8	3.8	3.2	2.9	2.2	3.3
14	1.6	1.9	2.5	3.2	3.6	3.8	4.1	4.4	4.7	5.7	6.6	8.1	10	11.4	12.8	13.1	13.7	13.6	10.9	8.7	7.5	6.7	6.9	7.6	7.2
15	8.2	8.4	8.1	7.6	7.1	6.8	6.5	6.5	8.9	12.3	14.8	16.7	18.4	19.7	20.2	20.2	19.9	17.3	12.3	8.7	6.7	5.7	4.6	3.5	11.2
16	2.7	2.9	3.1	2.7	2.1	2.2	3.1	4.1	5.3	7.2	9.5	11.4	12.5	13	14.2	14.6	13.2	11.7	11.1	10.8	10.5	10.4	10.4	10.4	8.3
17	10.4	10.1	9.7	9.3	8.6	8	7.7	7.5	7.8	8.6	10.3	13.4	15	15.4	16.7	17.5	17.5	15.3	12.4	9.8	8.1	6.9	6.3	5.9	10.8
18	5.3	4.9	4.9	5.2	5.3	5.1	4.7	4.8	6.3	10.8	14.2	15.8	16.9	17.5	18	17.7	16.2	13.8	11.7	10.3	9.8	9.8	10.1	10.2	10.4
19	10.5	10.7	10.8	10.9	10.1	9	8.5	8	7.7	7.9	8.2	8.2	7.5	7.1	6.8	6.5	6.1	6	6.1	6.2	6.2	5.9	5.5	5.1	7.7
20	4.2	3.4	2.5	2	1.9	2	2.3	2.3	3.1	4.7	6.5	9.1	11.2	12	11.7	11.8	12.1	11.1	7.5	4.2	2.2	1	0.1	-0.9	5.3
21	-1.6	-2.2	-2.5	-2.6	-2.7	-2.7	-1.9	-0.9	2.8	7.3	11.3	13.4	12.5	11.4	13	14.3	14.9	15	13.1	11.8	11.3	11.2	11.3	11.2	7
22	10.9	10.4	10	9.7	9.6	9.4	9.2	9.5	11.9	14.9	18	20.7	22.5	23.1	22.9	23	23.1	21.5	18.4	16.4	15.3	14.4	13.4	13.1	15.5
23	13	13	13.2	13.3	11.8	10.3	9.7	9.9	12.3	15.6	19	21.6	23.2	24.1	24.9	25.5	25.3	24.5	22	19.2	17.7	16.7	16	15.8	17.4
24	15.7	16	16.3	16.5	16.8	17.2	18.1	18.7	19.9	22.2	23.9	25.4	25.6	24.7	24.4	23.4	22.2	21.2	20.4	19.8	18.7	17.3	14.9	14.6	19.7
25	14	11.9	9.9	8.4	7.2	6.1	5.3	5.3	6.8	8.7	10.4	11.8	12.6	12.9	12.9	13	13	12.4	10.2	8.1	6.7	5.5	4.2	3.2	9.2
26	2.2	1.1	0.2	-0.3	-1.3	-2.3	-3.1	-2.2	2.4	6.4	9.6	12.9	15	15.2	14.4	13.9	13.6	12.8	9.4	6.2	4.5	3.6	2.9	2.4	5.8
27	2.1	1.7	1.4	1	0.3	0	0.1	1.5	4.6	8.6	12	14.1	15.6	16.2	16.1	16.1	15.3	14.5	13.5	12.3	11.5	11.3	10.9	10.9	8.8
28	10.9	11	11.2	10.8	9.7	8.2	7	6.6	8.9	11.9	14.7	17.4	18.8	19.4	19.2	18.4	17.1	14.5	10.6	7.6	5.9	5.3	5	4.7	11.4
29	4.5	4.5	5	5.8	6.3	7.1	8	9.2	11.2	13.8	15.8	17.2	19.4	19.3	19	19.2	20.2	20.6	20.2	19.7	19.2	18.9	18.8	18.8	14.2

Avg	6.1	5.7	5.4	5.3	4.9	4.6	4.4	4.5	6.3	9.2	11.7	13.8	15.2	15.5	15.6	15.4	15	13.7	11.3	9.6	8.5	7.8	7.2	6.8	9.3
S D	5.1	5.2	5.3	5.3	5.2	5.2	5.4	5.4	4.8	4.5	4.6	4.8	4.9	5	5	5.1	5.1	4.9	4.8	5	5.1	5.2	5.2	5.5	4.3
S/A	0.85	0.92	0.97	1	1.06	1.15	1.23	1.19	0.76	0.49	0.39	0.35	0.33	0.32	0.32	0.33	0.34	0.36	0.42	0.52	0.6	0.67	0.72	0.8	0.46
Min	-3.3	-3.8	-4.2	-4.9	-5.5	-6.1	-6.8	-6.5	-3.1	-0.5	1.5	3.2	4.6	5.1	5.4	5.5	5.9	5.5	2.7	0.4	-1	-1.9	-2.6	-3.1	-0.1
Max	15.7	16	16.3	16.5	16.8	17.2	18.1	18.7	19.9	22.2	23.9	25.4	25.6	24.7	24.9	25.5	25.3	24.5	22	19.8	19.2	18.9	18.8	18.8	19.7
n	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	8352

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8352 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**

**February 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	2.4	2.5	3.5	2.7	2.8	2.3	2.7	2.5	2.8	3.8	4.1	4.7	4.8	5.4	4.3	3.9	3.2	1.2	1.7	1.9	1.9	2.6	1.9	1.6	3
2	1.3	0.6	1.3	0.6	0.4	2	2.3	2.2	3.1	3.8	4	3.8	4.4	4.2	2.8	3	2.3	0.6	0.5	0.6	0.5	1.9	3.3	2.3	2.2
3	1.8	2	2.4	2.3	1.6	1.4	1.2	2.1	3.6	4	3.6	3.1	2.1	2.1	2.2	1.6	1.1	0.6	1.1	1.1	1.1	1.3	0.4	0.2	1.8
4	0.1	0.1	1.1	0.8	1.2	0.6	0.5	0.3	1.2	1.9	1.9	2.1	2.6	2.4	2.7	1.7	0.4	0.1	1.3	0.8	1.8	1.7	0.3	0.2	1.2
5	1.7	1.8	0.9	1.1	1.1	1.3	1.8	1.8	2.6	2.8	2.8	3.7	3.1	3.7	3.9	3.8	3.5	4.3	3.7	2.7	1.6	1.6	0.6	0.7	2.3
6	0.5	1.2	1.1	0.6	0.4	0.1	0.2	0	0.4	1.6	1.3	1	1	0.8	1	1.1	0.8	0.7	1	1.3	0.7	0.2	0.5	0.6	0.8
7	1	1.3	1.8	1.6	1.2	1	1.4	1.3	2.6	3.5	3.2	2.8	2.3	2.4	1.9	1.7	1.3	1.2	1.3	0.3	0.4	0.3	0	0.1	1.5
8	0.1	0.4	0.2	1	1.5	1.9	2	1.4	2	2.3	2.6	2.4	2.9	2.5	2.5	2.2	3.3	3.3	2.8	2.6	2.6	1.6	1	0.9	1.9
9	1.3	1.5	2.9	3.1	2.5	1.6	1.5	1.1	2	4	3.3	2.8	2.2	2	1.8	0.9	0.8	0.2	1	1.8	1.4	1.2	1	0.7	1.8
10	1.1	0.6	0.7	0.9	0.9	1.2	0.5	0.6	0.5	1.6	2.7	2.8	2.7	2.5	1.8	1.4	1.5	1.4	0.8	0.6	0.4	0.7	1.4	1.8	1.3
11	1	0	0.1	0.3	0.6	0.8	0.6	0.4	0.5	1.6	1.8	2.9	3.2	3.7	3.4	2.6	1.8	1.8	3.6	3.7	3.2	4.8	5.1	4.8	2.2
12	5.4	4.4	5.7	5.7	5.4	5.4	4.2	3.2	4.7	4.6	5.1	4.2	4.9	4.6	5	4.6	4	2.9	2.1	1.4	1.5	1.2	1.1	1.4	3.9
13	1	1.2	1	0.9	0.7	0.5	0.6	1.1	0.9	1.4	2.4	1.1	1	1.8	2.7	2.6	1.9	1.4	1.7	1.4	1.2	2	1.3	1.3	1.4
14	1.4	1.2	1.7	1.8	1.5	1.5	1.4	0.9	0.9	1.3	1.5	3	2.3	3.7	3.5	3.6	2.9	2.2	2.1	2.4	1.9	1.4	2.2	2	2
15	1.7	1	1.2	1.5	1.4	1.9	2.1	1.8	2.2	3.1	4.3	3.6	2.4	2.1	2.7	2.8	2.3	2.4	1.2	0.5	0.7	0.3	0.1	0.1	1.8
16	0.1	0	0	0	0.2	0.5	0.3	1	1.2	1.5	2.9	3.2	4.1	4.5	3.4	1.8	0.6	0.2	1.1	2.2	1.1	1.3	2.3	1.1	1.4
17	1.1	1	1.4	2.3	2.1	1.3	1.6	1.4	1.4	1.5	1.7	2	3.1	3.2	1.8	1.2	0.8	0.7	1.2	0.5	0.6	0.3	0.7	0.1	1.4
18	0	0.1	0.1	0.1	0	0	0	0.1	0.9	2.4	3.3	3.5	3.4	2.6	2.5	2.6	1.7	1.5	1	0.5	0.5	1.4	1.4	2.2	1.3
19	1.4	0.4	2.4	5.1	5.1	4.8	4.6	4.4	3.8	3.9	4.9	5.4	5.1	5.1	5.4	5.9	6.1	5.8	5.5	3	5.9	5.8	6.5	5.9	4.7
20	6.7	6.1	4.8	5.2	4.2	5.4	4	3.7	3.9	4.1	5.2	5.3	4.9	5.6	4.8	3.5	2.5	2.6	1.1	0.2	0.1	0	0	0	3.5
21	0.1	0	0.1	0	0	0.4	0.2	0.9	2	2.4	2	1.8	1.9	2.3	3.3	3.5	2.4	1.8	1.6	2.7	3.4	3	3.2	2.4	1.7
22	1.9	1.7	2.2	3.1	3	2.8	2.8	2.7	3.4	3.5	2.7	3.2	3	4	4.4	4	3.6	3.6	3.4	4	4.1	3.4	3	3.5	3.2
23	3.7	3.6	3.1	1.8	0.9	1.8	1.7	2.1	2.4	3.2	3.2	3.7	4.3	4	4.2	3.5	2.5	1.3	0.6	2	2.6	2.5	2.7	2.6	2.7
24	3.5	4.2	4.6	4.2	4	4.1	4.9	4.6	4.4	4.9	4.9	5.4	5.8	6.4	7.7	8.4	9.9	9.4	8.5	7.4	6	5.7	4.3	5.4	5.8
25	4.6	4.3	4.2	4.7	3.6	3.4	3.2	3.4	5.4	6.6	6.8	7.6	8.4	8.2	8.2	7.9	7.4	5.9	4.4	4.2	4.4	3.8	3.6	3	5.3
26	2.2	1.5	1.9	0.9	0.8	0.9	0.3	0.6	2.7	3.1	1.8	1.7	1.7	2	2.3	2.3	2.2	1.7	1.7	1.8	1.6	1.2	1.3	1.5	1.7
27	1	0.9	0.6	0	0	0.2	0.3	0.2	1.1	2.1	2.2	2	2.3	1.9	2.5	2.3	2.1	1.6	1.6	1.6	1.4	0.9	1.6	1.5	1.3
28	2	3	3	2.4	1.4	0.9	0.3	1.4	3.4	4.3	3.4	3.1	2.6	2.5	3.1	3.4	3.4	3.1	2.8	1.6	1.7	1.8	1.3	0.8	2.4
29	0.5	1.5	1.4	1.2	1.5	1.4	1	1.7	2.9	3.1	2.7	4	4	4.5	1.9	1.9	2.7	4	5	5.1	5	5.4	4.2	4.2	3

Avg	1.8	1.7	1.9	1.9	1.7	1.8	1.7	1.7	2.4	3	3.2	3.3	3.3	3.5	3.4	3.1	2.7	2.3	2.2	2.1	2	2	1.9	1.8	2.4
SD	1.6	1.6	1.5	1.7	1.5	1.5	1.4	1.2	1.3	1.3	1.3	1.4	1.6	1.6	1.7	1.8	2.1	2	1.8	1.6	1.7	1.7	1.6	1.6	1.3
S/A	0.93	0.94	0.8	0.87	0.88	0.85	0.87	0.74	0.56	0.42	0.41	0.43	0.47	0.47	0.5	0.58	0.76	0.88	0.8	0.78	0.81	0.81	0.85	0.9	0.53
Min	0	0	0	0	0	0	0	0	0.4	1.3	1.3	1	1	0.8	1	0.9	0.4	0.1	0.5	0.2	0.1	0	0	0	0.8
Max	6.7	6.1	5.7	5.7	5.4	5.4	4.9	4.6	5.4	6.6	6.8	7.6	8.4	8.2	8.2	8.4	9.9	9.4	8.5	7.4	6	5.8	6.5	5.9	5.8
n	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	8352

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8352 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**

**February 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	256	261	281	282	280	268	273	264	275	289	287	279	285	282	291	285	283	270	259	257	248	246	251	295	276
2	282	263	237	250	244	247	244	255	291	310	316	336	353	33	43	28	33	71	140	163	208	67	67	73	345
3	55	52	54	44	40	33	30	52	52	61	58	68	54	67	91	66	76	109	147	181	173	172	185	212	65
4	221	220	208	221	210	219	263	224	214	216	231	245	245	236	265	300	293	144	198	39	42	39	19	22	243
5	55	49	56	65	60	59	71	68	56	58	57	58	48	50	45	43	48	46	46	50	32	36	39	41	51
6	29	41	53	42	24	324	350	6	40	74	78	172	232	254	313	298	257	224	191	206	222	260	309	280	292
7	311	326	328	325	327	328	340	360	42	70	76	88	98	60	49	63	75	88	128	140	130	129	4	33	50
8	56	53	71	70	77	71	57	71	82	86	102	102	106	61	35	24	52	51	34	34	33	22	11	344	58
9	347	349	7	20	23	18	4	341	9	32	49	57	49	26	35	36	14	306	199	170	171	183	205	219	29
10	216	218	217	214	234	259	236	213	217	235	233	241	239	232	229	211	193	182	182	176	182	179	194	191	219
11	194	16	11	16	358	3	10	341	348	355	358	4	356	1	19	13	3	347	6	6	347	349	352	350	358
12	347	346	352	6	1	357	356	359	15	18	9	346	342	343	332	338	338	337	324	317	298	285	285	301	349
13	317	335	323	329	358	345	310	322	332	343	333	346	328	271	245	239	227	214	196	202	212	221	224	237	270
14	229	236	239	244	248	248	242	224	219	241	223	221	226	220	227	220	230	213	219	220	221	236	247	246	229
15	253	262	277	302	314	312	318	321	347	30	45	55	41	12	21	29	102	139	142	166	143	148	200	299	18
16	304	315	306	243	127	135	164	166	181	181	188	185	159	170	163	144	133	66	65	61	79	37	41	46	147
17	357	3	2	359	357	1	11	9	6	359	16	46	46	54	62	69	82	131	164	161	156	91	89	236	32
18	123	3	53	191	304	278	190	211	156	151	167	175	172	172	168	169	168	185	175	167	208	202	233	252	178
19	253	261	34	65	83	87	90	88	90	88	85	87	88	90	87	91	96	92	90	63	78	78	64	45	81
20	40	33	26	29	29	40	31	25	27	13	38	43	53	62	51	60	66	85	93	104	91	52	47	0	41
21	291	308	352	0	65	82	75	116	140	158	174	240	291	191	201	210	221	220	240	238	243	245	251	256	220
22	276	264	281	286	290	287	289	298	304	310	324	304	274	266	259	233	243	244	234	237	239	236	242	245	266
23	245	247	301	347	271	284	288	285	281	292	280	289	286	259	263	275	273	264	209	210	222	224	233	231	266
24	237	245	248	247	246	252	249	258	277	266	258	255	246	246	249	252	249	246	251	253	282	328	323	337	260
25	338	345	338	330	333	329	320	309	318	329	327	325	318	327	324	325	328	330	345	343	338	353	355	2	331
26	358	4	8	6	315	338	353	355	43	40	53	117	166	194	200	209	224	231	206	193	176	193	204	192	
27	211	188	200	357	214	138	158	162	182	190	226	249	262	286	315	293	296	309	288	243	245	274	308	305	263
28	306	318	323	343	356	1	6	40	73	75	85	111	113	108	119	123	134	140	128	137	150	161	157	140	99
29	123	135	131	124	147	151	163	187	209	222	234	235	239	247	264	251	244	241	243	243	244	246	253	250	233
Avg	314	327	332	350	348	343	333	334	0	9	8	342	320	312	311	303	281	237	224	242	253	282	301	301	322
n	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	8352

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8352 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**

**February 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	4	4.8	6.2	4.6	4.9	4.3	5.2	4.6	5.3	6.5	7.5	8.3	8.5	9	7.5	6.6	5.4	2.3	3	3.2	3.2	4.2	3.1	2.6	5.2
2	2.7	1.4	2.5	1.6	1.2	3.5	4	3.8	5.2	7	7.1	7.6	8.6	7.4	4.8	5.7	4.3	1.3	1	1.3	1.3	3.6	5.8	4.3	4
3	3.3	3.2	4	3.8	3	2.7	2.3	3.8	5.8	6.9	6.4	5.5	4.2	4.2	3.9	3.4	2.5	1.4	2.3	2	1.9	2.3	1.1	0.7	3.4
4	0.5	0.2	1.7	1.4	1.9	1.3	0.9	1.1	2.2	3	3.4	3.9	4.4	4.1	4.6	2.9	1.2	0.5	2.4	2.4	3.5	3.2	1.3	1	2.2
5	3.5	3.5	2.3	2.7	2.6	3	3.5	3.6	4.9	5.2	5.3	6.6	5.4	6.4	6.8	6.6	6	7.4	6.1	4.8	3.5	3.2	2	1.8	4.4
6	1.5	2.5	2.7	1.7	1.2	0.6	0.6	0.2	1.3	3	3	2.5	2.2	2	2.1	2.2	1.6	1.3	1.6	2	1.3	0.7	1	1.3	1.7
7	1.7	2.5	3.4	2.8	2.2	1.6	2.9	2.9	4.6	6.1	5.7	4.7	4.3	4.8	4.1	3.1	2.6	2.6	2.5	1.1	1.1	0.8	0	0.3	2.8
8	0.2	0.7	0.6	1.8	2.6	3.3	3.4	2.6	3.8	4.2	5	4.7	5.3	5	5.1	4.3	5.7	6	5.2	5.1	4.8	3.5	2.6	2.3	3.7
9	3.1	3.6	6.2	6.1	4.8	3.3	3.1	2.3	4	7.1	6	5.3	4.8	4.4	3.9	2.3	2	0.6	1.6	2.7	2.1	2.1	1.8	1.3	3.5
10	1.8	1.2	1.3	1.5	1.5	1.8	1.1	1.2	1.4	2.8	4.4	4.5	4.4	4	2.8	2.4	2.4	2.3	1.5	1.3	1.1	1.6	2.4	3.2	2.2
11	2.2	0.1	0.4	1.1	1.9	2.3	1.8	1	1.8	3.8	4	6.3	6.4	7.1	6.5	5.2	4	4	7.2	7.6	6.7	9.4	10.1	10	4.6
12	10.2	8.8	11.5	11.7	10.8	10.9	8.5	6.9	9.4	9.3	9.5	7.9	9.7	8.8	9.3	8.9	7.5	5.8	3.9	2.7	2.2	2.1	1.9	2.1	7.5
13	1.6	2	1.7	1.5	1.4	1.1	1	1.7	2.1	3.2	4.3	2.6	2.6	3.5	4.6	4.3	3.1	2.2	2.6	2.2	2	3.1	2	2.2	2.4
14	2.3	2	2.7	2.8	2.4	2.3	2.2	1.6	1.7	2.4	2.5	4.6	3.7	5.9	5.7	6	4.7	3.8	3.5	3.8	2.9	2.5	3.3	3.4	3.3
15	2.7	2	2.5	2.6	2.4	3	3.2	3.1	4.5	5.9	7.4	6.2	5.1	4.7	5.8	5.5	4.1	3.9	2.2	1.2	1.2	0.8	0.4	0.3	3.4
16	0.2	0.1	0.1	0	0.4	1.1	0.6	2	2.2	2.7	4.4	5.1	6.6	7.3	5.6	3.1	1.3	1	2.3	4.1	2.5	2.8	4.1	2.5	2.6
17	3	3	3.5	4.9	4.8	3.4	4	3.4	3.6	3.5	4.2	4.3	5.8	5.4	3.6	2.9	1.9	1.4	2	1	1.2	0.6	1.6	0.4	3.1
18	0.1	0.3	0.6	0.5	0.3	0	0.1	0.4	1.9	4	5.1	5.8	5.1	4.6	4.4	4.1	2.8	2.5	1.6	1	1	2.2	2.2	3.3	2.2
19	2.1	0.9	4.9	8.4	9.4	8.4	8.7	8.1	7.4	7.3	8.3	9.2	8.7	8.6	9.8	9.5	10.2	10.2	10.2	6.2	10.2	10.7	11.1	10.5	8.3
20	12.2	10.7	9.6	9.9	7.8	9.3	7.7	7.6	7.3	8.1	8.9	8.9	8.5	9.7	8.6	6.2	4.7	4.6	2.6	1.1	0.6	0.2	0.1	0	6.5
21	0.3	0.2	0.2	0	0	0.8	0.6	1.8	3.5	4.2	4	3.3	3.2	3.6	5.3	5.6	4.1	3	2.7	4.8	5.6	4.9	5.3	4.1	3
22	3.9	3.1	4	5.2	4.7	4.5	4.6	4.7	5.8	6	4.9	5.5	5.5	7	7.9	6.8	5.9	5.6	5.5	6.8	6.7	5.4	5	5.6	5.4
23	5.9	5.5	5.6	3.9	1.7	3	2.9	3.6	4.6	5.2	5.9	6.3	7.2	6.9	7.3	6.5	4.6	2.4	1	3.3	3.9	3.9	4.4	4	4.6
24	5.7	6.7	6.8	6.6	6.2	7	7.7	8.1	8	8.7	8.9	9.4	9.6	9.9	12	13.5	16.1	14.6	13.3	12.7	10.4	10.4	7.5	10.6	9.6
25	9	8.7	8.4	8.8	7	6.5	5	5.7	9.4	12.4	12.6	13.7	14.7	14.2	14.2	13.8	13.2	11.6	8.7	8.1	8.1	7.7	7.2	6	9.8
26	4.5	3.4	4	2.3	1.4	1.9	0.9	1.4	5	5.6	3.6	3.3	3.2	3.7	4.3	4	3.7	2.9	2.6	3	2.5	2	2.2	2.2	3.1
27	1.7	1.5	1.2	0	0	0.5	0.6	0.6	2	3.2	3.5	3.3	4.1	3.4	4.2	4.1	3.5	2.7	2.8	2.7	2.4	1.8	2.5	2.5	2.3
28	3.6	5.1	5.5	5.5	3	2.1	1.1	3	6.1	7.7	6	5	4.6	4.6	5.2	5.5	5.7	5.3	4.5	2.9	3	2.9	2	1.7	4.2
29	1.1	2.3	2.5	2.1	2.8	2.6	2	2.7	4.5	5.3	4.6	6.4	6.7	7.5	3.6	3.3	4.2	6.4	7.9	8.1	7.7	8.2	6.8	6.8	4.8

Avg	3.3	3.1	3.7	3.7	3.3	3.3	3.1	3.2	4.5	5.5	5.7	5.9	6	6.1	6	5.5	4.8	4.1	3.9	3.8	3.6	3.7	3.5	3.3	4.3
S/D	2.9	2.8	2.9	3.1	2.8	2.7	2.5	2.3	2.3	2.4	2.3	2.4	2.7	2.6	2.7	2.9	3.4	3.4	3	2.8	2.8	2.9	2.8	3	2.2
S/A	0.9	0.89	0.78	0.84	0.85	0.81	0.8	0.7	0.52	0.43	0.4	0.41	0.45	0.43	0.46	0.54	0.7	0.82	0.76	0.74	0.77	0.8	0.82	0.89	0.51
Min	0.1	0.1	0.1	0	0	0	0.1	0.2	1.3	2.4	2.5	2.5	2.2	2	2.1	2.2	1.2	0.5	1	1	0.6	0.2	0	0	1.7
Max	12.2	10.7	11.5	11.7	10.8	10.9	8.7	8.1	9.4	12.4	12.6	13.7	14.7	14.2	14.2	13.8	16.1	14.6	13.3	12.7	10.4	10.7	11.1	10.6	9.8
n	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	8352

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8352 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

February 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	1022	1022	1021	1021	1020	1021	1020	1021	1021	1021	1020	1019	1018	1017	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1017	1019
2	1016	1015	1015	1014	1014	1014	1013	1013	1013	1013	1013	1013	1013	1014	1015	1015	1016	1017	1018	1019	1020	1022	1023	1023	1023	1016
3	1024	1024	1025	1026	1026	1027	1028	1029	1030	1030	1030	1030	1029	1028	1028	1028	1028	1028	1029	1029	1029	1028	1028	1028	1028	1028
4	1027	1027	1026	1026	1025	1025	1025	1025	1025	1025	1024	1023	1021	1019	1018	1018	1017	1017	1016	1016	1017	1016	1016	1015	1021	1021
5	1015	1015	1015	1014	1014	1014	1014	1014	1015	1015	1016	1016	1015	1015	1016	1016	1017	1018	1019	1020	1021	1021	1021	1021	1022	1017
6	1022	1021	1022	1022	1022	1022	1023	1023	1023	1023	1023	1023	1022	1021	1020	1020	1019	1019	1019	1018	1018	1018	1018	1018	1018	1021
7	1017	1017	1017	1017	1017	1017	1017	1018	1018	1019	1019	1019	1018	1018	1018	1018	1018	1018	1019	1019	1019	1020	1020	1020	1020	1018
8	1020	1020	1020	1020	1020	1019	1019	1019	1019	1019	1019	1019	1018	1017	1016	1016	1016	1015	1016	1016	1016	1017	1017	1017	1017	1018
9	1018	1018	1018	1018	1019	1019	1020	1021	1022	1022	1023	1023	1022	1021	1021	1021	1021	1021	1021	1022	1021	1022	1022	1022	1022	1021
10	1022	1022	1022	1021	1021	1021	1021	1021	1021	1021	1021	1020	1018	1017	1016	1015	1015	1015	1015	1014	1013	1012	1011	1010	1018	1018
11	1009	1008	1007	1007	1006	1005	1005	1004	1005	1004	1004	1003	1002	1001	1001	1002	1002	1003	1004	1005	1005	1006	1007	1008	1005	1005
12	1009	1010	1010	1011	1012	1014	1015	1016	1017	1018	1018	1018	1017	1016	1016	1016	1016	1016	1017	1018	1018	1019	1019	1019	1019	1016
13	1020	1020	1020	1021	1021	1021	1022	1022	1023	1023	1022	1022	1021	1020	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1020
14	1019	1019	1019	1018	1018	1018	1019	1019	1019	1019	1019	1018	1017	1016	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1016	1017
15	1016	1016	1016	1016	1017	1017	1018	1019	1020	1020	1021	1021	1021	1021	1020	1021	1021	1022	1023	1023	1023	1024	1024	1024	1020	1020
16	1024	1024	1024	1023	1023	1023	1023	1023	1023	1023	1022	1021	1019	1017	1016	1016	1015	1015	1014	1014	1013	1013	1013	1013	1019	1019
17	1013	1012	1013	1013	1014	1014	1014	1015	1015	1016	1016	1016	1015	1015	1015	1015	1015	1015	1016	1016	1017	1017	1017	1017	1015	1015
18	1017	1017	1017	1017	1017	1018	1018	1019	1019	1019	1019	1018	1017	1016	1015	1014	1014	1014	1014	1014	1014	1014	1013	1014	1016	1016
19	1013	1013	1012	1013	1013	1012	1012	1012	1013	1013	1013	1012	1011	1009	1008	1007	1005	1004	1004	1006	1004	1004	1004	1005	1009	1009
20	1005	1006	1007	1008	1010	1012	1013	1015	1016	1018	1019	1020	1020	1020	1020	1022	1022	1023	1023	1024	1025	1025	1026	1025	1018	1018
21	1026	1026	1025	1025	1025	1025	1025	1024	1024	1024	1025	1024	1023	1020	1018	1017	1016	1015	1014	1014	1014	1014	1014	1013	1021	1021
22	1013	1012	1012	1011	1011	1011	1011	1011	1011	1011	1011	1010	1009	1007	1006	1005	1004	1004	1003	1003	1002	1001	1001	1000	1008	1008
23	1000	999	1000	1000	1000	1000	1001	1002	1003	1003	1003	1003	1002	1002	1001	1002	1002	1002	1002	1003	1003	1003	1002	1002	1002	1002
24	1001	1001	1000	999	999	1000	1000	1000	1000	1001	1001	1001	1000	999	999	998	997	996	996	997	998	999	1001	1002	1000	1000
25	1004	1005	1006	1007	1008	1010	1011	1011	1012	1012	1012	1012	1011	1011	1011	1012	1013	1014	1016	1018	1020	1022	1023	1023	1013	1013
26	1024	1024	1025	1025	1026	1028	1029	1029	1029	1030	1031	1031	1030	1030	1029	1029	1029	1029	1030	1029	1030	1030	1030	1030	1029	1029
27	1030	1029	1029	1029	1030	1030	1030	1030	1030	1029	1029	1028	1027	1026	1025	1025	1025	1025	1025	1025	1024	1024	1024	1024	1027	1027
28	1024	1024	1024	1024	1025	1025	1026	1027	1028	1028	1028	1028	1028	1027	1027	1027	1027	1027	1027	1027	1027	1026	1026	1026	1026	1026
29	1025	1024	1024	1023	1022	1021	1021	1021	1020	1019	1019	1017	1015	1013	1013	1013	1011	1011	1010	1009	1009	1009	1008	1008	1016	1016

Avg	1017	1017	1017	1017	1017	1017	1018	1018	1018	1019	1019	1018	1017	1016	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017
S/D	8	8	8	8	8	8	8	8	8	7	7	8	8	8	7	8	8	8	8	8	8	8	8	8	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	0.01
Min	1000	999	1000	999	999	1000	1000	1000	1000	1001	1001	1001	1000	999	999	998	997	996	996	997	998	999	1001	1001	1000	1000
Max	1030	1029	1029	1029	1030	1030	1030	1030	1030	1031	1031	1031	1030	1030	1029	1029	1029	1029	1029	1030	1029	1030	1030	1030	1029	1029
n	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	8352	

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8352 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.

**February 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	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9	13.6	13.5	13.4	13.4	13.3	13.3	13.3	13.2	12.9	12.9	12.9	12.8	12.8	12.8	12.8	12.8	13
2	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.1	13.5	13.4	13.4	13.2	13.5	13.4	13.5	13	12.9	12.8	12.8	12.8	12.8	12.8	13
3	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.5	13.8	13.7	13.6	13.6	13.5	13.5	13.5	13.5	13	12.9	12.8	12.8	12.8	12.8	12.8	12.7	13.1
4	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.2	13.8	13.6	13.5	13.4	13.4	13.4	13.3	13	12.9	12.9	12.8	12.8	12.8	12.8	12.8	12.7	13
5	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	12.9	13.2	13.4	13.6	13.5	13.1	12.9	12.8	12.7	12.7	12.6	12.6	12.5	12.5	12.8
6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13.6	13.9	13.7	13.6	13.5	13.5	13.6	13.5	13.6	13.3	12.9	12.9	12.8	12.8	12.8	12.8	12.8	13.1
7	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13.5	13.8	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	12.7	13.1
8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13	13.8	13.7	13.6	13.6	13.6	13.2	13	12.9	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13
9	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.5	13.9	13.8	13.7	13.6	13.6	13.6	13.6	13.5	13.6	13	12.9	12.8	12.8	12.8	12.8	12.8	13.1
10	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.2	13.9	13.7	13.6	13.6	13.6	13.6	13.6	13.3	13	12.9	12.9	12.8	12.8	12.8	12.8	12.8	13.1
11	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.7	13.5	13.7	13.6	13.6	13.5	13.4	13.1	12.9	12.9	12.8	12.8	12.8	12.7	12.7	12.7	13
12	12.6	12.6	12.5	12.5	12.5	12.5	12.5	13.7	14	14	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.2	12.9	12.8	12.8	12.8	12.8	12.7	13.2
13	12.7	12.7	12.7	12.7	12.6	12.6	12.5	14	14	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
14	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13	13.2	13.7	13.7	13.6	13.6	13.6	13.6	13.1	12.9	12.9	12.8	12.8	12.8	12.8	13
15	12.8	12.8	12.8	12.7	12.7	12.7	12.6	13.5	13.7	13.6	13.5	13.5	13.4	13.4	13.4	13.4	13.4	13.1	12.9	12.8	12.8	12.8	12.8	12.8	13.1
16	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13.5	13.7	13.6	13.6	13.6	13.6	13.2	13	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13
17	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.5	13.6	13.5	13.5	13.5	13.5	13.5	13.3	13	12.9	12.9	12.8	12.8	12.8	12.8	13
18	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.6	13.6	13.5	13.5	13.5	13.4	13.5	13.4	13	12.9	12.9	12.8	12.8	12.8	12.8	12.8	13
19	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.9	13.3	13.5	13.7	13.4	13.4	13.1	13	12.9	12.8	12.8	12.7	12.6	12.6	12.6	12.6	12.9
20	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.8	13.8	13.8	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.2	12.9	12.9	12.8	12.8	12.8	12.7	13.1
21	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.9	13.8	13.7	13.6	13.5	13.6	13.7	13.6	13.6	13.6	13.1	12.9	12.9	12.9	12.9	12.9	12.8	13.2
22	12.8	12.8	12.8	12.8	12.8	12.7	12.7	13.6	13.6	13.5	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13	12.9	12.9	12.9	12.8	12.8	12.8	13.1
23	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13.6	13.6	13.5	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.1	12.9	12.9	12.9	12.8	12.8	12.8	13.1
24	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.9	13.3	13.3	13.3	13.2	13.3	13.3	13.1	13	12.9	12.9	12.9	12.8	12.8	12.8	12.7	12.7	12.9
25	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.5	13.8	13.7	13.6	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	13.1
26	12.7	12.7	12.7	12.7	12.6	12.6	12.8	14	13.9	13.8	13.6	13.6	13.5	13.5	13.6	13.6	13.6	13.2	12.9	12.9	12.8	12.8	12.8	12.8	13.2
27	12.8	12.7	12.7	12.7	12.7	12.6	12.6	13.4	13.7	13.7	13.6	13.6	13.5	13.5	13.5	13.3	13	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13.1
28	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13.5	13.7	13.6	13.5	13.4	13.4	13.4	13.4	13.5	13.5	13.2	12.9	12.8	12.8	12.8	12.8	12.8	13.1
29	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13	13.5	13.5	13.4	13.5	13.3	13.4	13.4	13.3	13.2	13.1	12.9	12.9	12.9	12.9	12.9	12.9	13

Avg	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.2	13.5	13.6	13.5	13.5	13.5	13.4	13.4	13.3	13	12.9	12.8	12.8	12.8	12.8	12.8	12.8	13
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.5	0.5	0.3	0.2	0.1	0.1	0.1	0.2	0.3	0.1	0	0	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	0.04	0.03	0.02	0.01	0.01	0.01	0.01	0.02	0.02	0.01	0	0	0	0	0.01	0.01	0.01	0.01
Min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.6	12.7	12.9	13.2	13.3	13.2	13	12.9	12.9	12.8	12.7	12.7	12.6	12.6	12.5	12.5	12.8
Max	12.8	12.8	12.8	12.8	12.8	12.7	12.8	14	14	14	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.2	12.9	12.9	12.9	12.9	12.9	12.9	13.2
n	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	348	8352

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8352 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.