

November 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	28	98	317	494	588	598	595	475	212	101	17	1	0	0	0	0	0	0	3525
2	0	0	0	0	0	0	22	134	292	446	492	217	145	99	229	176	57	0	0	0	0	0	0	0	2310
3	0	0	0	0	0	0	22	133	308	462	557	307	311	373	402	202	56	0	0	0	0	0	0	0	3131
4	0	0	0	0	0	0	5	56	167	173	61	50 ?	81	73	75	78	18	0	0	0	0	0	0	0	839
5	0	0	0	0	0	0	13	118	296	450	562	620	612	537	399	223	54	0	0	0	0	0	0	0	3885
6	0	0	0	0	0	0	8	55	194	209	299	262	230	152	53	23	4	0	0	0	0	0	0	0	1488
7	0	0	0	0	0	0	8	26	96	116	148	96	113	156	114	48	13	0	0	0	0	0	0	0	935
8	0	0	0	0	0	0	12	31	223	401	453	567	524	528	385	229	52	0	0	0	0	0	0	0	3405
9	0	0	0	0	0	0	14	109	283	436	542	594	581	505	375	204	48	0	0	0	0	0	0	0	3691
10	0	0	0	0	0	0	14	104	269	421	531	584	575	503	378	206	50	0	0	0	0	0	0	0	3635
11	0	0	0	0	0	0	10	99	262	414	520	575	566	493	368	198	47	0	0	0	0	0	0	0	3553
12	0	0	0	0	0	0	16	91	235	385	468	563	540	478	333	152	24	0	0	0	0	0	0	0	3285
13	0	0	0	0	0	0	5	37	78	82 ?	51 ?	106	80	65	57	28	5	0	0	0	0	0	0	0	596
14	0	0	0	0	0	0	7	31	98	162	195	253	209	141	129	115	26	0	0	0	0	0	0	0	1366
15	0	0	0	0	0	0	5	60	215	290	363	305	232	165	99	49	13	0	0	0	0	0	0	0	1797
16	0	0	0	0	0	0	6	79	215	399	491	543	372	252	192	110	26	0	0	0	0	0	0	0	2684
17	0	0	0	0	0	0	6	59	219	347	473	557	356	220	222	108	19	0	0	0	0	0	0	0	2585
18	0	0	0	0	0	0	14	46	113	166	183	232	97	76	98	55	11	0	0	0	0	0	0	0	1090
19	0	0	0	0	0	0	2	10	38	60	82	120	107	84	50	28	11	0	0	0	0	0	0	0	594
20	0	0	0	0	0	0	3	22	46	155	306	273	187	174	111	63	20	0	0	0	0	0	0	0	1359
21	0	0	0	0	0	0	5	73	230	372	529	370	204	248	304	159	50	0	0	0	0	0	0	0	2544
22	0	0	0	0	0	0	3	66	225	371	486	479	360	349	211	166	36	0	0	0	0	0	0	0	2753
23	0	0	0	0	0	0	5	67	191	281	459	547	540	464	340	144	31	0	0	0	0	0	0	0	3069
24	0	0	0	0	0	0	2	66	229	381	498	555	548	475	350	183	38	0	0	0	0	0	0	0	3325
25	0	0	0	0	0	0	4	70	233	365	481	544	537	448	342	179	40	0	0	0	0	0	0	0	3243
26	0	0	0	0	0	0	3	63	216	363	469	521	515	445	324	161	35	0	0	0	0	0	0	0	3114
27	0	0	0	0	0	0	2	51	144	245	278	234	229	274	81	21	9	0	0	0	0	0	0	0	1568
28	0	0	0	0	0	0	2	43	241 ?	322	473	528	528	453	329	166	35	0	0	0	0	0	0	0	3121
29	0	0	0	0	0	0	3	68	200	369	462	517	506	442	320	164	35	0	0	0	0	0	0	0	3087
30	0	0	0	0	0	0	3	62	157	295	433	439	482	399	301	165	40	0	0	0	0	0	0	0	2775
Avg	0	0	0	0	0	0	8	68	201	314	398	405	365	318	239	130	31	0	0	0	0	0	0	0	2478
S D	0	0	0	0	0	0	7	32	76	122	161	181	188	166	123	66	16	0	0	0	0	0	0	0	1033
S/A	0	0	0	0	0	0	0.82	0.47	0.38	0.39	0.4	0.45	0.52	0.52	0.52	0.51	0.54	5.48	0	0	0	0	0	0	0.42
Min	0	0	0	0	0	0	2	10	38	60	51	50	80	65	50	21	4	0	0	0	0	0	0	0	594
Max	0	0	0	0	0	0	28	134	317	494	588	620	612	537	402	229	57	1	0	0	0	0	0	0	3885
n	0	0	0	0	0	0	110	360	356	357	351	354	359	360	360	356	315	2	0	0	0	0	0	0	3640

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.8% exceed the 15% QC threshold -- 3668 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.

November 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	*	
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	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	0	*	
11	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
12	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
13	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
14	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
15	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
16	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
17	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
18	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
19	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
20	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
21	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
22	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
23	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
24	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
25	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
26	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
27	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
28	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
29	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
30	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	0	*	
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	0	0	0	0	0	0	0	N/A	*
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
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	0	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	0	0	0	0	0	0	0	0	N/A
n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 100.0% missing; 0.0% untested; 0.0% exceed the 15% QC threshold -- 3668 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.

November 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	21	62	97	114	62	83	96	122	171	101	17	1	0	0	0	0	0	0	947
2	0	0	0	0	0	0	11	35	114	120	238	217	141	99	148	120	29	0	0	0	0	0	0	0	1273
3	0	0	0	0	0	0	9	30	43	53	135	272	286	258	143	52	20	0	0	0	0	0	0	0	1302
4	0	0	0	0	0	0	5	54	143	171	57	45	77	73	75	78	18	0	0	0	0	0	0	0	797
5	0	0	0	0	0	0	9	36	53	63	68	68	67	64	60	46	19	0	0	0	0	0	0	0	551
6	0	0	0	0	0	0	10	55	161	205	268	258	230	152	53	23	5	0	0	0	0	0	0	0	1419
7	0	0	0	0	0	0	8	26	96	116	148	96	113	156	114	48	13	0	0	0	0	0	0	0	935
8	0	0	0	0	0	0	14	31	172	166	276	186	194	55	140	42	13	0	0	0	0	0	0	0	1290
9	0	0	0	0	0	0	9	28	45	55	59	60	59	55	48	38	15	0	0	0	0	0	0	0	473
10	0	0	0	0	0	0	10	29	41	48	51	53	55	51	47	36	16	0	0	0	0	0	0	0	438
11	0	0	0	0	0	0	9	33	52	60	59	61	60	55	47	35	15	0	0	0	0	0	0	0	487
12	0	0	0	0	0	0	13 ?	37	55	70	178	86	107	91	91	72	23	0	0	0	0	0	0	0	822
13	0	0	0	0	0	0	5	37	77	76	39	106	80	65	57	26	5	0	0	0	0	0	0	0	574
14	0	0	0	0	0	0	8 ?	31	98	162	195	253	209	141	129	115	26	0	0	0	0	0	0	0	1367
15	0	0	0	0	0	0	6 ?	59	179	222	269	279	231	165	99	49	13	0	0	0	0	0	0	0	1573
16	0	0	0	0	0	0	7 ?	51	130	143	186	117	243	229	185	107	26	0	0	0	0	0	0	0	1426
17	0	0	0	0	0	0	5	52	174	211	171	131	270	188	182	93	19	0	0	0	0	0	0	0	1495
18	0	0	0	0	0	0	21 ?	45	113	165	183	231	97	76	98	55	11	0	0	0	0	0	0	0	1095
19	0	0	0	0	0	0	2	10	38	60	82	120	107	84	50	28	11	0	0	0	0	0	0	0	594
20	0	0	0	0	0	0	4 ?	22	46	153	294	265	187	174	111	63	20	0	0	0	0	0	0	0	1339
21	0	0	0	0	0	0	4	71	197 ?	324 ?	?	276 ?	201	196	131	75	28	0	0	0	0	0	0	0	1502 ?
22	0	0	0	0	0	0	3	64	191 ?	?	?	406 ?	269 ?	286	173	92	21	0	0	0	0	0	0	0	1505 ?
23	0	0	0	0	0	0	6 ?	63	171	275	383 ?	?	?	386 ?	271	98	20	0	0	0	0	0	0	0	1673 ?
24	0	0	0	0	0	0	1	66	178 ?	?	?	?	?	?	162	28	0	0	0	0	0	0	0	0	435 ?
25	0	0	0	0	0	0	4 ?	69	197 ?	305 ?	?	?	?	?	?	157 ?	37	0	0	0	0	0	0	0	770 ?
26	0	0	0	0	0	0	3 ?	62	182 ?	?	?	?	?	?	?	160	33	0	0	0	0	0	0	0	441 ?
27	0	0	0	0	0	0	2	50	129	219	265	231	226	260	81	21	9	0	0	0	0	0	0	0	1490
28	0	0	0	0	0	0	1	42	192	270 ?	?	?	?	?	?	159	33	0	0	0	0	0	0	0	698 ?
29	0	0	0	0	0	0	?	66	174 ?	?	?	?	?	?	?	164	34	0	0	0	0	0	0	0	438 ?
30	0	0	0	0	0	0	?	54	141	276	410 ?	424	444 ?	379	287 ?	155	37	0	0	0	0	0	0	0	2607 ?
Avg	0	0	0	0	0	0	7	46	123	158	177	180	169	154	120	82	21	0	0	0	0	0	0	0	1059 ?
S D	0	0	0	0	0	0	5	16	57	86	109	110	97	99	66	48	9	0	0	0	0	0	0	0	515
S/A	0	0	0	0	0	0	0.67	0.36	0.46	0.54	0.62	0.61	0.57	0.64	0.55	0.58	0.44	5.48	0	0	0	0	0	0	0.49
Min	0	0	0	0	0	0	1	10	38	48	39	45	55	51	47	21	5	0	0	0	0	0	0	0	435
Max	0	0	0	0	0	0	21	71	197	324	410	424	444	386	287	164	37	1	0	0	0	0	0	0	2607
n	0	0	0	0	0	0	92	360	323	286	262	278	275	289	296	355	316	2	0	0	0	0	0	0	3140

Daylight Data Recovery: 0.0% missing; 0.0% untested; 14.4% exceed the 15% QC threshold -- 3668 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.

**November 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	7.5	6.7	6.4	6.7	6.4	6.1	5.7	6.7	8.6	10.4	11.6	12.3	12.9	13.4	13.2	12.8	12.3	11.8	11.6	10.5	9.4	9	9.1	8.3	9.6
2	7.3	6.5	6	5.3	4.8	4.6	5	6	8.4	11.2	14	13.6	13.3	12.4	12.9	14.1	13.5	11.8	10.6	9.4	8	6.3	6	6.3	9.1
3	6.3	5.4	4.9	5	4	2.9	2	2.9	6.2	8.6	9.6	9.8	10	10.5	10.9	10.8	10.7	8.8	7.1	6.2	5.7	5.1	4.6	4.5	6.8
4	4.7	5.3	5.5	5.8	5.5	5.6	5.5	5.9	7.7	8.9	9.1	9	8.8	9.1	9.1	9.2	9	8.9	8.8	8.7	8.6	8.5	8	8	7.6
5	7.8	7.8	7.6	6.8	6	5.3	4.4	5.1	6.8	8	9	10	10.3	10.6	10.7	10.2	8.9	7.1	6.2	5.7	5.5	5.1	4.8	4.4	7.2
6	4.7	4.6	4.4	4.7	5.3	5.2	5	5.4	6.5	8.1	9.2	10.2	9.9	9.5	9.1	8.8	8.3	7.8	7.9	8.2	8	7.6	7.2	8	7.2
7	7.2	7.8	7.8	7.5	7.2	6.9	6.5	6	6.3	6.8	7.2	7.3	7.5	7.9	8	8.1	7.8	7.5	7.2	6.9	6.7	6.5	6.1	5.6	7.1
8	5.4	5	4.5	3.8	3.8	4.2	4.2	4.5	5.7	7.5	9.4	10.6	12.3	13.5	14	14	12.8	10.7	9.5	8.7	7.5	7	7.2	7.6	8.1
9	7.4	6.3	6.4	6.3	5.8	5.2	2.8	3	5.8	8.9	10.5	12.1	13.1	13.9	14.8	14.6	13.9	11.8	10	8.4	7.3	6.7	6.4	5.8	8.6
10	5.2	5.8	5.7	6.2	6	5.2	4.8	6.4	10.2	13.3	15.8	17.5	18.4	18.8	18.8	18.6	15.9	13.1	11.9	11.9	11.6	10.7	10.2	9.8	11.3
11	9.5	9.2	9.1	8.6	8.5	8.5	7.8	9.2	12.4	15.3	18	19	20	20.6	21	20.9	19	16.8	15.4	14.4	13.9	13.2	13	12.9	14
12	12.6	12.2	12.4	12.5	12.7	13.1	13.2	13.7	15.7	18.5	21.2	22.3	22.9	22.6	22	22.1	20.2	18.9	18.4	18	18.4	18.6	18.5	18.3	17.5
13	18	17.4	17.2	17.7	17.9	17.6	17.3	17.3	17.8	14.4	10.2	9.5	9.1	8.9	8.4	8	7.9	7.7	7.4	6.9	6.5	6.4	6.6	6.9	11.8
14	7.3	7.7	7.8	7.9	7.8	7.5	7.1	6.8	6.4	6.9	7.7	8.4	9.4	9.8	9.3	8.9	8.1	7.3	6.6	6	5.3	5.2	4.4	5	7.3
15	5.3	5.7	5.8	5.9	6.5	6.6	6.7	7.5	9.3	12	13.3	13.4	13	12.7	12.3	11.7	11.1	10.7	10.3	10	9.5	9	8.8	8.7	9.4
16	8.5	8.1	7.7	7.7	7.7	7.6	7.3	7.1	8.2	9.2	10.1	10.9	11.1	10.7	10.4	9.7	9.1	8.5	7.5	7	6.6	6.4	6.3	6.5	8.3
17	6.3	5.8	5.8	5.8	6.2	6	5.9	6.2	7.7	9.7	11.9	13	13	12.5	12.6	12.1	11.4	11	10.8	10.7	10.6	10.3	10.1	10.1	9.4
18	10.4	10.5	10.7	11.2	11.6	11.7	11.8	12.3	13	13.9	14.3	14.7	13.8	13	13	13.3	13.4	13.3	13.3	13.1	12.9	12.9	12.9	12.9	12.7
19	12.8	12.6	12.5	12.3	12	11.8	11.8	11.1	11.1	11.2	11.5	12.3	13.1	12.6	11.4	10.9	10.3	10.2	10.5	10.3	9.9	9.7	9.8	9.7	11.3
20	9.7	9.8	9.9	10.1	10.5	11	11.2	11.1	11.1	11.5	12.3	12.7	12.9	13.1	12.8	12.4	11.8	11.1	10.5	9.9	9.6	9.4	9.2	9	10.9
21	8.9	8.3	8	7.8	7.8	7.7	7.4	7.6	8.7	10.3	12.2	12.9	12.7	12.7	13.4	13.1	12	10.7	9.6	9.1	8.8	8.5	8.2	8	9.8
22	7.6	7	7.1	7.3	7.2	7.4	7.5	8.1	9.6	11.1	12.3	13.5	14.1	14.3	14.1	13.8	12.5	11.1	10	9.3	8.9	9	8.6	8.1	10
23	7.8	8.1	6.4	5.3	5	4.6	4.2	4.5	6.9	10	12.2	13.8	15.4	16.4	17.4	16.8	15.8	14.1	13.2	12.4	12.4	11.9	11.4	10.9	10.7
24	11.5	11.8	10.4	9.7	9	7.6	6.3	6.3	6.9	6.6	6.7	7	7.8	8.3	8.5	8.3	7.5	6.1	5.2	4.2	2.8	2.4	2.4	2.6	6.9
25	2.1	-0.2	-1.6	-1.7	-2	-2.2	-2.6	-2	0.2	2.4	3.9	5.5	6.3	7.3	8.2	8.7	8.1	6.5	6.1	5.9	5.7	5.5	5.5	5	3.4
26	4.8	4.8	4.4	4.4	4.7	4.2	4	4.2	5.9	8.9	11.2	13.7	14.9	15	14.7	14.5	12.6	9.9	8.3	8	8.1	8.2	8.3	8	8.6
27	8	8.1	8.3	8.3	8.3	8	8	8.5	10.2	11.6	13.8	14.4	15	16.1	15.7	14	13.1	12	10.4	9.5	8.3	7.7	7.1	6.5	10.5
28	6.2	5.8	5.4	5.3	5.1	4.9	4.1	3.4	4.6	5.5	6.6	7.8	8.3	8.6	9.1	9.4	8.7	6.9	5.7	5.2	3.7	2.5	1.9	1.6	5.7
29	1.9	1.3	0.6	-0.1	0	-0.2	-0.4	0.9	3	7.1	9	9.7	10.6	10.6	10.7	10.7	9.8	7.7	7	6.5	6.1	5.3	4.5	4.2	5.3
30	4.1	4.3	4.4	4.2	4	3.8	3.3	4	5.3	7.4	10.5	12.5	13.9	14.2	14	14	12.8	10.7	9.4	8.9	8.5	7.7	6.9	6.2	8.1
Avg	7.6	7.3	7	6.9	6.8	6.6	6.3	6.7	8.2	9.8	11.2	12	12.5	12.7	12.7	12.5	11.6	10.4	9.5	9	8.5	8.1	7.8	7.6	9.1
SD	3.3	3.4	3.5	3.7	3.7	3.8	4	3.8	3.5	3.2	3.5	3.6	3.7	3.7	3.6	3.6	3.2	3	2.9	2.9	3.2	3.3	3.4	3.3	2.8
S/A	0.44	0.47	0.5	0.53	0.55	0.58	0.63	0.57	0.43	0.33	0.31	0.3	0.29	0.29	0.29	0.29	0.28	0.29	0.31	0.33	0.37	0.41	0.43	0.44	0.3
Min	1.9	-0.2	-1.6	-1.7	-2	-2.2	-2.6	-2	0.2	2.4	3.9	5.5	6.3	7.3	8	8	7.5	6.1	5.2	4.2	2.8	2.4	1.9	1.6	3.4
Max	18	17.4	17.2	17.7	17.9	17.6	17.3	17.3	17.8	18.5	21.2	22.3	22.9	22.6	22	22.1	20.2	18.9	18.4	18	18.4	18.6	18.5	18.3	17.5
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

Instrument: CSI HMP-35C    Serial Number: P0520031    Calibration Factor: 1.00 deg C/mV    Calibration Date: 03/1988

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

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

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

**November 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	96	99.5	101.3	100.7	102.3	102.4	103.1	98.9	90.7	80.3	74.5	73.3	70.5	69	70.7	73.8	78.5	82.1	81.9	85.3	89.8	92.9	90.7	93.4	87.6	
2	94.4	96.1	97.9	99.8	101.1	102	98.3	91.1	81	67	59.3	60.9	61.3	69.8	73.1	67.3	63.8	69.4	72.8	76.7	85.1	94.3	96	94.2	82.2	
3	91.9	95.9	97.3	94	98.9	102.5	?	102.4 ?	92	81	74.1	72.9	69.8	67.8	66.5	68.2	70.6	82.4	95.4	101	103.3	103.7 ?	?	?	87.2 ?	
4	104.2 ?	102.9	102.4	101.1	103.5	104.5 ?	?	?	98.4	92.2	88.4	92.8	94.2	92	91.5	91.4	92	92.1	92.3	91.9	91.7	91.9	94.6	95.4	95.5 ?	
5	97.3	97	96.6	100.4	98.4	98.2	101.6	97.6	86.1	80.2	73.4	67.8	65.9	63.6	64	69.7	78.7	86.8	91.5	95.2	96.6	98.2	99.8	99	87.6	
6	95.7	96.9	98.1	97.6	98	99.3	100.7	99.7	99.5	98.3	95.4	91.9	93.7	95.2	96.9	97.5	98.2	100.3	100.8	102.4	?	?	?	?	97.8 ?	
7	?	?	?	?	?	104.9 ?	?	?	104.2	103.2	101.9	101.3	100.4	98	97	96.2	96.5	96.6	96.1	97.9	96.8	93.6	95.9	97.9	98.7 ?	
8	98.5	98.7	101.3	103.1	103.7	100.2	98.5	95.4	85.9	71.3	62.3	57	46.1	37.8	31.8	29.1	35.5	46.9	51	54.2	61.9	62.8	57.6	56.5	68.6	
9	60.6	67.9	71.9	75.4	79.8	84.3	92.5	89.2	82.7	75.5	72	66.4	63.1	60.7	58.2	58.1	62	74.9	87.5	93.7	100.5	102.4	103.1	104 ?	78.6	
10	?	103.2	103.2	101.7	103.6	?	?	101.3 ?	87	75.2	62.3	55.8	51.6	47.7	50.6	53.7	64.1	78.1	88.5	83.2	81.6	87	91.5	92.7	79.2 ?	
11	93.6	93.7	94.8	98.5	102.4	102.9	104.4 ?	103 ?	98	92.6	79.3	63	51.9	49.7	58.5	68.7	79.1	89.2	97.9	104.1	?	?	?	?	86.3 ?	
12	?	?	?	?	?	?	?	?	103.1 ?	96.2	85.4	79.9	79.3	84.1	86.9	87	94.5	99.1	101.9	104	104.2	104.5	?	?	93.6 ?	
13	?	?	?	104.4 ?	104.4	?	?	?	?	?	?	?	104.6 ?	104.7 ?	102.8	102.9	104.3 ?	104.3	103.8	104.8 ?	?	104.7 ?	100.4	93.8	103.1 ?	
14	90.4	86.7	88.7	91.4	92.4	95.4	90	87.8	94.8	97.6	97.5	97.3	95.1	93.2	92.9	91.5	91.1	92.8	94.4	96.5	99.6	101.2	103.7	102.9	94.4	
15	100.5	99.6	101.4	103.4	104.3	?	?	?	103.2 ?	99.9	95.8	94.9	96.4	96.3	96.7	98.2	101	100.7	101.5	103.2	104.3 ?	?	?	?	100.1 ?	
16	?	?	?	?	?	?	?	?	104.8 ?	101.4	97.6	93.8	88.7	88.8	90	88.7	83.7	81.6	86.4	91.3	91.7	93.3	93.5	94.7	93.9	92 ?
17	92.2	96.3	96.4	96.7	97.1	100.8	102.8	102.6	100	96.8	94.3	90.7	91.3	93.3	92.9	96.6	99.5	100.8	101.3	102.5	104.1	?	?	?	97.6 ?	
18	?	?	?	?	?	?	?	104.9 ?	103.7	100.7	97.9	96.7	95.9	99.6	100.8	101.6	101.2	101.2	101.4	101	101.7	102.2	102.5	101.7	100.9 ?	
19	102.5	103.3	103.9	104.2	104.1	104.8 ?	104.8 ?	?	?	?	?	104.7	104.2	?	?	?	?	?	?	?	?	?	?	?	?	104.1 ?
20	?	?	?	?	?	104.8 ?	104.1	103.8	103.3	101.1	98.8	97.4	96	94.3	93.7	91.9	93	94.9	97.6	98.5	99.4	102.8	104.8 ?	?	98.9 ?	
21	?	?	?	?	?	?	?	102.3 ?	100.2	99.8	96.6	93.4	93.9	93.2	87.6	87.8	93.6	98.2	103	103.8	103.4	104	102.7	100.3	97.9 ?	
22	100.6	103.2	104.2	103.6	103.6	103.9	104.5	104	100.4	96.7	92.5	90.8	91	89.7	90.7	92.1	95.3	98.7	100	101.4	101.9	101.7	103.6	?	98.9	
23	?	?	?	?	?	?	?	?	?	101.8 ?	95.2	85.3	70.8	65.6	60	61.2	63.6	67.3	73.8	80	80.4	80.5	82.6	86.2	76.9 ?	
24	84.8	82.1	85.1	85.4	82.2	87.3	89.2	86.2	76.6	69.3	60.4	58.7	56.5	53.7	53.1	52.8	56.2	62.3	62.1	66.3	72.8	75.7	78.2	73.3	71.3	
25	71.1	86.6	97.9	96.9	97.8	96.9	97.2	93.5	84.4	75.4	68.9	61.7	57.7	55.6	52	49.9	55.7	62.7	63.6	67.5	71.5	71.9	70.7	74.6	74.2	
26	77.1	78.1	80.8	79.9	78	81.1	82.9	83.5	77.6	65	57	49.4	48.2	47.5	53.7	56.5	69.4	85.6	92.7	98	100.3	101.2	103.3	104.7 ?	77.1	
27	?	?	?	104.8 ?	104.9 ?	?	?	103.5 ?	101.2	97.9	83.2	76.9	73.9	64.4	64.8	67.7	75.1	77.6	90.6	100.3	?	?	?	?	85.8 ?	
28	?	?	?	104	102.2	101.3	103.8	104.8 ?	101.7	94.9	81.5	73.3	67.5	64.5	62.7	62.4	65.9	76	83.7	85.8	93.1	99.3	102.1	103.6 ?	87.3 ?	
29	103.5	103.8	104.6 ?	?	?	?	?	?	100.8 ?	85.2	73.7	71.5	69.4	67.5	66.4	68.2	73.8	85.7	92.6	96.9	99.3	101.3	103.8	?	87.1 ?	
30	?	?	?	?	?	?	?	?	104.6 ?	99.8	82.3	69.7	64.9	67.2	65.1	63.5	71	79.8	86.9	97.7	102.6	104.5 ?	?	?	82.8 ?	
Avg	91.9	94.3	96.2	97.5	98.2	98.8	99	98	94.8	88.9	82	78.7	77.3	76	74.9	75.5	79.5	85.3	89.6	92.6	93.6	94.8	94.4	92.7	89.1 ?	
S D	11.8	9.8	8.8	8.2	8.3	7.1	6.6	6.8	8.9	12.2	14	15.9	18.5	19.6	19.1	18.9	17.2	14.2	13.4	12.9	11.7	11.5	12.5	12.8	9.9	
S/A	0.13	0.1	0.09	0.08	0.08	0.07	0.07	0.07	0.09	0.14	0.17	0.2	0.24	0.26	0.26	0.25	0.22	0.17	0.15	0.14	0.13	0.12	0.13	0.14	0.11	
Min	60.6	67.9	71.9	75.4	78	81.1	82.9	83.5	76.6	65	57	49.4	46.1	37.8	31.8	29.1	35.5	46.9	51	54.2	61.9	62.8	57.6	56.5	68.6	
Max	104.2	103.8	104.6	104.8	104.9	104.9	104.9	104.8	104.6	103.2	101.9	104.7	104.6	104.7	102.8	102.9	104.3	104.3	103.8	104.8	104.3	104.7	104.8	104.7	104.1	
n	212	225	219	237	241	198	183	195	298	330	336	348	356	348	348	348	342	348	347	339	290	266	240	199	6799	

Data Recovery: 0.0% missing; 0.0% untested; 21.3% failed QC -- 8640 total measurements.

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

**November 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	7	6.4	5.9	5.8	5.8	5.4	4.8	6.1	8.6	12.3	15.2	17.1	17.9	17.6	17.1	15.9	14.5	13.2	12.4	11.5	9.7	8.7	8.4	8.3	10.6
2	7.3	6.3	5.5	4.8	4	3.4	3.3	4.9	8.4	12.2	16.5	17.9	16.3	15.2	14.4	15.6	15.6	13.6	10.8	8.8	7.1	5.4	4.1	3.9	9.4
3	3.8	3.6	3.1	3	2.5	1.6	0.9	2	6.4	11.3	14.3	15.3	14.3	14.2	14.4	14.7	14.3	11.5	7.5	5.2	3.9	3.3	2.9	2.7	7.4
4	2.9	3.5	3.9	4.5	4.9	5.2	5.4	5.6	6.8	9.3	10.6	10.5	10.1	10.3	10.5	10.6	10.5	10	9.6	9.3	9.1	9	8.5	8.1	7.9
5	8	7.8	7.7	7.3	6.5	5.5	4.3	4.3	7.4	10.8	13.4	15.2	16.1	16	15.6	15.4	14	10.4	7	5.2	4.2	3.7	3.5	3.1	8.9
6	2.9	3.2	3.4	3.7	4.4	4.8	4.8	4.9	5.9	7.9	9.7	11.3	12.1	11.9	11.2	10.4	9.6	8.6	8.1	8	8	7.9	7.7	7.7	7.4
7	7.9	7.7	7.9	7.8	7.6	7.4	7	6.6	6.4	7	7.7	8.4	8.6	9	9.4	9.4	9	8.5	7.9	7.6	7.2	7	6.8	6.4	7.8
8	6.1	5.7	5	4.4	4	4.1	4.2	4.3	5.2	8.4	12.3	14.2	15.9	17	17.3	17.3	16.5	13.3	10.1	8.3	7	5.6	5	5.2	9
9	5.6	5.3	4.6	4.7	4.4	4.1	3.2	2.9	6.3	10.7	13.9	16.6	18.3	19.1	19.3	19.2	18.1	14.7	10.6	8.1	6.4	5.1	4.3	3.9	9.6
10	3.6	3.3	3.2	3.4	3.8	3.6	3	4	9.2	15.3	20	23.1	24.4	24.6	23.8	22.9	21.4	17.2	13.5	11.6	11	10.2	9.5	8.8	12.3
11	8.1	7.5	7.2	7	6.6	6.2	6.1	6.8	11.4	16.8	21.3	24.8	25.8	26.1	25.6	25.3	24.3	20.4	17.2	15.2	13.8	12.9	12.1	11.8	15
12	11.7	11.6	11.6	11.7	11.8	12.1	12.3	13	16	19.7	23.8	26.4	27.6	27.7	27	26.1	24.1	21.2	19.4	18.3	17.8	17.9	18.3	18.2	18.6
13	18.1	17.8	17.6	17.6	17.7	17.5	17.2	17.1	17.7	18	14.8	11.9	10.8	10.1	9.7	9.2	8.8	8.5	8.2	7.7	7.2	6.8	6.5	6.6	12.6
14	6.9	7.4	7.8	8	8.1	8	7.9	7.7	7.6	7.9	8.7	9.7	10.7	11.4	11.4	11	10.3	9.2	8.1	6.9	5.4	4.4	4.1	4	8
15	4.3	4.9	5.4	5.8	6.1	6.4	6.6	6.9	8.3	12.1	14.9	16.3	16.2	15.6	14.8	13.9	12.8	12	11.2	10.6	10.1	9.5	9.1	9	10.1
16	9	8.7	8.4	8	7.8	7.6	7.4	7	8.7	11.7	13.9	15.6	16.5	15.4	14.2	13	11.6	10.1	8.3	6.8	6	5.4	5.2	5.2	9.6
17	5.2	5.1	4.8	4.8	5.3	5.7	5.4	5.5	7.3	10.4	13.6	16.1	17.3	16.2	15.2	14.9	13.6	12.2	11.5	11.1	11	10.7	10.3	10	10.1
18	9.8	9.8	9.9	10.1	10.5	11	11.2	11.5	12.4	13.6	14.8	15.7	16	14.5	14	14.1	14.1	14	13.8	13.7	13.6	13.4	13.3	13.2	12.8
19	13.3	13.2	13.1	13	12.7	12.5	12.4	12.2	11.8	12	12.2	12.7	13.4	14	13.5	12.6	11.8	11.1	10.9	10.9	10.8	10.4	10.2	10.2	12.1
20	10.1	10.1	10.1	10.2	10.4	10.6	11	11.3	11.5	12	13.4	14.8	15.4	15.4	15.3	14.6	13.6	12.3	11.2	10.2	9.6	9.2	8.8	8.6	11.7
21	8.6	8.3	7.7	7.4	7.4	7.4	7.2	7	9.1	12.2	15.3	17.8	17	16	16.2	16.5	15.5	13	10.5	9.2	8.5	8	7.5	7.2	10.9
22	7	6.5	6	6.1	6.1	6.1	6.2	6.6	9.1	12.5	15.1	17	17.9	17.7	17.6	16.9	16	13.3	11	9.6	8.6	8.1	7.8	7.4	10.7
23	7.1	7.5	7.5	5.9	4.9	4.2	3.6	3.7	7	12.6	17	19.1	20.9	21.2	21.2	20.8	19	15.9	13.6	12.5	12.1	11.5	10.7	10.2	12.1
24	10.3	11.1	10.6	9.7	9	7.7	6.2	5.3	7.5	9.7	11.1	12.1	12.8	13.2	12.8	12.5	11.2	7.9	5.1	3.2	1.6	0.7	0.4	0.6	8
25	0.7	-0.3	-2.1	-3.2	-3.9	-4.1	-4.2	-3.8	0.1	4.8	9.1	11.2	12	11.8	11.7	11.7	11.3	8.5	5.7	4.8	4.5	4.2	4.1	3.9	4.1
26	3.4	3.4	3.2	2.8	2.7	2.7	2.3	2.6	5.9	10.9	15.9	19.8	22.1	22.2	21	19.4	17.5	13.4	9.7	7.6	6.9	6.8	6.8	6.7	9.8
27	6.5	6.6	6.9	6.9	6.8	6.8	6.9	7.3	9.3	11.5	14.3	16.1	16.9	18	18.5	17	15.2	13.8	12.6	11.2	10	8.8	8.2	7.5	11
28	6.9	6.5	6	5.7	5.5	5.4	4.9	3.6	4.7	7.8	9.8	11.8	13.2	13.3	13	13	12.1	8.6	5.2	3.7	2.5	1.1	0	-0.8	6.8
29	-1.2	-1.4	-1.7	-1.8	-2	-2.2	-2.2	-2	1.5	7.3	12.3	15.1	16.8	16.7	15.7	14.9	13.6	10.2	7.3	5.7	4.6	3.9	2.9	2.1	5.7
30	1.9	1.9	2.2	2.5	2.6	2.4	2	1.9	3.9	7	11.6	16	18.1	19.4	18.7	17.7	16.4	13	10	8.7	8	7.2	5.9	4.7	8.5

Avg	6.8	6.6	6.4	6.3	6.1	6	5.7	5.9	8.1	11.2	13.9	15.7	16.4	16.4	16	15.5	14.5	12.3	10.3	9	8.2	7.6	7.1	6.8	9.9
S D	3.9	3.9	4	4.1	4.1	4.2	4.3	4.2	3.6	3.3	3.6	4.2	4.5	4.6	4.4	4.3	4	3.3	3.2	3.4	3.5	3.7	3.9	3.9	2.8
S/A	0.57	0.59	0.62	0.65	0.67	0.7	0.75	0.72	0.45	0.3	0.26	0.27	0.28	0.28	0.28	0.27	0.27	0.27	0.32	0.37	0.43	0.49	0.54	0.57	0.28
Min	-1.2	-1.4	-2.1	-3.2	-3.9	-4.1	-4.2	-3.8	0.1	4.8	7.7	8.4	8.6	9	9.4	9.2	8.8	7.9	5.1	3.2	1.6	0.7	0	-0.8	4.1
Max	18.1	17.8	17.6	17.6	17.7	17.5	17.2	17.1	17.7	19.7	23.8	26.4	27.6	27.7	27	26.1	24.3	21.2	19.4	18.3	17.8	17.9	18.3	18.2	18.6
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

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

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

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

**November 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	1.6	1	1	1.3	1	0.8	0.9	2	3	4.4	3.6	3.7	4.5	4.1	3.1	2.8	2.2	1.8	2.6	1.5	1.3	1.6	2.5	1.9	2.3
2	2.4	2.5	2.4	1.8	1.5	1.7	2.2	2.4	2.8	2.8	2.7	3.3	3	2.3	2.3	2.7	2.4	1.4	1	0.5	0.3	0.4	0.7	0.6	1.9
3	0.6	0.7	0.9	0.7	0.2	0.1	0.6	1.2	1.3	2.5	3.3	2.6	3.1	3.2	3	2.1	1.2	0.1	0	0	0	0	0.1	0.4	1.2
4	0.1	0.1	0.2	0.1	0.1	0.1	0.1	0	1.2	1.5	1.2	1.7	1.3	2.4	2.1	2.4	1.8	1.3	1.1	1.2	1.3	1.9	1.4	1.1	1.1
5	0.9	1.4	2	2.3	2.6	1.5	1	1.9	2.7	2.8	3.2	2.9	3.3	3.1	2.5	2.5	2.3	1.6	1.1	0.5	0.7	0.8	1	0.9	1.9
6	1.9	2	1.5	1.1	2	2.6	2.7	3.1	3.2	3.5	3.8	3.1	4.1	4	3	3.3	3.2	3.1	2.5	2.6	1.7	1.9	2.4	2.7	2.7
7	2.9	3.9	4.4	4.8	4.3	4.4	4.2	3.2	3.3	3.9	4.3	3.6	3.2	4	3.6	2.7	2.4	2.5	2.7	2.1	1.8	1.9	1.7	1.2	3.2
8	1.8	2.1	1.8	2	1.6	1.5	1.6	2.3	2.5	3.3	3.3	3.4	3.6	3.7	3.9	3.2	2.7	2.2	1.9	1.7	1.6	1.4	2.1	3.2	2.4
9	2.7	1.7	2.8	2.1	2	1.5	1.4	1.2	1.7	3.1	2.7	2.5	2	2.1	1.9	1.7	1	0	0	0	0	0	0	0	1.4
10	0	0	0.2	0.8	0.2	0	0	0	0.4	0.8	1.1	1.5	1.9	2.3	2.9	2.4	2.5	2.2	1.6	1.7	1.3	1.2	0.9	0.5	1.1
11	0.2	0.4	0.6	0.1	0	0.4	0.2	0.2	0.9	1.4	0.9	1.9	1.8	2	2	1.5	1.8	1.7	2.3	0.9	0.5	0.4	0.3	0.3	0.9
12	0.3	0.1	0.8	0.1	0.1	0.2	0	0.1	1.3	1.3	2.3	3.5	3.3	3.6	3.6	2.2	1.7	2.7	1.9	2	2.5	2.5	2.5	2.1	1.7
13	1.3	1.6	1.7	1.6	0.9	0.4	0.2	0.6	0.9	4.2	5.8	5.1	4.7	4.4	4.2	3.3	2.7	3.4	3.1	3.7	3.5	3.5	3.8	3.7	2.9
14	3.5	3.6	3.5	3.5	3.8	4.1	4.1	4.3	3.8	4	4.3	4.2	3.8	3.9	4.3	4.5	3.9	3.3	3	1.9	0.7	0.7	1.2	1.6	3.3
15	1.5	2.4	2.1	1.9	2.3	1.3	1.9	1.8	2	2.5	4.1	4.2	4.1	4	3.7	4.3	3.5	3.4	2.9	2.4	1.4	2.1	1.8	2.4	2.7
16	2.6	2.7	3.2	2.6	2.8	2.9	2.2	1.3	2.8	3.9	3.7	3.8	3.4	3.2	3.6	3.4	3.1	2	1.6	1.7	1.8	2.2	2.2	2.6	2.7
17	2.3	2.7	2.6	2.6	3.4	3.2	3.6	3.2	4	3.8	4.6	5.1	5	5.1	4.1	4.3	4	3.8	3.3	3.3	3.8	2.9	3.5	3.4	3.7
18	3.2	2.7	2.9	2.9	3.5	3.8	3.9	4	4.6	5.1	5.9	6.4	6.1	6.2	5.8	5.6	5.8	5.3	5.5	5.4	4.9	4.8	5	4.8	4.7
19	5	5	4.9	4.7	4.7	4.9	4.6	4.9	4.9	5.8	5	5.1	5.1	5.8	5.5	5.6	5.4	5.5	4.9	5	3.9	3.7	3.4	3.7	4.9
20	3.9	3.4	3.4	3	2.8	2.6	2.8	3	2.9	3.7	3.8	3.5	3.1	3	3.1	3	2.4	2.1	1.7	1.6	2.1	2.1	2.2	1.9	2.8
21	1.4	1.6	2	2.4	2.5	2	1.7	2.5	3.3	3.5	3.3	3.4	3.3	3.1	3.4	3.6	3.5	2.6	2.7	3.2	3.1	3	2.8	3.1	2.8
22	2.8	1.9	2.6	3	2.7	2.5	2.9	3.1	4.1	5	4.9	4.9	4.4	4.4	4.4	3.4	3.5	3.2	2.8	2.3	2.4	2.5	2.1	1.3	3.2
23	1.4	1.7	0.5	0.4	0.4	0.2	0.5	0.1	0.2	0.5	1.7	1.8	2.1	2.5	2.4	2.1	1.7	2.1	2.4	2.4	1.9	1.5	1.7	1.7	1.4
24	2.4	2.7	1.7	1.2	1.8	2.1	1.3	1.8	4.6	4.8	4.7	4	3.4	3.3	2.7	2.9	2.2	1.5	1.2	0.2	0.8	1.3	2	2.6	2.4
25	1.4	0.7	0.6	0.4	0.7	1.1	0.7	0.6	1.1	1.2	1.8	2.5	3.6	3.2	3.3	2.7	1.9	1	1.4	2.1	2.2	1.9	2.1	1.3	1.6
26	2.3	1.8	1.3	1.1	1.3	1	1	1.3	1	0.7	0.5	0.3	0.9	1.2	1.9	1.9	1.9	1.5	0.8	1	1.5	1.8	1.3	0.8	1.3
27	1.3	2	1.5	1.1	1.5	0.7	0.6	0.8	2	2.3	2.5	2.4	2.1	1.9	2.3	2.3	2.3	2	2.7	2.4	1.3	0.9	2.7	2.5	1.8
28	2.6	2.3	2	2.5	2	2.1	1.5	1.4	2.4	4.2	4.5	3.5	4	3.8	2.4	1.9	1	0	0.8	0.3	0.1	0.2	0.1	0	1.9
29	0	0	0.4	0.3	0	0.4	0	0	0.1	1	1.9	1.7	1.7	2.3	2.3	2	1.4	1.4	1.3	0.6	1.2	0.5	0.1	0.4	0.9
30	0.6	1	1.2	1.2	0.6	0.5	0	0.2	0.3	1.4	1.2	1.7	1.5	2	2.7	2.3	1.1	0.9	1.1	1.3	1	0.3	0.3	0	1
Avg	1.8	1.9	1.9	1.8	1.8	1.7	1.6	1.8	2.3	3	3.2	3.2	3.2	3.3	3.2	3	2.5	2.2	2.1	1.8	1.7	1.7	1.8	1.7	2.3
S D	1.2	1.2	1.2	1.3	1.3	1.4	1.4	1.4	1.4	1.5	1.5	1.3	1.2	1.2	1	1	1.2	1.3	1.2	1.3	1.2	1.2	1.2	1.3	1.1
S/A	0.67	0.65	0.64	0.71	0.76	0.83	0.88	0.79	0.61	0.5	0.45	0.41	0.38	0.35	0.31	0.35	0.46	0.61	0.6	0.72	0.72	0.71	0.68	0.73	0.47
Min	0	0	0.2	0.1	0	0	0	0	0.1	0.5	0.5	0.3	0.9	1.2	1.9	1.5	1	0	0	0	0	0	0	0	0.9
Max	5	5	4.9	4.8	4.7	4.9	4.6	4.9	4.9	5.8	5.9	6.4	6.1	6.2	5.8	5.6	5.8	5.5	5.5	5.4	4.9	4.8	5	4.8	4.9
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

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

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

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

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

**November 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	290	272	281	278	276	276	278	286	299	321	320	320	323	311	318	331	320	304	315	317	313	305	328	318	311
2	323	319	319	318	299	299	322	325	322	312	299	312	317	333	296	329	344	353	358	342	298	289	18	26	321
3	26	359	8	6	6	314	320	316	2	21	20	19	10	6	3	3	345	320	223	220	0	293	39	20	7
4	9	2	32	351	308	330	314	9	83	82	93	80	87	78	83	92	68	57	57	57	39	56	56	51	70
5	47	34	36	43	54	49	20	28	41	40	41	26	42	28	62	70	80	93	95	74	50	60	50	49	48
6	51	53	39	29	52	57	50	48	54	61	72	80	78	68	59	60	56	63	57	40	25	28	32	26	55
7	4	32	39	38	32	32	29	21	28	29	29	21	22	32	30	20	15	10	9	352	3	12	358	352	24
8	357	354	345	340	345	340	353	357	358	1	349	353	352	348	347	353	338	325	316	321	345	1	20	21	350
9	14	11	21	12	17	359	328	349	3	37	32	19	27	22	0	358	347	330	0	0	0	0	0	0	14
10	281	266	270	271	259	0	203	253	265	266	263	258	226	233	215	214	181	163	164	197	194	181	195	203	211
11	205	178	211	177	165	202	204	189	213	213	229	213	224	232	224	203	185	169	162	174	183	180	182	176	201
12	174	164	156	147	141	141	0	138	149	163	181	188	205	158	160	172	170	179	179	192	207	212	215	199	183
13	242	218	241	232	215	247	231	251	271	53	54	60	62	59	63	55	66	57	47	54	63	58	61	61	58
14	64	63	59	58	62	65	62	57	56	57	57	57	59	62	59	52	51	51	46	41	20	7	359	28	55
15	23	34	28	27	42	10	35	30	46	80	98	96	88	90	89	82	74	69	70	54	39	50	68	67	66
16	46	38	34	46	35	38	34	23	41	43	46	56	55	56	54	67	57	59	54	53	49	52	56	56	48
17	54	52	55	51	57	57	55	55	60	70	80	87	88	81	77	73	70	65	65	58	55	54	56	59	66
18	55	57	54	62	75	78	78	78	83	88	89	90	88	83	79	77	73	75	79	74	70	68	73	66	76
19	59	63	58	56	56	50	52	46	53	51	53	54	56	51	47	49	53	57	47	44	48	52	49	53	
20	49	45	44	44	42	45	50	47	53	70	80	76	61	57	64	62	64	52	61	49	37	32	43	49	54
21	54	33	38	34	49	49	36	45	56	77	77	63	67	70	72	60	57	53	47	50	41	44	40	41	54
22	42	32	37	43	36	41	43	46	48	54	49	55	65	56	54	60	54	47	46	43	41	44	44	62	49
23	55	61	348	10	360	1	348	330	337	294	312	294	262	285	251	264	246	248	251	252	258	262	259	271	273
24	301	333	351	338	343	350	349	21	55	48	37	33	23	358	359	354	357	5	3	309	305	326	21	32	11
25	18	322	323	336	332	335	330	341	339	343	309	270	298	290	276	291	255	263	258	253	256	256	257	261	287
26	256	259	274	276	275	272	273	283	309	346	334	116	233	163	163	204	143	124	135	155	162	175	176	175	213
27	189	185	194	203	204	205	197	208	217	218	224	243	263	269	296	314	359	19	35	49	21	29	32	38	277
28	44	29	11	16	12	16	10	3	14	35	52	42	30	32	27	10	4	29	341	327	270	245	213	222	26
29	0	21	329	333	351	23	343	349	27	82	119	135	227	243	242	227	200	184	188	182	223	252	227	246	207
30	254	251	255	262	269	261	256	257	252	293	289	261	266	218	224	235	216	182	166	181	188	183	202	198	236
Avg	30	31	28	28	36	35	34	29	39	45	49	50	43	43	46	43	52	59	55	49	41	41	42	43	40
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

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

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

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

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

**November 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	2.8	2.1	2.1	2.4	2.1	1.8	2	3.4	5.4	7.9	6.4	7	8	7.6	5.9	5.3	4	3.4	4.6	2.9	2.4	2.9	4.6	3.5	4.2
2	4.3	4.2	4.1	3.1	2.5	2.8	4	4.6	5	5	4.9	6	5.4	4.7	4	5.8	4.8	3	2.4	1.2	0.6	0.8	1.5	1.4	3.6
3	1.4	1.5	2	1.6	0.9	0.5	1.2	2.1	3.4	5.4	6.4	5.3	5.9	6.5	6.2	4.6	3	0.3	0	0.1	0	0	0.3	1.2	2.5
4	0.8	0.6	0.9	0.6	0.4	0.4	0.6	0.1	2.5	3.1	2.6	3.5	3	4.4	4	4.6	3.7	2.7	2.5	2.7	2.9	3.8	2.8	2.3	2.3
5	2.4	3.1	4.1	4.4	4.9	3	2.6	4.1	5.4	5.8	6.1	6.3	6.4	6.4	5.6	4.6	4.4	3.2	2.5	1.9	1.8	2.3	2.2	2.2	4
6	3.3	3.4	2.7	2.5	4.2	4.7	4.7	5.3	5.7	6.4	6.7	6.2	7.4	7.4	5.8	6.4	5.9	5.7	4.5	4.8	3.8	4.4	4.8	5.6	5.1
7	5.6	7.3	8.6	9	8	8.4	8.1	6.9	7.3	7.5	7.8	7.4	6.2	7.5	7.2	5.4	4.9	5	5.5	4.3	3.8	4.1	3.5	2.9	6.3
8	3.7	4.1	3.9	4.3	3.4	3.3	3.3	4.7	5.3	6.8	6.1	6.8	6.9	7.4	8.1	7	5.3	3.6	3.3	3.3	3.3	3	4.2	5.9	4.9
9	5.2	3.9	5.9	4.3	4.5	3.4	2.4	3.1	3.7	6.4	5.4	5.5	4.5	4.5	4.4	3.9	2.4	0.2	0	0	0	0	0	0	3.1
10	0.1	0.3	0.7	1.4	0.6	0	0	0.1	1.4	1.9	2.5	3	3.6	4.1	4.9	4.3	4	3.4	2.8	2.9	2.4	2	1.8	1.2	2
11	0.8	0.9	1.2	0.5	0	0.7	0.4	0.4	1.7	2.5	2.1	3.4	3.7	3.8	3.5	2.9	2.9	2.8	3.6	1.7	1.3	1	0.8	0.6	1.8
12	0.7	0.6	1.8	0.4	0.6	0.8	0	0.4	2.6	2.5	4.2	5.7	5.8	5.9	5.8	3.9	3	4.1	3.3	3.3	4.3	4.2	4.2	3.7	3
13	2.7	3.1	3.1	3.1	2	1.5	1.2	1.5	2.3	7.3	10	9.3	8.9	8	7.7	6.3	5	6.1	5.9	6.8	6.5	6.4	6.9	6.7	5.3
14	6.7	6.4	6	6.3	6.7	7.3	7.5	7.1	6.7	7.4	7.1	7	6.8	6.9	7.6	7.8	7.2	6.5	5.4	3.8	2.2	2	2.5	3.3	6
15	3.2	4.4	4	4	4.3	2.8	3.4	3.5	3.9	5.1	7.1	7.1	7.2	7.4	7.4	7.8	6.6	6.3	5.3	4.6	3.1	4.1	4.1	5	5.1
16	4.9	5.2	6.2	5.1	5.4	5.4	4.2	3.2	5.3	6.6	6.7	6.5	6	5.7	6.6	6.1	5.5	3.7	3.1	3.3	3	3.9	4.1	4.5	5
17	4.4	4.5	4.7	4.6	5.8	5.5	5.9	5.3	6.7	6.9	8.7	8.9	8.9	9.2	7.7	8.5	7.7	7.2	6.3	6	6.9	5.3	5.9	6.1	6.6
18	5.8	4.9	5.3	5.6	6.6	7.3	7.4	7.5	8	9.2	10.8	11.7	11.1	11.1	10.3	9.9	10.6	9.6	9.9	9.2	9	8.8	9	9.1	8.7
19	8.8	8.7	8.4	8.4	8.6	8	8.1	8.5	9.2	9.8	9.3	8.7	8.8	10.1	9.3	10.3	9.7	9.3	8.6	8.5	7.1	6.8	6.3	6.5	8.6
20	6.8	6	6	5.5	5.1	4.9	4.9	5.5	5.3	7	6.7	6.1	5.3	5.2	5.6	5.1	4.2	3.8	3.3	3.2	3.8	4	3.8	3.5	5
21	2.9	3	3.7	4.4	4.9	3.7	3.2	4.7	5.6	6.3	5.6	5.9	6.2	5.6	6.3	6.7	5.9	4.8	4.8	5.8	5.4	5.2	4.9	5.5	5
22	4.9	3.7	4.7	5.3	4.9	4.3	5.1	5.5	7.3	8.7	8.4	8.4	7.8	7.8	7.4	6.3	6.2	5.4	5	3.9	3.8	4.2	3.6	2.7	5.6
23	2.9	3.3	1.6	1.3	1.5	0.9	1.5	0.4	0.7	1.3	3.2	3.5	3.9	4.6	4.1	3.6	2.7	3.3	3.6	3.6	3.2	2.8	3	3.1	2.6
24	4.2	5	3.6	2.4	3.5	3.9	2.7	3.3	8.1	8.6	8.1	7.3	6.9	6.5	5.7	5.9	4.4	3.1	2.5	0.7	1.4	2.2	4	4.6	4.5
25	3.2	1.3	1.2	1.1	1.4	2.2	1.4	1.6	2.8	2.5	3.7	4.6	6.6	5.6	5.9	5.2	3.2	1.8	2.3	3.1	3.2	3.1	3.4	2.3	3
26	3.1	2.8	2.2	1.8	2.4	1.8	1.7	2	2	2.2	1.6	1.1	2.3	2.4	3.3	3.4	3.3	2.7	1.6	1.7	2.4	2.7	2.3	1.6	2.3
27	2.1	3.1	2.6	2.1	2.4	1.4	1.6	1.5	3.4	3.7	4.1	3.9	3.5	3.3	4.1	3.9	4.8	4.3	5	4.3	3.2	2.6	5	4.9	3.4
28	5	4.8	4.7	5.2	4.5	4.3	3.8	3.4	5.3	7.8	7.5	6.8	7.8	7.1	4.8	4.3	2.7	0.4	1.4	0.9	0.3	0.6	0.2	0.1	3.9
29	0	0	0.8	0.7	0.2	1	0.2	0.2	0.6	2.1	3.4	3.2	3.4	4.1	4.3	3.5	2.4	2.3	2.2	1.2	2.1	1.2	0.6	1.1	1.7
30	1.4	1.5	1.9	1.9	1.1	1.2	0.4	0.8	0.8	2.4	2.3	3	2.9	3.9	4.4	3.8	1.8	1.6	1.8	2	1.7	0.7	0.6	0	1.8
Avg	3.5	3.5	3.6	3.4	3.4	3.2	3.1	3.4	4.4	5.5	5.9	6	6	6.2	5.9	5.6	4.7	4	3.8	3.4	3.2	3.2	3.4	3.4	4.2
SD	2.1	2.1	2.1	2.3	2.4	2.4	2.5	2.4	2.4	2.5	2.5	2.3	2.1	2	1.7	1.9	2.1	2.3	2.2	2.2	2.1	2.1	2.1	2.3	1.9
S/A	0.61	0.61	0.59	0.66	0.69	0.74	0.79	0.72	0.54	0.45	0.42	0.38	0.35	0.33	0.29	0.34	0.44	0.58	0.58	0.67	0.67	0.65	0.64	0.68	0.44
Min	0	0	0.7	0.4	0	0	0	0.1	0.6	1.3	1.6	1.1	2.3	2.4	3.3	2.9	1.8	0.2	0	0	0	0	0	0	1.7
Max	8.8	8.7	8.6	9	8.6	8.4	8.1	8.5	9.2	9.8	10.8	11.7	11.1	11.1	10.3	10.3	10.6	9.6	9.9	9.2	9	8.8	9	9.1	8.7
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

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

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

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

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

**November 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	1005	1005	1004	1004	1004	1004	1005	1005	1006	1006	1005	1005	1004	1003	1004	1004	1004	1005	1005	1006	1006	1007	1007	1007	1005
2	1007	1007	1007	1007	1008	1008	1008	1009	1009	1008	1008	1007	1007	1006	1007	1007	1008	1008	1009	1010	1010	1011	1011	1012	1008
3	1012	1012	1012	1012	1013	1013	1014	1015	1016	1016	1015	1015	1015	1014	1014	1015	1015	1015	1016	1016	1016	1016	1016	1017	1015
4	1017	1016	1016	1016	1016	1017	1017	1017	1016	1016	1016	1015	1015	1014	1013	1013	1013	1014	1014	1014	1014	1014	1014	1014	1015
5	1014	1013	1013	1014	1014	1014	1015	1016	1016	1016	1016	1016	1016	1015	1015	1015	1016	1016	1017	1017	1018	1018	1018	1018	1016
6	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1016	1016	1014	1014	1013	1012	1011	1011	1011	1010	1010	1008	1007	1014
7	1007	1006	1006	1006	1006	1007	1007	1007	1007	1007	1007	1007	1007	1006	1007	1007	1007	1008	1008	1008	1009	1009	1009	1009	1007
8	1009	1009	1010	1010	1010	1010	1011	1012	1012	1012	1012	1012	1011	1011	1011	1011	1011	1012	1013	1013	1014	1014	1015	1015	1012
9	1015	1016	1016	1017	1018	1018	1019	1020	1021	1021	1021	1021	1020	1020	1020	1020	1020	1021	1021	1022	1022	1022	1022	1022	1020
10	1022	1022	1023	1023	1023	1024	1025	1025	1026	1026	1026	1026	1025	1025	1024	1025	1025	1025	1026	1027	1027	1027	1028	1028	1025
11	1028	1028	1028	1028	1028	1029	1029	1030	1031	1031	1031	1031	1030	1029	1029	1029	1029	1029	1029	1030	1030	1030	1030	1030	1029
12	1029	1029	1028	1028	1028	1028	1028	1028	1028	1028	1028	1027	1026	1025	1024	1024	1023	1023	1023	1023	1022	1022	1022	1021	1026
13	1021	1021	1020	1020	1020	1020	1020	1021	1022	1023	1024	1024	1024	1023	1023	1024	1024	1024	1025	1026	1026	1026	1027	1027	1023
14	1027	1026	1026	1026	1026	1027	1027	1028	1028	1028	1028	1028	1027	1027	1027	1027	1027	1027	1027	1027	1027	1027	1026	1026	1027
15	1025	1024	1024	1023	1022	1023	1023	1023	1024	1024	1023	1023	1022	1022	1022	1022	1022	1022	1022	1021	1022	1022	1022	1021	1023
16	1021	1021	1021	1021	1021	1021	1022	1022	1023	1023	1023	1023	1023	1023	1023	1023	1024	1024	1025	1025	1026	1026	1026	1026	1023
17	1026	1026	1026	1026	1027	1027	1027	1028	1028	1029	1029	1029	1029	1028	1028	1028	1029	1029	1029	1029	1029	1029	1028	1028	1028
18	1027	1027	1027	1027	1027	1027	1027	1027	1027	1028	1028	1027	1026	1026	1025	1025	1025	1025	1025	1025	1025	1025	1024	1024	1026
19	1023	1023	1022	1022	1021	1021	1022	1022	1022	1021	1021	1020	1020	1019	1019	1019	1019	1019	1019	1019	1019	1019	1018	1018	1020
20	1017	1017	1017	1017	1017	1017	1017	1017	1018	1018	1017	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1017
21	1016	1016	1016	1016	1016	1016	1016	1017	1018	1018	1018	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018	1017
22	1018	1018	1017	1017	1017	1017	1018	1019	1019	1019	1019	1019	1018	1018	1018	1018	1018	1019	1019	1019	1019	1019	1019	1018	1018
23	1018	1017	1017	1017	1017	1017	1017	1017	1017	1017	1016	1015	1013	1012	1011	1010	1010	1009	1009	1009	1008	1008	1007	1013	
24	1007	1007	1007	1008	1008	1009	1010	1011	1012	1013	1013	1012	1012	1011	1011	1012	1012	1013	1014	1014	1015	1015	1016	1016	1012
25	1017	1016	1017	1017	1017	1017	1018	1018	1019	1019	1019	1018	1016	1015	1015	1015	1015	1015	1016	1016	1016	1017	1016	1016	1017
26	1016	1016	1016	1017	1017	1018	1018	1019	1020	1020	1021	1020	1020	1019	1019	1019	1020	1020	1020	1021	1021	1021	1021	1021	1019
27	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1019	1018	1018	1017	1017	1017	1018	1018	1018	1019	1020	1020	1020	1020	1019
28	1021	1020	1020	1021	1021	1021	1022	1023	1023	1024	1024	1024	1023	1023	1023	1023	1023	1024	1025	1025	1026	1026	1026	1026	1023
29	1026	1026	1027	1027	1027	1028	1028	1029	1030	1030	1030	1030	1029	1028	1027	1027	1027	1027	1027	1028	1028	1028	1028	1028	1028
30	1027	1027	1027	1027	1027	1027	1027	1027	1028	1028	1028	1027	1026	1025	1025	1025	1025	1025	1025	1025	1025	1025	1026	1025	1026
Avg	1019	1018	1018	1018	1018	1019	1019	1020	1020	1020	1020	1019	1018	1018	1018	1018	1018	1019	1019	1019	1020	1020	1020	1019	1019
S D	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	1005	1005	1004	1004	1004	1004	1005	1005	1006	1006	1005	1005	1004	1003	1004	1004	1005	1005	1006	1006	1007	1007	1007	1005	1005
Max	1029	1029	1028	1028	1028	1029	1029	1030	1031	1031	1031	1031	1030	1029	1029	1029	1029	1029	1029	1030	1030	1030	1030	1030	1029
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

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

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

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

**November 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	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.5	13.7	13.6	13.5	13.4	13.4	13.4	13.5	13.3	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
2	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.8	13.7	13.6	13.4	13.5	13.3	13.2	13.5	13.4	13.3	12.8	12.8	12.7	12.7	12.7	12.7	12.6	13
3	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.9	13.7	13.6	13.5	13.5	13.6	13.6	13.6	13.6	13.3	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13.1
4	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13.7	13.6	13	12.9	12.9	13	12.9	13	12.8	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.8
5	12.6	12.6	12.6	12.6	12.5	12.5	12.6	13.8	13.7	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13.3	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
6	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.7	13.8	13.7	13.7	13.6	13.6	13.5	13	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.4	13.2	13.3	13.6	13.3	12.9	12.8	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.8
8	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13.6	13.7	13.5	13.5	13.5	13.4	13.4	13.5	13.3	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.9
9	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.9	13.7	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13.2	12.9	12.8	12.7	12.7	12.7	12.7	12.7	13
10	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.8	13.6	13.4	13.3	13.3	13.2	13.3	13.2	13.3	13.2	12.9	12.8	12.8	12.7	12.7	12.7	12.7	13
11	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13.7	13.6	13.4	13.3	13.2	13.2	13.2	13.2	13.3	13.2	12.9	12.8	12.8	12.8	12.7	12.7	12.7	13
12	12.7	12.7	12.7	12.7	12.7	12.6	12.7	13.6	13.5	13.3	13.3	13.2	13.2	13.2	13.2	13.2	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.7	12.9
13	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13	12.7	13.1	13.1	13	12.8	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.7
14	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.9	13.5	13.7	13.7	13.7	13.4	13.4	13.4	12.9	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.9
15	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.7	13.6	13.6	13.5	13.5	13.5	13.5	13.2	13	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.9
16	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.2	13.7	13.6	13.5	13.5	13.5	13.5	13.6	13.4	12.9	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13
17	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.4	13.7	13.6	13.5	13.5	13.5	13.5	13.6	13.3	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.7	13
18	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.7	13.1	13.5	13.5	13.5	13.2	13.1	13.2	13	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.9
19	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13.1	13.1	13	12.8	12.7	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.7
20	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13	13.5	13.5	13.4	13.4	13.2	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.8
21	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.6	13.7	13.6	13.5	13.4	13.5	13.5	13.5	13.4	13.3	12.9	12.8	12.8	12.7	12.7	12.7	12.7	13
22	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.4	13.7	13.6	13.5	13.5	13.4	13.5	13.5	13.5	13.2	12.9	12.8	12.8	12.8	12.7	12.7	12.7	13
23	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13.7	13.7	13.5	13.4	13.4	13.3	13.3	13.3	13.4	13.1	12.8	12.8	12.8	12.8	12.8	12.7	12.7	13
24	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.7	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.4	12.9	12.8	12.8	12.7	12.7	12.7	12.7	13.1
25	12.7	12.6	12.6	12.6	12.5	12.5	12.5	14.1	13.9	13.8	13.7	13.6	13.6	13.6	13.6	13.7	13.4	12.9	12.8	12.8	12.8	12.8	12.7	12.7	13.1
26	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.7	13.7	13.6	13.4	13.3	13.3	13.3	13.4	13.4	13.2	12.9	12.8	12.8	12.7	12.7	12.7	12.7	13
27	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.1	13.6	13.6	13.5	13.5	13.5	13.5	13.2	12.9	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13
28	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.4	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.3	12.9	12.8	12.8	12.8	12.7	12.7	13.1
29	12.7	12.7	12.6	12.6	12.6	12.6	12.5	13.7	13.9	13.7	13.6	13.5	13.5	13.5	13.5	13.6	13.3	12.9	12.8	12.8	12.8	12.7	12.7	12.7	13.1
30	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13.5	13.8	13.7	13.6	13.5	13.4	13.4	13.4	13.5	13.3	12.9	12.8	12.8	12.8	12.8	12.7	12.7	13.1
Avg	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.3	13.5	13.5	13.4	13.4	13.4	13.4	13.3	13.3	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
S D	0.1	0.1	0.1	0	0	0	0.1	0.5	0.4	0.2	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
S/A	0	0	0	0	0	0	0.01	0.04	0.03	0.02	0.02	0.01	0.01	0.01	0.02	0.02	0.02	0.01	0.01	0	0	0	0	0	0.01
Min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.7	12.9	12.9	13	12.8	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.7
Max	12.7	12.7	12.7	12.7	12.7	12.7	12.9	14.1	13.9	13.8	13.7	13.7	13.7	13.6	13.6	13.7	13.4	12.9	12.8	12.8	12.8	12.8	12.8	12.7	13.1
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

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

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

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