

December 2007

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	2	35	132	356	404	446	450	391	307	152	43	0	0	0	0	0	0	0	2718
2	0	0	0	0	0	0	2	45	104	282	215	388	288	110	138	31	4	0	0	0	0	0	0	0	1605
3	0	0	0	0	0	0	0	33	171	285	419	503	484	464	313	166	27	0	0	0	0	0	0	0	2864
4	0	0	0	0	0	0	0	27	135	275	415	482	286	220	315	139	29	0	0	0	0	0	0	0	2322
5	0	0	0	0	0	0	0	14	43	113	157	158	123	94	87	96	20	0	0	0	0	0	0	0	906
6	0	0	0	0	0	0	0	20	103	307	444	406	450	454	336	172	24	0	0	0	0	0	0	0	2716
7	0	0	0	0	0	0	0	36	139	116	121	145	341	355	192	84	12	0	0	0	0	0	0	0	1540
8	0	0	0	0	0	0	0	40	160	245	383	418	452	343	306	135	27	0	0	0	0	0	0	0	2508
9	0	0	0	0	0	0	0	28	111	148	191	255	412	382	271	135	29	0	0	0	0	0	0	0	1962
10	0	0	0	0	0	0	0	28	151	295	397	448	452	382	286	140	32	0	0	0	0	0	0	0	2612
11	0	0	0	0	0	0	0	8	34	80	109	115	119	93	66	33	9	0	0	0	0	0	0	0	667
12	0	0	0	0	0	0	0	34	104 ?	?	?	?	?	?	?	94 ?	32	0	0	0	0	0	0	0	265 ?
13	0	0	0	0	0	0	0	14	77	203	256	315	319 ?	314 ?	223 ?	125 ?	32	0	0	0	0	0	0	0	1877 ?
14	0	0	0	0	0	0	0	20	43	151	192 ?	201 ?	221 ?	160 ?	103 ?	98 ?	39	0	0	0	0	0	0	0	1227 ?
15	0	0	0	0	0	0	0	28	80	80	172	69	61	77	61	40	7	0	0	0	0	0	0	0	674
16	0	0	0	0	0	0	0	2	18 ?	56	70	134	208	?	?	104 ?	41	0	0	0	0	0	0	0	633 ?
17	0	0	0	0	0	0	0	39	116 ?	?	457	509 ?	?	?	?	110 ?	40	0	0	0	0	0	0	0	1271 ?
18	0	0	0	0	0	0	0	36	110 ?	?	445	505 ?	?	?	?	86 ?	35	0	0	0	0	0	0	0	1218 ?
19	0	0	0	0	0	0	0	24	91	168	411	487 ?	273 ?	104	102	84	25	0	0	0	0	0	0	0	1769 ?
20	0	0	0	0	0	0	0	45	188	266 ?	440 ?	497 ?	477 ?	343	302	155	34	0	0	0	0	0	0	0	2747 ?
21	0	0	0	0	0	0	0	17	97	163	205	168	180	90	63	21	11	0	0	0	0	0	0	0	1015
22	0	0	0	0	0	0	0	27	111	287 ?	383	418	318	146	96	76	20	0	0	0	0	0	0	0	1881
23	0	0	0	0	0	0	0	13	52	74	167	202	181	191	248	112	29	0	0	0	0	0	0	0	1271
24	0	0	0	0	0	0	0	34	156	268 ?	457 ?	501 ?	510 ?	443	338	170	40	0	0	0	0	0	0	0	2917 ?
25	0	0	0	0	0	0	0	25	159	357 ?	267 ?	359 ?	414	245	186	86	30	0	0	0	0	0	0	0	2129 ?
26	0	0	0	0	0	0	0	1	4 ?	33 ?	60 ?	57	72	63 ?	?	5 ?	3	0	0	0	0	0	0	0	298 ?
27	0	0	0	0	0	0	0	13	36 ?	?	387 ?	431 ?	?	?	?	?	40	0	0	0	0	0	0	0	906 ?
28	0	0	0	0	0	0	0	17	82	201	260	288	436 ?	228 ?	?	?	89	22	0	0	0	0	0	0	1621 ?
29	0	0	0	0	0	0	0	14	68	138	265	148	199	152	79 ?	32	7	0	0	0	0	0	0	0	1103
30	0	0	0	0	0	0	0	3	16 ?	40 ?	46	58	60	126	110	36	9	0	0	0	0	0	0	0	501
31	0	0	0	0	0	0	0	30	88 ?	?	?	511 ?	507	453	343	187	46	0	0	0	0	0	0	0	2165 ?
Avg	0	0	0	0	0	0	0	24	96	192	283	321	307	247	203	100	26	0	0	0	0	0	0	0	1610 ?
S D	0	0	0	0	0	0	0	12	49	100	137	161	149	139	106	50	13	0	0	0	0	0	0	0	813
S/A	0	0	0	0	0	0	3.87	0.51	0.51	0.52	0.49	0.5	0.48	0.56	0.52	0.5	0.49	0	0	0	0	0	0	0	0.51
Min	0	0	0	0	0	0	0	1	4	33	46	57	60	63	61	5	3	0	0	0	0	0	0	0	265
Max	0	0	0	0	0	0	2	45	188	357	457	511	510	464	343	187	46	0	0	0	0	0	0	0	2917
n	0	0	0	0	0	0	2	323	311	276	315	305	284	281	271	304	299	0	0	0	0	0	0	0	2974

Daylight Data Recovery: 0.0% missing; 0.0% untested; 17.4% exceed the 15% QC threshold -- 3600 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31256F3 Calibration Factor: 7.561 μV/W/m² Calibration Date: 08/2003

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

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

December 2007

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	16	36	455	398	359	420	494	449	473	241	0	0	0	0	0	0	0	3340
2	0	0	0	0	0	0	1	30	30	136	7	130	120	0	14	0	0	0	0	0	0	0	0	0	466
3	0	0	0	0	0	0	0	42	241	348	620	700	735	791	564	302	25	0	0	0	0	0	0	0	4370
4	0	0	0	0	0	0	0	1	132	185	466	607	66	77	459	162	26	0	0	0	0	0	0	0	2180
5	0	0	0	0	0	0	0	0	2	2	0	0	0	0	0	173	23	0	0	0	0	0	0	0	201
6	0	0	0	0	0	0	0	26	7	432	575	375	561	770	794	665	108	0	0	0	0	0	0	0	4315
7	0	0	0	0	0	0	0	6	30	1	1	1	250	370	107	2	0	0	0	0	0	0	0	0	767
8	0	0	0	0	0	0	0	133	428	212	416	552	627	314	522	392	123	0	0	0	0	0	0	0	3718
9	0	0	0	0	0	0	0	69	88	54	23	82	411	570	492	368	124	0	0	0	0	0	0	0	2281
10	0	0	0	0	0	0	0	73	389	558	606	589	568	488	444	318	129	0	0	0	0	0	0	0	4163
11	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
12	0	0	0	0	0	0	0	2	6 ?	?	?	?	?	?	?	3 ?	1	0	0	0	0	0	0	0	12 ?
13	0	0	0	0	0	0	0	0	0	2	3	4	4 ?	5 ?	5 ?	2 ?	0	0	0	0	0	0	0	0	24 ?
14	0	0	0	0	0	0	0	0	0	2	2 ?	0 ?	4 ?	1 ?	1 ?	37 ?	184	0	0	0	0	0	0	0	230 ?
15	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
16	0	0	0	0	0	0	0	0	0	0	0	1	2	?	?	3 ?	1	0	0	0	0	0	0	0	7 ?
17	0	0	0	0	0	0	0	3	7 ?	?	7	8 ?	?	?	?	4 ?	2	0	0	0	0	0	0	0	31 ?
18	0	0	0	0	0	0	0	5	12 ?	?	8	9 ?	?	?	?	3 ?	2	0	0	0	0	0	0	0	39 ?
19	0	0	0	0	0	0	0	1	5	8	15	9 ?	7 ?	0	0	12	70	0	0	0	0	0	0	0	127 ?
20	0	0	0	0	0	0	0	256	630	748 ?	814 ?	842 ?	845 ?	598	638	459	205	0	0	0	0	0	0	0	6034 ?
21	0	0	0	0	0	0	0	0	3	5	7	0	2	0	0	0	0	0	0	0	0	0	0	0	17
22	0	0	0	0	0	0	0	20	91	154	170	146	25	0	0	0	0	0	0	0	0	0	0	0	607
23	0	0	0	0	0	0	0	0	0	0	0	0	1	3	195	120	10	0	0	0	0	0	0	0	330
24	0	0	0	0	0	0	0	290	648	765 ?	929 ?	947 ?	938 ?	824	750	514	145	0	0	0	0	0	0	0	6749 ?
25	0	0	0	0	0	0	0	0	271	689 ?	234 ?	303 ?	357	73	54	3	0	0	0	0	0	0	0	0	1983 ?
26	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	1
27	0	0	0	0	0	0	0	0	0 ?	?	16 ?	16 ?	?	?	?	?	3	0	0	0	0	0	0	0	36 ?
28	0	0	0	0	0	0	0	0	1	10	7	4	20 ?	11 ?	?	1	0	0	0	0	0	0	0	0	54 ?
29	0	0	0	0	0	0	0	0	2	7	12	1	0	0	0	0	0	0	0	0	0	0	0	0	23
30	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	2
31	0	0	0	0	0	0	0	3	13 ?	?	?	876 ?	880	855	788	638	314	0	0	0	0	0	0	0	4370 ?
Avg	0	0	0	0	0	0	0	31	99	184	184	219	253	240	251	155	56	0	0	0	0	0	0	0	1499 ?
S D	0	0	0	0	0	0	0	71	184	260	284	314	326	319	299	218	86	0	0	0	0	0	0	0	2055
S/A	0	0	0	0	0	0	5.57	2.25	1.85	1.42	1.54	1.43	1.29	1.33	1.19	1.41	1.54	0	0	0	0	0	0	0	1.37
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
Max	0	0	0	0	0	0	1	290	648	765	929	947	938	855	794	665	314	0	0	0	0	0	0	0	6749
n	0	0	0	0	0	0	2	323	329	288	320	306	286	287	285	314	299	0	0	0	0	0	0	0	3041

Daylight Data Recovery: 0.0% missing; 0.0% untested; 15.5% exceed the 15% QC threshold -- 3600 total daylight measurements.

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

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

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

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

December 2007

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	?	35	121	169	183	220	193	130	129	45	21	0	0	0	0	0	0	0	1248
2	0	0	0	0	0	0	?	41	101	223	213	315	213	110	131	31	4	0	0	0	0	0	0	0	1380
3	0	0	0	0	0	0	0	31	108	143	103	115	76	72	88	92	22	0	0	0	0	0	0	0	850
4	0	0	0	0	0	0	0	26	94	188	168	142	246	173	140	93	26	0	0	0	0	0	0	0	1298
5	0	0	0	0	0	0	0	15	43	113	157	158	123	94	87	68	17	0	0	0	0	0	0	0	876
6	0	0	0	0	0	0	0	21	102	131	166	201	145	82	44	31	11	0	0	0	0	0	0	0	933
7	0	0	0	0	0	0	0	39	134	116	121	145	201	168	146	84	12	0	0	0	0	0	0	0	1165
8	0	0	0	0	0	0	0	26	66	164	182	123	118	183	116	49	16	0	0	0	0	0	0	0	1043
9	0	0	0	0	0	0	0	21	96	127	174	195	187	112	93	58	20	0	0	0	0	0	0	0	1081
10	0	0	0	0	0	0	0	22	63	85	102	115	115	108	92	58	20	0	0	0	0	0	0	0	780
11	0	0	0	0	0	0	0	9	34	80	109	115	119	93	66	33	9	0	0	0	0	0	0	0	668
12	0	0	0	0	0	0	0	20	36 ?	?	?	?	?	?	?	37 ?	18	0	0	0	0	0	0	0	112 ?
13	0	0	0	0	0	0	0	15	77	194	237	266	247 ?	232 ?	167 ?	96 ?	29	0	0	0	0	0	0	0	1560 ?
14	0	0	0	0	0	0	0	20	43	144	185 ?	200 ?	181 ?	134 ?	97 ?	41 ?	22	0	0	0	0	0	0	0	1068 ?
15	0	0	0	0	0	0	0	30	80	80	172	69	55	77	61	40	7	0	0	0	0	0	0	0	671
16	0	0	0	0	0	0	0	2	17	53	66	134	192	?	?	35 ?	20	0	0	0	0	0	0	0	520 ?
17	0	0	0	0	0	0	0	14	28 ?	?	363 ?	433 ?	?	?	?	24 ?	11	0	0	0	0	0	0	0	872 ?
18	0	0	0	0	0	0	0	16	30 ?	?	351 ?	427 ?	?	?	?	67 ?	19	0	0	0	0	0	0	0	909 ?
19	0	0	0	0	0	0	0	26	83	149	289 ?	426 ?	251 ?	104	102	75	22	0	0	0	0	0	0	0	1526 ?
20	0	0	0	0	0	0	0	17	44	84 ?	?	?	92 ?	75	79	55	16	0	0	0	0	0	0	0	462 ?
21	0	0	0	0	0	0	0	18	97	163	205	168	180	90	63	21	11	0	0	0	0	0	0	0	1016
22	0	0	0	0	0	0	0	23	72	205	349	381	285	146	96	76	20	0	0	0	0	0	0	0	1654
23	0	0	0	0	0	0	0	14	52	74	167	202	181	191	173	78	27	0	0	0	0	0	0	0	1161
24	0	0	0	0	0	0	0	13	36	77 ?	?	?	78 ?	70	71	49	25	0	0	0	0	0	0	0	420 ?
25	0	0	0	0	0	0	0	25	101	175 ?	231 ?	289 ?	254	204	160	86	30	0	0	0	0	0	0	0	1555 ?
26	0	0	0	0	0	0	0	1	5 ?	30	51	57	72	54	22	10 ?	3	0	0	0	0	0	0	0	305 ?
27	0	0	0	0	0	0	0	12	29 ?	?	331 ?	362 ?	?	?	?	?	15	0	0	0	0	0	0	0	749 ?
28	0	0	0	0	0	0	0	19	82	176	243	284	333 ?	154 ?	?	85	22	0	0	0	0	0	0	0	1397 ?
29	0	0	0	0	0	0	0	15	66	131	254	148	199	152	65	32	7	0	0	0	0	0	0	0	1069
30	0	0	0	0	0	0	0	3	15	28	44	58	60	126	110	37	9	0	0	0	0	0	0	0	489
31	0	0	0	0	0	0	0	18	36 ?	?	?	68 ?	65	61	54	43	17	0	0	0	0	0	0	0	363 ?
Avg	0	0	0	0	0	0	0	20	64	127	193	208	165	123	98	54	17	0	0	0	0	0	0	0	942 ?
S D	0	0	0	0	0	0	0	10	34	54	89	116	76	48	40	24	7	0	0	0	0	0	0	0	406
S/A	0	0	0	0	0	0	0	0.49	0.53	0.42	0.46	0.56	0.46	0.39	0.4	0.45	0.43	0	0	0	0	0	0	0	0.43
Min	0	0	0	0	0	0	0	1	5	28	44	57	55	54	22	10	3	0	0	0	0	0	0	0	112
Max	0	0	0	0	0	0	0	41	134	223	363	433	333	232	173	96	30	0	0	0	0	0	0	0	1654
n	0	0	0	0	0	0	0	305	320	286	283	281	286	286	285	306	299	0	0	0	0	0	0	0	2939

Daylight Data Recovery: 0.0% missing; 0.0% untested; 18.4% exceed the 15% QC threshold -- 3600 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17880F3 Calibration Factor: 8.067 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 07/2002

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

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

December 2007

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	3	3.2	2.7	3.2	3.7	3.2	2.7	2.8	3.9	6.9	9	10.2	10.9	10.8	10.8	10.5	8.7	7.1	6.1	5.4	4.8	4.3	4	4.3	5.9
2	4.7	4.6	4.7	4.1	3.7	3.4	3.8	4.7	6.9	9.3	10.3	12.5	13.5	13.7	13.6	13.3	13	12.7	12.4	12.3	12.4	12.7	12.3	12.9	9.5
3	13.8	14.7	15.9	16.5	16.8	16.8	16.7	16.4	16.5	17.1	17.7	18.3	18	16.8	15.3	13.2	10.6	8.9	7.7	6.3	5.1	3.9	3.1	2.4	12.9
4	2	1.8	2	1.9	1.7	1.8	1.4	1	1.7	3.2	5.3	6.5	6.8	6.7	7.1	6.9	5.9	5	4.8	4.6	4.2	4.2	3.7	3.5	3.9
5	3	1.8	0.6	0.2	-0.3	0.1	0.3	1.2	2.6	4.5	5.9	7.2	7.8	8.3	8.1	8.1	7.5	7.2	6.1	6.2	6.6	6.4	7.1	6.7	4.7
6	5	4.3	3.2	2.7	1.8	1.1	1.1	0.9	0.8	1	2.6	3.3	3.9	4.4	4.4	4.2	2.6	1.4	0.9	0.5	0.2	0.2	0.1	-0.1	2.1
7	-0.1	0	0.4	0.5	0.5	0.9	1.6	2.5	4.3	5.2	5.9	6.7	8	9.8	10.2	9.9	9.5	9.3	9.2	8.9	8.5	8.3	8.1	8.1	5.7
8	8.1	7.7	7.5	7.6	7.5	7.2	6.9	7.2	8.4	10.4	12.4	14.2	16.1	17.3	18.1	18.6	16.2	13.8	11.1	10.2	9.5	9.2	8.8	8.9	10.9
9	9	9	9.3	9.6	9.8	9.8	9.9	9.9	11.3	12.6	13.9	15.4	16.9	17.8	18.2	18.4	17.7	17.2	16	15.5	15.6	15.7	15.5	15.4	13.7
10	15.2	14.8	14.6	14.4	15.3	15.4	15.3	15.3	16.4	18.4	20.3	22	23.4	24.4	25	24.9	23.8	22.1	21.1	20.3	19.4	18.7	17.6	17.3	19
11	17.6	17	16.5	14.5	11.3	11.3	11.5	11.6	11.4	11.6	12.3	12.9	13.2	13.5	13.9	13.9	13.5	13.3	12.9	12.7	12.7	12	11.8	11.7	13.1
12	11.7	12.1	12.9	14.4	14.8	14.6	14.9	15.7	16.9	18.4	20.1	22.1	23.5	24.2	24.4	24.2	23.2	21.7	20.6	19.3	16.4	14	13.1	12.6	17.8
13	12	11.7	11.9	11.8	11.4	11.2	11.1	11.3	11.9	13	14.2	16.6	17.2	19.1	21.1	22	21.2	19.9	18.9	18.2	16.3	15.6	14.8	15	15.3
14	14.7	14.3	14.4	14.8	14.8	14.5	14.2	13.2	11.9	12.5	13.5	13.8	14.3	14.6	13.9	13.2	12.1	10.9	10	9.6	9.3	8.9	8.5	8.2	12.5
15	7.7	7.6	8	7.4	6.5	5.3	4.8	5.2	6	8	8.9	8.8	8.7	8.6	8.7	8.9	9.1	9.4	10.1	10.6	10.5	11.3	13.2	15	8.7
16	17	17.9	18.7	19.4	19.5	19.3	19.4	19.2	18.9	17.5	16.3	12.4	10.6	10.7	11	10.9	10.4	9.9	8.1	6.7	5.7	5	4.4	3.7	13
17	3.2	2.7	2.3	1.9	1.4	1.1	0.7	0.7	1.6	2.8	3.8	4.6	5.1	5.3	5.5	5.5	4.9	3.6	2.6	1.9	0.9	0.8	1.1	0.8	2.7
18	0.4	0	-0.5	-1.4	-1.9	-1.7	-1.4	-1.2	0.8	3.2	4	5.1	6.4	7.3	8	7.2	6.6	5	4.2	4.1	4.1	3.7	3.6	3	2.9
19	3.2	3.3	3.2	3.1	2.7	2.9	2.9	2.7	3.7	5.8	7.9	9.3	10.4	9.8	9	9.2	8.8	8	7.4	6.8	6.6	6.3	5.8	5.4	6
20	4.8	4.2	4.3	4	3.3	2.7	2.1	1.8	3.3	6.9	8.8	9.7	10.6	10.8	10.7	10.1	8.3	6.7	5.7	5.2	5.1	4.8	4.3	4	5.9
21	3.9	4.5	4.9	5.1	5.6	6.7	7.1	7.4	8	9	9.7	10	10.1	9.9	9.6	9.3	9.2	9.3	9.5	9.5	9.7	9.9	10.1	10.1	8.3
22	10.2	10.3	10.3	10.2	10.2	10.2	9.8	9.7	10.5	12	12.9	13.6	13.9	13.3	12.7	11.9	11.6	11.5	11.4	11	10.8	11	11.3	11.4	11.3
23	11.5	11.3	10.7	10.3	9.9	10.2	12.2	14.5	15.5	16.3	16.8	18.2	19	19.3	20.2	20.3	19.7	19.3	18.8	19.2	18.7	18	16.9	15.7	15.9
24	14.6	13.7	12.6	11.1	9.3	8	7.2	6.6	7.3	8.1	9.3	10.3	11.2	12.4	13.2	13.2	12.4	11.1	10.2	9	8.6	7.8	7.3	7.1	10.1
25	7	6.9	6.8	6.4	6.1	5.7	5	4.7	5.8	8.7	10.7	11	11.2	10.5	10.2	9.5	9	8.2	7.5	7.1	7.1	7.3	7.4	7.7	7.8
26	8	8.3	8.5	8.4	8.4	8.4	8	8.2	8.5	8.4	8.4	8.2	8.3	8.3	7.7	7	6.5	5.6	5.1	5	4.7	4.7	4.7	4.5	7.2
27	4.3	4.3	4.3	4.3	4.1	4.1	4.2	4.3	4.6	6.3	7.5	9.2	10.3	11.6	12.9	13.3	12.8	11.2	9.7	8.7	7.7	7.6	8.2	8.4	7.7
28	8.1	7.8	6.1	5.9	5.3	5.4	5.1	5.4	6.8	8.7	10.6	12.2	13.5	13.7	14	14	12.8	11.9	11.6	11.5	12.8	14.6	15.9	16.7	10.4
29	16.9	17.8	18.1	18.1	17.8	18	18.3	18.1	18.6	19.3	20.6	21.7	22.6	22.8	22.9	22	19	13.8	13	12.6	12.3	11.8	11.8	11.6	17.5
30	11.3	11.3	11.4	11.4	11.4	11.2	10.6	10.2	9.8	9.7	9.1	9	9.3	9.9	10.6	10.7	10.4	10.3	9.6	9.4	9.5	9.7	9.6	9.7	10.2
31	10.6	11	10.9	9.3	8.4	7.3	6.3	5.6	6.2	7.8	9.9	11.5	12.5	13.2	13.4	13.1	12.3	10.7	9.2	8.4	8	7.6	7.1	7	9.5
Avg	8.5	8.4	8.3	8.1	7.8	7.6	7.5	7.6	8.4	9.8	10.9	11.8	12.5	12.9	13	12.8	11.9	10.8	10.1	9.6	9.2	8.9	8.7	8.7	9.7
SD	5.2	5.3	5.5	5.6	5.7	5.7	5.7	5.7	5.4	5	4.9	5	5.1	5.2	5.4	5.5	5.3	5.1	5	5	4.8	4.8	4.7	4.9	4.6
S/A	0.61	0.63	0.66	0.69	0.73	0.74	0.76	0.75	0.64	0.51	0.44	0.42	0.41	0.41	0.41	0.43	0.44	0.47	0.5	0.52	0.53	0.54	0.54	0.56	0.47
Min	-0.1	0	-0.5	-1.4	-1.9	-1.7	-1.4	-1.2	0.8	1	2.6	3.3	3.9	4.4	4.4	4.2	2.6	1.4	0.9	0.5	0.2	0.2	0.1	-0.1	2.1
Max	17.6	17.9	18.7	19.4	19.5	19.3	19.4	19.2	18.9	19.3	20.6	22.1	23.5	24.4	25	24.9	23.8	22.1	21.1	20.3	19.4	18.7	17.6	17.3	19
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

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

December 2007

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	95.6	94.2	97.1	102.6	104.9 ?	102.1	97.4	88.1	78.4	70.5	67.2	61.8	49.5	46	44.2	43.3	51.6	54.7	63	67	68.8	71.4	73.2	74.5	73.6
2	75.5	78.7	81.9	87.8	93.8	94.8	96.8	96.4	93.6	91.3	92.9	87.5	80	76.1	78.2	86.4	90.9	93.5	98.5	100.4	102.6	104.6 ?	?	?	90.1 ?
3	?	?	?	?	?	?	103.8	103.1	101.4	95.4	86.2	68.1	51.7	38	42.2	40	44	49.6	51.7	55.7	57.9	62.2	65.1	67.6	65.8 ?
4	69.5	70.8	69.4	69.5	71.5	70.3	72.7	75.6	73	62.9	53.8	47.8	47.1	47.6	45.8	46.3	50.6	55.3	56.1	57	55.9	53.1	53.9	54.7	59.6
5	60.4	66.8	71.8	76.6	79.6	77.2	83.2	83.1	84.7	84.1	82.2	67.1	55.2	52.6	60.1	60.9	65.6	68.3	76.2	77.6	85.4	84.2	81.1	87.8	73.8
6	96.7	98.8	95.6	92.2	92.5	91	91.5	92.3	88.6	85.2	79.8	75.7	70	63.1	56.1	56.1	61.3	66.8	71.5	76.7	79.1	78.7	79.4	80.2	80
7	83.2	84.7	86.4	89.4	91.7	92.1	92.2	91.7	87.3	88.1	90.5	86.6	84.8	78.5	79.7	84.1	85.6	89.2	91	93.6	95.7	96.6	96.9	96	89
8	96.1	97.3	96.9	94.4	94.8	96.8	98.8	99.1	97	94.7	89.2	84.7	79.4	76.1	73.7	72.1	81.3	87.4	93.8	92.7	92.2	93.7	97.9	100.5	90.9
9	103	104.4	104.5	103.8	103.3	103	103.4	103.5	101.6	100.7	98.2	93.8	90.6	88.6	88.9	89.8	93.7	94.8	97.7	100.3	102.3	101.9	101.8	102.3	99
10	103.1	104.5	?	?	103.9 ?	104.2	104.5	104.3	101.8	96.1	88.5	81.3	75.4	71.8	68.9	69.4	73.8	79.2	82	84.9	88.6	91.5	95.5	96.6	89.5 ?
11	95.9	97.6	99.1	102.7	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	98.8 ?
12	?	?	?	104 ?	104.3	?	?	104.1 ?	101.5	97.9	92.6	84.4	76.2	71.4	71.1	71.1	75.6	82	86.6	90.8	92	99.4	100.7	99.9	89.8 ?
13	94.7	96.4	99.1	100	98.9	98.2	97.5	97.1	97.5	96.5	95.6	92.8	92.1	88.4	83.4	80.7	83.3	88.3	93.4	94	93.2	93.9	96.8	97.7	93.7
14	101.3	103.7	103.7	99.9	98.4	98.1	97.6	100.7	?	103 ?	98.1	92.6	87.1	85.1	87.6	89.3	93.2	98.3	100.6	102	102	99.4	99	100.8	97.5
15	102.2	102.7	100.3	96.4	93.3	93.4	95.2	95.7	94.5	90.9	87.7	87.7	89.1	92.6	91.8	93	93.4	98.2	100.2	102	?	?	?	?	95 ?
16	?	?	?	?	?	?	?	?	?	?	101.2 ?	100	98.5	91.1	85	77.4	79.9	70	62.3	58.8	60.5	63.3	66	69.1	77.4 ?
17	70.6	71.2	71.8	72.2	72.1	72.6	72.8	71.3	68.3	59.6	52.7	47.5	46.5	45.2	44.2	43.5	47.1	54.5	60.6	64.3	70.9	72.1	70.4	72.7	62.3
18	73.4	75.3	76	79.2	82.9	87.5	91.2	90.2	83.1	75.2	68.7	63.8	56.5	53.4	52.6	54.4	57.7	68.7	84.2	87	84.8	86.7	85.5	90.5	75.3
19	92.1	90.9	88	88.8	93.5	95.9	98	99.5	98.3	91.6	70.2	54.3	47.5	56.4	71.3	80.8	87.9	93.1	95.8	97.6	97.8	97.5	97.9	98	86.8
20	100.1	102.3	102.1	101.7	103.6	105 ?	?	?	102.1	90.8	80.3	76.9	74.7	76.2	76.5	78.8	86.1	92.8	95.7	98.1	99.1	99.7	100.6	101.4	92.9 ?
21	103	101.5	100.7	100.6	100.9	97.3	92.8	92.6	92	88.9	86	84.7	85.4	88.7	92	93.5	94.7	96.4	97.4	100.1	101.4	101.8	102.2	102.8	95.7
22	103.3	103.3	103	103.4	103.4	103	103.7	104.1	101.7	98.1	95.6	92.8	91.5	94.1	97.9	103.1	103.3	103	103.2	104.5 ?	?	?	?	?	100.8 ?
23	?	?	?	?	?	?	?	?	104.5 ?	103.5	103.5	100.2	97.3	98.4	95.8	95.1	97.6	100	101.7	99.7	101.8	100.5	96.9	96.1	99.5 ?
24	95.5	96.6	96.3	71.7	70	70.9	67.1	67.4	64.1	59.3	53.8	51.7	50.2	46.2	46.1	47.2	50.2	56.8	59.7	66.2	65.1	71.3	77.3	77.5	65.8
25	77.2	77.8	76.6	77.9	79.3	81.4	84.8	83.9	78.1	76.8	76.4	72	71.8	75.4	77.9	80.8	82.6	87.3	93.3	96.9	98.6	98.6	98.2	97.8	83.4
26	96.1	94.9	93.7	96.2	98.7	100.2	103.9 ?	?	?	?	?	?	?	103.7	104 ?	104.5 ?	104.4 ?	?	?	?	104.8	104.6	104.6	105 ?	101.3 ?
27	?	?	?	?	?	?	?	?	104.6 ?	100.2	97.1	92.6	89.3	88	82.9	80.9	84.5	91.8	97.5	100.6	103.6	104.6 ?	103.8	103.1	95.3 ?
28	103.7	103.4	?	?	?	?	?	?	?	103.2 ?	101.4	97.4	90.6	86.2	83.8	87	95.3	98.9	101.4	103.7	103.4	104.5	103.8	101.5	98.2 ?
29	101.8	101	99.2	98.8	100.3	101	102.7	103.3	103.6	103.4	101.4	97.5	91.9	89.4	88.6	94.3	100.3	104.1 ?	?	?	?	104.3 ?	102.5	99.5 ?	
30	100.5	99.4	95.6	95	95.9	95.2	99.5	99.1	97.6	95.2	102.1	?	?	103.8	102.5	102.7	104.3	?	?	?	?	?	?	?	99.2 ?
31	?	?	?	?	104.3	104.3 ?	?	?	104.8 ?	100	88.3	76.8	66.3	59.4	56.7	63.7	69.1	77.6	85.4	98.7	100.7	103.7	?	?	85 ?
Avg	91.8	92.7	91.7	91.9	93.4	93.1	93.5	93.3	92.5	89.4	85.6	79.3	74.5	74.4	74.3	75.7	79.6	82.2	85.2	87.8	88.8	90	90.1	91.1	87.2 ?
S D	13	12.1	11.4	11.4	11.1	10.9	10.7	10.7	11.9	13.2	14.9	16.1	17.4	19.2	18.7	19.3	18.5	16.9	16.3	16.1	15.9	15.4	14.9	14	12.4
S/A	0.14	0.13	0.12	0.12	0.12	0.12	0.11	0.12	0.13	0.15	0.17	0.2	0.23	0.26	0.25	0.25	0.23	0.21	0.19	0.18	0.18	0.17	0.16	0.15	0.14
Min	60.4	66.8	69.4	69.5	70	70.3	67.1	67.4	64.1	59.3	52.7	47.5	46.5	38	42.2	40	44	49.6	51.7	55.7	55.9	53.1	53.9	54.7	59.6
Max	103.7	104.5	104.5	104	104.9	105	104.5	104.3	104.8	103.5	103.5	100.2	98.5	103.8	104	104.5	104.4	104.1	103.2	104.5	104.8	104.6	104.6	105	101.3
n	300	298	276	280	287	272	270	271	285	324	338	336	359	357	353	349	328	324	320	312	293	294	296	7462	

Data Recovery: 0.0% missing; 0.0% untested; 16.4% failed QC -- 8928 total measurements.

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

December 2007

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	0.6	0.6	0.4	0.7	1.6	2	1.6	1.3	2	4.7	9.1	11.6	13.3	14	14	13.7	12.4	9.3	6.8	5.3	4.4	3.9	3.5	3.5	5.8
2	3.9	4.3	4.3	4	3.2	2.8	2.7	3.2	5	7.9	11.1	13.1	15.9	16.4	15.9	15.6	14.8	14.1	13.5	13.1	12.9	13	13	12.8	9.9
3	13.2	13.8	14.8	15.7	16.2	16.6	16.5	16.4	16.8	18.2	19.4	20.5	21.3	20.8	19.6	17.7	14.7	11.2	8.8	7.1	5.6	4.2	3	2.1	13.9
4	1.4	1.1	1.2	1.3	1.4	1.3	1	0.5	0.5	2.3	5.1	7.8	9	8.7	8.5	9.1	7.8	5.9	4.9	4.5	4	3.3	2.9	2.4	4
5	2.2	1.3	-0.3	-0.8	-1.1	-1.2	-1.1	-0.5	0.6	2.4	4.8	6.6	7.9	8.8	9.2	9.2	9.1	7.9	6.6	5.2	5.5	6.1	6.4	6.7	4.2
6	6.1	5.2	4.6	3.9	3.3	2.5	1.9	1.6	1.6	2.1	4.3	6.3	7	8	8.3	8.1	6.5	3	1	0.4	0	-0.3	-0.9	-1.2	3.5
7	-1.4	-1.5	-1.3	-1	-0.8	-0.4	0.3	1.2	3	5.3	6.4	7.2	8.7	11.5	12.9	12.5	11.5	10.6	10.2	9.6	9	8.5	8.2	8.1	5.8
8	8.2	8	7.7	7.6	7.6	7.3	7	6.9	8.2	10.8	13.3	16.3	18.2	19.9	20.5	21.1	20.2	17	14	11.7	10.2	9.4	8.9	8.5	12
9	8.3	8.2	8.5	9	9.3	9.5	9.8	9.7	10.5	12.3	13.9	15.8	17.8	20.6	21.7	21.9	21	18.6	16.7	15.4	14.9	15	15	14.9	14.1
10	14.8	14.8	14.7	14.6	14.4	14.8	15	15	15.9	18.3	21	23.3	25.1	26.4	27.1	27.1	26.3	24	21.9	20.7	19.7	18.8	18	17.3	19.5
11	17	16.9	16.5	15.6	14.1	12.7	12.3	12.2	12.2	12.3	12.9	13.9	14.6	15.1	15.5	15.6	15.2	14.6	14.2	13.7	13.5	13.2	12.8	12.5	14.1
12	12.1	12	12.1	12.6	13.4	13.9	14.1	14.5	16	18.5	20.9	23	24.9	26.1	26.6	26.6	25.7	23.6	21.6	19.9	18.6	16.6	14.6	13.5	18.4
13	12.8	12	11.9	12	12	11.8	11.8	11.7	12.1	13.2	14.9	17.4	19.4	20.4	21.7	22.8	22.6	21.2	19.6	18.6	18.1	17.2	16.4	15.8	16.1
14	15.4	15.1	14.7	14.7	14.9	14.8	14.4	13.8	13.1	13.2	14.9	16.2	18.2	19.2	18.6	16.9	15.5	12.9	10.7	9.4	8.8	8.3	7.9	7.5	13.7
15	7.1	7	7.2	7.5	7.3	6.5	5.5	5	5.4	6.7	8.5	9.7	9.8	9.6	9.5	9.7	9.8	9.6	9.6	10.2	10.5	10.8	11.7	13.1	8.6
16	15	16.5	17.6	18.7	19.3	19.5	19.6	19.6	19.5	18.9	18.2	15.9	13.4	13	13.3	13.3	12.5	10.9	9.6	7.9	6.4	5.4	4.6	3.8	13.8
17	3.1	2.5	1.9	1.3	0.6	0.1	-0.3	-0.6	0.8	3.3	5.7	7.3	8.5	8.9	8.8	8.4	7.5	4.9	2.2	0.7	-0.8	-1.8	-1.7	-1.5	2.9
18	-1.5	-1.8	-2.3	-2.8	-3.6	-4.1	-4.1	-3.7	-1.6	2.4	5.9	8.3	10.3	11.6	12.3	11.5	9.3	6.2	4.1	3.3	3.1	2.9	2.6	2.2	2.9
19	1.9	1.5	1.3	0.9	0.9	1.1	1.4	1.4	1.8	4	7	10.5	12.4	12.5	10.7	10.1	9.9	8.7	7.4	6.5	5.8	5.3	4.8	4.3	5.5
20	3.8	3.2	2.9	2.6	2	1.6	1.3	0.8	2	5.7	10	12.9	14.7	15.4	14.8	14.2	12.3	9	6.5	5	4.2	3.8	3.4	3	6.5
21	2.9	3.2	3.7	4.2	4.5	5.1	5.9	6.5	7.1	8.2	9.7	10.9	11.5	11.7	11.3	10.7	10.3	10	10	10	10	10.1	10.2	10.4	8.3
22	10.5	10.6	10.7	10.7	10.4	10.4	10.2	9.7	10.1	12	14.3	16.1	16.9	16.8	15.5	14.2	13	12.3	12.1	11.9	11.5	11.4	11.6	11.8	12.3
23	11.9	11.9	11.7	11.1	10.6	10.2	10.7	12.4	14	15.2	16.2	17.4	18.7	19.8	20.5	21.5	21	20.3	19.5	18.8	18.6	18.1	17.2	16.3	16
24	15.2	14.2	13.1	11.9	10.1	8.2	6.6	5.6	6.5	8.9	11.2	13	14.3	14.9	15.4	15.6	14.5	12.3	10.3	8.6	7.3	6.4	5.6	5	10.6
25	4.9	4.9	5	5.2	5	4.6	3.8	3.3	3.9	7.4	11.3	13.1	14.1	14	13.1	11.9	10.6	9.1	7.8	6.7	6.2	6.2	6.2	6.3	7.7
26	6.7	7.3	8	8.5	8.4	8.5	8.3	8.1	8.3	8.6	8.7	8.8	8.7	8.5	8.3	7.8	7.2	6.6	6	5.5	5.1	4.8	4.7	4.7	7.3
27	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.7	4.6	6.6	10.2	12.8	14.7	15.5	16	16.2	15.6	13.2	10.4	8.3	6.9	6.1	6.2	6.5	8.6
28	6.6	6.4	5.8	4.9	4.2	3.9	4.3	4.6	5.4	7.1	9.4	11.9	14.4	16.6	17	16.8	15.5	13.8	12.9	12.3	12.4	13.3	14.5	15.3	10.4
29	16.1	16.7	17.4	17.8	18	18	18	17.9	17.8	18.5	20.1	21.9	22.9	23.6	24	23.4	22.2	19	15.6	14	13.2	12.8	12.6	12.6	18.1
30	12.4	12.1	12.1	12.1	12.1	12	11.6	10.8	10.2	9.9	9.6	9.3	9.4	9.6	10.2	11	11.2	11.1	10.7	10.2	9.9	9.9	10	10	10.7
31	10.2	10.8	11.2	10.8	9.4	7.9	6.7	5.8	6.1	8	10.7	13.5	15.9	17.2	17.3	17	15.7	12.6	9.6	8.1	7.4	6.7	5.8	5.5	10.4
Avg	7.9	7.9	7.8	7.7	7.5	7.3	7.1	7.1	7.7	9.5	11.6	13.3	14.6	15.3	15.4	15.2	14.2	12.4	10.8	9.8	9.1	8.7	8.4	8.2	10.2
SD	5.5	5.7	5.9	6	6.1	6.1	6.1	6.1	5.9	5.3	4.9	4.8	5	5.2	5.4	5.5	5.4	5.3	5.3	5.3	5.3	5.3	5.3	5.3	4.8
S/A	0.7	0.72	0.75	0.78	0.81	0.84	0.86	0.86	0.76	0.56	0.42	0.36	0.34	0.34	0.35	0.36	0.38	0.43	0.49	0.54	0.58	0.61	0.63	0.65	0.47
Min	-1.5	-1.8	-2.3	-2.8	-3.6	-4.1	-4.1	-3.7	-1.6	2.1	4.3	6.3	7	8	8.3	7.8	6.5	3	1	0.4	-0.8	-1.8	-1.7	-1.5	2.9
Max	17	16.9	17.6	18.7	19.3	19.5	19.6	19.6	19.5	18.9	21	23.3	25.1	26.4	27.1	27.1	26.3	24	21.9	20.7	19.7	18.8	18	17.3	19.5
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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.

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

December 2007

Wind Speed
Hourly and Daily Averages
Instrument: NRG MAX-40
Meters per Second

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0.3	1.6	1.8	1.3	0.9	0.9	1.1	2.4	3.2	3.7	3.5	3.1	2.8	2.3	2.5	2.1	1.9	2	2.1	1.9	1.4	1.2	1.8
2	1.2	0.6	0.4	0	0	0.1	0.5	0.1	0.1	1.1	1.5	1.2	1.8	0.8	1	1.1	0.1	0.1	0.4	0.2	0.4	2	2	2.8	0.8
3	3.1	3.4	3.5	4.3	4.9	5	6	5.2	5	5.6	6.7	7.5	6.8	6.8	6.3	5.9	5.5	4.4	4.3	4.1	3.8	3.6	3.3	3.4	4.9
4	3.3	3	2.8	2.4	2.6	2.4	1.4	1.6	1.9	4.6	4.9	5.1	4.7	4.2	5	5.2	4.1	3.1	2.6	2.6	2.6	2.5	1.4	0.9	3.1
5	1	0	0	0.1	0.1	0	0	0	0	1	2.2	2.3	0.6	0.2	1	0.8	0.6	0.3	0	0	0.5	0.8	1.5	3.3	0.7
6	3.9	5.2	5.7	4.6	4.2	3.5	3	3.1	2.5	4.1	3.5	3.7	3	3	2.5	2	2.2	1.9	2.3	1.6	1.6	1.6	1.3	1.1	3
7	0.5	1.3	1.1	1.1	1.2	0.4	0.2	0.4	0.3	0.2	0.2	0.1	0.5	1.6	1.8	1.5	0.5	0.8	0.7	0	0.2	0	0.4	0.7	0.7
8	0.6	0.7	0.8	1.2	1.1	0.8	1	0.1	1.1	1	1.6	2.5	2.6	3.1	2.1	1.2	0.9	2	1.7	0.9	1.3	2	1.7	1.3	1.4
9	1.1	0.6	0.7	0.4	0.1	0.1	0.8	0.7	1.8	2.1	2	1.9	1.7	1.8	1.5	1.4	1.2	0.6	0.3	0.6	1.4	1.8	1.9	2.2	1.2
10	1.9	1.9	1.8	1.5	3	3.1	2.8	3.3	3.1	4.1	4.8	4.7	4.7	4.2	4.6	3.4	1.9	1.2	1.2	1.5	1.2	1.5	1.8	1.6	2.7
11	1.6	1.6	0.6	1.9	2.8	3	2.1	2.4	2.5	2	1.4	1.3	1.2	0.4	0.3	0.3	0.7	1.3	1.1	1.4	0.4	1.2	1.2	1.8	1.4
12	1.9	1.9	2.2	2.5	2.9	2.7	3.1	3	4.3	6	6	6.6	6.4	6	5.2	4.4	2.6	2	0.4	1.4	3.5	3.5	3.8	4.5	3.6
13	4	3.6	3.2	4	4.3	4.2	3.4	2.3	1.9	2	1.3	1.8	3.1	3.9	4.6	3.8	2.4	1.8	1.6	2.8	2.3	0.7	0.5	0.3	2.7
14	0.3	0.8	0.5	0.5	0.7	0.9	0.8	1.7	2.2	1.7	1.9	1.8	2	1.8	2.6	2.7	2.1	2.1	1.9	1.8	2.3	2.3	1.5	1.6	1.6
15	1.1	2.2	3.5	4.8	3.5	2.7	2	1.4	1.8	3	4.7	4.8	4.7	4.6	5.4	5.1	4.6	4.9	5.1	4.6	4	3.6	4.1	4.4	3.8
16	5.1	2.4	3.6	5.1	4	4.3	3.4	3	2.5	3.5	7.3	7.5	7.3	7.9	8	8.1	5.6	7.8	6.8	6.8	6.9	6.4	6.1	5.5	5.6
17	5.4	5.2	4.1	3.1	3.1	3	2.8	2.6	3.3	4.5	4.7	4	3.7	4	3.8	3	1.9	1	0.9	0.2	0.1	0.9	1.3	1.5	2.8
18	1.3	1.2	1.3	0.8	0.4	0.3	0.9	0.3	0.9	1.7	2.3	1.5	0.6	0.7	0.5	0.3	0.1	0.6	0.8	0.7	0.8	0.2	0.3	0.2	0.8
19	0.2	0.3	0.1	0	0	0.1	0.1	0.3	0.4	1.3	2.9	4.5	4.2	3.8	3	3.8	2.4	1.5	1.7	1.8	1.9	1.6	1.5	1.2	1.6
20	0.9	1.6	1.3	0.7	0.7	0.9	0.8	0.3	0.7	0.9	1	1.6	1.4	2	2.5	1.9	2.7	2	1.6	1.7	1.2	1.1	0.5	1.1	1.3
21	1.3	1.6	1.1	0.7	1.9	1.7	2.3	2.5	3.3	3.8	4.4	4.3	4.6	5	5	4.5	4.5	4.5	4	4.3	4.2	4.7	4.5	4.6	3.5
22	4.6	4.3	4.3	4.9	4.9	4.5	4.4	4.3	4.3	5.3	5.3	5.2	4.4	4	3.6	3.5	3.5	3.6	3.4	2.8	2	2.5	2.4	1.5	3.9
23	0.9	0.9	0.2	0.2	0.1	0.6	2.4	4.1	5	4.4	3.7	4.6	5.6	5.8	6.7	6.9	6.6	4.4	3.8	4.6	4.7	6.3	4.7	4.5	3.8
24	3.8	3.8	3.9	3.6	2.4	2.2	1.9	1.5	2.6	3.7	3.7	3.7	3.7	3.9	3.8	3.5	1.8	0.6	0.4	0.1	0.1	0.1	0.1	0.3	2.3
25	0.8	1	1.2	1.2	1	0.6	0.3	1.4	2.1	3.1	3.6	3.8	3.8	3.3	3.5	3.2	2.4	1.9	1.3	0.7	1.5	2	1.8	2.2	2
26	3.4	4.1	4.3	5.1	5.5	4.4	5.4	6	5.8	6.9	8.6	7.2	8.2	7.4	6.5	6	4.2	4.1	4	3.3	2.9	2.6	1.9	2	5
27	2.1	2.8	2.9	2.3	1.6	1.6	1.1	0.9	0	0.6	1.2	1.5	2.3	2.2	2.3	2.6	2.1	0.6	0.2	0	0.3	0.9	1.2	1.1	1.4
28	0.9	0.9	0.2	0	0	0	0	0.2	0.4	1.8	2.9	2.9	3	3.5	3.6	2.7	2.8	2.6	2.3	2	2.9	3	3	2.8	1.9
29	2.8	3.7	4.8	4.4	3.6	3.6	3.8	3.7	3.4	3.2	3.5	3.2	3.5	3.1	3	1.6	2.5	2.3	1.6	1.1	1.6	1.8	1.7	2.2	2.9
30	2.6	2.4	2.9	3	3.6	4	4.3	3.3	4.4	3.6	2.7	3.9	3.7	3.5	3.7	2.6	2.5	1.7	1.4	1	0.6	0	0.3	2	2.7
31	1.5	1.3	3.5	3	2.1	1.3	1.5	1.5	1.5	2.2	2.2	1.9	1.6	1.6	1.4	2.3	1.2	1	2	2.5	1.9	0.9	0.8	1	1.7
Avg	2	2.1	2.2	2.2	2.2	2	2	2	2.3	3	3.4	3.5	3.5	3.5	3.5	3.1	2.5	2.2	2	1.9	2	2.1	1.9	2.1	2.5
S D	1.5	1.5	1.7	1.8	1.7	1.6	1.6	1.6	1.6	1.7	2	2	2	2	1.9	1.9	1.6	1.7	1.6	1.6	1.6	1.6	1.4	1.4	1.3
S/A	0.74	0.72	0.77	0.79	0.77	0.79	0.79	0.8	0.72	0.58	0.58	0.55	0.56	0.57	0.55	0.61	0.65	0.76	0.8	0.86	0.8	0.78	0.75	0.68	0.54
Min	0	0	0	0	0	0	0	0	0	0.2	0.2	0.1	0.5	0.2	0.3	0.3	0.1	0.1	0	0	0.1	0	0.1	0.2	0.7
Max	5.4	5.2	5.7	5.1	5.5	5	6	6	5.8	6.9	8.6	7.5	8.2	7.9	8	8.1	6.6	7.8	6.8	6.8	6.9	6.4	6.1	5.5	5.6
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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

December 2007

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	0	0	283	283	297	313	328	357	22	46	63	75	66	77	80	65	90	88	70	69	56	63	77	57	59
2	56	59	48	92	105	28	85	43	121	132	158	169	203	230	211	204	303	205	175	202	208	294	300	246	215
3	262	263	264	267	281	292	293	287	294	304	310	323	332	342	334	345	342	335	338	336	343	341	333	323	315
4	323	310	300	310	300	306	291	294	308	321	335	330	333	330	324	319	316	311	304	291	297	309	294	304	315
5	38	32	314	269	283	0	241	0	108	107	149	179	201	333	123	147	159	193	0	211	44	38	18	14	97
6	30	28	37	31	26	24	43	36	20	46	70	49	45	42	60	89	104	104	88	66	77	40	40	37	46
7	28	22	41	27	23	20	49	38	19	71	8	32	177	225	244	236	242	209	195	197	10	202	255	282	296
8	275	265	270	284	280	265	278	270	257	257	273	284	291	307	304	317	74	97	111	103	107	93	103	113	292
9	116	118	118	154	62	98	108	102	116	136	155	148	144	125	123	133	165	219	215	214	242	245	240	246	159
10	233	233	246	248	276	271	276	276	269	275	275	271	275	274	286	281	269	263	263	263	252	237	245	271	269
11	272	274	39	73	83	81	92	91	96	107	113	148	138	130	135	152	162	175	196	212	228	213	233	234	126
12	247	248	245	265	276	269	274	270	273	282	285	288	294	304	294	295	286	274	264	32	78	95	102	97	286
13	100	102	107	108	108	114	112	108	118	135	161	221	247	259	266	253	259	231	237	338	36	151	191	247	147
14	233	277	300	315	347	6	28	63	95	100	92	82	115	120	115	110	108	104	94	88	82	93	95	69	92
15	63	53	85	79	78	63	61	52	53	103	113	103	102	101	99	103	101	107	112	107	101	105	114	156	98
16	176	208	224	244	239	238	239	242	278	276	299	311	313	311	313	314	305	313	320	319	321	317	317	315	296
17	316	319	322	322	327	332	335	330	325	336	345	353	349	346	342	347	344	324	300	302	265	279	291	304	331
18	308	315	322	341	356	15	33	13	52	82	78	80	34	73	25	49	192	146	129	157	164	174	199	191	54
19	204	196	188	0	207	202	209	210	257	236	272	278	273	276	283	282	286	284	290	298	302	297	294	293	280
20	305	298	292	304	312	311	303	287	319	340	19	66	70	109	114	93	109	105	92	95	98	84	85	75	74
21	85	95	75	59	109	102	96	96	105	118	107	100	90	90	89	89	84	83	77	79	78	83	84	86	90
22	88	89	86	90	90	84	91	92	93	97	103	101	100	97	90	78	74	72	70	81	81	97	91	96	90
23	96	112	100	65	52	131	151	172	176	193	195	201	204	206	212	215	212	232	232	241	264	283	293	292	220
24	292	297	313	323	334	344	340	311	311	324	332	318	309	312	308	301	311	324	309	230	249	227	256	266	314
25	272	317	303	294	314	329	1	22	49	86	100	90	86	87	103	104	98	90	91	85	105	100	100	102	85
26	95	94	86	93	99	85	86	84	66	76	82	73	68	57	42	31	3	355	5	355	11	1	336	333	60
27	329	318	313	325	324	333	341	346	272	218	271	257	261	238	259	275	273	253	260	264	266	271	273	293	291
28	310	316	259	248	0	0	83	97	128	139	131	139	150	152	162	165	141	128	131	139	172	192	215	232	160
29	234	228	231	236	235	236	254	246	248	245	255	265	270	270	277	280	71	87	89	82	76	91	88	87	243
30	95	111	121	113	111	113	111	104	115	122	116	112	108	114	120	111	116	23	37	80	105	331	244	201	111
31	231	245	335	350	349	339	339	334	331	342	345	341	341	313	265	221	224	200	188	184	182	163	190	171	297
Avg	333	325	336	350	4	4	27	35	36	49	34	6	349	345	330	327	36	45	53	28	44	25	356	319	358
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

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

December 2007

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0.6	2.2	2.6	2.1	2	2.1	2.7	4.5	5.8	6.4	6.2	5.6	5.1	4.6	4.6	3.8	3.8	3.9	3.7	3.9	2.9	2.6	3.4
2	2.7	1.6	1.2	0.3	0.4	0.4	1.4	0.7	0.6	2.5	3.1	2.8	3.5	1.9	2.2	2.2	0.6	0.3	1.1	0.7	1.3	3.9	4.3	5.1	1.9
3	5.1	5.6	6.4	7.4	8.1	7.9	9.5	8	8.3	9.4	11.3	13.1	13.6	13	11.9	11.4	10.8	8.6	8.6	7.7	7.6	7.6	6.6	6.3	8.9
4	6.2	5.1	5	4.1	4.1	4.1	2.3	2.8	3.6	8.3	9.3	10.2	8.8	8.6	9.7	8.6	7.3	5.3	4.6	4.1	4.3	4.3	2.5	1.8	5.6
5	2.2	0.1	0.2	0.2	0.3	0	0	0	0	2.2	3.8	4	1.3	0.7	2.2	1.8	1.3	0.8	0	0.1	1.1	2	3.7	6.9	1.4
6	7.7	9.4	9.9	8.6	8.1	6.7	5.6	5.6	5.1	7.2	6.3	6.2	6	5.5	4.5	3.8	3.7	3.6	4.1	3.5	3.4	3.1	2.8	2.6	5.5
7	1.6	2.7	2.4	2.6	2.8	1.5	0.9	1.6	1.4	1	1.1	0.5	1.2	3.2	3.4	2.9	1.4	1.8	1.5	0	0.5	0.1	1	1.4	1.6
8	1.2	1.4	1.6	2.1	1.9	1.5	1.7	0.5	2.4	2.3	3.1	4.3	4.7	5.1	4	2.6	1.7	3.5	3	2.1	2.6	3.2	2.8	2.5	2.6
9	2	1.6	1.6	1.3	0.5	0.4	1.6	1.3	3.1	3.6	3.6	3.2	3.1	3	2.5	2.2	2	1.5	1	1.6	2.6	2.9	3.2	3.7	2.2
10	3.2	3.2	3.3	2.6	4.8	5	4.6	4.8	5.1	6.4	7.8	7.7	7.6	6.9	7.5	5.8	3.1	1.8	2	2.3	2	2.6	3	2.5	4.4
11	2.5	2.3	1.5	3.4	4.9	5.5	4.1	4.6	4.6	3.8	3.1	2.7	2.5	1.5	1.3	1.3	1.7	2.4	2.3	2.7	1.5	2.5	2.4	3.1	2.8
12	3.4	3.3	3.5	4.3	4.7	4.6	5	5.1	7.1	9.3	9.7	10.3	10.4	10	8.5	7	4.6	3	1	2.8	6.1	6	6.6	7.5	6
13	6.9	6	5.8	6.8	7.5	6.8	5.6	3.9	3.5	3.4	2.5	3.2	5.2	6.1	7.4	6.6	4.1	3.1	3	5.4	4.5	1.3	1.3	0.7	4.6
14	0.9	1.4	1.2	1.3	1.8	2.1	2	3.2	3.9	3.3	3.3	3.3	3.6	3.3	4.2	4.7	3.8	3.5	3	3.1	4	3.6	2.4	2.6	2.9
15	2	3.7	6.4	8.1	6.5	4.9	3.6	2.4	3.2	5.6	8.2	7.9	8.1	7.7	8.8	8.5	7.7	8.3	8.5	7.9	6.8	6.2	6.9	7.3	6.5
16	8.7	4.2	6.3	8.4	6.6	7.1	6	5	4.2	5.7	12	12.1	12.9	12.9	13.3	13.3	9.5	12.4	11.7	12.2	12.7	11	10.1	9.3	9.5
17	9	8.8	7.6	5.9	6.1	6.1	5.7	5.4	6.2	8.7	8.9	8	8.1	8.2	7.4	6.3	4.3	2.4	1.7	0.8	0.6	1.6	2.1	2.3	5.5
18	2.2	2.1	2.5	2	1.4	1.2	2.2	1.2	2.3	3.6	4.1	3.3	2.1	2.2	1.9	1.2	0.3	1.2	2	1.4	1.9	1	1	0.7	1.9
19	0.7	0.7	0.5	0	0.1	0.3	0.2	0.9	1	2.7	4.7	6.9	6.6	5.9	4.5	5.8	3.8	2.4	2.7	2.9	3.4	2.6	2.4	1.8	2.6
20	1.4	2.1	1.9	1.3	1.4	1.5	1.4	0.6	1.6	2	2.5	2.9	2.8	3.4	4.1	3.7	4.5	3.5	2.8	2.6	2.2	1.8	1.2	1.6	2.3
21	2	2.3	1.8	1.6	3.1	3.3	4	4	5.5	6.3	7.8	7.1	7.6	8	8.6	7.7	7.7	8.1	6.9	7.5	7.3	7.9	7.7	7.9	5.9
22	7.7	7.1	7.8	8	8.1	7.8	6.9	7.2	6.9	8.5	9.2	8.3	7.3	6.9	6	6.4	6.3	6.8	6.5	5.2	4.4	4.3	4.1	2.8	6.7
23	2.1	2	1	1	0.3	1.2	4.1	6.5	7.6	7.3	6.2	7.9	9.7	9.7	11.1	11.4	11.3	7.4	6.1	7.8	7.6	10.3	7.3	7	6.4
24	5.9	6	6.1	6.3	4.9	4	3.7	2.6	4.4	7.1	6.9	6.7	6.5	6.7	6.4	5.6	3.1	1.3	0.6	0.3	0.3	0.5	0.6	0.8	4.1
25	1.3	1.6	2	1.9	1.5	1.2	0.8	2.2	3.8	5.3	6.3	6.1	6.2	5.7	5.8	5.3	3.8	3.1	2.2	1.4	2.5	3.3	2.9	3.8	3.3
26	5.6	6.7	7.2	8.7	9.1	7.9	8.8	10	10.3	11.6	14.3	12.7	14.1	12.5	11.3	10.5	8.6	8.7	8	7.4	6.8	5.5	4.3	4.7	9
27	4.3	4.8	4.9	4.8	3.4	3.9	3	2.7	0.2	1.5	2.6	2.8	3.8	3.8	4.1	4.4	3.2	1	0.5	0.4	0.7	1.4	1.7	1.7	2.7
28	1.6	1.7	0.6	0.1	0	0	0.3	0.8	1.3	3.5	5.1	4.8	5	5.5	5.6	4.1	4.5	4	3.7	3.2	4.6	5	5	5.1	3.1
29	4.6	5.8	7.7	7.6	6.5	6.3	6.5	5.9	5.5	5.5	6	5.4	5.9	5	4.7	2.6	4.4	4	3.2	2.4	3.2	3.3	3.2	4	5
30	4.3	4.4	4.6	5	6.3	6.6	7.4	6.1	7.4	6.1	4.9	6.6	6.2	5.8	6	4.6	4.4	3.9	3.1	2.5	1.8	0.3	1.1	3.4	4.7
31	2.9	2.7	7	6.6	5.1	3.6	3.4	3.7	3.6	4.6	4.3	3.9	3.6	3.2	2.7	3.7	2.2	1.8	3.4	4	3.1	1.6	1.4	1.7	3.5
Avg	3.6	3.6	3.9	4	4	3.7	3.7	3.6	4.1	5.2	6	6.2	6.3	6	6	5.5	4.5	4	3.6	3.5	3.7	3.7	3.5	3.7	4.4
SD	2.5	2.4	2.8	2.9	2.8	2.6	2.5	2.5	2.5	2.7	3.2	3.2	3.4	3.2	3.2	3.1	2.9	2.9	2.8	2.9	2.8	2.7	2.3	2.4	2.2
S/A	0.7	0.69	0.72	0.74	0.71	0.71	0.69	0.69	0.62	0.51	0.52	0.52	0.54	0.54	0.53	0.57	0.64	0.72	0.77	0.81	0.74	0.73	0.67	0.64	0.5
Min	0	0	0.2	0	0	0	0	0	0	1	1.1	0.5	1.2	0.7	1.3	1.2	0.3	0.3	0	0	0.3	0.1	0.6	0.7	1.4
Max	9	9.4	9.9	8.7	9.1	7.9	9.5	10	10.3	11.6	14.3	13.1	14.1	13	13.3	13.3	11.3	12.4	11.7	12.2	12.7	11	10.1	9.3	9.5
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

December 2007

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	1023	1023	1024	1024	1024	1024	1025	1026	1027	1028	1029	1029	1028	1028	1027	1027	1028	1029	1030	1030	1031	1031	1030	1030	1027	
2	1029	1029	1029	1028	1027	1027	1027	1028	1028	1027	1026	1025	1023	1022	1021	1020	1019	1018	1017	1016	1015	1014	1013	1011	1011	1022
3	1010	1009	1008	1007	1006	1006	1005	1005	1005	1005	1005	1004	1004	1005	1006	1007	1008	1010	1011	1011	1011	1011	1011	1011	1007	
4	1011	1011	1010	1010	1009	1009	1009	1010	1010	1010	1009	1008	1008	1007	1007	1006	1007	1008	1008	1009	1009	1009	1009	1009	1009	1009
5	1009	1008	1008	1008	1008	1008	1008	1008	1008	1007	1006	1004	1004	1003	1002	1001	1001	1002	1002	1003	1004	1005	1006	1007	1005	
6	1009	1010	1013	1014	1016	1017	1019	1020	1022	1022	1023	1023	1024	1024	1024	1024	1025	1026	1026	1026	1026	1026	1027	1027	1021	
7	1026	1026	1026	1026	1026	1026	1026	1026	1026	1026	1027	1026	1024	1023	1023	1023	1024	1023	1023	1023	1024	1023	1023	1023	1025	
8	1023	1022	1023	1022	1022	1022	1023	1023	1024	1024	1024	1023	1023	1022	1022	1022	1023	1024	1024	1025	1026	1026	1026	1026	1023	
9	1026	1026	1026	1026	1026	1027	1026	1027	1027	1027	1027	1027	1026	1025	1024	1024	1023	1023	1023	1023	1024	1024	1024	1023	1025	
10	1023	1022	1022	1022	1022	1022	1023	1023	1023	1023	1023	1022	1021	1020	1020	1020	1020	1021	1021	1022	1022	1022	1022	1022	1022	
11	1021	1022	1022	1023	1023	1024	1025	1025	1026	1026	1026	1025	1024	1023	1023	1023	1023	1023	1023	1022	1022	1022	1021	1020	1023	
12	1019	1018	1018	1017	1017	1017	1018	1018	1017	1018	1018	1017	1016	1015	1015	1016	1016	1017	1017	1018	1019	1020	1020	1021	1018	
13	1021	1020	1021	1021	1020	1020	1020	1020	1019	1018	1018	1016	1015	1014	1013	1012	1012	1012	1013	1014	1015	1015	1015	1015	1017	
14	1015	1016	1016	1016	1016	1017	1017	1018	1019	1019	1020	1019	1019	1018	1019	1019	1020	1020	1020	1021	1021	1022	1022	1022	1019	
15	1022	1023	1024	1024	1024	1024	1024	1024	1024	1025	1024	1023	1023	1022	1021	1019	1019	1017	1016	1014	1013	1011	1008	1006	1020	
16	1003	1002	1000	1000	998	997	997	996	995	994	994	994	994	994	995	996	997	999	1001	1003	1004	1005	1005	1006	999	
17	1007	1008	1009	1010	1011	1012	1014	1015	1017	1018	1018	1018	1018	1018	1018	1019	1019	1020	1021	1022	1022	1023	1023	1023	1017	
18	1023	1024	1025	1025	1025	1026	1027	1027	1028	1029	1029	1028	1027	1027	1026	1026	1026	1027	1027	1026	1026	1026	1026	1026	1026	
19	1025	1025	1024	1024	1023	1023	1023	1023	1023	1023	1022	1021	1020	1019	1018	1018	1018	1018	1019	1019	1020	1020	1020	1019	1021	
20	1019	1019	1019	1019	1019	1019	1020	1020	1020	1021	1021	1021	1020	1020	1019	1019	1020	1020	1020	1020	1021	1021	1021	1021	1020	
21	1020	1020	1020	1020	1019	1019	1020	1020	1020	1021	1021	1021	1020	1020	1019	1019	1019	1020	1021	1021	1021	1021	1021	1022	1020	
22	1022	1022	1023	1023	1023	1024	1024	1024	1025	1025	1026	1025	1024	1024	1024	1024	1024	1025	1024	1024	1024	1023	1023	1022	1024	
23	1021	1021	1021	1021	1020	1020	1019	1019	1018	1018	1018	1016	1015	1014	1012	1012	1011	1011	1011	1011	1011	1011	1012	1012	1016	
24	1012	1012	1013	1013	1014	1015	1016	1017	1017	1018	1018	1018	1017	1016	1016	1016	1017	1018	1018	1018	1019	1019	1020	1020	1017	
25	1020	1020	1020	1020	1020	1021	1021	1022	1023	1024	1024	1023	1023	1022	1022	1022	1022	1022	1022	1022	1021	1021	1020	1020	1021	
26	1019	1018	1018	1016	1015	1014	1013	1012	1011	1010	1008	1008	1006	1005	1006	1006	1008	1009	1009	1011	1011	1011	1012	1013	1011	
27	1013	1013	1014	1014	1014	1015	1016	1017	1017	1018	1018	1017	1017	1016	1016	1017	1017	1018	1019	1019	1019	1020	1021	1021	1017	
28	1021	1021	1022	1022	1023	1023	1024	1024	1024	1024	1024	1023	1023	1022	1022	1022	1022	1021	1021	1020	1019	1018	1018	1017	1022	
29	1017	1016	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1014	1013	1013	1012	1013	1013	1014	1014	1015	1016	1016	1016	1015	
30	1017	1017	1017	1017	1017	1017	1017	1018	1017	1018	1018	1018	1016	1014	1013	1012	1012	1010	1011	1011	1009	1009	1009	1007	1014	
31	1007	1007	1009	1010	1011	1012	1013	1015	1016	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1019	1019	1019	1019	1018	1015	
Avg	1018	1018	1018	1018	1018	1018	1018	1019	1019	1019	1019	1018	1018	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018	
S/D	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	7	7	7	7	7	7	6	7	6		
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		
Min	1003	1002	1000	1000	998	997	997	996	995	994	994	994	994	994	995	996	997	999	1001	1003	1004	1005	1005	1006	999	
Max	1029	1029	1029	1028	1027	1027	1027	1028	1028	1029	1029	1029	1028	1028	1027	1027	1028	1029	1030	1030	1031	1031	1030	1030	1027	
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928		

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

December 2007

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	12.5	12.5	12.5	12.5	12.5	12.5	12.6	13.5	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.2	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13
2	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.7	13.3	13.6	13.7	13.6	13.6	13.2	13.4	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.9
3	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.7	13.2	13.4	13.4	13.4	13.4	13.4	13.5	13.5	12.9	12.7	12.6	12.6	12.6	12.6	12.6	12.5	12.9
4	12.5	12.5	12.5	12.5	12.5	12.5	12.4	12.5	13.6	13.9	13.8	13.8	13.8	13.8	13.8	13.7	13	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13
5	12.6	12.6	12.5	12.5	12.5	12.4	12.4	12.4	12.5	13	13.3	13.2	12.9	13	13	13.3	12.9	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.7
6	12.5	12.5	12.4	12.4	12.4	12.4	12.4	12.5	13.1	13.9	13.8	13.8	13.8	13.8	13.8	13.8	13.1	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.9
7	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	13.5	13.3	13.2	13.6	13.8	13.7	13.7	13.3	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.9
8	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.9	13.7	13.7	13.6	13.5	13.5	13.4	13.4	13.4	13	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.9
9	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.7	13.3	13.4	13.4	13.6	13.5	13.4	13.4	13.4	13	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.9
10	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.9
11	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.7	12.9	13	13.1	13	12.9	12.7	12.7	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.6
12	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.9	13.5	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.9
13	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	13.5	13.6	13.5	13.5	13.4	13.4	13.4	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.9
14	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.6	12.6	13	13.5	13.5	13.5	13.5	13.5	13.6	13.1	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.9
15	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.7	12.9	13.2	12.9	12.8	12.8	12.7	12.7	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6
16	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.9	13.2	13.5	13.6	13.6	13.1	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.8
17	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.3	13.9	13.9	13.8	13.8	13.8	13.7	13.8	13.8	13.4	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.1
18	12.6	12.5	12.5	12.5	12.5	12.5	12.4	13.3	14	13.9	13.8	13.8	13.7	13.7	13.7	13.1	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13
19	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.7	13.4	13.7	13.8	13.7	13.7	13.5	13.5	13.5	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9
20	12.6	12.6	12.5	12.5	12.5	12.5	12.4	13.1	13.9	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.2	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13
21	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.9	13.3	13.6	13.6	13.7	13.1	13	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.8
22	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	13.6	13.6	13.6	13.5	13.5	13.3	13.3	13.3	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.9
23	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.7	13	13.1	13.2	13.4	13.4	13.2	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.8
24	12.6	12.6	12.5	12.5	12.5	12.5	12.4	13	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.1	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13
25	12.6	12.5	12.5	12.5	12.5	12.5	12.4	12.4	13.4	13.7	13.7	13.6	13.6	13.6	13.7	13.6	12.8	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.9
26	12.6	12.6	12.6	12.5	12.5	12.5	12.4	12.4	12.4	12.4	12.5	12.5	12.6	12.6	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5
27	12.4	12.4	12.3	12.3	12.3	12.3	12.3	12.3	13	13.7	13.6	13.6	13.5	13.5	13.5	13.5	13.3	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.9
28	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13.6	13.7	13.7	13.6	13.5	13.5	13.3	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.9
29	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	13.1	13.3	13.2	13.4	13.3	12.9	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.5	12.8
30	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.9	13	12.7	12.6	12.5	12.5	12.4	12.4	12.4	12.4	12.4	12.5
31	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.8	13.7	13.7	13.6	13.6	13.5	13.5	13.5	13.5	13.3	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9
Avg	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.7	13.2	13.4	13.4	13.4	13.4	13.4	13.4	13.3	12.9	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.9
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.5	0.4	0.3	0.3	0.3	0.3	0.4	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
S/A	0.01	0	0	0	0	0	0	0.02	0.04	0.03	0.03	0.03	0.02	0.02	0.02	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	12.4	12.4	12.3	12.3	12.3	12.3	12.3	12.3	12.4	12.4	12.5	12.5	12.6	12.6	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5
Max	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.3	14	13.9	13.8	13.8	13.8	13.8	13.8	13.8	13.4	12.8	12.7	12.7	12.7	12.7	12.7	12.6	13.1
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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