

October 2010

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	4	43	89	139	160	199	178	245	261	107	47	17	0	0	0	0	0	0	1489
2	0	0	0	0	0	0	47	240	415	598	734	805	790	724	586	380	182	37	0	0	0	0	0	0	5537
3	0	0	0	0	0	0	9	21 ?	45	81	86	94	128	107	91	68	25	5	0	0	0	0	0	0	759
4	0	0	0	0	0	0	17	75	64	182	205	166	153	191	174	294	82	11	0	0	0	0	0	0	1613
5	0	0	0	0	0	0	58	224	417	597	721	786	785	684	415	394	130	20	0	0	0	0	0	0	5231
6	0	0	0	0	0	0	56	223	420	579	701	720	637	420	231	324	180	33	0	0	0	0	0	0	4524
7	0	0	0	0	0	0	47	212	408	571	694	751	741	666	531	355	154	27	0	0	0	0	0	0	5158
8	0	0	0	0	0	0	47	219	417	583	704	764	757	681	541	358	154	23	0	0	0	0	0	0	5247
9	0	0	0	0	0	0	46	210	407	570	691	751	744	669	525	346	144	20	0	0	0	0	0	0	5122
10	0	0	0	0	0	0	47	203	383	545	671	734	725	647	513	329	133	17	0	0	0	0	0	0	4946
11	0	0	0	0	0	0	37	191	383	543	666	721	712	634	500	324	132	18	0	0	0	0	0	0	4862
12	0	0	0	0	0	0	46	223	377	539	660	719	711	636	496	318	124	14	0	0	0	0	0	0	4863
13	0	0	0	0	0	0	28	96	198	293	186	146	451	477	383	278	123	18	0	0	0	0	0	0	2676
14	0	0	0	0	0	0	31	172	171	55 ?	403	68 ?	86 ?	108	90	212	81	21	0	0	0	0	0	0	1499 ?
15	0	0	0	0	0	0	47	221	394	554	671	728	727	486	129	88	52	16	0	0	0	0	0	0	4114
16	0	0	0	0	0	0	37	193	397	562	688	747	731	653	511	328	126	15	0	0	0	0	0	0	4988
17	0	0	0	0	0	0	57	192	369	528	651	716	703	627	489	304	112	15	0	0	0	0	0	0	4763
18	0	0	0	0	0	0	33	164	345	496	619	684	676	627	363	219	85	18	0	0	0	0	0	0	4328
19	0	0	0	0	0	0	14	90	295	460	624	677	664	589	446	259	83	14	0	0	0	0	0	0	4215
20	0	0	0	0	0	0	37	163	203	303	494	489	440	390	118	58	40	3	0	0	0	0	0	0	2739
21	0	0	0	0	0	0	12	93	354	512	636	693	680	603	466	288	103	10	0	0	0	0	0	0	4451
22	0	0	0	0	0	0	37	168	359	509	638	690	675	606	466	289	96	7	0	0	0	0	0	0	4539
23	0	0	0	0	0	0	45	181	355	510	636	694	674	598	455	277	91	4	0	0	0	0	0	0	4519
24	0	0	0	0	0	0	26	144	294	493	622	626	636	587	448	273	88	4	0	0	0	0	0	0	4242
25	0	0	0	0	0	0	31	155	217	259	447	467	367	232	94	56	4 ?	1	0	0	0	0	0	0	2330
26	0	0	0	0	0	0	19	89	116	101 ?	273	565	605	439	271	204	45	8	0	0	0	0	0	0	2737
27	0	0	0	0	0	0	19	190	367	343	461	624	618	546	414	224	49	7	0	0	0	0	0	0	3864
28	0	0	0	0	0	0	5	32	129	234	201	195	286	292	306	161	44	2	0	0	0	0	0	0	1887
29	0	0	0	0	0	0	23	148	343	497	617	674	660	582	444	263	78	1	0	0	0	0	0	0	4330
30	0	0	0	0	0	0	22	147	300	465	595	554	624	542	381	195	58	3	0	0	0	0	0	0	3885
31	0	0	0	0	0	0	25	149	352	445	581	648	632	558	409	246	67	0	0	0	0	0	0	0	4112
Avg	0	0	0	0	0	0	33	157	303	424	540	577	580	511	372	252	94	13	0	0	0	0	0	0	3857
S D	0	0	0	0	0	0	16	61	117	171	195	230	209	178	153	96	45	9	0	0	0	0	0	0	1338
S/A	0	0	0	0	0	0	0.48	0.39	0.39	0.4	0.36	0.4	0.36	0.35	0.41	0.38	0.48	0.71	0	0	0	0	0	0	0.35
Min	0	0	0	0	0	0	4	21	45	55	86	68	86	107	90	56	4	0	0	0	0	0	0	0	759
Max	0	0	0	0	0	0	58	240	420	598	734	805	790	724	586	394	182	37	0	0	0	0	0	0	5537
n	0	0	0	0	0	0	297	364	369	362	372	363	366	372	372	370	367	149	0	0	0	0	0	0	4123

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.1% exceed the 15% QC threshold -- 4167 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31392F3 Calibration Factor: 7.3961 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.

October 2010

Direct Normal Solar Radiation
 Hourly Integrated and Daily Totals
 Instrument: Eppley NIP
 Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
2	0	0	0	0	0	0	*	*	?	?	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
3	0	0	0	0	0	0	?	?	?	?	*	*	?	?	?	?	?	?	0	0	0	0	0	0	?	
4	0	0	0	0	0	0	?	*	*	*	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?	
5	0	0	0	0	0	0	?	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
6	0	0	0	0	0	0	?	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
7	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	?	?	*	0	0	0	0	0	0	*	
8	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
9	0	0	0	0	0	0	*	*	*	*	*	*	?	?	?	*	*	*	0	0	0	0	0	0	*	
10	0	0	0	0	0	0	*	*	*	*	*	*	*	?	?	*	*	*	0	0	0	0	0	0	*	
11	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
12	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
13	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
14	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	?	*	*	0	0	0	0	0	0	*	
15	0	0	0	0	0	0	?	?	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
16	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
17	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
18	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
19	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
20	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
21	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
22	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
23	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
24	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
25	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
26	0	0	0	0	0	0	?	?	?	?	?	*	*	*	*	*	*	*	0	0	0	0	0	0	?	
27	0	0	0	0	0	0	?	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
28	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
29	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
30	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
31	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*	
Avg	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	*?
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	0
Max	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	0
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: 88.4% missing; 0.0% untested; 11.6% exceed the 15% QC threshold -- 4167 total daylight measurements.

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

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

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

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

October 2010

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	5	43	89	139	160	199	178	242	261	107	47	16	0	0	0	0	0	0	1486
2	0	0	0	0	0	0	33	69	72	71	63	86	85	69	104	68	42	18	0	0	0	0	0	0	780
3	0	0	0	0	0	0	9	18	41	78	86	94	128	107	91	68	24	5	0	0	0	0	0	0	749
4	0	0	0	0	0	0	18	74	64	182	205	166	153	191	174	177	66	10	0	0	0	0	0	0	1483
5	0	0	0	0	0	0	21	44	55	67	72	78	118	109	119	70	69	12	0	0	0	0	0	0	832
6	0	0	0	0	0	0	19	40	53	61	72	262	198	231	179	122	38	10	0	0	0	0	0	0	1286
7	0	0	0	0	0	0	20	49	66	78	87	95	100	90	75	60	41	12	0	0	0	0	0	0	772
8	0	0	0	0	0	0	16	36	42	49	50	51	51	50	46	37	26	8	0	0	0	0	0	0	462
9	0	0	0	0	0	0	19	40	49	51	52	51	50	51	50	43	28	8	0	0	0	0	0	0	492
10	0	0	0	0	0	0	24	52	59	70	75	75	74	75	70	61	40	9	0	0	0	0	0	0	685
11	0	0	0	0	0	0	21	52	71	79	79	81	84	81	73	59	37	10	0	0	0	0	0	0	729
12	0	0	0	0	0	0	21	53	69	81	85	83	81	81	76	65	44	9	0	0	0	0	0	0	747
13	0	0	0	0	0	0	28	92	194	291	186	146	374	336	230	124	77	16	0	0	0	0	0	0	2093
14	0	0	0	0	0	0	28	150	140	46	241	48 ?	68 ?	108	90	152	61	21	0	0	0	0	0	0	1153
15	0	0	0	0	0	0	16	38	51	62	72	80	99	244	124	82	41	12	0	0	0	0	0	0	922
16	0	0	0	0	0	0	16	37	48	54	58	59	59	58	53	45	28	7	0	0	0	0	0	0	523
17	0	0	0	0	0	0	18	43	59	67	69	68	67	63	59	55	37	10	0	0	0	0	0	0	614
18	0	0	0	0	0	0	20	54	74	82	90	90	115	132	163	164	78	18	0	0	0	0	0	0	1081
19	0	0	0	0	0	0	14	73	93	97	97	104	101	98	98	91	51	12	0	0	0	0	0	0	928
20	0	0	0	0	0	0	37	113	180	257	264	257	302	312	118	51	40	3	0	0	0	0	0	0	1935
21	0	0	0	0	0	0	13	83	77	70	73	75	71	70	62	57	41	7	0	0	0	0	0	0	699
22	0	0	0	0	0	0	16	35	46	51	54	56	57	54	49	39	21	3	0	0	0	0	0	0	480
23	0	0	0	0	0	0	15	34	42	49	53	55	57	57	54	46	25	2	0	0	0	0	0	0	489
24	0	0	0	0	0	0	15	47	69	101	213	204	90	66	58	46	25	3	0	0	0	0	0	0	936
25	0	0	0	0	0	0	25	105	145	234	326	319	285	217	94	56	5	0	0	0	0	0	0	0	1812
26	0	0	0	0	0	0	22	87	114	86	249	260	194	241	181	124	44	8	0	0	0	0	0	0	1610
27	0	0	0	0	0	0	19	129	230	295	235	201	186	97	86	85	29	7	0	0	0	0	0	0	1599
28	0	0	0	0	0	0	5	32	129	221	201	195	256	252	188	98	43	2	0	0	0	0	0	0	1622
29	0	0	0	0	0	0	11	33	45	52	55	58	58	57	51	41	21	1	0	0	0	0	0	0	484
30	0	0	0	0	0	0	13	44	93	84	93	233	154	145	173	152	51	3	0	0	0	0	0	0	1238
31	0	0	0	0	0	0	16	57	148	120	89	74	74	83	82	76	34	0	0	0	0	0	0	0	851
Avg	0	0	0	0	0	0	18	60	87	107	123	126	128	131	107	81	41	9	0	0	0	0	0	0	1018
S D	0	0	0	0	0	0	7	31	49	74	79	79	83	85	58	40	17	6	0	0	0	0	0	0	474
S/A	0	0	0	0	0	0	0.39	0.52	0.57	0.69	0.64	0.63	0.65	0.65	0.54	0.49	0.42	0.64	0	0	0	0	0	0	0.47
Min	0	0	0	0	0	0	5	18	41	46	50	48	50	50	46	37	5	0	0	0	0	0	0	0	462
Max	0	0	0	0	0	0	37	150	230	295	326	319	374	336	261	177	78	21	0	0	0	0	0	0	2093
n	0	0	0	0	0	0	282	372	371	368	372	367	369	372	372	372	370	149	0	0	0	0	0	0	4136

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.7% exceed the 15% QC threshold -- 4167 total daylight measurements.

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

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

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

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

October 2010

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	20.7	20.4	20.1	20.1	20.2	20.4	19.6	18.4	17.8	17.9	18.2	18.8	19.1	19.6	20.6	20.9	20.2	19.9	19.5	18.2	17.4	17	17	16.4	19.1
2	15.4	14.9	14.9	14.5	14.1	13.9	14.3	16.6	18.3	19.1	19.9	20.7	20.8	20.7	20.5	19.9	19.4	18.5	17.2	16.4	16	16.4	16.8	17.2	17.4
3	17.2	17.4	18.9	18.7	17.6	17.4	17.5	17.5	17.3	17.5	17.8	17.8	17.7	17.4	17.4	17.5	17.7	17.8	17.6	17.2	16.8	16.7	16.6	16.6	17.5
4	16.5	16.4	16.2	15.5	14.8	14.2	13.9	14.4	14.4	14.7	15.3	15.5	15.1	14.9	15.3	16.2	16.1	14.8	13.9	13.1	12.4	11.3	10.5	9.9	14.4
5	9.4	9	8.6	8.3	8.3	8	8	10	12.6	14.5	15.7	16.5	17.8	18.2	18.4	19.2	18.3	17.2	15.8	14.4	13	11.9	11.2	11.3	13.2
6	10.7	10.3	10	9.2	8.6	8.4	8.5	10.2	11.9	13.4	14.9	16.1	16.2	16.5	16.1	16.6	16.9	15.8	13.7	12.5	12.3	12	12.8	13.1	12.8
7	12.6	12	11.5	11.5	11.3	11.8	12.3	13.7	16.2	19	21.1	22.3	23.7	24.4	25.3	25.5	25.2	23.5	21.6	20.5	19.8	18.3	18.1	17.5	18.3
8	16.4	16	16.4	15.8	14.9	14.4	13.6	15.5	18.4	19.8	21.2	22.3	23.2	23.7	24.4	25.1	23.2	20.9	18.6	17.8	17.1	16.2	15.2	14.9	18.5
9	14.8	14.7	14.4	13.8	13.6	13.3	13.6	15.3	17.3	19.9	22.9	25.7	27	27.5	28	27.8	27.1	23.1	20.9	19.3	18.2	17.6	17.2	17.3	19.6
10	17.2	16.4	15.3	15	14.4	14.3	14.3	17	20.6	22.5	24.7	26.4	27.5	27.3	27.5	27.7	27	24.9	22.4	21.7	20.7	20.2	19.9	19.6	21
11	19	18.4	18.1	17.9	17.5	17.1	17	18.4	20.9	23.3	25.5	27.9	29	29.6	29.7	29.6	28.7	26.4	24.4	23.2	22.4	21.5	20.8	20.3	22.8
12	19.7	19.3	18.6	18.1	17.7	17.3	17.2	18.4	20.6	22.5	24.9	27.1	28.7	29.4	29.5	29.2	28.3	26.1	23.9	22.7	22	21.5	21.4	21.1	22.7
13	20.8	20.2	19.2	18.3	18.6	18.9	19	19.8	20.5	20.8	20.3	20	20.5	21.6	21.8	20.9	19.6	18.6	17.8	17.3	16.9	16.6	16.3	15.7	19.2
14	15.4	15.2	15.5	15.7	15.6	15.9	16.6	17.9	19.3	17.5	18.5	16.1	15.7	16.2	16.9	17.9	18.3	17.5	16.9	16.1	15.4	14.3	13.5	13.1	16.3
15	12.8	12.2	11.6	10.5	9.4	9.2	9.1	11	13.4	15.2	17.1	18.3	18.9	19.2	17.2	14.9	13.9	13.1	12.1	11.4	11.4	12.1	11.8	10.9	13.2
16	10.4	10	9.7	9.6	9	8.7	8.6	10	12.5	14.7	15.8	16.7	17.5	18	18.5	18.5	18.2	16.5	14.6	13.7	12.8	12.1	11.7	11.7	13.3
17	11.5	10.6	9.8	9.3	8.8	8	7.5	9.3	12.8	16.1	19.3	20.5	21	21.8	21.9	21.9	21.2	19.6	18.1	16.8	16.2	15.6	15.5	15.6	15.4
18	14.9	14.5	13.9	14	13.5	12.7	12.2	14.1	17	19.6	21.3	23.1	23.1	24.5	23.8	22.9	21.2	19.4	18.2	17.8	18	17.9	17.6	17.3	18
19	17.2	17.2	17.1	16.9	16.5	16.3	16	16.1	17.6	19.1	20.2	21.8	23.3	23.6	24	24.1	21.5	17.7	16.8	16.4	16.3	16.2	16.1	15.8	18.5
20	15.6	15.3	14.8	14.6	14.9	15	15.3	16.9	18.1	19.3	20.4	20.9	21.4	21.6	21.3	20.7	19.2	18	17	16	15.3	14.8	14.5	14.2	17.3
21	13.9	13.8	13.7	13.5	13.4	13.4	13.9	14.8	16.3	18.3	20.2	21.5	22.4	23.1	23.6	23.6	23.1	21.2	19.5	17.4	17.1	17	16.1	15.4	17.8
22	14.6	13.8	12.1	11.2	9.8	9.3	9.2	10.9	13.2	15.1	16.6	17.8	18.3	18.1	18.7	18.5	17.8	15.7	14.1	13.1	12.5	11.5	9.8	8.6	13.8
23	7.6	7.6	7.8	8	7.2	7	7.3	10.8	13.9	16.1	17.5	18.6	20	20.3	21	21	20.6	18.5	16.3	15.3	14.8	15	15	15	14.3
24	14.5	14.2	13.8	13.1	12.7	12.1	11.8	13	15.5	18.3	20.9	22	23	23.5	24.2	24.4	23.9	21.8	20.4	19.9	19.5	18.9	18.9	18.6	18.3
25	18.1	17.5	17	16.9	17	17	17.8	19.2	21.5	22.1	23.4	24.9	24.8	24.7	22.7	21	19.9	18.8	18.6	18.6	18.6	19.2	19.2	19.4	19.9
26	19.7	19.9	20.1	20.3	19.9	19.6	19.5	20.1	20.6	20.2	21	23.7	26.4	27.2	27.2	27.3	25.9	24.6	23.8	23.2	22.9	23	23	23.3	22.6
27	23.5	23.4	23.3	23.4	23.5	23.5	23.3	23.9	24.9	25.8	26.4	27.5	28.5	29.3	29.6	28.7	27.6	26	25.1	24.6	24.3	24.3	24.2	24.1	25.4
28	24	24.2	23.5	23.5	23.5	23.4	23.3	23.2	23.3	24	24.4	24.3	24.5	25.1	25.3	25.5	24.8	24.1	23.6	21.7	20.4	20.2	19.9	19.6	23.3
29	18.9	17.7	16.4	15.3	13.9	12.4	11.3	11.5	12.4	13.4	14.1	14.6	15.3	15.7	16.2	16.1	15.5	13.9	12.7	12.1	11.3	10.9	10.1	9.1	13.8
30	8.8	9	8.3	7.5	6.5	5.5	4.8	6	9.4	12.1	13	13.7	14.5	14.7	15.5	15.1	14.6	13.4	12.8	12.9	13.5	13.3	13	12.8	11.3
31	12.9	13.1	12.8	13.2	13.6	12.8	12	12.5	14.3	16.6	18.7	20.2	21.1	21.5	22	22	21.1	19	17.4	15.7	14.2	14.5	14.1	13.7	16.2
Avg	15.6	15.3	15	14.6	14.2	13.9	13.8	15	16.9	18.3	19.7	20.8	21.5	21.9	22.1	21.9	21.2	19.6	18.2	17.3	16.8	16.4	16	15.8	17.6
S D	4.1	4.1	4.2	4.3	4.5	4.6	4.7	4.2	3.7	3.4	3.5	4	4.3	4.4	4.4	4.4	4.2	3.8	3.7	3.6	3.6	3.6	3.8	3.9	3.6
S/A	0.26	0.27	0.28	0.29	0.31	0.33	0.34	0.28	0.22	0.18	0.18	0.19	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.21	0.21	0.22	0.23	0.25	0.2
Min	7.6	7.6	7.8	7.5	6.5	5.5	4.8	6	9.4	12.1	13	13.7	14.5	14.7	15.3	14.9	13.9	13.1	12.1	11.4	11.3	10.9	9.8	8.6	11.3
Max	24	24.2	23.5	23.5	23.5	23.5	23.3	23.9	24.9	25.8	26.4	27.9	29	29.6	29.7	29.6	28.7	26.4	25.1	24.6	24.3	24.3	24.2	24.1	25.4
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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

October 2010

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	101.8	102	102.1	102.1	102.1	101.8	101	99.8	98.7	96.1	93.4	90.7	89.3	87.8	84.2	81.5	82.2	83.7	86.7	93.3	96.3	94.7	90.8	90.8	93.9
2	93.4	95.6	93.4	95.4	97.2	98	97.1	89.6	86.6	81.7	73.2	73	76.8	72.2	76.2	77.6	80.7	85.7	92.7	98.3	100.3	99.7	99.2	100	88.9
3	101	102	98.7	100.6 ?	?	104.6 ?	103.7	103.1	102.7	102.2 ?	103.3 ?	101.9	101	101.8	100.5	99.9	98.7	97.3	96.4	97.1	97.5	98.1	98.2	97.9	100.4 ?
4	98.5	99	99.9	101.4	101.9	102	101.7	99.5	99.7	97.5	93.6	91.9	93.4	91.9	87.5	82.2	84.1	86.4	88.9	90.4	94.4	99.1	101.5	102.8	95.4
5	103.7	104	104.5	104.9	104.7	104.7	104.2 ?	97.8	86.4	79.3	79.9	75.5	71.2	69.8	67.6	64.3	68.5	74.1	82.1	89.1	98.1	102.8	103.9 ?	99.8	89.2
6	100.7	102	101.9	104 ?	?	?	104.8 ?	99.2	94.4	88.1	77.8	71	71.4	71	71.4	70	66.8	72.5	86.8	94.7	94.4	97.6	93.1	91	87.5 ?
7	93.2	96.2	98.2	98.8	99.6	97.4	94.1	87.5	78.1	66.8	59.7	58.2	55.3	55.6	56.2	57.5	56.9	63.1	71.8	76.4	79.1	87.3	88.3	88.2	77.7
8	92.5	92.9	86.1	86.6	90.3	92.8	96.8	90.3	79.2	74	67.2	59.7	55.4	53.3	48.7	52.3	65.5	72.6	83.1	84.7	86.8	92.4	96.5	96.5	79
9	92.6	88.7	89.4	92.5	92.1	93.2	90.6	84.7	81.5	78.5	66.4	53.8	46.2	42.8	41.1	42.7	48.7	73.8	80.5	86.9	92	96.8	100.9	100.4	77.4
10	100.5	103.1	?	?	?	?	?	98.9 ?	84	75.8	65.9	54.8	50.9	50	49.2	49.8	55.2	68.3	80.7	83.1	95.1	99.4	99.6	98.1	77 ?
11	98.2	99.8	99.9	98.3	98.6	100	100	95.8	86.3	75.9	69.3	60.6	57.3	55.5	56.7	56.2	59.2	68.1	75.9	82.1	87.4	93.7	98.4	100.2	82.2
12	102	102	103.6	104.9 ?	?	?	?	103.8 ?	98.1	89.8	77	64.8	54.8	51.4	51	52.6	54.2	64	76.2	79	80.3	80.9	80.2	81	78.6 ?
13	82.6	84.5	91.2	95.8	96	99.3	104 ?	104.4 ?	101.1	99.6	99.7	97.3	95.1	91.8	91.3	93.3	96.5	99.6	102.4	103.9	?	?	?	?	96.5 ?
14	?	?	?	?	?	?	?	104.5 ?	101.6	102.9	98.7	102.5	103.7	103.4	103.7	102.2	96.3	94.9	89.1	89.9	94.7	100.2	103.6	104.8 ?	99.8 ?
15	104	101.6	97.1	99.8	103.2	99.9	98	88	78	74.1	65.1	58.8	53.8	51.9	63.9	79.4	86	91.3	97.4	101.1	102.3	94.8	91.2	94.2	86.5
16	94.8	94.8	94.5	94.6	97.8	97	96.3	90	79.4	66.2	57.3	54.5	54.5	54	52.8	53.9	55.8	64.3	74.8	77.9	83.2	87.7	91.9	93.9	77.6
17	94.6	98	100.9	102.3	102.8	104.2 ?	?	102.5 ?	94.7	84.4	65.2	49.8	52.9	51.3	53	51.1	53.5	61.9	69.5	76.8	81.2	84.8	83.9	81	78.3
18	84.2	86	88.5	88.5	91.3	95.8	98.6	93.6	82.4	75.2	68.2	67.3	70.6	60.6	70.4	76.5	80.2	95.2	100.7	101.9	97.8	96.4	97.5	96.6	86
19	95.6	96.3	97.1	98.1	98.5	98.3	99.9	100.8	96.2	87	82.1	75.3	69.1	67.8	69.8	70.8	85.7	100.7	103	104.3	?	?	?	?	89.8 ?
20	?	?	?	?	?	?	?	?	104.8 ?	101.6	95.3	91	88.2	87.8	91.4	96.6	101.9	104.8 ?	?	?	?	?	?	?	96.3 ?
21	?	104.3 ?	103.8	104.7 ?	?	?	?	?	100.1	85.5	64.5	56.7	54.5	53.5	52.8	51.4	53	61.4	68.8	82.5	81.8	78.9	79.1	77.7	74.5 ?
22	80.5	85	92.2	97.2	101.8	103.4	103.9	93.3	82	75.5	64.3	58.4	53.9	54.5	52.2	50.6	51.6	61.9	74.7	80.3	81.3	86.4	96.4	100.1	78.4
23	103.4	103.2	101.8	99.6	103	102.8	104.3	97.7	90.9	77.2	59.2	49.6	48.6	49.9	47.5	48.6	52.4	67.3	78.9	89	90.9	94	97.4	95.2	81.3
24	95.5	96.4	96.8	99	101.2	103.6	?	103	97.9	89.5	84	82.5	79.6	74.2	70.1	70.4	73.9	83	91.6	95.3	96.5	99.2	99.8	100.4	90.6
25	101.9	104	?	?	?	?	?	103.7 ?	97.6	95.9	91	80.8	82.9	85.9	95.3	99.6	103.4	104.4	103.6	102.1	102.3	104	104.4	104.3	98.3 ?
26	104.3	103.6	103.5	103.2	103.8	104.2	104.3	103	101	102.6	101.5	95.8	85	81.1	84.5	87.5	91	96.9	100.3	102.1	102.3	102.8	103.1	102.4	98.7
27	101.6	101.8	101.7	101.4	100.4	99.5	100.1	99.4	98.5	97.3	96.5	93.6	89.5	86.2	84.9	90.1	93.9	99.2	101.6	102.7	103	102.4	102.5	102.5	97.9
28	102.2	101.6	104	102.4	101.2	100.6	100.3	100	100.1	95.2	92	94.6	95.3	95.2	95.7	94.4	97.4	100.4	101.8	100.1	104.2	104.6	104.6	101.5	99.6
29	84.8	73.8	80.3	81.1	80.8	76.6	77.6	74.5	72.1	67.2	65.8	64.2	60.5	58.8	56.9	56.8	59.3	66.2	71	72.5	78.7	80.3	83.9	86.8	72.1
30	83.3	78.8	82.2	87.1	92.6	98.7	102.4	99.2	85.5	78	74.3	70	65.4	56.6	58.5	63.1	67.3	73.1	79.2	86.6	89.4	95.5	95.2	94.1	81.5
31	92	93.4	97.3	95.6	90.5	92.7	95.4	92.6	84.1	72.4	60.7	51.4	48.1	48.7	45.8	45.6	50.3	58.6	66.7	78.5	91.4	95.9	91.1	82.7	75.9
Avg	95.8	96.4	96.7	97.8	97.9	98.8	99.1	96.6	91.1	84.9	77.8	72.6	70.1	68.3	68.7	69.9	73.2	80.5	85.9	90.1	92.2	94.7	95.6	95.2	86.7
S D	7.2	8.1	6.8	6.1	5.9	6	6	7.1	9.3	11.7	14.7	17.2	17.9	18.1	18.5	18.8	18.3	15.5	11.9	9.8	8.1	7.3	7.3	7.6	9
S/A	0.08	0.08	0.07	0.06	0.06	0.06	0.06	0.07	0.1	0.14	0.19	0.24	0.26	0.26	0.27	0.27	0.25	0.19	0.14	0.11	0.09	0.08	0.08	0.08	0.1
Min	80.5	73.8	80.3	81.1	80.8	76.6	77.6	74.5	72.1	66.2	57.3	49.6	46.2	42.8	41.1	42.7	48.7	58.6	66.7	72.5	78.7	78.9	79.1	77.7	72.1
Max	104.3	104.3	104.5	104.9	104.7	104.7	104.8	104.5	104.8	102.9	103.3	102.5	103.7	103.4	103.7	102.2	103.4	104.8	103.6	104.3	104.2	104.6	104.6	104.8	100.4
n	335	339	324	298	275	271	254	309	363	365	367	372	372	371	372	372	371	362	360	357	336	336	333	332	8147

Data Recovery: 0.0% missing; 0.0% untested; 8.7% 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

October 2010

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	21	21	20.8	20.5	20.4	20.5	20.4	19.7	18.9	18.7	19	19.8	20.4	20.9	22.1	22.9	22.2	21.3	20.5	19	17.1	15.9	15.5	15.3	19.7
2	14.8	13.9	13.4	13.1	12.8	12.5	12.6	15.2	19.5	22.1	24.1	26	26.8	26.3	26.1	25.7	24.8	22.9	19.6	17.1	16	16.1	16.5	17	19
3	17.3	17.4	17.9	18.7	18.5	17.9	17.7	17.6	17.7	17.7	18	18.2	18.2	18.1	18	17.9	17.8	17.8	17.6	17.6	17.5	17.3	17	16.9	17.8
4	16.9	16.7	16.6	16.3	15.8	15.2	14.6	14.6	14.9	15.2	16.2	17.1	17.4	17.2	17.3	17.8	18.9	17.5	15.9	14.4	13.2	11.9	10.5	9.5	15.5
5	8.9	8.4	8	7.6	7.3	7.2	7.1	9.5	13.6	17.7	20.6	21.8	22.5	22.9	22.6	22.7	20.7	17.9	14.8	12.4	10.8	10	9.7	14.5	
6	9.5	9.2	9	8.7	8	7.6	7.5	9.8	13.8	16.9	19.6	21.4	21.6	21.3	20	19.3	20.2	19.4	15.9	12.6	11	10.5	10.6	11.3	13.9
7	11.6	11.3	10.7	10.4	10.2	10.3	10.8	13.2	16.9	20.7	24.2	26.4	27.6	28.2	28.8	29.4	29.1	27.4	23.7	20.9	19.4	18.1	17.1	16.6	19.3
8	15.9	14.8	14.5	14.4	13.5	13	12.5	14.9	19.4	23.4	26.6	29.1	30.3	30.5	30.1	30.6	30.1	26.9	21.7	18.1	16.5	15.3	14.3	13.3	20.4
9	12.9	12.7	12.4	12.3	12	11.9	11.8	14.7	19	23.4	28	31.9	34.1	34.3	34.1	33.7	32.8	29.9	24.4	20.5	18.1	16.5	15.5	15.2	21.4
10	15.3	15.1	14.4	13.6	13.2	13	13	15.3	20.7	26.2	29.6	32.1	33.2	33.1	32.3	32.2	31.6	29.4	25	22	20.8	19.9	19.5	19.2	22.5
11	18.9	18.2	17.8	17.4	17.1	16.7	16.3	18	21.6	25.4	29	32.3	34.1	34.3	34.2	34.1	33.4	31	26.9	24.1	22.6	21.6	20.8	20.1	24.4
12	19.4	18.8	18.3	17.7	17.2	16.8	16.7	18.1	21.4	25	28.4	31.5	33.6	34	34	33.8	32.8	30.2	26	23.1	21.7	20.9	20.7	20.6	24.2
13	20.5	20.2	19.5	18.5	17.9	18.1	18.4	19	20.4	22.1	23	22.7	22.6	24.2	25.5	25.7	24.5	22.2	19.4	17.8	16.8	16.2	15.8	15.5	20.3
14	15.1	14.8	14.6	14.8	15	15.1	15.4	16.8	18.9	19.5	19	19.9	17.7	17.1	17.3	18	19.5	19.1	17.8	17	16.3	14.8	13.6	12.9	16.7
15	12.5	11.9	10.9	9.8	9	8.3	7.9	9.7	13.8	17.4	20.4	22.3	23.1	23.2	21.7	18.7	16.1	15	12.9	11.4	10.5	10.6	10.8	10.4	14.1
16	9.7	9.3	8.9	8.7	8.5	8	7.7	9.5	13.1	16.4	18.9	20.4	21.5	21.9	22	22.3	22	20.1	16.2	13.6	12.2	11	10.3	10	14.3
17	9.9	9.5	8.7	8	7.3	6.8	6.2	8.4	13.3	18.9	23.4	26.1	26.7	26.6	26.4	26.1	25.2	22.9	19.5	17.2	15.8	14.9	14.3	14	16.5
18	14	13.6	13.2	12.9	12.8	12.3	11.4	13	17.9	23.2	27.5	29.7	30.7	30.7	30.3	28.6	26.1	22.8	19.8	18	17.2	17.2	17.1	16.6	19.9
19	16.3	16.4	16.4	16.3	16.1	15.9	15.5	15.5	17.2	20.8	23.8	26.3	28	28.7	28.5	28.8	27.7	23.2	19.2	17.3	16.4	15.9	15.8	15.5	20.1
20	15.1	14.8	14.5	14.3	14.2	14.5	14.8	15.9	18.3	20.6	23.5	25.9	26.6	26.7	26.3	24.3	22.2	20.3	19.1	18	17	16.2	15.5	15.1	18.9
21	14.8	14.6	14.4	14.2	14.1	13.9	13.9	14.4	16.4	20.2	23.1	24.9	26.1	26.3	26.7	26.7	26.2	24.2	20.7	18	16.1	16	15.7	15	19
22	13.9	12.8	11.3	9.7	8.6	7.6	7.2	9.1	13.7	18.4	21.6	23.5	24.5	24.6	24.1	23.8	23	19.9	15.2	12.6	11.2	10.2	8.5	7	15.1
23	6.2	5.6	5.1	4.9	4.7	4.6	4.6	7.3	13.5	18.8	22	23.9	25.2	25.6	25.5	25.5	24.7	22.2	17.9	15.3	13.8	13.3	13.6	13.8	14.9
24	13.7	13.3	12.9	12.5	11.7	11.2	10.8	11.9	15.7	19.9	24	26	27	27.6	27.7	28	27.8	25.6	22.1	20.2	19.4	18.7	18.2	18	19.3
25	17.6	17.1	16.5	16.1	16.1	16.2	16.4	18.1	21.5	23.6	24.9	27.1	28	27.9	26.3	24	22.1	20.3	19.3	18.9	18.6	18.6	18.9	19.1	20.5
26	19.4	19.6	19.8	20	20	19.7	19.6	19.8	20.6	20.8	20.9	23.6	27.9	30.3	30.7	30.8	29.6	27.2	25.2	24	23.2	22.8	22.7	22.9	23.4
27	23.2	23.4	23.4	23.4	23.4	23.5	23.5	23.9	26.2	28.3	29	30.6	32	32.8	33.3	33.1	31.8	28.9	26.8	25.6	24.9	24.5	24.4	24.3	26.8
28	24.2	24.3	24	23.5	23.3	23.3	23.4	23.5	23.5	24.5	25.7	26	26.2	27.2	27.5	28.3	27.3	25.9	24.7	23.8	21.8	20.9	20.4	19.9	24.3
29	19	17.8	16.9	15.8	14.7	13.3	12	12	14	16.3	18.3	19.5	20.1	20.1	20.1	20.3	19.5	16.9	13.7	11.8	10.5	9.6	9.1	8.3	15.4
30	7.6	7.5	7.3	6.6	5.4	4.4	3.7	4.8	9.3	14.1	18.7	20.4	20.3	20	19.4	18.9	17.2	15	13	11.8	11.9	12.1	12.1	11.8	12.2
31	11.6	11.8	12	12	12.2	12.4	11.9	12.3	14.8	17.9	20.8	23.2	24.5	25.1	25.2	25.3	24.6	21.5	17.8	15.3	13.2	12.7	12.8	12.8	16.8
Avg	15.1	14.7	14.3	14	13.6	13.3	13.1	14.4	17.4	20.5	23	24.8	25.8	26	26	25.7	24.9	22.8	19.9	17.8	16.5	15.8	15.4	15.1	18.7
S D	4.5	4.5	4.6	4.8	4.9	5	5.1	4.6	3.7	3.4	3.7	4.3	4.9	5	5	5.1	4.9	4.5	4	3.9	3.9	4	4.1	4.2	3.7
S/A	0.3	0.31	0.32	0.34	0.36	0.38	0.39	0.32	0.21	0.17	0.16	0.17	0.19	0.19	0.19	0.2	0.2	0.2	0.2	0.22	0.24	0.25	0.27	0.28	0.2
Min	6.2	5.6	5.1	4.9	4.7	4.4	3.7	4.8	9.3	14.1	16.2	17.1	17.4	17.1	17.3	17.8	16.1	15	12.9	11.4	10.5	9.6	8.5	7	12.2
Max	24.2	24.3	24	23.5	23.4	23.5	23.5	23.9	26.2	28.3	29.6	32.3	34.1	34.3	34.2	34.1	33.4	31	26.9	25.6	24.9	24.5	24.4	24.3	26.8
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

October 2010

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	0.7	1.5	1.4	0.8	0.9	1.4	2.9	3.6	3.3	3.8	3.8	2.9	3.4	3.2	2.7	2.7	2.9	1.2	0.6	0.1	0.3	1.1	1.5	1.9	2
2	1.1	0.8	1	0.3	1	0.9	1.2	2.5	3.1	3.2	2.9	3	3.1	3.3	3.2	3	2.9	2.1	1.5	1.2	1.6	1.5	1.3	1.1	2
3	1.8	1.1	2	3.4	2.6	2.7	2.3	2.3	3.3	2.8	2.6	3.2	3.9	3.9	3.8	3.9	4.3	3.9	4.3	4.1	3.4	3.8	4.3	3.7	3.2
4	3.7	3.6	2.8	2.4	2.6	2.3	2.6	2.9	3	3.3	3.5	3.1	2.4	2.9	2.3	3.2	3	3	2.6	1.6	0.8	0.6	0.6	1.1	2.5
5	0.9	1.1	0.7	0.7	1	0.7	0.9	0.9	1.6	2.2	3.2	3.8	3.3	3.5	3.1	3	2.2	1.5	0.2	0	0	0	0.4	1.3	1.5
6	1.1	1.3	1.7	1.2	1.5	1.5	1.6	1.7	2.3	2.6	2.7	3.4	4	3.1	3.4	3.1	3.1	1.1	0.5	0.4	0.6	1.3	2	2.6	2
7	2	1.5	1.6	1.7	2.1	2.3	2.3	2.6	3.1	3	3.6	3.7	3.4	3.3	2.9	3.3	3	2	1.1	1.5	0.9	0.7	1.8	1.6	2.3
8	0.8	1.5	1.8	0.9	1.3	1.3	0.9	1.4	1.4	2.1	1.4	1.4	1.2	1.4	1.1	1	1.5	1.3	0.9	0.9	1.1	0.9	0.8	1.1	1.2
9	1.2	0.9	1.3	1.1	1.2	1	1.3	1.6	1.4	0.9	0.8	0.8	0.9	1.1	1.6	1.5	1.3	1.7	0.7	0.1	0.1	0.1	0.3	0.7	1
10	0.6	0.1	0	0	0	0.1	0.1	0	0.4	1.4	1.4	2.1	2.5	2.9	2.8	2.5	1.4	0.7	0.6	1.7	2.1	2.3	2.3	2.5	1.3
11	1.5	1.6	1.7	2	1.5	1.1	1.6	2.2	2.6	2.6	2	2.1	2.8	2.8	3	2.9	2.3	2	1.6	1.8	2.2	2.4	2.5	2.3	2.1
12	1.7	2.1	1.8	1.8	1.4	1.4	1.3	2.2	2.5	2.4	2.4	1.9	2.6	2.8	3	2.9	2.3	1	0.7	1	1.1	1.1	1.1	1.2	1.8
13	1.2	0.7	0.2	0.5	1.4	2	2.2	2.7	3	3.4	3.3	3.4	3.9	3.2	3.1	3.6	3.4	2.6	2	1.4	1	0.8	0.7	0.1	2.1
14	0	0	0.4	0.3	0.8	0.7	1.3	1.9	2.1	3	1.8	2.1	0.6	0.7	1	1.6	2.7	2.6	3	2	1.4	1.2	1.4	1.5	1.4
15	1.6	1.5	1.2	0.6	1.1	1.2	1.2	1.7	2.6	3	3.4	4	4.4	4.3	3.5	3.2	1.8	1.4	1.8	1.5	2.3	3.3	2.8	2.2	2.3
16	2.6	2.5	2.8	3	2.5	2.5	2.4	3	3.6	4.9	6.1	5	4.3	4.5	4	3.8	2.7	1.5	1.1	1.3	1	1	1.3	1.4	2.9
17	1.3	1	1	0.7	0.7	0.2	1	0.9	0.7	1.2	1.8	2.9	2.8	2.9	3.3	3.6	3.1	1.2	0.9	1	1.3	1.3	1	1.5	1.6
18	1.3	1.4	1.4	1.9	1.4	0.4	0.4	0.7	0.8	0.3	1.3	1.4	2	1.9	1.7	2.5	2.4	1.6	1.2	1.2	2.6	2.9	2.4	2.1	1.6
19	2.3	2.3	2.1	1.8	1.9	2	1.5	1.8	2.2	3	2.9	2.6	2.4	3	2.3	1.7	2.8	3.3	2.6	2.2	1.7	1.5	1.4	1.7	2.2
20	1.4	1.3	0.9	1.1	1	1.1	1.1	1	0.8	1	1.8	2.3	1.6	1.4	1	1.3	2.4	1.5	1.9	2	2.1	1.7	1.6	1.6	1.4
21	1.7	2.1	2.1	1.6	1.7	1.4	1.9	2.3	2.7	3.3	4.4	4.4	5	4.4	4.5	4.8	3.3	1.2	0.7	0.4	1.5	2.4	2.4	1.4	2.6
22	1.2	0.3	0.2	0.4	0.2	0.3	0.8	1.7	1.5	1.5	2.5	2.3	1.6	2.3	1.9	1.6	1.4	0.5	0.7	1	0.8	0.4	0.1	0.2	1.1
23	0.6	0.1	0.1	0.1	0.3	0.3	0.3	0	0.8	2.1	2.4	2.4	2.1	2.4	2.3	2.5	1.7	0.4	0.7	0.5	0.9	2	2.5	2.1	1.2
24	1.5	1.2	1.2	0.8	0.8	0.9	0.8	0.9	1.2	2.2	3.4	4.1	3.5	4.1	3.8	3.1	2.3	1.8	2.1	2.4	2.6	2.3	2.7	2.2	2.2
25	1.9	1.1	0.9	1.4	1.2	0.8	1.4	2.4	2.8	3.1	3.8	4.8	5.1	4.1	4.7	4.4	4.5	2.6	3.6	2.5	1.4	2.3	1.6	3.1	2.7
26	2.2	1.2	2	1.5	0.6	0.9	1.2	1.8	3.7	2.5	1.8	2.6	3.9	3.9	2.5	2.1	2.8	1.7	2.8	2.8	2.8	3.4	3.4	3.4	2.4
27	4.1	4	3.9	4.2	4.5	3.8	3.8	3.9	5.4	5.2	5.1	6.1	5.7	5.4	4.7	4.9	3.8	3	3.8	4.5	4.5	4.7	4.9	4.8	4.5
28	4.9	4.6	3.7	3.1	2.8	2.7	2.8	2.2	2.6	3.9	3.7	3.1	3.8	3.9	3.4	3	1.8	1.3	1.5	2.3	0	0.3	0.4	0.8	2.6
29	2.3	3.3	4.3	4	3.4	4.4	3.7	4	3.9	4	3.7	4.5	4	4.1	2.9	3	2.4	2.1	1.9	1.4	1.1	1.6	1.3	1.7	3
30	2.5	2.6	1.6	0.8	0.8	0.7	0.9	0.9	1.3	0.8	1.5	2.2	2.8	3.4	3.1	3	2.1	1.9	1.6	1.9	2.9	3.1	2.5	2.3	2
31	3.2	3.1	2.6	2.9	4.5	3.9	3.6	3.5	3.6	3.5	3.8	4.6	4.4	4.1	3.7	2.8	1.5	0.6	0.1	0.1	1	1.6	2.1	2.5	2.8
Avg	1.8	1.7	1.6	1.5	1.6	1.5	1.7	2	2.4	2.7	2.9	3.1	3.1	3.2	2.9	2.9	2.6	1.8	1.6	1.5	1.5	1.7	1.8	1.9	2.1
S D	1.1	1.1	1.1	1.1	1.1	1.1	1	1	1.2	1.2	1.2	1.2	1.1	1.1	1	0.8	0.8	1.1	1.1	1.1	1	1.1	1.1	1	0.7
S/A	0.6	0.68	0.67	0.76	0.7	0.74	0.6	0.52	0.49	0.44	0.42	0.38	0.39	0.34	0.34	0.33	0.32	0.48	0.68	0.7	0.69	0.66	0.63	0.53	0.35
Min	0	0	0	0	0	0.1	0.1	0	0.4	0.3	0.8	0.8	0.6	0.7	1	1	1.3	0.4	0.1	0	0	0	0.1	0.1	1
Max	4.9	4.6	4.3	4.2	4.5	4.4	3.8	4	5.4	5.2	6.1	6.1	5.7	5.4	4.7	4.9	4.5	3.9	4.3	4.5	4.5	4.7	4.9	4.8	4.5
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

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

October 2010

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	254	260	271	283	299	306	313	323	322	320	325	327	335	337	339	326	329	329	322	304	295	302	306	306	318
2	296	310	312	309	307	315	326	5	17	21	11	35	53	55	51	46	46	34	23	348	354	1	3	348	19
3	350	10	35	53	47	31	21	349	360	358	347	345	342	337	333	333	333	335	331	333	325	324	331	324	347
4	329	321	318	302	298	297	307	307	303	311	318	312	298	304	302	308	315	308	314	310	294	278	279	274	308
5	277	273	274	277	285	273	278	301	306	300	287	284	289	272	277	280	287	292	290	273	0	225	243	249	283
6	255	256	263	259	264	269	263	270	270	263	245	241	256	275	273	266	279	279	195	203	220	217	235	257	259
7	251	238	226	225	225	229	236	251	258	262	264	255	252	233	243	255	271	280	262	267	285	307	348	348	256
8	331	339	343	327	308	317	299	327	6	28	16	37	357	272	266	269	184	187	201	212	209	205	204	214	307
9	221	221	222	214	222	221	246	250	261	252	293	8	351	258	326	311	310	96	128	132	149	180	195	208	254
10	214	208	204	201	194	210	199	269	214	217	226	216	188	221	205	208	220	196	191	190	191	192	192	197	204
11	206	227	222	226	220	205	216	224	235	259	233	230	220	223	215	210	200	194	189	188	192	193	194	196	214
12	204	197	197	196	204	224	216	227	233	241	244	223	224	237	234	240	236	205	191	208	213	213	213	221	222
13	225	302	172	288	324	0	13	30	29	24	18	27	20	28	38	48	44	41	36	44	32	35	26	357	26
14	310	319	27	26	32	61	72	83	80	126	94	311	208	224	262	275	294	299	321	309	300	272	267	268	316
15	287	303	297	269	251	238	231	234	251	254	238	242	245	251	288	294	287	264	263	253	260	270	277	287	262
16	272	273	272	264	270	274	279	288	293	300	304	299	295	287	292	284	286	268	247	236	230	219	223	228	281
17	239	247	245	259	283	239	233	253	255	197	179	182	201	199	212	219	231	232	215	210	209	217	213	223	217
18	221	225	232	236	259	237	253	282	292	14	98	130	73	114	100	112	123	122	126	172	195	195	196	191	168
19	193	191	189	193	196	195	197	215	234	250	265	230	238	256	270	316	31	40	49	52	61	43	37	51	232
20	57	52	27	38	68	358	46	70	40	50	88	94	88	105	90	304	347	14	302	301	295	299	292	290	14
21	268	268	275	275	264	205	212	227	228	237	239	225	220	227	233	245	254	243	211	195	272	14	23	18	243
22	2	351	320	326	298	291	293	286	301	297	340	329	316	323	305	316	300	289	338	344	348	348	343	227	318
23	253	183	223	230	224	257	257	258	220	178	199	196	195	204	199	210	212	182	164	176	179	192	195	193	198
24	203	197	209	228	209	215	214	220	204	217	213	221	222	215	200	203	185	182	162	176	177	178	184	183	200
25	191	189	169	152	157	153	144	154	166	178	177	178	181	179	189	185	192	176	150	140	164	162	177	189	174
26	179	228	184	178	172	183	195	190	163	173	182	182	195	192	178	181	181	167	160	169	171	172	172	170	179
27	180	176	180	182	186	185	181	180	187	189	187	187	191	191	185	183	180	172	177	178	182	183	186	187	184
28	187	192	190	192	191	193	192	197	214	225	218	214	208	216	221	205	210	186	211	288	331	258	290	296	207
29	305	323	346	346	335	324	319	321	324	328	326	325	336	335	305	314	315	325	333	334	353	336	318	318	327
30	324	325	316	303	296	283	266	283	312	325	193	157	176	192	192	214	212	198	187	190	194	197	198	204	215
31	198	207	213	223	227	234	236	235	246	256	249	253	248	254	256	273	267	285	336	346	31	29	8	10	246
Avg	237	248	248	240	248	254	254	265	266	265	260	246	242	243	246	253	263	263	229	229	221	221	230	235	250
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

October 2010

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	1.8	3.4	3.2	2.4	2.6	3.5	5.9	6.5	6.6	7.3	7.3	6.2	6	6.1	5	5.2	5.2	2.8	1.7	0.9	1.1	2.4	3	3.7	4.2
2	2.5	2.1	2.4	1.2	2	1.9	2.4	4.6	5.6	5.8	5.1	5.4	5.7	5.9	6.2	5.5	5.3	3.9	3.3	2.6	2.9	3	2.7	2.2	3.7
3	3	2.3	4.3	5.8	5.1	5.3	4.8	4.4	6.2	5.1	5.1	6	7.2	7	7.2	7.5	7.8	7.2	7.3	7.8	6.5	7.6	7.9	7.1	6.1
4	7.1	6.7	5.8	5.3	5.3	5.4	5.8	6	6.5	7.4	6.8	6.5	5.6	6	5.6	7.1	6.1	6.4	5.3	3.9	2.2	1.6	1.7	2.3	5.4
5	2.2	2.2	1.8	1.5	2.5	1.9	2.2	2.6	3.7	5.1	6.8	7.1	6.7	6.5	6.2	5.9	4.5	3.8	1	0.1	0	0	1	2.3	3.2
6	2.1	2.5	3	2.4	2.8	2.8	3	3.7	4.6	5	5.2	6.4	7	6.7	6.5	6.1	6.2	2.5	0.9	0.9	1.2	2.2	3.3	4.6	3.8
7	3.4	2.4	2.7	2.8	3.5	3.9	3.9	4.6	5.3	5.4	6.2	6.6	6.5	5.9	5.5	6	6	4.1	2	2.4	1.7	1.2	3	2.5	4.1
8	1.5	2.6	3.1	1.6	2.3	2	1.6	2.7	2.9	4	3.2	2.9	2.9	3	2.7	2.3	2.9	2.4	1.6	1.4	1.7	1.4	1.3	1.6	2.3
9	1.8	1.5	2	1.8	2	1.6	2.1	2.9	2.6	2	1.7	2	2	2.7	3.4	3.4	2.6	2.6	1.3	0.5	0.3	0.6	0.7	1.1	1.9
10	1	0.4	0.1	0.1	0.2	0.3	0.5	0.3	1.1	2.5	2.9	4.1	4.2	5.3	4.9	4.7	2.6	1.3	1.1	2.7	3.1	3.5	3.5	3.7	2.3
11	2.6	2.7	2.8	3.3	2.7	2	2.8	3.8	4.3	4.4	3.5	4	5	5	5.7	5.3	4	3.1	2.4	2.7	3.6	3.8	3.9	3.7	3.6
12	3.1	3.3	2.7	2.8	2.4	2.4	2.2	3.7	4.3	4.1	4.3	3.7	5	5.3	5.2	5.2	4.1	1.9	1.2	1.8	2	2	1.9	2	3.2
13	2.2	1.7	0.6	1.3	2.3	3.5	4	5.1	5.4	6	5.8	6	6.7	5.5	5.7	6	5.8	4.4	3.6	2.4	1.9	1.5	1.3	0.5	3.7
14	0.3	0.2	0.9	0.7	1.4	1.4	2.3	3.7	4.2	6.4	3.5	4.2	1.5	1.7	2.8	3.8	5.6	5.4	5.8	4.3	3.2	2.6	2.7	3.3	3
15	3.7	3.6	2.7	1.6	2.4	2.5	2.2	3.2	4.7	5.3	6	7	7.7	7.7	7	6.5	3.7	2.6	3.2	2.6	4.2	5.6	5.6	4.5	4.4
16	4.8	4.6	5.1	5.2	4.4	4.5	4.9	5.9	7.3	9.8	12.1	9.8	8.3	8.6	7.9	7.9	5.7	2.7	1.7	2	1.6	1.4	2	2.2	5.4
17	2.2	1.7	1.7	1.4	1.5	0.6	1.6	1.8	1.6	2.2	3.4	5	5	5.4	5.9	6.1	5	2	1.7	1.6	1.9	2.3	1.8	2.6	2.8
18	2.3	2.2	2.2	2.8	2.4	0.9	1.1	1.5	1.7	1.1	2.5	2.8	3.2	3.1	3.1	3.7	3.5	2.7	1.9	2	3.9	4.3	3.5	3.3	2.6
19	3.6	3.5	3.6	3.2	3.2	3.1	2.5	3.1	4.1	5.6	5.1	4.9	4.5	5.1	4.2	3.7	4.7	5.1	4.6	3.8	3.1	2.7	2.3	2.8	3.8
20	2.5	2.1	1.4	1.9	1.9	2	2.2	2.5	1.9	2.3	2.9	3.7	3	2.6	2	2.8	4.1	2.6	4	4.2	4.6	3.9	3.4	3.8	2.8
21	3.4	4	4.6	3.3	3.5	2.5	3.7	4.5	5.2	6	7.6	7.6	8.7	8.3	8	8.8	6.2	2	1.1	1.1	2.8	4.6	4.2	2.5	4.8
22	2.1	0.8	0.6	0.7	0.6	1.1	1.6	3.3	3.2	3.4	4.8	4.7	3.7	4.2	4	3.7	3.2	1.3	1.3	1.7	1.3	0.7	0.2	0.6	2.2
23	0.9	0.3	0.2	0.2	0.7	0.5	0.5	0.1	1.6	3.7	4.2	4.1	4	4.4	4.1	4.3	3.1	1	1.3	1.3	1.6	3.1	3.9	3.4	2.2
24	2.4	2.2	2.2	1.6	1.3	1.4	1.2	1.7	2.5	4.1	6.1	7.3	6.6	7.3	6.6	6	3.9	3.2	3.8	4.5	4.9	4.3	4.7	3.9	3.9
25	3.4	2.2	2	2.4	2.3	1.6	2.5	3.9	4.9	5.5	6.6	8.6	8.6	7.6	8.6	7.5	7.9	4.5	5.6	4.3	3	4.2	3.2	5.5	4.8
26	4.2	3	3.7	3.2	2.1	2.4	2.9	3.6	6.4	4.6	3.6	5.2	7	6.5	4.3	3.9	4.8	2.9	4.7	5	5.1	6.2	6.5	6.1	4.5
27	7.4	6.6	6.8	7.1	7.6	6.6	6.4	7	9.3	8.9	9	10.3	9.5	8.9	7.9	8.6	6.7	5.3	6.8	7.7	7.8	8.2	8.2	8.1	7.8
28	7.7	7.7	6	5.5	5.1	4.8	4.9	4	5.2	7.2	6.6	6	7.3	7	6.3	5.2	3.2	2.4	3	4.8	0.2	1.1	1.2	2.3	4.8
29	4.6	6.1	7.5	6.9	6.4	8.1	7.3	7.7	7.5	7.7	7	7.9	7.5	7.7	6.2	5.7	4.9	4.1	3.6	2.7	2	3.2	2.8	3	5.8
30	4.4	5	3.2	1.9	1.7	1.5	1.7	2	3	1.9	3.1	3.9	4.8	5.5	5.6	5.3	3.9	3.1	3.2	3.4	4.7	5	4.7	4.6	3.6
31	5.6	5.7	4.9	5.3	7.5	7.2	6.3	6.1	6.6	6.2	6.7	8.2	7.9	7.4	6.8	5.6	3	1.4	0.3	0.2	1.6	2.5	4	4.7	5.1
Avg	3.2	3.1	3	2.8	3	2.9	3.1	3.8	4.5	5	5.3	5.7	5.8	5.8	5.5	5.5	4.7	3.3	2.9	2.8	2.8	3.1	3.2	3.4	3.9
SD	1.8	1.9	1.9	1.9	1.9	2	1.8	1.8	2	2.1	2.2	2	2.1	1.8	1.7	1.6	1.4	1.5	1.9	1.9	1.8	2	1.9	1.7	1.3
S/A	0.57	0.63	0.62	0.68	0.64	0.69	0.59	0.49	0.44	0.42	0.41	0.35	0.36	0.32	0.31	0.3	0.31	0.46	0.65	0.67	0.66	0.63	0.59	0.52	0.34
Min	0.3	0.2	0.1	0.1	0.2	0.3	0.5	0.1	1.1	1.1	1.7	2	1.5	1.7	2	2.3	2.6	1	0.3	0.1	0	0	0.2	0.5	1.9
Max	7.7	7.7	7.5	7.1	7.6	8.1	7.3	7.7	9.3	9.8	12.1	10.3	9.5	8.9	8.6	8.8	7.9	7.2	7.3	7.8	7.8	8.2	8.2	8.1	7.8
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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

October 2010

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	998	998	998	998	999	1000	1001	1002	1003	1003	1003	1004	1004	1004	1005	1005	1006	1007	1008	1008	1009	1009	1009	1010	1004	
2	1010	1010	1010	1011	1011	1012	1012	1013	1013	1013	1013	1013	1013	1012	1012	1012	1011	1011	1011	1012	1012	1011	1011	1011	1010	1012
3	1010	1009	1009	1009	1009	1009	1009	1009	1010	1010	1010	1010	1009	1009	1009	1009	1009	1009	1010	1010	1011	1011	1011	1011	1010	1010
4	1011	1011	1011	1011	1012	1012	1013	1014	1015	1015	1015	1015	1015	1015	1015	1016	1016	1017	1017	1017	1017	1017	1017	1017	1015	
5	1017	1017	1017	1017	1017	1018	1018	1019	1019	1019	1018	1018	1017	1016	1016	1016	1016	1017	1017	1017	1017	1017	1016	1016	1017	
6	1016	1015	1014	1014	1014	1014	1015	1015	1015	1015	1014	1013	1013	1012	1011	1011	1011	1011	1011	1011	1012	1011	1011	1011	1013	
7	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1010	1008	1008	1008	1008	1009	1009	1010	1011	1011	1012	1012	1010	
8	1013	1013	1013	1014	1014	1014	1015	1016	1017	1017	1017	1017	1016	1015	1015	1014	1014	1014	1014	1014	1014	1014	1014	1014	1015	
9	1014	1014	1013	1013	1013	1013	1014	1014	1015	1015	1014	1014	1013	1012	1012	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013	
10	1013	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1013	1012	1011	1011	1010	1010	1010	1010	1010	1010	1010	1010	1010	1012	
11	1010	1010	1010	1010	1010	1010	1010	1011	1011	1011	1011	1010	1010	1009	1009	1009	1009	1009	1009	1009	1009	1010	1009	1009	1010	
12	1009	1009	1009	1009	1009	1008	1008	1009	1009	1009	1009	1008	1008	1007	1007	1007	1007	1008	1008	1008	1008	1008	1008	1008	1008	
13	1009	1009	1008	1008	1009	1010	1010	1011	1012	1012	1013	1013	1012	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013	1012	1011	
14	1012	1012	1011	1010	1010	1010	1009	1009	1009	1008	1007	1007	1006	1005	1005	1004	1005	1005	1006	1006	1007	1007	1007	1007	1008	
15	1008	1008	1007	1008	1008	1008	1008	1008	1008	1008	1007	1006	1005	1004	1005	1005	1006	1007	1007	1008	1009	1009	1010	1010	1007	
16	1010	1010	1010	1011	1012	1012	1013	1014	1014	1014	1014	1014	1013	1013	1013	1013	1014	1014	1014	1015	1015	1015	1016	1016	1013	
17	1016	1016	1016	1016	1016	1017	1017	1017	1018	1017	1017	1016	1015	1014	1013	1012	1012	1012	1013	1013	1013	1013	1013	1013	1015	
18	1013	1012	1012	1012	1013	1013	1013	1014	1014	1014	1014	1013	1012	1012	1011	1010	1010	1010	1010	1011	1011	1011	1011	1010	1012	
19	1010	1010	1009	1009	1009	1009	1009	1010	1011	1011	1011	1010	1009	1009	1009	1009	1009	1010	1010	1010	1011	1011	1011	1011	1010	
20	1011	1010	1010	1009	1009	1010	1010	1010	1010	1010	1010	1009	1008	1007	1007	1007	1007	1007	1008	1008	1009	1009	1009	1009	1009	
21	1009	1009	1008	1008	1008	1008	1008	1008	1008	1007	1007	1006	1005	1004	1004	1004	1005	1005	1006	1007	1007	1009	1010	1010	1007	
22	1011	1011	1011	1012	1013	1014	1014	1016	1017	1017	1018	1018	1018	1017	1017	1018	1018	1019	1019	1020	1021	1021	1022	1021	1017	
23	1022	1022	1022	1022	1023	1023	1023	1024	1024	1024	1024	1024	1024	1022	1022	1022	1022	1022	1022	1023	1023	1023	1023	1022	1023	
24	1022	1022	1022	1022	1022	1022	1022	1023	1023	1023	1022	1021	1021	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1020	
25	1018	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1015	1014	1013	1013	1013	1013	1013	1013	1012	1012	1012	1013	1013	1015	
26	1013	1013	1012	1012	1012	1013	1013	1013	1014	1013	1013	1013	1012	1011	1011	1011	1011	1011	1012	1012	1012	1012	1012	1013	1012	
27	1013	1013	1013	1013	1014	1014	1014	1015	1015	1015	1015	1015	1014	1014	1013	1013	1013	1013	1014	1014	1015	1015	1015	1015	1014	
28	1014	1015	1014	1014	1014	1014	1014	1014	1014	1014	1013	1013	1012	1011	1011	1010	1010	1010	1010	1011	1011	1011	1011	1010	1012	
29	1010	1011	1012	1013	1014	1015	1016	1017	1017	1018	1018	1017	1017	1016	1016	1016	1017	1018	1018	1019	1019	1020	1020	1020	1016	
30	1020	1020	1020	1021	1021	1021	1022	1022	1022	1022	1022	1021	1019	1018	1017	1017	1016	1016	1015	1014	1014	1014	1013	1013	1018	
31	1012	1012	1011	1011	1011	1011	1011	1012	1012	1012	1012	1011	1011	1010	1010	1011	1012	1012	1013	1014	1015	1016	1017	1018	1012	
Avg	1012	1012	1012	1012	1012	1013	1013	1014	1014	1014	1014	1013	1012	1012	1011	1011	1012	1012	1012	1012	1013	1013	1013	1013	1013	
S D	5	5	5	5	5	5	5	5	5	5	5	5	5	4	4	4	4	4	4	4	4	4	4	4		
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		
Min	998	998	998	998	999	1000	1001	1002	1003	1003	1003	1004	1004	1004	1004	1004	1005	1005	1006	1006	1007	1007	1007	1007		
Max	1022	1022	1022	1022	1023	1023	1023	1024	1024	1024	1024	1024	1024	1022	1022	1022	1022	1022	1022	1023	1023	1023	1023	1022		
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

October 2010

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