

August 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	13	47	118	139	102	211	174	268	337	224	127	67	36	14	5	0	0	0	0	1881
2	0	0	0	0	0	20	65	213	398	688	583	134	346	413	301	186	107	158	83	5	0	0	0	0	3701
3	0	0	0	0	0	29	166	352	572	674	684	658	769	913	798	628	424	216	57	3	0	0	0	0	6943
4	0	0	0	0	0	17	113	323	527	684	732	756	459	479	492	566	332	213	53	3	0	0	0	0	5748
5	0	0	0	0	0	18	104	258	495	657	830	899	919	859	718	572	387	189	16	0	0	0	0	0	6922
6	0	0	0	0	0	17	105	237	479	677	693	648	861	765	659	593	410	213	44	0	0	0	0	0	6400
7	0	0	0	0	0	10	83	288	525	707	870	915	924	880	678	591	386	192	42	0	0	0	0	0	7091
8	0	0	0	0	0	22	127	308	436	715	847	860	697	794	651	545	389	160	43	0	0	0	0	0	6593
9	0	0	0	0	0	19	111	336	532	738	832	936	854	895	764	610	409	203	39	0	0	0	0	0	7276
10	0	0	0	0	0	26	123	314	500	677	809	895	829	843	703	562	288	134	23	0	0	0	0	0	6726
11	0	0	0	0	0	19	124	324	403	527	766	873	888	839	709	508	350	47 ?	20	0	0	0	0	0	6398
12	0	0	0	0	0	7	45	178	252	393	489	601	741	714	277	72 ?	117	206	42	0	0	0	0	0	4133
13	0	0	0	0	0	24	132	311	411	609	530	255	730	555	735	459	378	168	35	0	0	0	0	0	5329
14	0	0	0	0	0	30	144	341	543	711	861	936	871	895	783	594	415	202	39	0	0	0	0	0	7366
15	0	0	0	0	0	23	128	322	533	708	839	924	912	717	654	568	397	182	40	0	0	0	0	0	6947
16	0	0	0	0	0	24	124	313	463	657	849	913	922	891	773	524	382	181	32	0	0	0	0	0	7048
17	0	0	0	0	0	24	133	326	523	642	715	681	906	760	757	590	326	117	43	0	0	0	0	0	6543
18	0	0	0	0	0	18	134	264	383	584	719	712	860	499	230	62 ?	?	66	25	0	0	0	0	0	4556 ?
19	0	0	0	0	0	7	52	120	279	190	143	521	356	376	148	155	54 ?	39	32	0	0	0	0	0	2472
20	0	0	0	0	0	17	110	242	529	712	731	913	917	863	738	573	372	164	26	0	0	0	0	0	6906
21	0	0	0	0	0	23	92	269	472	675	808	878	846	843	729	527	359	107	27	0	0	0	0	0	6654
22	0	0	0	0	0	3	31	127	329	507	756	715	782	692	625	81 ?	?	18 ?	19	0	0	0	0	0	4686 ?
23	0	0	0	0	0	6	56	169	463	507	609	714	637	764	504	371	173	34	4	0	0	0	0	0	5012
24	0	0	0	0	0	11	50	274	371	489	676	905	844	642	627	489	277	125	30	0	0	0	0	0	5810
25	0	0	0	0	0	6	56	215	163	648	577	585	611	554	527	362	219	65	27	0	0	0	0	0	4615
26	0	0	0	0	0	14	142	255	457	544	584	765	773	693	744	531	376	129	26	0	0	0	0	0	6033
27	0	0	0	0	0	11	98	287	490	571	804	893	932	872	637	171	106	74	29	0	0	0	0	0	5976
28	0	0	0	0	0	10	94	243	208	603	738	928	890	691	706	533	332	133	20	0	0	0	0	0	6129
29	0	0	0	0	0	20	119	312	508	692	827	894	904	847	724	549	348	138	20	0	0	0	0	0	6899
30	0	0	0	0	0	14	106	298	499	678	811	877	884	832	711	532	329	127	17	0	0	0	0	0	6716
31	0	0	0	0	0	14	108	286	520	670	804	882	887	827	705	532	332	130	16	0	0	0	0	0	6713
Avg	0	0	0	0	0	17	101	265	432	601	701	750	775	727	614	444	305	134	32	0	0	0	0	0	5878
S D	0	0	0	0	0	7	35	66	116	147	174	222	185	167	185	187	115	61	15	1	0	0	0	0	1390
S/A	0	0	0	0	0	0.43	0.35	0.25	0.27	0.24	0.25	0.3	0.24	0.23	0.3	0.42	0.38	0.45	0.49	2.79	0	0	0	0	0.24
Min	0	0	0	0	0	3	31	118	139	102	143	134	268	337	148	62	54	18	4	0	0	0	0	0	1881
Max	0	0	0	0	0	30	166	352	572	738	870	936	932	913	798	628	424	216	83	5	0	0	0	0	7366
n	0	0	0	0	0	232	372	372	372	372	371	372	372	372	370	356	339	359	302	4	0	0	0	0	4937

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.3% exceed the 15% QC threshold -- 5003 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.

August 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	*	
2	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*
3	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*
4	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*
5	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
6	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
7	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
8	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
9	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
10	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
11	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
12	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
13	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
14	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
15	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
16	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
17	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
18	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
19	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
20	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
21	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
22	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
23	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
24	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
25	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
26	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
27	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
28	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
29	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
30	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
31	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
Avg	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	N/A	N/A	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	N/A	N/A	N/A	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	N/A
Max	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	N/A	N/A	N/A	0	0	0	0	0	N/A
n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 100.0% missing; 0.0% untested; 0.0% exceed the 15% QC threshold -- 5003 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**

**August 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	14	47	114	139	102	211	174	268	337	224	127	67	36	14	5	0	0	0	0	1879
2	0	0	0	0	0	21	64	199	183	256	373	134	346	392	280	185	107	123	61	5	0	0	0	0	2731
3	0	0	0	0	0	18	57	82	98	146	223	262	240	158	113	107	106	82	36	3	0	0	0	0	1731
4	0	0	0	0	0	17	90	152	231	356	471	563	435	438	451	329	171	118	44	3	0	0	0	0	3868
5	0	0	0	0	0	18	83	191	180	260	289	236	233	249	275	242	218	119	16	0	0	0	0	0	2609
6	0	0	0	0	0	18	88	180	217	220	351	450	370	304	328	195	117	99	27	0	0	0	0	0	2965
7	0	0	0	0	0	10	81	196	201	239	275	233	244	232	279	220	150	94	32	0	0	0	0	0	2486
8	0	0	0	0	0	22	87	181	259	275	293	362	344	317	250	209	168	110	33	0	0	0	0	0	2909
9	0	0	0	0	0	21	96	126	173	225	201	246	217	189	153	132	107	75	25	0	0	0	0	0	1985
10	0	0	0	0	0	20	86	145	193	238	287	252	302	297	272	205	173	104	23	0	0	0	0	0	2595
11	0	0	0	0	0	19	100	220	269	320	336	306	293	292	264	281	217	43 ?	20	0	0	0	0	0	2981
12	0	0	0	0	0	7	44	172	252	384	452	390	418	362	235	50	108	149	32	0	0	0	0	0	3055
13	0	0	0	0	0	22	85	146	256	288	384	255	508	432	344	237	151	95	30	0	0	0	0	0	3232
14	0	0	0	0	0	26	57	77	108	139	112	112	181	183	121	120	93	77	27	0	0	0	0	0	1431
15	0	0	0	0	0	19	61	95	115	128	145	174	240	384	241	139	110	74	27	0	0	0	0	0	1952
16	0	0	0	0	0	20	74	110	158	241	212	136	141	147	172	179	119	66	23	0	0	0	0	0	1799
17	0	0	0	0	0	15	52	80	100	130	212	273	234	164	90	94	127	90	36	0	0	0	0	0	1697
18	0	0	0	0	0	17	90	195	244	251	335	337	371	273	214	57 ?	?	62	25	0	0	0	0	0	2471 ?
19	0	0	0	0	0	7	52	120	272	189	135	464	355	374	148	155	42	39	32	0	0	0	0	0	2384
20	0	0	0	0	0	16	79	201	274	209	243	241	266	181	132	108	86	59	18	0	0	0	0	0	2113
21	0	0	0	0	0	23	58	133	208	222	218	225	246	202	176	144	106	77	27	0	0	0	0	0	2066
22	0	0	0	0	0	3	31	127	271	330	372	356	376	353	255	76 ?	19 ?	16	19 ?	0	0	0	0	0	2605
23	0	0	0	0	0	6	55	155	188	350	413	475	299	286	259	277	133	34	3	0	0	0	0	0	2934
24	0	0	0	0	0	11	46	205	181	227	302	386	274	284	230	245	152	83	30	0	0	0	0	0	2656
25	0	0	0	0	0	6	56	203	152	204	316	417	541	497	407	271	188	64	23	0	0	0	0	0	3345
26	0	0	0	0	0	15	98	152	186	306	358	295	316	328	234	209	169	91	22	0	0	0	0	0	2777
27	0	0	0	0	0	10	63	123	168	277	218	294	316	289	257	168	106	74	26	0	0	0	0	0	2388
28	0	0	0	0	0	12	85	197	194	256	300	202	292	308	196	147	109	60	16	0	0	0	0	0	2375
29	0	0	0	0	0	13	43	66	80	93	115	107	99	94	90	83	68	44	12	0	0	0	0	0	1007
30	0	0	0	0	0	12	49	84	101	110	116	121	128	109	102	89	83	51	12	0	0	0	0	0	1167
31	0	0	0	0	0	13	52	86	106	115	112	113	121	122	114	102	74	41	9	0	0	0	0	0	1181
Avg	0	0	0	0	0	15	68	146	186	228	270	277	291	277	223	167	121	76	25	0	0	0	0	0	2367
S D	0	0	0	0	0	6	19	47	60	80	102	120	105	103	89	73	47	31	11	1	0	0	0	0	679
S/A	0	0	0	0	0	0.38	0.28	0.32	0.32	0.35	0.38	0.43	0.36	0.37	0.4	0.43	0.39	0.4	0.44	2.79	0	0	0	0	0.29
Min	0	0	0	0	0	3	31	66	80	93	112	107	99	94	90	50	19	16	3	0	0	0	0	0	1007
Max	0	0	0	0	0	26	100	220	274	384	471	563	541	497	451	329	218	149	61	5	0	0	0	0	3868
n	0	0	0	0	0	218	372	372	371	372	372	372	372	372	370	365	352	368	301	4	0	0	0	0	4953

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.0% exceed the 15% QC threshold -- 5003 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**

**August 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	23.3	22.3	21.5	20.4	19.8	19.9	20.4	21.2	22	22.3	23	23.5	23.9	24	23.8	23.3	22.2	21.7	21.4	21.3	21.3	21.8	22.3	22.1	22
2	21.7	22	22.4	22.5	22.2	22.1	22.6	23.6	25.7	27.5	27.6	25.5	25.4	26.5	26.4	26.6	26.2	25.9	25.7	24.9	24.6	24.4	24	23.9	24.6
3	23.8	23.7	23.1	22.5	22.5	23	24.6	26	27.1	28	28.1	28.6	29.1	29.5	29.5	29.1	28.5	28.1	27.2	26.1	25.5	25.1	24.7	24.7	26.2
4	24.6	24.6	24.5	24.6	24.7	24.6	25.1	26.5	28.2	29.5	30.6	31.3	31.3	31.4	32.1	32.8	32.2	31.9	31	29.9	29.2	28.3	27.5	27.3	28.5
5	23.6	23.5	23.2	23.4	23.2	23.1	23.5	24.6	25.8	27.8	28.7	30.4	32	33.1	33.6	33.9	33.5	32.4	31	29.9	23.3	22.3	22.5	22.9	27.1
6	23.3	23.6	23.4	23.1	23.2	23.4	23.9	24.8	26.1	27.8	28.5	29.5	30.3	31.1	31.7	32.1	32.4	32.2	31.1	29.4	27.9	25.8	24.9	24.6	27.3
7	24.3	24	23.9	24.3	24.4	24.2	24.6	25.5	27.1	28.1	28.6	29	29.7	29.8	29.8	29.8	29.2	28.3	27	25.8	25.2	25.1	25	25	26.6
8	24.7	24.4	24.4	24.3	24.2	24.1	24.5	25.6	27	28.9	29.8	30.6	30.1	30.5	30.6	30	29.6	28.2	27.3	26.4	25.9	25.7	25.7	25.2	27
9	24.8	24.1	23.8	23.5	23.5	23	23.1	24.5	27	28.6	29.8	30.4	30.4	30.6	30.3	30.5	30.4	29.4	28	26.8	26.4	26.3	25.6	25	26.9
10	24.6	24.5	24.5	24.2	24.2	24.1	24.5	25.8	27.7	29.5	30.7	32.2	33.1	33.7	34	34.1	33.5	32.9	31.5	30.3	29.6	28.9	28.6	28.1	28.9
11	27.6	27.4	27.2	27	26.8	26.5	26.8	27.9	28.7	29.8	30.9	32.2	33.7	34.8	35.1	35.9	34	26.8	26.2	26	25.4	25.5	25.6	25.4	28.9
12	25.4	25.6	25.3	25.1	25.3	25.3	25.2	26.5	27.4	28.1	28.7	30.2	31.1	31.7	29.3	25.5	25	25.8	25.7	25.2	25	24.5	24.4	24.4	26.5
13	24.2	23.9	23.9	23.9	23.9	24.1	25	26.6	27.6	28.5	28.6	27.9	28.5	28.4	28.8	28.4	28.1	27.4	26.5	25.7	25.3	24.8	24.5	24.3	26.2
14	23.8	23.4	23.1	22.3	22.3	22.4	23.6	25.1	26.1	26.8	27.4	28.2	28.3	28.3	28.4	28.2	27.6	27.1	25.9	25.1	24.7	24.2	24	24.2	25.4
15	24.1	23.5	23.5	23.6	23.4	23.2	24.5	25.6	26.5	27.5	28.4	28.7	29.3	29.8	29.6	29.2	28.8	28.4	27.7	27	26.2	25.7	25.5	25.4	26.5
16	25.2	25	24.9	24.9	24.5	24.1	24.7	26.3	27.4	28.3	29.8	30.3	30.8	31.6	32	31.7	30.9	30.5	29.4	28.5	27.8	27.2	26.8	26.4	27.9
17	26.2	26	25.4	25.2	24.9	25	25.8	27	28.1	29.1	30.3	30.9	31.5	32.4	33.1	33	31.9	31.1	30.1	28.7	27.9	27.5	27.2	26.9	28.5
18	26.5	26.2	26	25.9	25.7	25.4	26	27.3	27.9	28.9	30.2	30.8	31.6	31.6	27.9	26.2	24.6	23.7	24	24.6	24.6	24.7	24.7	24.5	26.6
19	24.4	24.2	24.1	23.9	23.8	23.8	23.9	24.4	25.4	26.6	26.4	26.7	27.2	27.6	27.2	27	26.7	26.1	25.8	25.1	24.6	24.6	24.6	24.6	25.4
20	24.2	24.1	23.9	23.7	23.4	23.2	23.5	24.4	26.4	28	28.8	29.6	30.4	30.5	31.1	31.3	31.2	30	28.3	26.9	26	25.1	24.7	24.8	26.8
21	23.5	23.1	22.4	22.1	22.4	22.4	23.2	25.4	26.9	27.7	28.7	29.8	29.9	30.3	30.1	29.4	29	27.7	26.9	26.4	26.1	26	26.2	26.4	26.3
22	26.5	26.4	26.1	25.9	25.6	24.7	25.1	25.5	26.2	26.6	27.7	29.2	30.4	31.3	31.7	30.4	25.2	23.4	23.6	23.9	24.5	24.6	24.7	24.6	26.4
23	24.6	24.6	24.3	24	23.7	23.5	23.7	24.4	26.5	27.9	28.6	29.8	30.8	31.3	30.4	28.9	27	26.4	25.5	25.2	25.3	24.9	24.3	24.3	26.3
24	24	23.6	23.3	23.2	22.9	22.7	23.1	24.4	25	25.7	25.7	25.9	25.9	25.7	25.3	25.1	24.7	23.7	23	22.3	21.8	21.5	21.4	21.3	23.8
25	20.7	20.5	20.3	20.3	20.1	20.1	20.1	21	21.3	22.9	24.5	25	25.6	26	26.7	26.6	26.4	25.8	25.4	24.2	23.3	22.7	22.4	21.5	23.1
26	21.2	21.3	20.7	20.2	20.4	20.5	21.7	23.9	25	26.4	27.4	28.3	29.3	29.8	30.5	30.6	30.4	27.7	26.1	25	24.7	24.4	24.4	24.1	25.2
27	23.7	23.6	23.6	23.6	23	22.3	23.1	24.6	26.1	27	27.9	28.3	28.2	28.4	28.5	27.4	26.4	25.7	25.2	24.6	24.1	23.9	24	23.9	25.3
28	23.5	23.6	22.8	22.5	22.5	22.4	23.4	24.4	25.2	26	27.1	28	28.5	28.3	28.2	28.2	27.5	26.4	25	24.1	23.8	23.2	21.9	21.7	24.9
29	20.7	20	19.2	19.1	18.8	18.8	19.5	22.4	24.9	26.6	27.9	28.9	29.5	29.6	30.2	29.6	28.4	27.4	26	24.9	23.2	22.4	21.5	21	24.2
30	21.2	20.7	20.2	20.3	20.1	20.2	21.3	23.6	26.7	29.1	30.4	31.7	33	33.8	34.4	34.6	32.3	31.1	29.5	27.8	27	26.2	25.2	24.7	26.9
31	24.1	23.3	23.1	22.8	22.5	22.3	23	25.5	28.6	30.6	31.9	32.5	32.8	32.9	32.9	32.5	31.8	30.7	28.9	26.4	25.2	24.8	23.6	23.4	27.3
Avg	24	23.8	23.5	23.3	23.2	23	23.6	25	26.4	27.6	28.5	29.2	29.7	30.1	30.1	29.7	28.9	27.9	27	26.1	25.3	24.9	24.6	24.4	26.2
S D	1.6	1.7	1.8	1.8	1.9	1.8	1.7	1.6	1.6	1.8	1.9	2.2	2.4	2.5	2.7	3	3	2.9	2.5	2.1	1.9	1.7	1.7	1.7	1.6
S/A	0.07	0.07	0.08	0.08	0.08	0.08	0.07	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.1	0.11	0.1	0.09	0.08	0.07	0.07	0.07	0.07	0.06
Min	20.7	20	19.2	19.1	18.8	18.8	19.5	21	21.3	22.3	23	23.5	23.9	24	23.8	23.3	22.2	21.7	21.4	21.3	21.3	21.5	21.4	21	22
Max	27.6	27.4	27.2	27	26.8	26.5	26.8	27.9	28.7	30.6	31.9	32.5	33.7	34.8	35.1	35.9	34	32.9	31.5	30.3	29.6	28.9	28.6	28.1	28.9
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.

Prepared by: Afshin M. Andreas, NREL

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

**August 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	96.5	100.7	104.7 ?	?	?	?	?	?	?	104.4 ?	101.6	99.9	100.9	99.9	99.6	102.6	?	?	?	?	?	?	104.7 ?	104.7	101.7 ?	
2	105 ?	104.9 ?	105 ?	?	?	?	?	103.8 ?	99.1	89.2	88.5	99.1	98.6	94.3	94.6	93.3	95.3	96.1	96.5	99	99.6	101.2	103.4	104.6	98.6 ?	
3	104.8 ?	?	?	?	?	?	103.8 ?	99	90.4	82.7	84.6	82.7	82.3	78.3	74.3	79.9	81.7	87.3	93.4	98.1	99.8	101.3	104	104.7 ?	91.2 ?	
4	?	?	?	?	?	?	?	102.1 ?	97	93.5	88.4	85.8	85.9	86.1	82.2	78.6	81	82.3	85.5	91.2	96	97.2	97.1	98.8	89.9 ?	
5	101.3 ?	?	?	?	?	?	104.2 ?	100.5	96.8	93.1	93.4	89.1	86.2	83.5	82	80.8	82.2	85.3	89	89.6	100 ?	?	?	?	91.1 ?	
6	?	?	?	?	?	104.3 ?	102.7	99.3	97.1	94.1	91.2	88.9	86.5	81.6	78.5	75.7	68.9	70	76.7	85.8	94.1	100.4	103.5	104.8 ?	89.7 ?	
7	?	?	?	?	?	?	104.5 ?	101.3	91.6	84.4	82.8	81.3	79.8	77.7	79.4	82.6	82.8	85.9	93.6	101.9	?	?	?	?	87.8 ?	
8	?	?	?	?	?	?	?	101.3	91.6	85.3	80.5	83.2	79.3	79	82	86.6	93.2	97.8	102.6	104.8 ?	?	?	?	?	89.8 ?	
9	?	?	?	?	?	?	?	104.3 ?	97.6	89.7	81.8	78.6	73.9	73.9	77.1	74.6	76.7	84.7	94.3	100.4	102.8	102.2	103.8	?	88.5 ?	
10	?	?	?	?	?	?	?	103.7 ?	99.3	93.2	86.7	78.8	75.5	73.7	70.1	70.5	73.2	76.5	80.8	84.2	90	98.1	97.7	101.3	85.5 ?	
11	103.4	104	102.6	101.3	102.2	103.8	103.7	100.9	98.6	96.1	92.5	88.5	82.2	76.8	75.8	73.2	77.4	101.4	103	104.5 ?	?	?	104.4 ?	104.8 ?	95.5 ?	
12	104.8 ?	104	?	?	?	?	?	103.1 ?	100.9	100.4	100.1	95.2	92.1	88.5	93.3	103.8 ?	?	104.4 ?	104.4	105 ?	?	?	?	?	100 ?	
13	?	?	?	?	?	?	?	102.7	100.2	96.6	95.5	95.7	90.8	89.1	81.6	82.7	82.8	85.1	89.3	96.8	99.7	100	100.6	100.2	93.5 ?	
14	101.1	101.3	102	104.5	103.3	101.4	97.8	92.5	87.4	82	78.8	75.5	77	76.8	77.8	80	81.7	82.9	89.5	95.4	97.5	100.1	100.6	98.1	91	
15	97.6	102.1	102.1	101.2	100.6	101.4	97.7	92.4	87.7	82.8	77.3	76.8	70.9	70	77.7	84.6	86.3	88.5	88.7	93.4	97.6	101.1	101.8	102	90.9	
16	103	104.4	104.4	104.3	?	?	104.2 ?	100.1	95.9	92.9	85.9	77	78.8	76.6	75	79.1	81.2	82.1	94.1	95.2	99	101	101.8	104.2	92.7 ?	
17	103.8	103.8	104.9 ?	?	?	?	104.9 ?	101.8	96.1	91.9	87	86.2	82.9	75.7	67.5	69.7	78.3	84.8	88.5	93.5	97.3	98.6	99.6	101	91.3 ?	
18	102.2	103.3	104.5	?	?	?	?	103	100.5	96.3	88.2	84.7	81.1	81.6	97.7	104.4 ?	?	?	?	?	?	?	?	?	95.6 ?	
19	?	?	?	?	?	?	?	?	102.7	97.3	98.6	100.7	97.7	96.1	97.8	97.4	98.4	99.9	100.7	103.3 ?	?	105 ?	104.7	104.4 ?	100.3 ?	
20	?	?	?	?	?	?	?	104.5 ?	99.2	90.1	84.4	79.3	73.7	73.1	68.6	64.7	67.3	75.4	84.4	91.1	95.3	99.3	100.9	99.6	85.3 ?	
21	103.7 ?	?	?	?	?	?	?	102 ?	97.1	92.1	83.4	72.4	71.5	76.4	76	85	85	95	98.4	99.4	102.2	101.7	101.6	102.6	91.4 ?	
22	101.4	102.2	104.1 ?	?	?	?	?	?	103.1	100.2	96.2	91.4	87	85.8	83.9	87.4	101.6 ?	?	?	?	?	?	?	?	95.4 ?	
23	?	?	?	?	?	?	?	?	103 ?	95	88.8	85.7	78.3	74.4	70.6	79.3	89.9	97.7	97.3	100.8	101	102.8	102	103	103	92.5 ?
24	102.6	103.2	103.8	103.8	103.5	104.5	104	100.4	96.3	93.7	92.3	91	90.1	88.6	89	89.1	90.5	94.1	96.1	97.9	99.3	99.8	100.8	101.3	97.3	
25	103.9	105 ?	?	?	?	?	?	104.5 ?	104.7	98.8	86.5	83.9	82.9	82.1	79.4	80.4	81.2	84.4	87.6	94.8	98.7	101.1	102	104 ?	92.9 ?	
26	103.8 ?	103.5	104.7 ?	?	?	?	104.1 ?	101.4	98	92.6	84.6	78.4	76.6	76.2	72.5	71.2	71.6	92.7	95.9	99.3	102.5	104	104	104.9 ?	92.5 ?	
27	?	?	?	?	?	104.5 ?	101.3	96.7	89.4	84.5	82.8	83.7	83.9	81.2	80.1	84.1	87.2	92.2	93.4	94.8	97.9	99.3	99	98.9	91.3 ?	
28	100.3	99.5	103.4	104.2 ?	104.8 ?	104.6 ?	101.5	96.1	88.7	83.5	79.6	76.1	73.2	74.3	73.9	72.5	73.3	80.1	86.9	90.4	89.5	93.6	100	102.1	89.7	
29	104.2 ?	?	?	?	?	?	?	98.5	89	81.2	74.6	68.1	64.1	60.7	59.8	66.6	72.9	77	83.3	88.2	95.9	98.6	101.7	103.1	82.7 ?	
30	102.9	104.2 ?	?	?	105 ?	104	101.4	97	87.2	79.2	74.2	68.5	62.4	56.5	52.1	50.3	70.5	77.7	83.7	88.9	91.5	95.9	101.1	103.2	84.4 ?	
31	104.8 ?	?	?	?	?	?	?	99.4 ?	83.6	70.5	58.2	53.7	52.3	50.8	52.6	56.2	58.3	58.8	67.4	81.4	89.9	97.2	101.1	103.3	74.4 ?	
Avg	102.6	103.1	103.9	103.2	103.2	103.6	102.6	100.5	95.7	90.6	86.2	82.9	80.6	78.6	78.3	80.4	81.1	86.2	90.9	95.3	97.7	99.9	101.7	102.5	91.4 ?	
S D	2.3	1.6	1.1	1.5	1.7	1.4	2.3	3.3	5.5	7.3	8.6	10.2	10.6	10.5	11.5	12.6	10	10	8.2	6.3	4.3	2.5	2.1	2.1	5.6	
S/A	0.02	0.02	0.01	0.01	0.02	0.01	0.02	0.03	0.06	0.08	0.1	0.12	0.13	0.13	0.15	0.16	0.12	0.12	0.09	0.07	0.04	0.03	0.02	0.02	0.06	
Min	96.5	99.5	102	101.2	100.6	101.4	97.7	92.4	83.6	70.5	58.2	53.7	52.3	50.8	52.1	50.3	58.3	58.8	67.4	81.4	89.5	93.6	97.1	98.1	74.4	
Max	105	105	105	104.5	105	104.6	104.9	104.5	104.7	104.4	101.6	100.7	100.9	99.9	99.6	104.4	101.6	104.4	104.4	105	104.8	105	104.7	104.9	101.7	
n	177	164	100	67	62	81	124	264	358	364	372	372	372	372	372	359	327	332	336	317	270	267	290	251	6377	

Data Recovery: 0.0% missing; 0.0% untested; 28.6% 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**

**August 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	23.7	23.1	22	21.3	20.4	19.9	20.1	20.7	22	22.8	23.3	24.8	25.7	26.7	27.2	26.4	24.8	23.1	22.3	21.8	21.6	21.6	21.9	21.9	22.9
2	21.6	21.6	21.9	22.3	22.4	22.4	22.7	23.7	26.3	30.5	32.7	31.7	28.2	28.4	29.6	29.6	29	28.1	28.5	27.3	25.5	24.7	24	23.6	26.1
3	23.3	23.1	23	22.6	22.4	22.3	23.5	26.9	30.3	32.9	33.9	34.1	34	34	34.4	34.7	34.4	33.6	32	29.1	26.9	25.7	24.9	24.5	28.6
4	24.3	24.2	24.3	24.3	24.5	24.6	25.1	27.2	30.7	33.8	35.9	36.9	37.4	36.6	36.6	37	37.5	36.6	35.3	32.6	30.6	29.5	28.6	27.9	30.9
5	26.7	24.4	23.7	23.4	23.3	23.1	23.2	25.1	27.3	30.4	32.6	34.4	35.7	36.6	37.4	38.1	38.4	37.7	35.1	32.4	29	24.8	23.4	23	29.5
6	23.1	23.3	23.5	23.4	23.2	23.1	23.4	24.9	27.5	31.5	34.3	35.4	35.8	36.3	37	37.9	38.5	38.3	36.6	32.9	29.5	27.8	26.1	25	29.9
7	24.5	24.1	23.8	23.8	24.3	24.5	24.7	25.9	29	32	34	35.3	35.9	35.9	35.9	36.3	36.2	34.8	32.2	28.7	26.2	25.3	24.9	24.7	29.3
8	24.6	24.3	24.2	24.2	24.1	24	24.3	26.2	29.5	32.8	36.5	38.8	38.5	37.1	37	36.6	36.3	34.7	31.9	29.1	27	25.9	25.6	25.3	29.9
9	24.8	24.2	23.7	23.5	23.6	23.5	23.5	25.2	29.3	33.7	36.6	37.8	37.7	36.6	36.6	36.7	37	36.2	33.6	29.8	27.3	26.2	25.5	24.6	29.9
10	24.2	24.1	24.1	24.1	24.1	24	24.4	26.5	30.3	34.3	36.7	38	38.9	39.3	39.7	39.9	39.4	37.7	35.3	32.6	30.7	29.6	28.9	28.5	31.5
11	28.1	27.7	27.4	27.2	26.9	26.6	26.9	28.8	31.3	33.3	35.3	37.8	39.5	40.8	41.6	42.1	42	36.5	29.3	27.2	26.4	25.9	25.7	25.5	31.7
12	25.5	25.5	25.7	25.4	25.3	25.4	25.4	26.4	28.5	30.9	32.9	35.3	37	37.8	37.8	31.9	27.3	27	28.2	26.9	25.6	25	24.4	24.2	28.6
13	23.9	23.8	23.7	23.7	23.8	23.7	24.4	27.3	30.5	32.1	33.3	33	32.1	32.9	33.3	33.8	33	32.5	30.5	27.9	26.4	25.4	24.7	24.1	28.3
14	23.7	23.1	22.7	22.2	21.7	21.4	22.7	26.5	29.9	32.2	33.6	34.7	35	34.5	34.4	34.6	34.3	33.7	31.3	27.8	25.6	24.4	23.5	23.3	28.2
15	23.3	23	22.6	22.5	22.5	22.3	23.3	26.6	29.9	32.7	35.2	36.6	36.4	36.2	36.1	35.5	35	34.3	32.3	29.4	27.6	26.4	25.5	25.2	29.2
16	24.9	24.7	24.5	24.7	24.6	24.2	24.7	28.1	32	33.8	36.2	37.6	37.5	37.2	37.8	38.3	37.5	36.1	34.2	31.2	29.1	28	27.2	26.6	30.9
17	26.1	25.7	25.3	24.9	24.6	24.4	25.4	29	32.4	34.8	36.4	37.6	37.9	37.9	38.3	39	38.7	36.4	33.8	31.3	29.3	28.2	27.5	27	31.3
18	26.6	26.2	25.9	25.6	25.5	25.3	25.7	28.5	30.5	32.7	35.1	36.6	37.4	38	35	30.1	27	25.3	24.7	24.6	24.6	24.7	24.8	24.8	28.6
19	24.7	24.6	24.5	24.3	24.2	24.2	24.2	24.6	25.9	28.4	29.7	29.3	30.8	32.1	32.3	30.8	29.9	28.4	27.5	26.5	25.2	24.5	24.3	24.4	26.9
20	24.4	24.1	23.8	23.5	23.3	23.1	23.3	25	27.9	32.5	34.9	35.8	36.9	37.1	37.5	38.3	38.4	37.3	34.1	29.6	26.8	25.3	24.2	23.8	29.6
21	23.3	22.5	22	21.6	21.4	21.6	22.2	24.8	29.3	32.6	35	36.3	36.6	36	36	35.7	34.9	33.1	29.9	27.7	26.4	25.8	25.6	25.9	28.6
22	26.1	26.3	25.8	25.5	25.6	25.3	25.1	25.4	26.8	29.3	31.5	34	35.1	36.3	37.1	36.1	31.4	26.5	24.5	24.1	24.1	24.4	24.5	24.6	28.1
23	24.6	24.7	24.6	24.3	24.1	23.9	23.8	24.5	27.1	31.7	33.2	35.2	37.3	37.8	38.4	36.4	33.1	29.9	27.5	25.4	24.9	24.8	24.8	24.2	28.6
24	23.6	23.2	22.9	22.6	22.4	22.2	22.3	23.8	26.3	28.6	29.9	30.8	31.4	30.9	30.4	30.2	30	28.1	26.3	24.4	23	22	21.5	21.2	25.8
25	20.9	20.5	20.2	20.1	19.9	19.8	19.8	20.8	22.2	24.1	29.1	30.9	32	32.8	33.1	33.3	32.1	30.2	28.2	26.1	24	22.6	21.7	21	25.2
26	20.5	20.3	20.1	19.7	19.5	19.5	20.2	24.2	27.7	31.2	33.1	35	36.5	37.3	37.7	38.5	38	36	31.7	27.7	25.5	24.4	23.8	23.6	28
27	23.2	23	22.9	22.9	23	22.4	22.4	24.8	28.2	31	33	34.8	35.5	34.8	34.7	33.5	30.6	28.4	27	25.6	24.5	23.7	23.6	23.6	27.4
28	23.2	22.8	22.3	21.8	21.8	21.5	21.8	24.1	26.7	28.3	31.6	34.6	35.9	35.3	34.7	34.3	33.9	32.5	29.5	26	24	22.9	21.6	20.2	27.1
29	19.6	19.3	18.8	18.4	18.1	17.9	18.5	22.2	27.2	31	33.8	36.1	36.9	36.4	36.2	37.1	35.9	34	31.1	27.1	24.2	22	20.4	19.6	26.7
30	19.7	19.9	19.7	19.5	19.5	19.3	20.1	23.8	28.9	33.5	36.9	39.1	40.6	40.6	41.1	41.8	41.6	38.3	34.9	30.4	27.9	26.5	25.4	24.3	29.7
31	23.7	23	22.3	21.9	21.5	21.5	22	25.2	30.4	34.6	37.8	39.7	39.8	39.1	39	38.9	38.5	37.1	34	29.1	25.4	23.8	22.8	21.9	29.7
Avg	23.9	23.6	23.3	23.1	22.9	22.8	23.2	25.4	28.4	31.4	33.7	35.1	35.7	35.8	35.9	35.6	34.7	33	30.8	28.1	26.3	25.2	24.6	24.1	28.6
S D	2	1.9	1.9	1.9	2	2	2	2	2.4	2.8	2.9	3.1	3.3	3.1	3.2	3.6	4.3	4.3	3.6	2.8	2.2	2	2	2	2
S/A	0.08	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.08	0.09	0.09	0.09	0.09	0.09	0.09	0.1	0.13	0.13	0.12	0.1	0.08	0.08	0.08	0.08	0.07
Min	19.6	19.3	18.8	18.4	18.1	17.9	18.5	20.7	22	22.8	23.3	24.8	25.7	26.7	27.2	26.4	24.8	23.1	22.3	21.8	21.6	21.6	20.4	19.6	22.9
Max	28.1	27.7	27.4	27.2	26.9	26.6	26.9	29	32.4	34.8	37.8	39.7	40.6	40.8	41.6	42.1	42	38.3	36.6	32.9	30.7	29.6	28.9	28.5	31.7
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: CSI    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**

**August 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	1.6	2	2	3.4	2.2	1.6	1.6	1.2	2.8	2.4	2.5	1.8	1.9	3	3	2.3	2.1	3.1	2.5	2.4	2.1	1.4	1.6	1.3	2.2
2	1.2	1.2	0.8	0.6	1.2	1.2	1.1	1.3	1.6	3.6	3.8	2.3	2.4	3	3.4	2.8	3.4	3.7	3.6	3.4	3	2	1.4	1.1	2.2
3	1	0.6	0.7	0.4	0.4	0.8	1.2	2.3	3.1	2.8	2.7	3	3.3	4	3.8	3.9	4	3.2	3.4	2.6	2.1	0.8	1.3	0.9	2.2
4	0.3	0.1	0.3	0.2	0.6	0.6	1.3	2.3	2.9	2.9	3.2	3	2.4	2.6	3.1	3.2	4	3.2	3.1	2	2.5	3.4	3.4	2.7	2.2
5	2.9	2.5	2.9	2.8	1.8	2.7	2.5	3.1	3.6	4.3	4.5	3.7	3.9	4	4.3	4.6	3.8	4.3	3	3	3.9	0.8	0.6	2	3.1
6	0.9	2.1	1.3	1	1.3	2.2	2.3	2.1	2.7	2.1	2.4	2.2	2.4	2.3	1.8	1.9	1.6	1	0.4	0	1.4	2.4	1.6	1.6	1.7
7	0.7	0.5	0.7	0.6	1	1.5	1.4	2	2.9	3.6	3.7	3	2.7	3	2.6	2.5	2.6	2.3	2	1.3	1.6	1.7	1.6	1	1.9
8	0.4	0.3	0.9	0.8	0.4	0.2	0.7	0.9	2	1.6	1.6	2	2.8	2.7	2.7	3	2.8	2.9	2.3	1.9	1.8	1.5	0.4	0.1	1.5
9	0	0	0	0	0.2	0.2	0.8	1	1.2	1.7	2	2.4	2.9	2.8	2.9	2.3	2.2	2.5	2.1	1.3	0.5	0.6	0	0	1.2
10	0.1	0.3	0.1	0.3	0.4	0.8	0.7	1.5	1.5	2	2.8	2.8	2.5	2.8	3.5	3.3	2.9	1.9	1.2	1	1.5	1.5	2.4	2.4	1.7
11	1.8	2	1.7	1.8	1.8	1.7	2.1	3.2	2.9	3.3	2.4	2.3	1.7	1.7	1.8	1.3	3.2	2.5	1.8	1.5	0.4	0.3	0.4	1.2	1.9
12	1.3	2.7	2.2	1.4	1.3	1.2	0.2	0.2	0.3	1.2	1.9	1.3	1.8	2	2.9	1.6	2.5	1.1	1.2	0.6	0.7	0.2	0.8	0.3	1.3
13	0.1	0.4	0.3	0.9	0.3	0.1	0.3	1.5	3.6	4.6	4.4	4.5	5.2	5	4.9	4.5	4.5	4	2.8	2.4	2.9	2.5	1.5	1.3	2.6
14	0.9	0.6	0.4	0.3	0.3	0.7	0.9	1.8	2.6	3	3	2.8	2.8	3	3.1	3.4	3	2.4	2.4	2.2	1.4	0.4	0.7	1.2	1.8
15	0.5	0.3	0.5	0.9	0.7	0.3	0.8	2.3	2.4	2.2	1.6	2.6	2.2	1.9	2.9	3.6	3.3	3.1	2.8	2.9	2.4	1.2	1	1.1	1.8
16	1	0.5	0.6	0.1	0.1	0	0.3	0.9	1.9	1.9	2.2	2.9	2.7	2.5	2.4	3	3.9	3	2.2	2.1	2.1	1.9	1.6	1.3	1.7
17	0.8	0.7	0.1	0.2	0.2	0.2	0.9	2	2.3	2.1	1.9	2	2.6	2.4	2.5	3	3.4	2.9	2.9	2.5	2.3	1.9	1.7	1.9	1.8
18	1.6	1.2	1.1	0.9	1	1	1.2	2.6	2.6	2.7	2.6	2.6	2.7	3	1.6	2.3	2.4	1.8	0.9	0.7	0.6	0.5	0.8	0.4	1.6
19	0.7	0.8	0.7	0.7	1.2	0.9	1.1	0.9	1.3	0.3	0.5	1	1.3	1	0.8	0.9	0.7	0.7	0.1	0.1	0	0	0	0.3	0.7
20	0	0.6	0.3	0.9	0.6	1.3	1.6	1.3	1.7	2.7	2.9	2.7	2.6	2.1	1.8	1.9	1.6	1.7	1	0.8	0.9	0.6	1	0.4	1.4
21	0.3	0	0.1	0.1	0.2	0.1	0.1	0.5	1.5	2	2.5	2.6	3	3	3.3	3.5	3.8	3.4	2.6	1	1.5	1.5	1.3	1.2	1.6
22	2.5	2.1	1	1.2	2.4	1.1	1.9	2.1	2.4	3.1	2.8	2.9	2.9	2.7	2.8	2	2.6	2.1	0.3	0.2	0.4	0.1	0.4	1	1.8
23	1.3	0.6	0.9	1	1	0.4	0.3	0.8	1.6	2.1	2	1.6	1	1.2	2.3	3.1	3	2.6	1.6	1	0.5	0.3	0.8	1	1.3
24	1.1	1.1	1	1.4	1.7	0.8	2	3.2	4.2	4.7	4.7	4.7	5	4.5	4.9	4.3	4.1	3.9	3.2	2.6	1.9	1.7	1.3	0.9	2.9
25	0.7	0.7	0.6	0.8	0.6	0.3	0.4	0.9	0.8	1	1.3	1.9	1.7	1.6	1.1	1.5	1.7	1	0.5	0.2	0.2	0.2	0.1	0	0.8
26	0.2	0.2	0	0.2	0.1	0	0.3	1	1.6	1.8	1.2	1.2	1	1.2	1.4	1.2	1.5	2.8	2.1	1.2	0.6	0.5	0.4	0.1	0.9
27	0	0	0	0	1.5	1.7	2	2.4	3.1	3.4	3.3	2.9	3.8	4.1	3.3	2.8	2.9	2.7	2	1.7	1.3	1	0.8	1	2
28	0.7	0.3	0.1	0.4	0.1	0.3	1.2	1.9	1.8	2.5	2	2.1	2.3	2.9	3.6	3	2.7	2.7	1.8	0.9	0.8	0.2	0	0	1.4
29	0.1	0	0	0	0.2	0.3	0.4	0.7	1.7	2	1.6	1.6	1.7	2	1.4	2.4	2.4	1.9	1.2	0.4	0	0	0	0.9	1
30	1.4	1	1	1	0.7	0.9	1	1.1	1.3	1.3	1.5	0.9	1.2	1	1.1	0.9	2.3	1.5	0.8	0.9	0.9	0.7	0.3	0.2	1
31	0.1	0	0	0	0	0	0	0.3	1.3	1.6	1.8	2.3	2.5	2.9	2.8	2.8	2.2	1.9	0.7	0.1	0.2	0.1	0	0	1
Avg	0.9	0.8	0.7	0.8	0.8	0.8	1	1.6	2.2	2.5	2.5	2.4	2.6	2.6	2.7	2.7	2.8	2.5	1.9	1.5	1.4	1	0.9	0.9	1.7
SD	0.7	0.8	0.7	0.8	0.7	0.7	0.7	0.8	0.9	1	1	0.9	1	1	1	0.9	0.9	1	1	1	0.9	0.8	0.7	0.7	0.6
S/A	0.85	0.96	0.99	1	0.82	0.84	0.66	0.52	0.41	0.42	0.4	0.36	0.38	0.37	0.38	0.37	0.32	0.37	0.53	0.67	0.72	0.84	0.83	0.77	0.34
Min	0	0	0	0	0	0	0	0.2	0.3	0.3	0.5	0.9	1	1	0.8	0.9	0.7	0.7	0.1	0	0	0	0	0	0.7
Max	2.9	2.7	2.9	3.4	2.4	2.7	2.5	3.2	4.2	4.7	4.7	4.7	5.2	5	4.9	4.6	4.5	4.3	3.6	3.4	3.9	3.4	3.4	2.7	3.1
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: 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**

**August 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	356	360	338	344	26	46	17	51	70	67	69	58	32	41	33	42	42	31	12	7	356	16	41	20	28
2	9	22	21	347	344	0	1	17	56	81	86	76	84	66	65	63	69	77	85	90	90	81	76	79	68
3	78	73	23	18	50	72	81	93	104	94	105	92	82	79	102	105	105	105	119	123	123	138	139	140	100
4	137	145	159	178	195	208	193	192	212	214	224	229	223	218	201	207	192	183	189	189	188	191	191	211	202
5	252	231	197	210	220	221	218	224	222	222	223	215	232	231	224	206	198	192	195	245	288	263	166	157	220
6	199	192	222	202	216	218	234	253	265	277	263	244	229	241	241	258	260	239	255	130	139	160	172	191	229
7	251	320	60	68	50	44	33	38	47	59	58	54	61	67	58	52	56	52	50	44	65	66	72	74	55
8	32	45	62	64	31	19	17	22	58	50	64	53	61	64	61	65	75	72	70	71	70	80	69	54	62
9	0	326	343	337	358	342	351	359	38	72	60	65	78	87	97	85	97	103	118	125	110	119	200	254	83
10	198	209	210	211	233	246	224	224	213	225	222	207	209	182	175	183	182	187	195	197	189	190	191	192	198
11	197	219	228	237	241	237	247	255	255	262	262	256	268	256	231	226	301	61	105	180	217	199	187	218	243
12	208	200	220	199	202	224	238	261	208	151	183	208	247	262	24	39	73	67	67	42	16	276	30	7	194
13	343	344	356	354	347	11	2	39	68	78	82	77	71	74	75	70	71	74	64	64	63	63	62	63	69
14	43	31	29	353	32	47	43	52	49	60	63	65	65	92	84	84	81	78	80	73	69	63	83	105	70
15	93	70	87	74	65	82	93	93	86	78	87	89	128	157	113	109	103	105	104	118	125	135	137	142	106
16	137	164	163	175	225	250	235	211	220	226	170	166	179	186	177	136	115	100	113	142	149	151	157	162	156
17	171	191	194	196	183	197	205	222	225	227	204	201	192	159	169	163	131	132	161	157	162	167	173	191	176
18	191	194	194	192	193	197	197	210	219	216	206	194	195	175	296	96	53	131	150	166	217	219	212	211	191
19	289	292	298	286	271	304	321	341	346	321	268	277	309	17	45	63	40	20	46	41	307	33	6	351	327
20	357	332	359	6	358	23	13	32	52	56	62	59	67	82	47	43	36	49	66	91	88	132	138	138	54
21	216	204	263	340	1	352	26	35	91	93	90	95	106	93	98	102	106	99	102	100	100	100	92	106	98
22	122	123	98	76	129	103	134	156	195	240	240	228	229	199	200	202	212	184	195	176	184	273	242	224	188
23	253	229	257	272	279	270	271	302	355	12	7	9	16	355	98	116	72	72	71	69	55	65	49	39	39
24	43	43	34	23	37	29	31	44	44	45	32	36	36	31	44	35	29	26	24	3	360	355	338	334	31
25	312	307	307	318	324	300	291	316	292	334	315	283	291	295	312	259	267	257	249	227	223	268	289	199	292
26	271	274	220	205	205	0	262	265	278	300	296	299	267	265	280	260	236	95	124	135	130	126	141	112	250
27	18	0	70	58	44	50	63	62	67	66	71	77	92	89	76	83	85	69	72	69	67	67	71	65	73
28	89	97	52	35	68	67	60	68	75	79	83	102	102	99	93	83	83	74	71	86	84	88	0	4	84
29	345	318	296	306	307	304	296	317	324	351	20	45	69	103	103	157	155	137	131	136	227	0	0	252	92
30	259	256	257	264	257	264	292	301	307	313	316	309	35	306	320	46	136	152	142	124	146	150	176	188	272
31	205	0	0	0	0	0	303	313	11	29	53	53	66	64	64	59	57	57	63	72	89	85	112	107	55
Avg	208	218	235	298	309	288	349	28	58	65	83	92	96	100	93	101	97	94	100	105	104	123	132	157	106
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**

**August 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	2.7	3.5	3.9	6.3	4.3	3.4	3.1	2.7	4.9	4.3	4.5	3.4	3.6	5.3	5.3	4.7	3.9	5.6	4.9	4.6	3.8	2.9	3.3	2.6	4.1
2	2.6	2.6	2.2	1.5	2.2	2.4	2.5	2.4	3	5.9	6.2	4.5	4.5	5.3	5.6	5	5.7	6.4	6.1	5.5	5	3.4	2.6	2.4	4
3	2	1.5	1.4	1	1.2	1.6	2.3	3.9	4.9	4.5	4.5	5.1	5.5	6.4	6.3	6.4	6.3	5.5	5.5	3.9	3.2	1.8	2.4	2	3.7
4	1.3	0.4	1.3	0.9	1.7	1.7	2.8	4.2	5.1	5.4	5.5	5.3	4.3	4.7	5.6	5.9	6.4	5.6	5	3.7	4.5	5.7	5.4	5.2	4.1
5	5.8	4.6	5.2	5	3.8	5	5	5.9	6.6	7.6	7.8	6.8	7.1	7.6	7.4	8.1	6.8	7.3	5.6	6	7.9	2.4	1.6	3.4	5.8
6	2.3	3.7	3.1	2.7	3.3	4.9	4.5	4.5	5.4	4.5	4.6	4.2	4.4	4.5	3.5	3.5	3.2	1.9	0.8	0.1	2.6	4.3	3	2.9	3.4
7	1.8	1.3	1.6	1.6	2.5	3.1	3	3.8	5.3	6.4	6.2	5.1	4.9	5.2	4.4	4.5	4.8	4.3	3.7	2.5	3	3.2	3.2	2.6	3.7
8	1.4	1.3	2.3	2.2	1.5	1	1.7	2.3	3.5	3.3	3.3	3.8	4.5	4.6	4.6	5.1	5	5	4	3.7	3.2	2.9	1.4	0.7	3
9	0	0.1	0.1	0.1	0.8	0.8	1.8	2.2	2.7	3.2	3.8	4.2	4.7	4.8	4.7	4	3.5	3.8	3.7	2.3	1.3	1.2	0.1	0.3	2.3
10	0.8	1.2	0.8	1	1.6	2.1	2	3.1	2.8	3.6	4.5	5	4.5	5.1	5.9	5.9	4.9	3.5	2.4	2.1	2.6	2.9	4.2	4.2	3.2
11	3.5	3.9	3.4	3.4	3.4	3.5	4	5.7	5.6	5.6	4.5	4.3	3.8	3.7	3.8	3	5.5	4.9	3.3	2.9	1.3	1.2	1.4	3	3.7
12	2.8	4.6	4.2	3	2.7	2.6	0.8	1	1.1	2.6	3.3	2.9	3.5	3.9	5.7	3.2	4.3	2.9	2.5	1.7	1.9	0.7	1.7	1	2.7
13	0.4	1.3	1.2	2.1	1	0.9	1.2	3.2	6	7.6	7.4	7.5	8.9	8.3	7.9	7.6	7.5	7	5	4.6	5.4	4.6	3.3	2.9	4.7
14	2.1	1.7	1.7	1.2	1.1	1.9	2.3	3.6	4.7	5	5.3	4.9	4.9	5.4	5.5	5.7	5.2	4.7	4.3	4.1	2.9	1.4	1.6	2.5	3.5
15	1.4	1.3	1.4	2	1.6	1.1	1.9	4	3.9	3.8	3.1	4.5	4.2	3.7	5.4	5.8	5.6	4.9	4.9	4.8	3.9	2.4	2.2	2.4	3.3
16	2.2	1.7	1.7	0.6	0.7	0.4	1	2.1	3.5	3.5	4.2	5	5	4.6	4.5	5.4	6.5	5.3	3.7	3.7	3.8	3.6	3.1	2.7	3.3
17	2.3	2	0.7	1	1	1.2	2.3	3.8	4.3	3.8	3.7	3.8	4.6	4.4	4.5	5.4	5.6	4.9	5	4.3	4.1	3.7	3.7	3.5	3.5
18	2.9	2.7	2.4	2.4	2.4	2.1	2.6	4.6	5	4.7	4.6	4.5	5.2	5.3	3.2	3.8	4.9	3	2.1	2	1.7	1.7	1.9	1.4	3.2
19	1.9	2.4	2.2	2	2.8	2.5	2.4	2	2.8	1.1	1.3	2.3	3.1	2.6	2.2	2.2	2	1.9	0.8	0.7	0.3	0.2	0.1	0.8	1.8
20	0	1.6	0.9	2	1.5	2.9	3.2	2.8	3.6	4.9	4.9	4.9	4.4	4.1	3.5	3.3	3	3	2	1.4	1.5	1.3	1.9	1.3	2.7
21	0.6	0.2	0.4	0.3	0.4	0.5	0.6	1.5	2.8	3.6	4.2	4.6	5	5	5.5	5.6	5.9	5.5	4.5	2	2.6	2.6	2.5	2.2	2.9
22	3.9	3.6	2.4	2.7	4.6	2.5	3.5	3.7	4.5	5.5	5.3	5.2	5.1	4.7	4.7	3.6	4.6	3.9	1	1	1.3	0.4	1.2	2.4	3.4
23	2.9	1.7	2.3	2.5	2.4	1.5	0.9	2	3.3	4	4	3.2	2.5	2.7	3.8	4.8	5.1	4.6	3.2	2.2	1.5	1.4	2	2.1	2.8
24	2.3	2.3	2.1	3	3.2	2.3	3.7	5.8	7.5	8	8.2	8.5	8.5	7.9	8.7	8	7.6	7.3	5.9	4.9	3.6	3.3	2.5	2.4	5.3
25	1.8	2	1.7	1.8	1.9	1.1	1.5	2.3	2.2	2.6	2.9	3.9	3.8	3.3	2.8	2.7	3.2	2	1.2	0.6	0.5	0.8	0.4	0.1	2
26	0.9	0.8	0.4	0.9	0.4	0	1	2.4	3.4	3.8	3	2.9	2.4	2.9	3.2	2.8	2.8	4.8	3.4	2.5	1.5	1.3	1.3	0.5	2.1
27	0.3	0	0.1	0.1	3.1	3.3	3.5	4.5	5.4	5.6	5.6	5.4	6.1	6.4	5.9	4.8	5	4.8	3.8	3.2	2.6	2	1.7	2.1	3.6
28	1.6	1.1	0.3	1.2	0.6	0.8	2.5	3.6	3.4	4.3	4	4.1	4.1	4.7	5.3	5	4.6	4.2	3.3	2.1	1.9	0.8	0	0	2.7
29	0.2	0.2	0.2	0.3	0.6	0.7	1.5	2.1	3.3	3.9	3.4	3.5	3.6	3.7	2.9	4.1	4.3	3.1	2.1	1.1	0.1	0	0	1.5	1.9
30	2.3	1.9	2.1	2.1	1.8	2.2	2.8	2.8	2.8	2.9	3.2	2.5	2.7	2.4	2.6	2.3	3.9	2.7	1.5	1.7	1.7	1.7	1.4	1	2.3
31	0.4	0	0	0	0	0	0.2	1.2	2.5	3.1	3.5	4.4	4.7	5	5	4.9	4	3.2	1.5	0.3	0.5	0.6	0.1	0	1.9
Avg	1.9	1.8	1.7	1.8	1.9	1.9	2.3	3.2	4.1	4.5	4.5	4.5	4.6	4.8	4.8	4.7	4.9	4.4	3.4	2.8	2.6	2.1	2	2	3.2
S D	1.3	1.3	1.3	1.4	1.2	1.3	1.2	1.3	1.4	1.6	1.5	1.3	1.5	1.4	1.5	1.5	1.4	1.5	1.6	1.6	1.7	1.4	1.3	1.3	1
S/A	0.68	0.71	0.74	0.76	0.62	0.66	0.5	0.4	0.35	0.35	0.33	0.29	0.32	0.3	0.32	0.33	0.28	0.34	0.46	0.58	0.64	0.65	0.66	0.63	0.3
Min	0	0	0	0	0	0	0.2	1	1.1	1.1	1.3	2.3	2.4	2.4	2.2	2.2	2	1.9	0.8	0.1	0.1	0	0	0	1.8
Max	5.8	4.6	5.2	6.3	4.6	5	5	5.9	7.5	8	8.2	8.5	8.9	8.3	8.7	8.1	7.6	7.3	6.1	6	7.9	5.7	5.4	5.2	5.8
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**

**August 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	1012	1011	1012	1012	1011	1012	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1015	1014	1014	1013
2	1015	1015	1015	1015	1015	1016	1016	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1017
3	1018	1018	1018	1018	1018	1018	1018	1018	1019	1019	1019	1019	1018	1018	1017	1017	1016	1016	1016	1016	1016	1016	1016	1015	1017
4	1015	1015	1014	1014	1014	1015	1015	1014	1014	1014	1014	1013	1012	1012	1011	1010	1010	1009	1009	1010	1010	1010	1010	1010	1012
5	1010	1009	1009	1009	1010	1010	1010	1010	1010	1010	1010	1009	1009	1008	1007	1006	1006	1006	1007	1008	1010	1010	1009	1008	1009
6	1008	1008	1008	1008	1008	1008	1008	1009	1009	1009	1009	1008	1008	1008	1007	1007	1007	1007	1007	1007	1008	1009	1009	1009	1008
7	1008	1008	1008	1008	1009	1009	1010	1011	1011	1012	1012	1012	1012	1012	1012	1011	1011	1011	1011	1012	1013	1013	1013	1013	1011
8	1013	1013	1013	1013	1013	1013	1014	1014	1015	1015	1015	1015	1014	1014	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014
9	1014	1014	1014	1014	1014	1014	1015	1016	1016	1016	1016	1016	1016	1015	1015	1015	1014	1014	1014	1014	1014	1014	1014	1014	1015
10	1014	1014	1013	1013	1013	1014	1014	1014	1014	1014	1014	1013	1013	1012	1011	1011	1011	1010	1010	1011	1011	1011	1011	1011	1012
11	1011	1011	1011	1011	1011	1010	1011	1011	1011	1011	1011	1010	1010	1009	1008	1007	1007	1007	1008	1009	1009	1009	1008	1008	1009
12	1008	1008	1008	1007	1007	1007	1007	1008	1008	1008	1007	1007	1006	1006	1006	1005	1005	1005	1005	1005	1006	1007	1006	1007	1007
13	1007	1007	1007	1007	1007	1008	1009	1009	1010	1010	1010	1011	1011	1011	1011	1011	1012	1012	1012	1012	1013	1013	1014	1014	1010
14	1014	1014	1014	1014	1015	1015	1016	1016	1016	1016	1016	1016	1016	1016	1016	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016
15	1016	1016	1015	1015	1015	1015	1015	1015	1015	1016	1016	1016	1015	1015	1014	1014	1014	1013	1013	1014	1014	1014	1014	1014	1015
16	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1016	1015	1015	1014	1014	1013	1013	1013	1014	1014	1014	1014	1014	1015	1014
17	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1016	1016	1015	1014	1014	1014	1014	1014	1015	1015	1016	1016	1016	1015
18	1016	1015	1015	1015	1015	1015	1016	1016	1016	1015	1015	1014	1014	1013	1013	1012	1013	1012	1013	1013	1013	1013	1013	1012	1014
19	1013	1012	1012	1011	1012	1012	1012	1012	1012	1013	1013	1013	1012	1012	1011	1010	1010	1011	1011	1011	1011	1011	1011	1011	1012
20	1011	1011	1011	1011	1011	1011	1011	1012	1013	1013	1013	1013	1013	1013	1013	1012	1012	1012	1012	1012	1013	1013	1013	1014	1012
21	1014	1013	1013	1013	1013	1013	1014	1015	1015	1015	1015	1015	1014	1014	1013	1013	1013	1012	1013	1013	1013	1013	1013	1012	1014
22	1012	1011	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1009	1009	1008	1008	1009	1009	1008	1009	1009	1009	1009	1009	1009
23	1009	1008	1008	1008	1008	1009	1009	1009	1009	1009	1009	1010	1009	1009	1008	1008	1008	1008	1009	1009	1010	1010	1010	1010	1009
24	1009	1009	1009	1008	1008	1009	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1011	1011	1011	1011	1010
25	1011	1010	1010	1010	1010	1011	1011	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1013	1013	1013	1014	1012
26	1014	1013	1013	1013	1014	1014	1015	1015	1015	1015	1015	1015	1015	1014	1014	1014	1014	1014	1014	1014	1015	1015	1015	1016	1014
27	1016	1015	1015	1015	1016	1016	1017	1017	1017	1018	1018	1018	1018	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1019	1017
28	1018	1018	1018	1018	1019	1019	1020	1020	1021	1021	1021	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1021	1021	1021	1020
29	1021	1021	1021	1021	1021	1021	1022	1023	1023	1024	1024	1023	1023	1022	1022	1021	1021	1021	1021	1021	1021	1021	1021	1021	1022
30	1021	1021	1021	1021	1022	1022	1023	1023	1023	1023	1023	1023	1022	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1021
31	1020	1019	1019	1019	1019	1019	1020	1020	1021	1021	1020	1020	1020	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1019
Avg	1013	1013	1013	1013	1013	1013	1014	1014	1014	1015	1015	1014	1014	1014	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014
SD	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4	4
StA	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	1007	1007	1007	1007	1007	1007	1007	1008	1008	1008	1007	1007	1006	1006	1006	1005	1005	1005	1005	1006	1007	1006	1007	1007	1007
Max	1021	1021	1021	1021	1022	1022	1023	1023	1023	1024	1024	1023	1023	1022	1022	1021	1021	1021	1021	1021	1021	1021	1021	1021	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	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.

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

**August 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	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13	13.2	13.1	13.3	13.3	13.2	13.2	13.2	13.1	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.9
2	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13.2	13.2	13.1	13.1	13.1	13.2	13.2	13.1	13.2	13.1	13.2	12.9	12.8	12.8	12.8	12.8	12.7	12.9
3	12.7	12.7	12.7	12.7	12.7	12.7	13	13.2	13.1	13.1	13	13	13.1	13.1	13	13	13.1	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.9
4	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.2	13.1	13	13	13	13	13	13	13	13	13	12.8	12.8	12.7	12.7	12.7	12.7	12.9
5	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.2	13.2	13.1	13.1	13	13	13	13	13	13	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.9
6	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.2	13.2	13.1	13	13	13	13	13	13	13	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.8
7	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.2	13.1	13.1	13	13	13	13	13	13	13	13	12.8	12.7	12.7	12.7	12.7	12.7	12.8
8	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.1	13	13	12.9	13	13	13	13	13	13	12.8	12.7	12.7	12.7	12.7	12.7	12.8
9	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.1	13	13	13	13	13	13	13	13	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.8
10	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.1	13.1	13	13	13	12.9	12.9	12.9	12.9	12.9	12.9	12.8	12.7	12.7	12.7	12.6	12.6	12.8
11	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.2	13.1	13.1	13.1	13	13	13	13	12.9	12.9	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.8
12	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.1	13.1	13	13.1	13.1	13.1	13.1	13.1	13.1	13	12.8	12.8	12.7	12.7	12.7	12.7	12.9
13	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.1	13.1	13	13	13.1	13.1	13.1	13.1	13.1	13	12.8	12.8	12.7	12.7	12.7	12.7	12.9
14	12.7	12.7	12.7	12.6	12.6	12.6	13	13.2	13.1	13.1	13	13	13	13	13	13	13.1	13	12.8	12.8	12.7	12.7	12.7	12.7	12.9
15	12.7	12.7	12.6	12.6	12.6	12.6	13	13.2	13.1	13	13	13	13	13	13	13	13	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
16	12.7	12.7	12.6	12.6	12.6	12.6	13	13.1	13.1	13	13	13	13	13	13	13	13	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.8
17	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.1	13.1	13	13	13	13	13	13	13	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8
18	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.1	13.1	13	13	13	13	13	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.8
19	12.6	12.6	12.6	12.6	12.5	12.5	12.6	12.8	13.2	13.1	13.1	13.1	13.1	13.1	13	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
20	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.1	13	13	13	13	13	13	13	13	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.8
21	12.6	12.6	12.6	12.6	12.6	12.5	12.9	13.2	13.1	13	13	13	13	13	13	13	13	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.8
22	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.1	13.1	13.1	13	13	13	13	12.9	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.8
23	12.6	12.6	12.6	12.5	12.5	12.5	12.6	13.1	13.1	13.1	13	13	13	13	13	13	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
24	12.6	12.6	12.6	12.6	12.6	12.5	12.6	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.8	12.8	12.7	12.7	12.7	12.7	12.9
25	12.7	12.7	12.7	12.7	12.6	12.6	12.7	13.3	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.8	12.8	12.7	12.7	12.7	12.9
26	12.7	12.7	12.7	12.6	12.6	12.6	13	13.2	13.2	13.1	13	13	13	13	13	13	13	13	12.8	12.7	12.7	12.7	12.7	12.7	12.9
27	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.2	13.1	13.1	13	13	13	13	13	13.1	13	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
28	12.7	12.7	12.6	12.6	12.6	12.6	12.8	13.3	13.2	13.1	13.1	13	13	13	13	13	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
29	12.7	12.6	12.6	12.6	12.6	12.6	13.1	13.3	13.2	13.1	13	13	13	13	13	13	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8
30	12.6	12.6	12.6	12.6	12.6	12.6	13	13.2	13.1	13	13	12.9	12.9	12.9	12.9	12.9	12.9	12.9	12.8	12.8	12.7	12.7	12.7	12.6	12.8
31	12.6	12.6	12.6	12.6	12.6	12.5	13	13.2	13.1	13	12.9	12.9	12.9	12.9	12.9	13	13	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.8
Avg	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.2	13.1	13.1	13	13	13	13	13	13	13	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.8
S D	0	0	0	0	0	0	0.2	0.1	0.1	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0.01	0.01	0	0	0	0.01	0.01	0	0	0.01	0.01	0.01	0	0	0	0	0	0	0
Min	12.6	12.6	12.6	12.5	12.5	12.5	12.6	12.8	13.1	13	12.9	12.9	12.9	12.9	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.8	
Max	12.7	12.7	12.7	12.7	12.7	12.7	13.1	13.3	13.3	13.2	13.3	13.3	13.2	13.2	13.2	13.2	13.1	13.2	12.9	12.8	12.8	12.8	12.8	12.7	12.9
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.