

August 2009

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	12	41	175	295	453	827	573	647	744	722	576	165	171	23	1	0	0	0	0	5425	
2	0	0	0	0	0	24	119	180	239	483	585	542	539	112 ?	?	76	80	64	47	6	0	0	0	0	3095 ?	
3	0	0	0	0	0	10	86	186	356	589	640	773	960	534	640	489	289	78	35	4	0	0	0	0	5669	
4	0	0	0	0	0	34	109	334	535	685	780	906 ?	951	955	471	420	323	205	46	1	0	0	0	0	6753	
5	0	0	0	0	0	13	73	138	393	642	849	914	916	814	772	617	395	195	19	0	0	0	0	0	6749	
6	0	0	0	0	0	21	143	242	481	628	406	253	296	497	105 ?	271 ?	173	148	44	0	0	0	0	0	3708	
7	0	0	0	0	0	24	150	323	524	719	845	930	774	725	781	630	369	185	38	0	0	0	0	0	7015	
8	0	0	0	0	0	17	97	218	132	138	402	619	588	726	720	576	294	57	35	0	0	0	0	0	4621	
9	0	0	0	0	0	21	133	332	531	707	842	921	940	872	758	589	389	197	36	0	0	0	0	0	7267	
10	0	0	0	0	0	23	140	343	540	720	853	901	949	891	774	606	389	182	35	0	0	0	0	0	7346	
11	0	0	0	0	0	17	122	300	521	709	841	927	943	889	770	600	396	187	24	0	0	0	0	0	7246	
12	0	0	0	0	0	22	128	144	414	576	772	908	841	690	373	71 ?	?	?	3	0	0	0	0	0	4941 ?	
13	0	0	0	0	0	18	48	77	95	211	290	356	501	249	266	373	228	80	26	0	0	0	0	0	2818	
14	0	0	0	0	0	6	74	275	168	401	134	277	383	261 ?	61 ?	?	62	52	20	0	0	0	0	0	2174 ?	
15	0	0	0	0	0	14	153	215	493	519	542	856	818	495	196	161	207	144	34	0	0	0	0	0	4846	
16	0	0	0	0	0	29	108	308	544	715	628	615	953	913	583	463	312	143	16	0	0	0	0	0	6329	
17	0	0	0	0	0	17	110	338	539	723	858	933	950	895	771	597	396	181	31	0	0	0	0	0	7339	
18	0	0	0	0	0	20	122	321	520	670	812	875	847	788	727	537	230	110	41	0	0	0	0	0	6620	
19	0	0	0	0	0	15	109	318	522	700	830	905	887	896	732	541	377	170	20	0	0	0	0	0	7022	
20	0	0	0	0	0	18	125	325	526	701	833	887	887	800	650	533	381	150	7	0	0	0	0	0	6824	
21	0	0	0	0	0	14	124	263	383	456	864	860	886	457	523	106	62 ?	54	19	0	0	0	0	0	5070	
22	0	0	0	0	0	18	120	311	515	489	407	814	790	500	555	391 ?	?	12 ?	6	0	0	0	0	0	4929 ?	
23	0	0	0	0	0	19	62	175	242	534	402	394	338	469	563	357	282	111	20	0	0	0	0	0	3968	
24	0	0	0	0	0	9	64	241	469	660	659	573	581	753	782	171	290	134	7	0	0	0	0	0	5392	
25	0	0	0	0	0	16	113	303	455	532	848	961	927	164	570	539	342	123	15	0	0	0	0	0	5909	
26	0	0	0	0	0	18	118	303	506	688	765	842	749	695	712	468	329	131	22	0	0	0	0	0	6346	
27	0	0	0	0	0	13	103	286	490	668	802	880	878	713	684	480	319	123	17	0	0	0	0	0	6455	
28	0	0	0	0	0	13	78	190	309	522	499	588	805	579	566	187	92	30	12	0	0	0	0	0	4470	
29	0	0	0	0	0	4	46	223	506	620	794	847	896	852	702	441	87	86	39	0	0	0	0	0	6142	
30	0	0	0	0	0	14	103	294	494	667	798	852	852	644	316	449	323	96	15	0	0	0	0	0	5918	
31	0	0	0	0	0	9	43	100	75	127	68 ?	111	126 ?	91	114 ?	59 ?	32 ?	11 ?	4	0	0	0	0	0	971 ?	
Avg	0	0	0	0	0	17	102	251	413	569	660	729	755	634	565	412	262	120	24	0	0	0	0	0	5464	
S D	0	0	0	0	0	6	32	76	146	166	229	226	251	226	186	119	57	13	1	0	0	0	0	0	1633	
S/A	0	0	0	0	0	0.38	0.32	0.3	0.35	0.29	0.35	0.33	0.3	0.4	0.4	0.45	0.46	0.48	0.53	3.28	0	0	0	0	0	0.3
Min	0	0	0	0	0	4	41	77	75	127	68	111	126	91	61	59	32	11	3	0	0	0	0	0	971	
Max	0	0	0	0	0	34	153	343	544	723	864	961	960	955	782	630	396	205	47	6	0	0	0	0	7346	
n	0	0	0	0	0	231	370	371	372	372	361	367	367	354	334	331	336	345	299	4	0	0	0	0	0	4814

Daylight Data Recovery: 0.0% missing; 0.0% untested; 3.7% exceed the 15% QC threshold -- 4999 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31392F3 Calibration Factor: 7.3961 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 07/2007

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

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

August 2009

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	*	*	*	*	*	776 ?	863 ?	*	*	*	*	*	*	*	*	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	776	863	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	776	863	N/A	N/A	N/A	N/A	N/A	N/A	0	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	776	863	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A
n	0	0	0	0	0	0	0	0	0	0	0	7	3	0	0	0	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 99.0% missing; 0.0% untested; 0.8% exceed the 15% QC threshold -- 4999 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 2009

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	12	41	175	279	355	409	449	437	349	303	278	160	124	23	1	0	0	0	0	3396
2	0	0	0	0	0	26	108	178	236	396	457	472	453	92 ?	?	73	80	64	47	6	0	0	0	0	2687 ?
3	0	0	0	0	0	11	86	165	264	385	397	274	312	331	326	345	249	78	32	4	0	0	0	0	3259
4	0	0	0	0	0	29	81	131	173	277	314	200 ?	171	243	296	179	256	118	32	1	0	0	0	0	2501
5	0	0	0	0	0	13	73	138	301	261	184	207	435	330	251	230	151	96	17	0	0	0	0	0	2689
6	0	0	0	0	0	20	102	189	249	380	343	239	265	378	105 ?	232	165	146	44	0	0	0	0	0	2859
7	0	0	0	0	0	24	70	103	146	167	193	201	244	246	207	204	183	131	35	0	0	0	0	0	2153
8	0	0	0	0	0	16	85	193	131	138	394	552	484	403	304	275	154	57	33	0	0	0	0	0	3221
9	0	0	0	0	0	21	77	124	157	189	205	197	194	204	205	177	147	108	28	0	0	0	0	0	2033
10	0	0	0	0	0	19	67	104	136	147	163	211	207	171	154	133	127	95	28	0	0	0	0	0	1762
11	0	0	0	0	0	17	87	150	163	155	166	139	133	130	146	135	112	70	14	0	0	0	0	0	1618
12	0	0	0	0	0	23	99	142	280	369	348	479	336	350	315	60 ?	?	?	3	0	0	0	0	0	2804 ?
13	0	0	0	0	0	20	48	77	95	211	290	356	481	249	257	334	221	80	26	0	0	0	0	0	2744
14	0	0	0	0	0	7	74	238	168	374	134	277	361	166 ?	55 ?	30 ?	62	52	20	0	0	0	0	0	2016
15	0	0	0	0	0	16	138	210	364	377	318	352	518	456	194	161	207	107	28	0	0	0	0	0	3445
16	0	0	0	0	0	17	52	85	115	140	284	370	253	288	269	158	155	78	16	0	0	0	0	0	2277
17	0	0	0	0	0	14	51	65	90	89	99	105	133	140	139	112	87	59	19	0	0	0	0	0	1203
18	0	0	0	0	0	19	67	111	128	158	176	188	272	255	221	246	140	95	40	0	0	0	0	0	2115
19	0	0	0	0	0	16	56	107	122	131	176	194	191	184	178	120	92	68	15	0	0	0	0	0	1650
20	0	0	0	0	0	16	52	82	106	118	131	170	186	189	162	144	95	53	7	0	0	0	0	0	1512
21	0	0	0	0	0	16	64	100	143	218	229	226	172	230	258	99	53	53	17	0	0	0	0	0	1878
22	0	0	0	0	0	15	57	91	126	251	289	326	356	300	347	341 ?	?	12 ?	6	0	0	0	0	0	2519 ?
23	0	0	0	0	0	20	52	169	231	417	388	379	333	414	370	264	200	102	20	0	0	0	0	0	3360
24	0	0	0	0	0	9	57	109	153	228	342	391	316	352	287	169	228	85	7	0	0	0	0	0	2732
25	0	0	0	0	0	16	56	102	206	287	249	253	297	160	234	177	150	72	14	0	0	0	0	0	2273
26	0	0	0	0	0	16	58	102	123	143	218	217	225	248	223	189	126	65	19	0	0	0	0	0	1974
27	0	0	0	0	0	14	60	112	143	165	175	186	211	229	212	197	134	78	17	0	0	0	0	0	1932
28	0	0	0	0	0	15	68	166	231	336	412	344	364	313	255	175	91	30	12	0	0	0	0	0	2812
29	0	0	0	0	0	4	44	152	205	257	143	239	202	165	132	163	86	73	35	0	0	0	0	0	1900
30	0	0	0	0	0	12	54	98	123	133	135	149	232	271	154	231	122	63	15	0	0	0	0	0	1793
31	0	0	0	0	0	9	43	100	75	127	52	111	101	83	68 ?	45	24	12	4	0	0	0	0	0	855
Avg	0	0	0	0	0	16	68	131	176	238	252	273	286	256	221	183	140	78	22	0	0	0	0	0	2322
S D	0	0	0	0	0	5	22	43	71	103	108	115	114	96	81	82	59	32	12	1	0	0	0	0	662
S/A	0	0	0	0	0	0.34	0.32	0.33	0.4	0.43	0.43	0.42	0.4	0.38	0.37	0.45	0.42	0.41	0.53	3.28	0	0	0	0	0.28
Min	0	0	0	0	0	4	41	65	75	89	52	105	101	83	55	30	24	12	3	0	0	0	0	0	855
Max	0	0	0	0	0	29	138	238	364	417	457	552	518	456	370	345	256	146	47	6	0	0	0	0	3445
n	0	0	0	0	0	213	371	371	372	372	368	367	370	361	341	346	348	355	299	4	0	0	0	0	4858

Daylight Data Recovery: 0.0% missing; 0.0% untested; 2.8% exceed the 15% QC threshold -- 4999 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.

August 2009

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	23.1	23.2	23.3	23.2	23.1	23	23.1	23.5	24.3	25.3	26.4	27.6	28.1	28.4	29.2	29.6	28.1	25.5	25.4	25.3	25	25	25.1	25.3	25.4
2	25.2	25	25.1	25.1	25	24.8	25.2	25.8	26.4	27	27.9	28.4	28.9	28.1	23.8	23.1	23.5	23.7	23.6	23.5	23.4	23.3	23.2	23.2	25.1
3	23.2	23.3	23.1	23.2	23.2	23.4	23.8	24.5	25.7	27.5	27.6	28.8	30	29.5	29.6	29.5	28.5	27.4	26.8	25.8	25.3	25	24.4	24	26
4	23.5	23.3	23.1	22.8	22.7	22.6	23	24.5	26.3	27.5	28.6	29.1	29.7	30.3	30.3	30.5	28.4	28.3	28.2	27.4	27.1	26.6	26.1	25.6	26.5
5	25.3	25.1	24.8	24.7	24.5	24.5	24.8	25.3	26.3	27.7	29.3	30.6	31.5	32	32.7	32.8	32.4	32	29.6	28.4	27.2	26.5	24.4	23.8	27.8
6	24	24.5	22.9	22.5	22.7	23.1	24	24.7	26.3	27.6	28.2	27.7	25	26.5	24	22.7	23.3	23.9	24	23.1	22	21.9	21.8	21.3	24.1
7	20.7	20.2	19.9	19.7	19.4	19.1	19.7	21.8	24	25.4	27	28.1	28.5	28.8	29	29.3	27.8	26.6	25.2	24.4	24.1	23.9	24.2	24.2	24.2
8	23.8	23.4	23.1	22.9	22.1	21.7	22.9	24.5	25.3	25.4	26	26.8	27.4	28	28.9	28.8	27.8	27	24.9	23.7	23.9	24.4	25	24.5	25.1
9	24.2	24.4	24.2	24	23.6	23.4	23.5	24.6	26.1	27.4	28.7	30	31	31.8	32.3	32.6	32.7	31.8	30.5	29.4	28.5	27.7	27.1	26.8	27.8
10	26.5	26.6	26.1	25.8	25.6	25.2	25.3	26.5	28.1	29.9	31.3	32.2	33	33.7	34.1	34.6	33.8	33.6	32.3	30.5	29.8	29	28.6	28.6	29.6
11	28.1	27.1	26.7	26.5	26.6	26.3	26.3	27.1	28.3	29.6	30.8	31.6	32.3	33.1	34	33.8	34.1	34.2	32.4	30.4	29.3	28.5	27.1	26.4	29.6
12	25.8	25.3	24.4	23.6	23.3	23.2	23.6	24.8	25.8	27	28.3	29.7	30.1	30.4	29.1	27.4	23.2	22.8	22.9	22.9	22.8	22.5	22.5	22.6	25.2
13	22.7	22.6	22.7	22.6	22.6	22.6	22.8	23.1	23.5	23.9	24.5	25.6	26.6	26.8	26.2	27	26.8	26.3	25.9	25	24.9	24.6	24.2	23.9	24.5
14	23.4	22.8	22.5	22.3	22.6	22.8	23.2	24.8	25.2	26	24.8	24.7	24.6	24.6	22.4	22.7	23.2	23.4	23.4	23.7	23.7	23.6	23.5	23.5	23.6
15	23.1	22.4	22.5	22.6	22.1	21.7	22.7	23.7	25.1	25.6	25.9	27.4	27	27	24.8	23.6	24.5	24.6	24.1	23.6	23.4	22.9	22.7	22.3	24
16	21.9	21.8	21.6	21.4	21.2	21.3	22.3	24.1	25.5	26.9	27.5	28.2	28.9	29.6	29.2	28.7	28.2	27.2	25.6	24.7	24.4	24	23.1	22.2	25
17	21.9	21.9	21.5	21.6	21.5	21.3	22.7	25.6	27.1	28.3	28.6	29.7	30.2	30.4	30.3	29.9	29.5	28.9	27.3	25.8	25.2	24.6	24.3	24.1	25.9
18	24.1	24.3	24	23.9	23.6	23.3	23.8	25.6	27.3	28.6	30	30.7	31.4	31.6	32.3	32.3	31.5	30.4	29.5	28.5	27.8	27.1	26.4	25.9	27.7
19	25.4	24.7	24.3	24.2	23.9	23.7	24	25.4	26.7	28.1	29.3	30.2	31	31.7	32.2	32.2	32.1	31.3	29.8	28.3	27.7	27.2	26.7	26.3	27.8
20	25.9	25.2	24.8	24.6	24.5	24.4	25.1	26.6	27.9	29	30	30.7	31.1	31.8	32.1	32.1	32.4	31.8	30.1	28.8	28.2	27.8	27.3	26.8	28.3
21	26.5	26	25.8	25.8	25.8	25.8	26.2	27	27.6	28.6	30.1	31.1	31.6	30.7	30.3	29	24.2	24.7	25.5	25.9	26.5	26.9	26.5	26.4	27.3
22	26.2	26.1	25.8	25.8	25.5	25.3	25.8	26.9	28.5	29.8	30	30.1	30.8	30.5	30.9	26.3	21.8	21.7	21.7	21.8	21.7	21.9	21.9	21.7	25.8
23	21.6	21.4	21.2	21.1	20.9	20.8	21.3	22.1	23.3	25.9	26.5	26.3	26.6	26.2	27.2	27.7	28.7	27.7	27	26	24.3	23.2	23	23	24.3
24	23.5	23.7	23.8	23.8	24	23.6	23.2	24.2	25.8	26.8	27.6	28.2	28.8	29.2	30.6	29.3	28.9	27.7	24.8	23.8	23	22.8	22.6	22.1	25.5
25	21.9	21.5	21	20.9	20.6	20.8	22	24.4	26.5	27.7	28.9	29.7	30	27.8	27.4	29.3	29	27.9	26.5	25.9	25.6	25	25	24.4	25.4
26	24.1	23.9	23.6	23.4	23	22.9	23.3	24.3	26	27.4	28.4	29.2	30.1	30.7	31.3	31.3	31	30.2	28.7	27.6	26.8	26.3	25.8	25.4	26.9
27	24.8	24.5	23.9	23.4	23.2	23	23.4	24.9	26.8	28.5	30	31.1	32.2	32.5	32.6	32.4	31.9	29.7	27.5	26.4	26.2	25.8	25.7	25.5	27.3
28	25.2	24.7	24.3	24.1	24.2	24.1	24.9	26.2	27.6	28.5	28.9	29.4	29.8	29.5	29.1	28.1	27.5	24.5	24.8	25	25.2	24.6	23.8	24.1	26.2
29	24.1	23.9	23.7	23.6	23.7	23.4	23.2	23.8	25.5	27.3	28	28.8	29.5	30.2	30.6	30.5	29.1	28.3	28.2	27.2	26.5	26.2	25.3	24.8	26.5
30	24.6	24.5	24.4	24.2	23.8	23.6	23.9	24.7	25.9	27.3	28.6	29.8	30.3	30.6	27.7	27	29	27.4	26.2	25.5	25.4	25	24.5	24	26.2
31	24	23.8	23.4	22.9	22	21.4	22	22.7	22.8	22.3	20.9	20.4	20.5	20.2	20.1	19.8	20	20	19.7	19.7	19.4	19.2	19	18.5	21
Avg	24.1	23.9	23.6	23.4	23.2	23.1	23.6	24.8	26.1	27.2	28	28.8	29.2	29.4	29.2	28.8	28.2	27.4	26.5	25.7	25.3	24.9	24.5	24.2	26
S D	1.7	1.6	1.6	1.6	1.6	1.6	1.4	1.4	1.5	1.7	2.1	2.3	2.6	2.7	3.4	3.6	3.7	3.5	3	2.5	2.4	2.2	2	2	1.8
S/A	0.07	0.07	0.07	0.07	0.07	0.07	0.06	0.05	0.06	0.06	0.08	0.08	0.09	0.09	0.12	0.12	0.13	0.13	0.11	0.1	0.09	0.09	0.08	0.08	0.07
Min	20.7	20.2	19.9	19.7	19.4	19.1	19.7	21.8	22.8	22.3	20.9	20.4	20.5	20.2	20.1	19.8	20	20	19.7	19.7	19.4	19.2	19	18.5	21
Max	28.1	27.1	26.7	26.5	26.6	26.3	26.3	27.1	28.5	29.9	31.3	32.2	33	33.7	34.1	34.6	34.1	34.2	32.4	30.5	29.8	29	28.6	28.6	29.6
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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

August 2009

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	104.7	104.6	104.2	104.1	104.3	104.7	104.7	104.3	101.4	98.9	96.6	94.2	93.2	91.7	89	87.6	93.5	102.5	101.8	102.6	103.2	104.3	104.2	104.3	100.2
2	104.7	104.8	104.8	104.7	104	104.5	104.3	102.5	100.3	98.6	96	95	93.7	97.7	102.8 ?	?	104.9 ?	104.9	104.8	104.1	103.5	103.6	104.1	104.5	102.3
3	104.8	?	?	?	?	?	105 ?	104.1	98.3	92.2	93.3	88.3	82.6	88.5	85.7	85.5	95	97.8	98.1	102.5	104.8	104.4	104.6 ?	?	96.4 ?
4	?	?	?	?	?	?	?	102.3 ?	98.5	95.6	91.4	86.1	83.3	82	83.4	83.6	95.3	91.4	92.4	97.1	100.2	102.8	100.3	101.2	93.3 ?
5	104.6 ?	104.4	103.5	103.5	104.6	?	104.8 ?	103.9	100.9	96.1	89.4	83	80	78.2	74.8	74.4	78.6	80.2	93.4	91.5	96.7	97	102.4	103.5 ?	93.5
6	?	104.3	105 ?	?	?	?	?	?	101.3	96.5	94.6	95.9	97.2	91	98.9	?	104.4 ?	104	104.2	103.8	?	?	?	?	100.1 ?
7	?	?	?	?	?	?	?	100.7	90.1	80.4	66.1	59.4	61	61.8	61.2	61.8	72.6	78.3	82.3	82.1	84.7	86.8	83	80.9	76.1 ?
8	84.9	88.6	90.3	91.6	93.9	96.7	94.1	89	82.2	84.5	86.1	85.2	82	78.4	79.7	82.3	86.2	92.8	102.1 ?	104.6	102	99	96.5	99.6	90.5
9	101.7	100.1	100.5	100.8	101.8	101.8	101.4	99.4	91.3	87.3	84.9	83.4	81.4	79.8	78.4	78.3	78.4	84.6	90.2	93.1	96.7	99.2	101	101.9	92.4
10	101.5	98.8	99.2	99.7	100.3	101.2	101.1	98	92.7	85	78.7	74.4	69	64.7	63.2	61.3	73.8	76.2	83.3	91.9	94.3	97.1	98.3	95.9	87.5
11	96.7	96.8	98.6	98.4	96.4	97.2	98.4	97.1	94.1	90.5	84.6	77	71.3	66.5	65.7	68	67.1	65.7	76.3	83.9	92	95.8	96.5	98.3	86.4
12	100.1	99.3	101.1	103.7	104.6	104.4 ?	104.3 ?	101.9	97.5	93.4	89.4	85.4	85.5	82.6	93.7	100.5	103.8 ?	?	?	?	?	?	?	?	97.1 ?
13	?	?	?	?	?	?	?	?	?	104.4 ?	102.5	98.9	94.5	90.4	91.3	87.3	87.5	91.5	95.1	97.8	101.8	104	?	104.8 ?	96.6 ?
14	?	?	?	?	?	?	?	103.1 ?	101.9	99.1	102.4	102.8	103.2	102.3 ?	?	?	?	?	?	104.7	103.9	103.9	104.3	104.2	103 ?
15	104.6	?	105 ?	104.9	104.8	104.8	104.6	103.8	97.9	96.4	95.3	90.2	93.4	93	100.5	104.8 ?	104.6 ?	102.4	102.3	103.5	104.2	104.9 ?	104.9	?	101.4 ?
16	?	?	?	?	?	?	104.8 ?	100.1	92.5	86.6	86.9	85.6	77.6	75.8	78.9	79.3	78.9	82.9	91.6	95.6	97	99.4	103.7	?	89.2 ?
17	?	?	?	?	?	?	?	95.7	86.1	84.4	78.3	71.2	69.6	69.6	69.5	65.4	61.6	67	70.1	77.5	82.2	89.7	97.2	102.6	78.7 ?
18	104.7 ?	?	?	?	?	?	?	102.8 ?	98	94.8	86.7	83.2	81.9	79.5	75.8	75.6	79.4	84.4	88	92.7	95.4	95.5	97.1	98.6	89.7 ?
19	101.3	104.1	?	?	?	?	?	103.6 ?	99.9	95.9	90.7	87.2	81.9	77.7	77.2	74.9	77.5	82.7	86.5	95.8	98.4	99.9	99.7	98.1	91.2 ?
20	98.7	102.1	104.2	?	?	?	?	103.1	98.2	95.7	91.9	86.3	83.3	80.1	78.5	78.6	77.8	81.3	90.1	96.7	99.5	100.4	99.8	101.2	92.4 ?
21	102.3	104.3	104.8	?	?	?	104.2 ?	101.4	98.2	94.1	88.2	84.8	81.4	83.2	86	94.2	104.5	103	103.3	103	102.2	101.8	103.2	104.2	97.7 ?
22	104.7	104.8 ?	?	?	?	?	104.5 ?	101.9	95.3	91	89.8	90.8	89.6	87.6	83.4	92.9 ?	?	?	?	?	?	?	?	?	94.7 ?
23	?	?	?	?	?	?	?	?	102.7 ?	91.7	88.1	93.6	95.6	99	96.4	94	90.7	94.4	97.3	102	103.8 ?	104.7 ?	104.2 ?	104.4	97.7 ?
24	104.6 ?	?	?	?	?	?	?	102 ?	94.3	91.5	89.9	87.9	86.3	85.5	78.3	84.7	87.7	91.2	91.7	102.7	103.6	104.3	?	104.6 ?	93.6 ?
25	104	103.7	?	?	?	?	104.6 ?	103.1	98.8	92.9	85.2	82.1	80.5	92.3	97.8	86	89.8	94.8	98.4	101.4	101.3	103.9	104.3	104.8 ?	96.5 ?
26	?	?	?	?	?	?	?	104 ?	98.5	91	89.6	83.3	77.1	73.7	73.5	71.7	76.2	81.8	87	91.7	99.8	101.4	103.3	103.8	88.7 ?
27	104.6	104.8 ?	?	?	?	?	104 ?	100.7	96.1	90.6	83.5	75.1	67.6	66.7	64.1	70.6	67	85.3	92.6	96.8	96.8	100.1	103.1	104.8 ?	88.7 ?
28	?	?	?	?	?	?	?	104 ?	99.8	95.4	90.3	87.2	84	83.1	85.9	91	95.2	102.5	103.5	100	100.7	103	?	?	95 ?
29	?	?	?	?	?	?	?	?	101.2	94.2	90	87.6	83.3	78.5	76.7	77.3	84.5	89.4	92.4	95.6	97.4	97.9	100.5	104.4	90.7 ?
30	104.4	104.7	105 ?	?	?	?	?	102.9 ?	98.5	94.1	86.8	82.1	79.7	78	87.6	95.9	88.7	96.3	98.6	102	102.5	103.6	104.6 ?	?	95.6 ?
31	?	?	?	?	105 ?	101.6	96.4	99.3	103.9	103.9	105 ?	104.1	103.8	104.8	104.5 ?	?	?	104.6	104.8 ?	?	105 ?	?	104.9 ?	?	103.4 ?
Avg	102	101.9	102	101.3	102	101.9	102.6	101.3	97	93.1	89.4	86.2	83.7	82.7	82.7	81.8	85.9	89.8	93.6	97	99.1	100.3	101	101.4	93.6 ?
S D	4.8	4.4	4.2	4.3	3.9	3.1	3.4	3.3	4.9	5.4	7.5	9	10.1	10.9	12	11.4	12.4	11	8.8	7.1	5.6	4.6	4.7	5.3	6.4
S/A	0.05	0.04	0.04	0.04	0.04	0.03	0.03	0.03	0.05	0.06	0.08	0.1	0.12	0.13	0.14	0.14	0.14	0.12	0.09	0.07	0.06	0.05	0.05	0.05	0.07
Min	84.9	88.6	90.3	91.6	93.9	96.7	94.1	89	82.2	80.4	66.1	59.4	61	61.8	61.2	61.3	61.6	65.7	70.1	77.5	82.2	86.8	83	80.9	76.1
Max	104.8	104.8	105	104.9	105	104.8	105	104.3	103.9	104.4	105	104.1	103.8	104.8	104.5	104.8	104.9	104.9	104.8	104.7	105	104.9	104.9	104.8	103.4
n	202	181	125	108	110	103	136	280	354	367	362	370	372	369	346	311	305	336	327	333	320	308	275	233	6542

Data Recovery: 0.0% missing; 0.0% untested; 26.7% 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

August 2009

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	23.1	23.1	23.2	23.2	23.1	23.1	23.1	23.6	25.2	27.9	31.4	33.9	34.5	34.2	34.3	35.3	35.1	31	28.2	26.6	25.8	25.2	24.9	24.9	27.7
2	25.1	25.1	25.2	25.3	25.4	25.2	25.4	26.6	27.8	29	31.2	32.5	32.9	32.5	28.7	25.2	24.3	24.1	24	23.8	23.6	23.5	23.4	23.4	26.4
3	23.3	23.3	23.2	23.2	23.2	23.4	23.7	24.7	27.2	31.6	35.2	36.6	37.5	37.7	35.8	35.9	34.2	32	29.7	27.9	26.3	25.2	24.6	24.1	28.7
4	23.6	23.2	22.9	22.8	22.6	22.4	23	25.6	30.7	33.6	35.1	36.3	36.5	36	36.3	36.1	34.7	33.1	32.7	30.1	28	27	26.3	25.8	29.4
5	25.3	25	24.7	24.6	24.6	24.5	24.7	25.6	27.1	30.2	33.4	35.8	36.9	37.4	37.7	38.6	39.1	38.5	35.8	31.5	29.2	28	26.4	24.9	30.4
6	24.2	24.2	24	23.1	22.5	22.6	23.5	25.8	28.5	32.4	34.6	33.7	31.4	31	30.4	26	25.1	25.3	25.5	24.7	23.3	22.4	22.1	21.8	26.2
7	21.3	20.7	20.2	19.8	19.4	19.1	19.8	23.4	27.6	30.8	33.6	36	36.7	35.9	35.8	36.9	36.7	33.8	30.5	26.9	25	24.1	23.9	23.8	27.6
8	23.6	23.2	22.9	22.5	21.8	21	21.6	24	26.9	27.4	28.1	30.8	33.3	33.9	35.1	35.9	35.2	32	28.4	25.5	24.2	24	24.4	24.5	27.1
9	24.1	24.1	24.2	24.2	23.9	23.6	23.9	26	28.8	31.4	33.1	34.6	35.7	36	36.8	37.6	38.1	37.7	35.4	32.2	29.8	28.4	27.5	26.9	30.2
10	26.7	26.5	26.3	26	25.7	25.4	25.8	28.2	31.5	35.1	37.7	39.7	40.2	39.5	39.6	40.2	40.6	40.3	38.1	34.2	31.3	30.1	29.2	28.9	32.8
11	28.7	28	27.4	26.8	26.6	26.5	26.7	28.7	31.7	34.5	36.9	38.2	38.4	37.9	38.8	40.3	40.5	40.5	38.9	34.2	31	29.6	28.7	27.6	32.8
12	26.8	26.1	25.4	24.5	23.8	23.3	23.7	25.7	27.5	30.8	34.6	37.9	38.8	38	36.3	32.9	28.5	24.9	23.7	23.3	23.2	22.9	22.6	22.6	27.8
13	22.7	22.8	22.8	22.8	22.8	22.7	22.9	23.2	23.8	24.5	25.9	27.9	30.3	32.3	31	31	31.5	30.3	28.6	26.7	25.5	24.9	24.5	24.1	26.1
14	23.7	23	22.5	22.2	22.2	22.4	22.7	24.6	27.2	28.1	29.4	27	27	27.5	25.4	23.7	23.6	23.9	23.9	23.7	23.7	23.6	23.5	23.5	24.5
15	23.5	23.2	22.9	22.7	22.7	22.2	22.3	24.4	27.1	30.9	31.9	33.6	35.4	34.3	32.3	27.4	26	26.4	26.6	25.1	23.7	23	22.6	22.2	26.3
16	21.9	21.6	21.6	21.4	21.2	21.1	22.1	25.6	29.9	33.1	35.5	35.8	36.1	36.6	37	36	35	33.6	30.3	26.7	24.8	23.8	22.9	22	28.2
17	21.3	21.1	21	20.9	20.8	20.8	21.6	26.1	31.6	35.5	37.4	38.5	38.7	38	37.6	37.6	36.8	35.7	33.1	28.7	26	24.7	24.1	23.7	29.2
18	23.5	23.4	23.6	23.6	23.5	23.3	23.8	26.9	30.9	34	36.4	37.9	38.2	37.9	37.9	38.6	38.2	35.2	33	30.7	29	28.1	27.2	26.5	30.5
19	26	25.3	24.7	24.3	23.9	23.7	23.9	26.6	30	32.9	35	36.5	37.1	37	37.6	38.3	38.5	38	35.3	31.3	29	27.9	27.2	26.8	30.7
20	26.4	25.8	25	24.6	24.4	24.2	25	28.3	32.1	35.1	36.9	37.8	37.5	36.8	37.2	37.5	37.7	37.7	35.1	31.4	29.4	28.4	27.7	27.2	31.2
21	26.7	26.3	25.9	25.6	25.5	25.6	26.1	29	30.7	32.1	33.7	36.8	37.8	37.3	35.6	34	29.7	26.2	25.6	25.6	25.6	26.1	26.4	26.2	29.2
22	26.1	26.1	25.9	25.7	25.5	25.3	25.8	29.2	33.3	37.3	38.5	37.5	38.5	37.7	36.6	35.5	28	24	22.8	22.3	22.1	22	22	21.9	28.7
23	21.8	21.7	21.5	21.3	21.1	20.8	21.1	22.3	24.5	28.1	32.4	32.4	32.2	31.4	31.8	32.8	34.4	33.6	30.7	28.1	26.2	24.5	23.1	22.5	26.7
24	22.3	22.6	23	23.3	23.5	23.6	23.4	24.5	28.7	32.8	35.6	36	35.8	35.5	36.8	37.5	34.6	33.5	30.2	26.4	24.5	23	22.4	22	28.4
25	21.5	21.2	20.8	20.3	20	20	20.8	24.6	29.2	32.2	34.7	38.1	39.3	36.9	31.5	33.2	35.2	34.7	31	27.9	26.2	25.3	24.6	24	28.1
26	23.6	23.4	23.2	23	22.9	22.8	23.1	25.6	29.1	32.5	34.8	36.4	36.9	36.7	37	38.4	37.9	36.8	33.9	30.1	27.9	26.7	25.8	25.4	29.7
27	24.9	24.5	24.1	23.6	23.3	22.9	23.2	25.7	29.7	33.6	36.6	38.5	39.3	39.8	39.3	39.5	38.9	36.8	32.7	28.9	26.9	26	25.5	25.3	30.4
28	25	24.5	24	23.7	23.6	23.6	23.9	25.4	28.2	31.4	34.5	34.7	35.2	34.8	34.2	32.8	30.9	27.6	25.2	24.6	24.7	24.8	24.3	24	27.7
29	23.9	23.9	23.9	23.8	23.8	23.8	23.7	24.3	27.4	31.6	34	35.2	35.7	35.6	36	36.5	34.8	31.8	30.9	28.9	27	26.3	25.9	25	28.9
30	24.6	24.4	24.2	24	23.8	23.5	23.9	26.4	29.7	33.1	35.7	37.2	37.8	37.5	36.5	31.6	33.4	33.6	30.2	27.4	25.9	25.4	24.9	24.5	29.1
31	24.1	24	23.8	23.6	23	21.9	21.1	21.9	23.1	23.6	22.7	21.5	21.4	21.4	21.3	20.8	20.4	20.3	20.1	19.9	19.7	19.5	19.3	19.1	21.6
Avg	24.2	23.9	23.7	23.4	23.2	23	23.4	25.6	28.6	31.5	33.8	35	35.6	35.3	34.8	34.3	33.5	32	30	27.6	26.1	25.3	24.8	24.4	28.5
S D	1.8	1.7	1.7	1.6	1.7	1.7	1.6	1.8	2.5	3.1	3.5	3.9	3.9	3.7	4.1	5	5.4	5.4	4.7	3.4	2.7	2.4	2.2	2.1	2.3
S/A	0.08	0.07	0.07	0.07	0.07	0.07	0.07	0.07	0.09	0.1	0.1	0.11	0.11	0.1	0.12	0.15	0.16	0.17	0.16	0.12	0.1	0.09	0.09	0.09	0.08
Min	21.3	20.7	20.2	19.8	19.4	19.1	19.8	21.9	23.1	23.6	22.7	21.5	21.4	21.4	21.3	20.8	20.4	20.3	20.1	19.9	19.7	19.5	19.3	19.1	21.6
Max	28.7	28	27.4	26.8	26.6	26.5	26.7	29.2	33.3	37.3	38.5	39.7	40.2	39.8	39.6	40.3	40.6	40.5	38.9	34.2	31.3	30.1	29.2	28.9	32.8
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

August 2009

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	1.2	1.2	1.6	1.5	0.5	0.5	0.7	1.3	1.8	1.6	2.3	2	2.6	3.5	2.8	2.5	3.3	3.7	2.1	1.9	1.4	0.7	1.1	2.9	1.9
2	2.6	2.7	2.3	2.2	2.2	1.6	1.9	3.1	3.1	3.6	4.1	4.1	4	2.6	3.3	1.6	1.6	2.2	2.8	3.2	3.2	2.8	1.9	1.5	2.7
3	1.6	1.4	1	1.4	1.3	1.3	0.9	1.1	0.7	0.8	1.2	1.1	1.4	2.5	2.9	3.2	3.1	1.9	1.7	1.6	1	1.1	1.1	1	1.5
4	0.6	0.1	0.6	0.1	0	0	0.3	0.4	1.7	2.3	2.6	2.5	3.1	3	2.3	2.1	2.4	1.8	1.3	1.3	1.5	1.5	2.4	1.8	1.5
5	1.8	1.6	1.4	1.6	0.9	1.4	1.8	2.2	2.9	3	3	3.1	3.2	3.5	3.3	2.9	2.3	1.9	2.6	3.3	3.1	0.9	1.1	2	2.3
6	0.7	0.4	1.4	0.9	1	1	1.8	2.1	2.1	2.1	1.5	2	2.4	1.6	2.2	1.8	1.6	1.1	0.9	1.8	1.7	1.7	1.1	1.2	1.5
7	0.8	1.4	0.7	0.5	0.2	0.2	0.5	0.9	1.7	1.7	1.2	1.1	1.4	1.3	1.3	1.4	2.3	2.1	2.1	1.7	1.7	1.1	1.9	1.6	1.3
8	0.8	0.7	0.5	0.3	0	0.2	0.3	0.3	1.1	0.7	1.4	1.8	1.9	2.2	2.1	2.6	3	2.5	1.8	2.6	2.5	2	2.6	1.4	1.5
9	0.9	2.5	2.2	2.4	2.7	3.2	3.4	3.8	3.9	4.3	4	3.7	3.9	3.3	3.5	3.1	2.7	2.4	1.5	1.5	1.2	1	1.4	2	2.7
10	3.1	3.2	2.3	2.4	2.6	2.4	2.8	2.9	2.5	2.3	1.8	2	2.9	2.7	2.9	2.3	1.8	0.9	1.1	0.9	1.6	2.2	4.2	4.4	2.4
11	3.3	2.3	2.1	3.2	3.1	2.8	1.9	2.5	3	2.6	2.7	3.1	3.2	3	1.9	2.3	1.6	0.4	0.5	0.2	0.3	2.6	2.1	1.2	2.2
12	2	2.3	2.1	1.7	1.1	1.2	1.2	1.1	1.9	1.3	1.2	1.6	2.4	2.8	3.7	2.5	2.3	2.3	1.1	0.1	1.4	2.1	1.8	0.9	1.8
13	0.6	1.4	1.2	0.8	0.2	0.3	0.6	0.8	0.7	1.2	1.2	0.7	1.1	1.3	1	1.3	1.1	0.5	0.2	0.4	0.5	0.6	0.9	1.4	0.8
14	0.7	0	0	0.3	0.5	0.5	0.1	1.4	1.4	1.9	2.6	2	2.2	2.5	2.7	1	0.3	0.7	1.1	2.3	1.6	0.5	0.9	0.9	1.2
15	1.2	2	1.4	1.1	0.8	0.9	0.8	0.9	1.2	2	1.5	2	3.5	2.2	2	0.8	1	1.5	1	0.5	0.1	0.2	0.2	0.1	1.2
16	0	0.2	0.2	0.1	0.4	0.7	0.5	1	1.7	1.5	1.4	1.6	2.3	2.4	2.3	2.2	2.2	1.9	1.6	0.8	0.6	0.2	0.1	0.2	1.1
17	0.1	0.1	0	0.1	0	0.1	0	0.2	0.9	1.2	1.5	1.6	1.8	2.4	2.5	2.6	2.3	1.9	1.8	1.4	1.2	1.5	1.4	1	1.2
18	0.4	0.9	1.5	1.4	1	1.2	1.6	1.8	2.6	2.4	2.3	2.7	2.7	3.1	2.9	2.5	2.7	2.3	2.3	1.4	2.7	2.8	3	3.2	2.1
19	2.6	1.8	2.1	2.2	1.8	1.9	2	3.2	3.1	3.2	3.2	3.2	3.3	3.3	2.7	2.8	2.3	2.3	2.1	2.1	2.1	2.4	2.9	2.8	2.6
20	2.5	1.3	1	1.2	1.5	1.7	2	2.4	2.4	2.3	2.8	3.6	4	3.8	3.3	4	2.7	2	1.4	1.5	1.5	2.3	2.9	2.8	2.4
21	3.1	2.4	2.5	2.5	2.7	2.7	2.5	3.1	4	3.9	3.5	3.2	3.4	3.3	3.2	2.1	1.5	0.6	0.8	0.7	1.5	2.2	1.6	1.4	2.4
22	1.3	1.4	1.1	0.6	0.3	0.1	0.7	1.5	1	0.6	0.9	1.1	2.6	3.3	2.5	3.7	1.6	0.4	0.8	1.9	1.6	2	2	1.4	1.4
23	0.6	1.1	0.3	0.2	0	0	0.1	0.3	0.1	0.2	1.3	1.7	1.9	3.2	2.5	0.9	0.9	0.7	0.7	1.1	1.2	1.1	0.5	0.2	0.9
24	0.2	0	0.3	0.5	0.2	0.2	0.2	0.7	1.6	1.4	1.6	1.8	1.9	2	1.7	1.5	1.9	2.4	2.7	1.3	0.8	0.7	0.8	0.7	1.1
25	0.7	0.6	0.2	0.2	0.6	0.7	0.9	1.8	2.2	2.3	2	2	2.6	1.8	0.7	2.3	2.2	2.2	2.1	1.9	1.7	0.9	0.4	0.2	1.4
26	0.5	0.2	0.2	0.8	1.4	1.5	1.7	2.3	2.4	2.6	2.2	2.6	2.3	2.1	1.8	1.6	1.7	1.3	1.2	1.5	1.6	1	1.4	1.9	1.6
27	1.9	2.4	1.4	1.2	1.2	1.2	1.7	2.3	2	2.1	2	2.2	1.6	1.9	1.9	1.8	2.2	3.2	1.8	1	1.3	1.4	1.2	0.9	1.7
28	0.2	0	0	0	0	0	0	0.7	1.1	1.7	2.9	3.2	4.1	4.9	5.1	4.7	4.4	1.4	1.7	1.9	0.8	0.8	1	1	1.7
29	0.8	1.1	1.1	1.6	1	0.6	1	1.2	1.9	2.5	3.5	3.6	3.8	3.5	3	2.8	1.8	1.4	0.7	0.6	0.7	1.8	1.3	1.8	1.8
30	2	1.9	1.6	1.6	1.5	2	2	2.8	2.3	1.9	2.4	2.2	2.7	2.4	2.4	0.9	1.7	2.4	2.5	1.8	1.3	0.5	0.7	0.2	1.8
31	0	0.3	1	1.1	0.8	0.7	0.6	1.3	2	2.5	2.5	2.9	3.5	3.5	3.1	2.7	2.6	2.5	2.5	2.1	2.8	3.1	2.4	2.6	2
Avg	1.2	1.2	1.1	1.1	1	1.1	1.2	1.7	2	2.1	2.2	2.3	2.7	2.7	2.6	2.3	2.1	1.8	1.6	1.5	1.5	1.5	1.6	1.5	1.7
S D	1	0.9	0.8	0.9	0.9	0.9	0.9	1	0.9	1	0.9	0.9	0.8	0.8	0.9	0.9	0.8	0.8	0.7	0.8	0.8	0.8	0.9	1	0.5
S/A	0.79	0.73	0.68	0.74	0.88	0.85	0.76	0.59	0.46	0.46	0.4	0.38	0.31	0.29	0.33	0.4	0.38	0.46	0.45	0.52	0.52	0.55	0.6	0.67	0.31
Min	0	0	0	0	0	0	0	0.2	0.1	0.2	0.9	0.7	1.1	1.3	0.7	0.8	0.3	0.4	0.2	0.1	0.1	0.2	0.1	0.1	0.8
Max	3.3	3.2	2.5	3.2	3.1	3.2	3.4	3.8	4	4.3	4.1	4.1	4.1	4.9	5.1	4.7	4.4	3.7	2.8	3.3	3.2	3.1	4.2	4.4	2.7
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: 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 2009

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	204	206	204	207	207	209	223	220	254	234	225	216	206	222	230	220	162	146	169	193	191	153	147	197	202
2	199	210	213	222	223	208	205	205	213	218	214	214	210	220	190	183	176	184	195	202	206	216	221	202	207
3	207	206	218	229	228	227	230	249	301	100	120	135	184	133	136	137	136	127	195	202	200	205	212	218	176
4	234	197	214	220	181	289	230	213	104	102	130	165	140	157	178	173	68	95	112	120	137	185	206	202	148
5	205	201	201	213	215	218	216	213	212	227	221	227	228	217	206	189	178	169	162	196	229	303	356	66	208
6	77	133	320	30	98	137	223	230	236	235	212	173	301	51	71	72	94	155	245	281	283	291	292	280	246
7	287	292	295	302	273	285	290	310	319	311	47	57	1	321	265	261	89	70	67	77	108	105	98	108	32
8	123	145	145	157	152	287	123	132	121	126	171	176	185	183	171	148	126	124	167	143	144	153	157	205	154
9	205	207	221	221	227	225	228	236	239	235	237	242	247	236	228	225	221	223	228	232	213	206	206	205	228
10	222	229	239	233	236	245	260	265	266	266	265	261	260	269	263	272	191	202	216	212	220	216	225	228	242
11	255	249	237	231	234	229	235	227	252	255	269	253	240	244	253	230	245	268	226	216	170	202	227	262	241
12	253	248	258	251	262	229	220	251	246	235	166	155	127	139	141	172	237	124	184	225	236	234	228	203	204
13	249	254	265	262	232	219	229	225	231	272	291	237	241	274	258	242	240	242	277	316	40	38	60	77	258
14	84	283	26	334	1	2	17	30	61	58	72	54	35	56	33	101	56	29	53	71	67	49	30	36	51
15	290	347	52	54	355	360	344	33	39	26	17	29	57	71	68	27	43	45	51	44	4	344	351	331	34
16	319	327	309	318	313	335	352	346	3	23	27	66	70	78	65	65	50	57	70	92	107	52	256	214	50
17	351	342	2	343	18	28	43	72	103	67	101	74	101	80	87	102	104	98	106	117	125	135	143	155	102
18	174	199	210	207	216	223	224	229	253	256	224	215	195	177	192	183	196	199	203	186	195	200	203	203	206
19	213	211	206	201	207	206	218	228	238	235	229	219	224	212	196	183	181	179	182	160	173	196	203	204	207
20	211	223	207	205	201	205	200	198	192	184	198	215	216	212	187	202	194	184	166	159	177	189	194	200	199
21	205	198	195	202	202	200	201	213	213	206	206	190	173	160	157	168	263	167	156	125	142	156	156	163	189
22	159	156	151	148	215	169	170	183	172	198	223	153	103	123	158	228	262	295	166	219	246	256	250	261	192
23	264	271	249	188	266	213	336	332	342	343	87	100	82	85	97	160	62	84	73	130	154	133	136	130	102
24	156	159	145	149	164	258	248	219	245	206	186	177	173	137	198	180	160	170	345	18	218	23	0	355	183
25	341	334	304	304	319	323	347	13	38	58	63	79	86	50	57	70	60	57	50	82	78	68	115	150	55
26	149	159	173	208	210	221	262	235	254	240	254	261	253	243	233	231	193	169	161	148	154	192	191	203	222
27	206	206	212	217	221	220	224	240	248	244	268	252	232	205	221	184	149	136	161	143	128	153	130	146	202
28	199	109	0	280	0	0	40	102	79	102	111	98	107	103	110	113	113	132	111	96	74	102	71	64	105
29	48	32	36	358	344	300	298	284	307	288	280	267	269	251	251	238	240	223	197	203	163	182	182	193	261
30	207	207	205	203	204	202	216	233	244	237	268	258	235	256	297	308	56	69	66	76	110	155	174	155	224
31	328	293	257	332	19	44	12	355	358	352	336	353	351	354	339	350	359	353	346	350	349	345	354	352	350
Avg	216	223	221	223	226	223	230	234	243	237	221	209	200	178	180	182	152	137	147	152	173	193	196	200	203
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 2009

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	2.3	2.5	3	2.7	1.5	1.2	1.8	2.7	3.3	3.1	3.9	3.7	4.3	5.6	4.7	4.2	5.5	6.6	3.9	3.4	2.7	1.6	2	4.9	3.4
2	4.2	4.6	4	3.6	3.8	2.7	3.4	5.4	5.5	5.9	6.7	6.7	6.3	4.1	6	3.1	3.4	4.3	5.2	5.5	5.3	5	3.3	2.7	4.6
3	2.7	2.5	1.9	2.4	2.5	2.7	1.9	2.4	1.9	1.8	2.5	2.4	2.7	4.3	4.9	5.4	5.2	3.6	3.3	2.8	1.9	2	1.8	1.7	2.8
4	1.2	0.6	1.3	0.4	0	0.2	1.1	1.2	2.8	3.9	4.4	4.3	5.2	5.1	4.1	4	3.8	2.9	2	2	2.4	2.7	3.7	3	2.6
5	3.1	2.8	2.8	2.6	1.6	2.3	3	4	4.8	4.9	4.9	5.2	5.5	5.8	5.7	5.1	4	3.4	4.7	5.5	5.3	2.1	2	3.5	3.9
6	1.6	0.9	2.9	1.7	1.8	1.9	3	3.6	3.8	4.1	2.8	3.7	4.8	3.3	3.9	3.2	2.8	2.3	1.9	3.8	3.6	3.7	2.8	3	3
7	2.2	3.2	2.2	1.7	1	1	1.6	2.4	3.6	3.8	2.5	2.7	3	3	2.9	2.7	4.2	3.7	3.4	3	2.7	2	3.1	2.8	2.7
8	1.3	1.4	1.1	0.8	0.2	0.4	0.7	0.9	1.7	1.5	2.5	3.3	3.4	3.9	3.9	4.4	4.8	4	3.6	4.5	4.3	3.8	4.9	3	2.7
9	1.9	4.2	3.7	3.9	4.1	4.9	5.6	6.3	6.8	7	6.5	6.4	6.9	5.5	5.7	5	4.5	3.7	2.5	2.4	2	1.8	2.1	3.3	4.4
10	5.1	5.1	3.9	4	4.1	4.2	4.8	5.2	4.4	4.3	3.4	3.9	5.7	5.3	5.4	4.4	3.3	1.8	1.9	1.5	2.5	3.6	6.5	7.1	4.2
11	5.9	3.9	3.3	5	5.2	4.7	3.2	4.2	5.2	4.9	5.4	5.8	5.4	5.2	3.8	3.8	3	1.1	1	0.5	0.7	4.4	3.4	2.3	3.8
12	3.6	4	3.9	3	2.4	2.3	2.2	2.2	3.5	3	2.5	3.4	4.3	4.7	6.4	4.6	4.2	4.1	2.7	0.5	2.8	3.7	3.3	2.1	3.3
13	1.6	2.9	2.8	2.2	1	1	1.5	1.8	1.7	2.8	2.8	1.6	2.3	2.4	2	2.3	1.9	0.9	0.7	1.1	1.3	1.4	1.7	2.4	1.8
14	1.1	0.1	0	0.8	1.2	1.4	0.6	2.8	2.6	3.2	4.2	3.7	3.8	4.9	5	2.1	1	1.7	2.2	3.8	3	1.7	2	2	2.3
15	2.7	3.8	2.9	2.3	1.8	1.8	1.8	2.1	2.5	3.6	2.8	4	5.7	3.9	3.5	1.7	2.4	2.9	2.3	1.4	0.5	0.9	0.9	0.4	2.4
16	0.2	0.8	0.8	0.5	1.1	1.5	1.6	2.5	3.3	3	2.6	3.1	4	4.2	3.9	3.9	3.6	3.1	2.8	1.5	1.2	0.6	0.5	0.5	2.1
17	0.3	0.3	0.2	0.3	0.2	0.6	0.2	0.8	2.1	2.4	3.1	3.2	3.5	4	4.2	4.3	3.8	3.1	2.9	2.3	2.2	2.4	2.3	1.9	2.1
18	1.3	2	2.2	2.3	1.7	2	2.7	2.9	4.4	4.2	4	4.6	4.9	5.4	5.5	4.9	4.8	4.1	3.9	2.8	4.7	4.8	4.8	5.2	3.8
19	4.2	2.8	3.3	3.6	2.9	3.1	3.4	5.4	5.3	5.2	5.6	5.4	5.3	5.7	4.8	5.1	4.2	4.2	3.9	4	4	4.1	4.8	4.6	4.4
20	4.3	2.4	1.8	2	2.6	2.9	3.6	4.2	4.1	4.3	5.2	6.2	6.5	6.5	5.9	6.5	4.9	3.8	2.9	2.9	3	4.3	5.1	4.7	4.2
21	5.1	4.1	4.7	4	4.8	4.9	4.4	5.3	7	6.3	6.1	5.7	5.8	5.8	5.8	4.3	2.8	1.9	1.9	1.6	3.1	4	3.3	3	4.4
22	2.8	2.8	2.2	1.4	1	0.5	1.8	3	2.4	1.6	2	2.3	4.4	5.1	4.2	6.8	3.3	1.5	2	3.3	3	4	3.8	3	2.8
23	1.8	2.7	1	0.9	0.2	0.2	0.5	1.1	0.6	1	2.4	3.2	3.6	5.1	4.2	2	1.8	1.5	1.3	1.9	2.2	2	1.3	0.7	1.8
24	0.6	0.5	0.9	1.3	1.2	0.5	0.8	1.8	3.1	2.9	3.3	3.5	3.5	3.6	3.3	2.9	3.4	4.4	4.8	2.6	1.5	1.3	1.8	1.5	2.3
25	1.2	1.3	0.6	0.7	1.2	1.6	1.7	3.3	4.1	3.9	3.5	3.8	4.4	3.4	1.8	3.8	3.9	3.8	3.5	3	2.9	1.8	0.8	0.5	2.5
26	1.3	1	1	1.7	2.3	2.6	3	4	4	4.1	4.1	4.9	4.2	4.1	3.5	2.9	3.4	2.5	2.3	2.7	3	2.1	2.7	3.1	2.9
27	3	3.7	2.3	1.9	2.1	2.1	2.8	3.9	3.3	3.7	3.9	4.2	3.1	3.4	3.5	3.4	3.7	5.6	3.3	2.1	2.4	2.6	2.1	1.8	3.1
28	0.7	0.1	0	0	0	0	0.1	1.4	2.2	3.4	4.8	5.4	6.5	7.7	8.6	8.1	7.8	3.1	3.7	3.5	2.4	2.1	2.3	2	3.2
29	2	2.5	2.4	3.2	2.4	1.9	2.6	3.4	4.1	5	6.5	6.9	7	6.4	5.3	4.7	3.1	2.4	1.6	1.3	1.6	3.4	2.8	3.1	3.6
30	3.2	3.2	2.9	3.2	2.6	3.2	3.7	4.7	4.1	3.7	4.2	4.2	5.2	4.6	5	2.4	3.2	4	4.1	3	2.1	1.5	1.9	0.7	3.4
31	0	1.3	2.4	2.4	1.9	1.8	1.6	2.8	4.3	4.7	5.1	5.5	5.9	6.2	6	5	5.3	4.5	4.6	4	5.7	5.7	4.5	4.8	4
Avg	2.3	2.4	2.2	2.1	1.9	2	2.3	3.1	3.6	3.8	4	4.3	4.7	4.8	4.6	4.1	3.8	3.2	2.9	2.7	2.8	2.8	2.8	2.8	3.2
SD	1.5	1.4	1.3	1.3	1.4	1.4	1.4	1.5	1.4	1.4	1.4	1.4	1.3	1.2	1.4	1.5	1.3	1.3	1.2	1.3	1.3	1.3	1.4	1.6	0.8
S/A	0.65	0.6	0.57	0.59	0.71	0.69	0.59	0.46	0.4	0.36	0.34	0.32	0.27	0.24	0.3	0.35	0.34	0.4	0.4	0.47	0.47	0.47	0.5	0.57	0.26
Min	0	0.1	0	0	0	0	0.1	0.8	0.6	1	2	1.6	2.3	2.4	1.8	1.7	1	0.9	0.7	0.5	0.5	0.6	0.5	0.4	1.8
Max	5.9	5.1	4.7	5	5.2	4.9	5.6	6.3	7	7	6.7	6.9	7	7.7	8.6	8.1	7.8	6.6	5.2	5.5	5.7	5.7	6.5	7.1	4.6
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

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 2009

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	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1017	1016	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1016
2	1014	1014	1013	1013	1013	1013	1013	1014	1014	1013	1013	1012	1012	1011	1012	1012	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013
3	1013	1013	1013	1013	1013	1013	1014	1014	1014	1015	1015	1015	1014	1014	1013	1013	1013	1013	1013	1013	1014	1014	1015	1015	1014	1014
4	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015	1014	1013	1014	1013	1013	1013	1013	1013	1013	1013	1013	1013	1012	1014
5	1012	1012	1012	1012	1013	1013	1013	1013	1013	1014	1014	1014	1013	1013	1012	1011	1011	1011	1011	1011	1011	1013	1014	1013	1013	1013
6	1013	1013	1012	1012	1012	1012	1012	1013	1013	1013	1013	1012	1012	1011	1011	1011	1012	1011	1011	1011	1012	1013	1013	1014	1014	1012
7	1014	1014	1015	1015	1015	1016	1017	1018	1019	1020	1019	1019	1019	1019	1018	1018	1018	1018	1019	1019	1020	1021	1021	1021	1021	1018
8	1021	1021	1021	1021	1021	1022	1022	1022	1022	1023	1023	1023	1022	1022	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1021	1021
9	1020	1020	1020	1020	1020	1020	1020	1020	1020	1019	1019	1019	1018	1018	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1018
10	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1015	1014	1014	1013	1013	1013	1012	1012	1012	1012	1012	1012	1012	1014
11	1012	1012	1012	1011	1011	1011	1012	1012	1012	1012	1012	1012	1012	1011	1011	1010	1010	1010	1010	1010	1010	1010	1010	1010	1011	1011
12	1011	1010	1011	1010	1010	1011	1011	1012	1012	1012	1012	1012	1012	1011	1011	1011	1012	1012	1012	1012	1012	1013	1013	1013	1012	1012
13	1013	1013	1013	1013	1013	1014	1014	1015	1015	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1017	1017	1018	1018	1018	1016
14	1017	1017	1017	1017	1018	1018	1019	1019	1019	1020	1020	1019	1020	1020	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019
15	1019	1019	1018	1018	1018	1019	1019	1020	1020	1020	1020	1020	1020	1019	1019	1018	1019	1019	1019	1019	1019	1019	1020	1019	1019	1019
16	1019	1019	1019	1019	1020	1020	1021	1021	1021	1021	1021	1021	1021	1020	1020	1020	1020	1020	1019	1019	1020	1020	1021	1021	1021	1020
17	1020	1021	1020	1020	1020	1020	1021	1021	1022	1022	1022	1022	1022	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1021
18	1020	1020	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1018	1018	1017	1017	1016	1016	1016	1016	1017	1017	1017	1017	1017	1018
19	1017	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1016	1016	1015	1015	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015
20	1014	1014	1014	1014	1014	1015	1015	1015	1015	1016	1016	1016	1015	1014	1014	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014
21	1014	1014	1013	1014	1013	1014	1014	1014	1014	1014	1014	1013	1013	1012	1012	1011	1011	1011	1010	1010	1011	1011	1011	1011	1011	1013
22	1011	1010	1010	1009	1009	1009	1009	1009	1009	1010	1010	1011	1011	1011	1011	1010	1010	1010	1011	1011	1011	1012	1012	1013	1013	1010
23	1008	1008	1008	1008	1008	1009	1010	1010	1010	1011	1011	1011	1011	1011	1010	1010	1010	1011	1011	1011	1011	1012	1012	1013	1013	1010
24	1013	1013	1013	1013	1013	1014	1014	1014	1015	1015	1016	1016	1015	1015	1015	1014	1015	1015	1016	1016	1016	1016	1016	1016	1016	1015
25	1016	1017	1017	1017	1017	1017	1017	1018	1019	1019	1019	1019	1019	1018	1018	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1017
26	1018	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018	1018	1017	1017	1016	1016	1015	1015	1015	1015	1016	1016	1016	1016	1016	1017
27	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1016	1016	1016	1015	1015	1015	1015	1015	1015	1016	1016	1017	1017	1016	1016
28	1016	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1015	1014	1014	1013	1012	1012	1012	1012	1012	1012	1011	1010	1009	1014	
29	1008	1007	1006	1005	1005	1006	1005	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006	1007	1007	1008	1009	1009	1007	1007
30	1009	1009	1009	1009	1010	1010	1011	1011	1011	1012	1012	1011	1011	1011	1011	1011	1011	1011	1011	1012	1012	1013	1014	1014	1014	1011
31	1014	1013	1014	1014	1014	1014	1015	1015	1016	1016	1017	1017	1016	1016	1016	1016	1016	1016	1017	1017	1018	1018	1018	1018	1018	1016
Avg	1015	1015	1014	1014	1015	1015	1015	1016	1016	1016	1016	1016	1015	1015	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015
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	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	0
Min	1008	1007	1006	1005	1005	1006	1005	1006	1006	1006	1006	1006	1006	1005	1005	1006	1006	1006	1006	1007	1007	1007	1008	1008	1008	1007
Max	1021	1021	1021	1021	1021	1022	1022	1022	1022	1023	1023	1023	1022	1022	1021	1021	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021
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 2009

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