

July 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	3	54	216	416	607	777	747	790	504	393	234	517	380	265	80	8	0	0	0	0	5992	
2	0	0	0	0	4	59	227	432	631	767	706	656	736	893	837	577	454	289	97	8	0	0	0	0	7372	
3	0	0	0	0	3	77	231	439	638	806	935	1022	1015	977	869	659	490	284	98	8	0	0	0	0	8552	
4	0	0	0	0	3	58	226	431	631	803	930	1005	1011	952	844	686	488	283	97	9	0	0	0	0	8457	
5	0	0	0	0	4	56	223	426	623	791	920	992	999	944	835	679	482	275	93	7	0	0	0	0	8347	
6	0	0	0	0	3	51	211	414	608	776	905	973	986	827	806	636	443	246	77	6	0	0	0	0	7970	
7	0	0	0	0	3	47	198	387	584	750	873	943	989	718	545	607	397	168	39	6	0	0	0	0	7254	
8	0	0	0	0	4	39	95	262	553	760	872	966	950	808	736	503	421	156	48	5	0	0	0	0	7177	
9	0	0	0	0	1	42	194	254	305	683	911	962	936	839	373	260	261	200	39	3	0	0	0	0	6263	
10	0	0	0	0	2	40	52	196	406	591	779	631	591	273	84 ?	170	325	173	66	20	0	0	0	0	4400	
11	0	0	0	0	2	46	203	334	580	696	889	820	955	858	664	380	487	186	85	9	0	0	0	0	7194	
12	0	0	0	0	6	43	187	401	474	713	668	404	879	764	388	319	175	118	28	1	0	0	0	0	5567	
13	0	0	0	0	1	29	158	308	382	557	752	827	654	744	667	297	91	122	100	13	0	0	0	0	5704	
14	0	0	0	0	1	9	52	50 ?	155	455	533	476	552	291 ?	254	256	218	194	88	15	0	0	0	0	3599	
15	0	0	0	0	0	46	190	356	570	741	864	666	524	718	801	648	480	307	117	24 ?	0	0	0	0	7052	
16	0	0	0	0	0	35	142	253	532	665	767	847	913	853	753	640	445	205	74	1	0	0	0	0	7124	
17	0	0	0	0	0	27	118	275	456	629	756	607	601	542	222 ?	?	92 ?	147	33	4	0	0	0	0	4508 ?	
18	0	0	0	0	0	38	173	354	582	698	828	879	929	923	790	632	454	234	62	7	0	0	0	0	7584	
19	0	0	0	0	0	25	183	367	519	681	902	867	903	883	715	641	434	226	15	2	0	0	0	0	7363	
20	0	0	0	0	0	36	186	370	584	745	875	883	933	502	511	422	86 ?	?	7 ?	7	0	0	0	0	6147 ?	
21	0	0	0	0	0	38	158	338	545	726	825	864	869	945	600	389	397	153	40	1	0	0	0	0	6887	
22	0	0	0	0	0	32	175	373	566	740	871	871	583	542	744	617	431	238	67	10	0	0	0	0	6858	
23	0	0	0	0	0	36	152	327	462	495	727	887	863	722	626	81 ?	78	57	58	14	0	0	0	0	5584	
24	0	0	0	0	0	41	170	345	540	703	845	929	943	872	743	609	420	225	63	7	0	0	0	0	7454	
25	0	0	0	0	0	42	168	337	564	730	858	913	940	775	731	587	418	218	57	1	0	0	0	0	7340	
26	0	0	0	0	0	23	139	303	448	681	813	929	966	907	797	642	445	240	67	6	0	0	0	0	7404	
27	0	0	0	0	0	38	172	313	447	627	672	410	345	221	286	184	102	93	50	8	0	0	0	0	3968	
28	0	0	0	0	0	30	168	367	580	654	876	941	961	872	514	603	441	236	53	9	0	0	0	0	7305	
29	0	0	0	0	0	32	159	318	511	719	788	628	883	869	691	134	86	49	1 ?	0	0	0	0	0	5870	
30	0	0	0	0	0	31	159	360	573	488	904	858	966	919	797	529	437	233	69	3	0	0	0	0	7327	
31	0	0	0	0	0	19	125	283	508	674	648	677	993	709	467	566	323	184	50	3	0	0	0	0	6231	
Avg	0	0	0	0	1	39	168	335	521	688	814	810	835	744	610	482	345	200	62	7	0	0	0	0	6640	
S D	0	0	0	0	2	13	45	80	105	91	97	173	187	214	221	187	148	67	28	6	0	0	0	0	1270	
S/A	0	0	0	0	1.36	0.34	0.27	0.24	0.2	0.13	0.12	0.21	0.22	0.29	0.36	0.39	0.43	0.33	0.46	0.76	0	0	0	0	0	0.19
Min	0	0	0	0	0	9	52	50	155	455	533	404	345	221	84	81	78	49	1	0	0	0	0	0	3599	
Max	0	0	0	0	6	77	231	439	638	806	935	1022	1015	977	869	686	490	307	117	24	0	0	0	0	8552	
n	0	0	0	0	19	359	371	364	372	372	372	372	372	367	362	354	355	359	365	100	0	0	0	0	5235	

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.5% exceed the 15% QC threshold -- 5315 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.

July 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	*		
2	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
3	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
4	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
5	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
6	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
7	0	0	0	0	*	*	*	*	*	?	?	?	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
8	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
9	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
10	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
11	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
12	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
13	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	*	
14	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	N/A	N/A	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	N/A	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	N/A	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: 99.4% missing; 0.0% untested; 0.6% exceed the 15% QC threshold -- 5315 total daylight measurements.

Instrument: Eppley NIP Serial Number: 23398E6 Calibration Factor: 7.1447 $\mu\text{V}/\text{W}/\text{m}^2$ 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

July 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	4 ?	36	79	109	140	165	409	485	467	375	231	284	164	83	42	8	0	0	0	0	3081
2	0	0	0	0	5 ?	25	56	70	75	105	254	385	356	169	180	181	134	52	30	8	0	0	0	0	2086
3	0	0	0	0	5 ?	23	44	57	63	70	82	98	145	98	112	117	69	53	31	8	0	0	0	0	1074
4	0	0	0	0	4 ?	24	52	66	76	84	89	95	102	110	98	88	71	57	33	8	0	0	0	0	1057
5	0	0	0	0	5 ?	24	54	70	82	90	99	104	108	107	104	89	79	63	35	6	0	0	0	0	1122
6	0	0	0	0	3	27	66	90	111	123	129	136	160	216	189	192	156	110	48	6	0	0	0	0	1762
7	0	0	0	0	3	31	85	126	154	191	224	237	268	398	364	309	230	146	38	6	0	0	0	0	2811
8	0	0	0	0	?	38	95	176	287	199	204	176	214	259	379	304	256	111	37	5	0	0	0	0	2742
9	0	0	0	0	1	36	119	172	242	294	157	259	285	274	206	140	150	92	33	3	0	0	0	0	2462
10	0	0	0	0	1	40	52	157	323	444	478	586	468	243	79 ?	152	267	161	66	20	0	0	0	0	3537
11	0	0	0	0	?	27	67	146	187	318	181	272	184	220	231	202	165	118	46	9	0	0	0	0	2373
12	0	0	0	0	?	38	91	132	291	262	435	386	431	453	372	305	173	117	28	1	0	0	0	0	3514
13	0	0	0	0	?	23	144	267	305	356	316	395	372	349	338	156	91	118	95	13	0	0	0	0	3338
14	0	0	0	0	?	9	49	40 ?	155	391	472	422	445	240	236	248	202	164	73	17 ?	0	0	0	0	3164
15	0	0	0	0	0	28	88	123	140	161	213	285	310	281	219	181	207	199	96	24 ?	0	0	0	0	2555
16	0	0	0	0	0	29	108	204	204	323	327	322	319	284	237	197	140	114	53	1	0	0	0	0	2862
17	0	0	0	0	0	29	113	222	292	366	459	460	493	281	189 ?	?	80 ?	140	33	4	0	0	0	0	3161 ?
18	0	0	0	0	0	29	87	150	170	243	312	306	240	159	166	134	110	87	42	7	0	0	0	0	2242
19	0	0	0	0	0	22	118	152	221	224	272	305	242	234	260	187	138	107	15	2	0	0	0	0	2500
20	0	0	0	0	0	28	78	119	125	146	159	212	302	341	328	300	40 ?	18 ?	7 ?	7	0	0	0	0	2209 ?
21	0	0	0	0	0	34	93	146	187	242	265	306	287	288	437	308	200	137	40	1	0	0	0	0	2971
22	0	0	0	0	0	25	75	104	126	136	153	189	318	346	308	218	167	141	61	10	0	0	0	0	2378
23	0	0	0	0	0	34	95	165	266	367	370	332	334	386	305	76 ?	78	52	56	17 ?	0	0	0	0	2930
24	0	0	0	0	0	39	110	152	167	191	192	187	190	278	251	198	161	108	45	7	0	0	0	0	2276
25	0	0	0	0	0	38	89	125	142	156	177	209	220	258	242	190	153	110	45	1	0	0	0	0	2156
26	0	0	0	0	0	22	93	182	276	256	198	174	143	147	153	133	120	85	38	6	0	0	0	0	2026
27	0	0	0	0	0	36	97	176	288	419	490	407	345	221	281	184	102	90	49	8	0	0	0	0	3195
28	0	0	0	0	0	22	61	85	152	151	134	137	158	214	260	148	105	72	30	9	0	0	0	0	1736
29	0	0	0	0	0	24	78	153	203	213	256	305	245	220	193	116	86	49	3	0	0	0	0	0	2143
30	0	0	0	0	0	27	81	206	214	389	262	264	229	166	191	228	134	104	43	3	0	0	0	0	2540
31	0	0	0	0	0	21	103	203	260	207	415	434	165	308	374	213	226	134	43	3	0	0	0	0	3110
Avg	0	0	0	0	1	29	85	140	191	235	264	286	276	256	242	193	144	103	43	7	0	0	0	0	2488
S/D	0	0	0	0	2	7	24	53	76	107	124	110	88	91	69	58	40	20	6	0	0	0	0	0	673
S/A	0	0	0	0	1.6	0.24	0.28	0.38	0.4	0.45	0.47	0.43	0.4	0.35	0.37	0.36	0.4	0.39	0.47	0.78	0	0	0	0	0.27
Min	0	0	0	0	0	9	44	40	63	70	82	95	102	98	79	76	40	18	3	0	0	0	0	0	1057
Max	0	0	0	0	5	40	144	267	323	444	490	586	493	453	437	309	267	199	96	24	0	0	0	0	3537
n	0	0	0	0	9	348	372	366	372	372	372	372	372	369	364	355	361	361	367	98	0	0	0	0	5230

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.6% exceed the 15% QC threshold -- 5315 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.

July 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	22.2	21.9	21.8	21.7	21.4	21	22.1	23.5	24.9	26	26.6	26.8	26	25.3	24.5	25.1	25	24.7	23.6	22.4	21.8	21.3	20.5	19.7	23.3
2	18	17.4	17	17.1	16.7	17	19.2	21.8	23.8	24.4	24.8	24.8	24.8	25.5	25.6	25.3	24.6	24	23.2	21.8	21	20.6	19.9	19.1	21.6
3	18.5	17.1	15.8	14.9	14.5	15	17.7	20.1	22.7	24.4	25.3	25.7	26.1	26.2	26.5	25.7	25.2	24.7	24	22.7	21.9	21.4	20.6	20.1	21.5
4	19.4	18.7	18.2	17.6	17.4	18.1	19.6	21.9	23.7	25	26.9	28.4	28.8	29.8	29.6	29.7	29.6	28.8	27.1	25.8	24.8	23.9	23.7	23.2	24.2
5	22.2	21.5	21.1	20.5	20	19.9	21.1	23.2	25.6	27.6	29.3	31	32.6	32.9	33	32.9	32.4	32.3	31.1	28.6	27.1	26	25.2	24.4	26.7
6	23.6	23	22.5	22.1	21.7	21.5	22.6	25	27.2	30	31.9	33.8	34.8	35.6	36	34.8	33.5	33.2	32.3	30.6	28.4	27.4	26.7	26.2	28.5
7	25.3	25	24.7	24.6	24.3	24.2	25.2	27.9	30.8	32.9	34.2	35.8	37.1	37.2	36.4	36.4	35.5	32.3	30.1	28.9	27.5	26.5	25.7	25.4	29.8
8	25.1	25.2	25.3	25.2	25	25	25.2	25.9	27.7	28.8	29.1	29.3	29.3	29.4	29.1	28.1	28.1	26.8	26.2	25.5	24.9	24.5	24.2	24.1	26.5
9	23.9	23.5	23.2	23.5	23.9	24.3	24.9	25.6	26.5	27.6	28.5	28.8	29.6	29.8	28.9	28.2	29	28.4	27.6	26.8	25.8	25.4	25.2	25	26.4
10	24.9	25.1	25.3	25.3	24.9	24.5	24.5	24.8	26.4	27.3	28.8	29.5	30.2	30	26.6	24.8	26.3	26.7	26.5	25.7	25	24.5	23.9	23.4	26
11	23	22.7	22.1	21.7	21.3	21.2	22.1	23.9	25.3	26.4	27.3	28.8	29.9	30.6	31.2	31.6	30.6	30	29.3	27.4	26.7	26	25.5	25.3	26.2
12	24.9	24.5	24.2	24	23.7	23.8	24.9	26.6	27.6	28.6	29.2	29.1	30	30.6	30.2	29.9	29.6	29	28.4	27.7	27.5	27.4	27.2	26.6	27.3
13	26.4	26.4	26.3	23.9	23.3	23.7	24.9	26.2	26.5	27.4	28.5	29.9	30.4	31.6	31.7	30.2	26.1	25.7	26.4	26.5	27	27	26.9	26.8	27.1
14	26.7	26.8	26.7	26.4	26.4	25.2	24.2	24	23.4	25	27	27.6	28.5	26.8	24.7	25.7	26.5	26.9	27.4	26.3	25.4	25	24.8	24.7	25.9
15	24.5	24.3	24	23.7	23.5	23.4	24.2	25.7	28.3	30.8	32.1	32.5	31.5	31.7	32.4	31.7	30.9	30.1	29.6	28.3	27.4	26.8	26.2	26	27.9
16	25.5	25.1	24.8	25.3	25.4	25.5	26	26.6	27.8	29.3	29.9	30.7	31.5	32.6	33	33.5	33.6	33.1	31.8	30.2	29.5	28.8	28.3	27.9	29
17	27.4	26.9	26.5	26.4	26.4	26.5	26.7	27.3	27.9	29.2	30.1	31	31.6	31.8	25.2	22.4	22.6	23.6	23.7	24.2	24	23.8	23.5	23.5	26.3
18	23.5	23.2	22.9	22.7	22.8	23	23.8	25.4	26.8	28	29.3	30	31.3	32.2	32.7	32.9	32.9	32.4	31	29.4	27.7	26.7	26.2	25.9	27.6
19	25.9	25.6	25.2	25.3	25.3	25.1	25.6	27	28	28.9	30	31.1	31.9	32.6	32.8	33	32.5	32.2	30.9	27.9	27.9	27.8	27.1	26.1	28.6
20	26.2	26	25.9	25.7	25.5	25.4	26	27.2	28.7	29.9	31	32.2	33.4	33	33.5	33.9	27.6	25.3	25.8	26.7	27.6	27.4	26.4	25.9	28.2
21	25.4	24.9	24.9	24.7	24.8	25.4	26.2	27.2	28.3	29.7	30.5	31.7	32.4	33.3	33.5	33.3	33.8	32.8	31.9	30.8	29.9	29.5	28.8	27.9	29.2
22	27.2	26.6	26	25.5	25	24.9	25.9	27.6	29.7	31	31.7	32.7	32.9	32.9	32.3	32.3	31.7	30.9	29.4	28.5	27.8	27.1	26.6	26.6	28.9
23	26.6	26.7	26.4	26.3	26.4	26.4	27.3	28.7	29.9	30.6	31.3	32.7	33.7	34	34.4	30.8	26.6	27.2	28.1	28.3	28.1	27.9	27.3	26.9	28.9
24	26.7	26.7	26.6	26.3	26.2	26.2	26.8	27.5	28.9	30	31.2	32.6	33.9	34.5	34.8	35.3	34.7	34.1	32.9	31.8	31.1	30.2	29.5	29	30.3
25	28.6	28.2	27.6	27.2	26.9	26.8	27.4	28.3	29.5	30.8	32	33.3	34.4	35	35.6	36	35.7	35.1	33.9	32.6	31.8	31.2	27	25.8	30.9
26	25.5	24.9	24.8	24.8	25	24.9	25.3	26	26.7	27.1	27.6	28.5	29.3	29.6	29.7	29.6	28.8	28.1	27	26	25.4	25.1	24	23.8	26.6
27	22.9	22.7	23.1	22.9	22.1	22.7	24.6	25.9	26.5	27.4	27.6	27.4	27.6	27.5	27.6	27.6	27.6	26.6	26	25.6	25.4	25.3	25.1	25	25.5
28	24.8	24.4	24.5	24.1	23.8	23.8	25.3	26.5	27.9	28.6	29	29.8	30.6	31.3	31.5	31.5	31.2	30.3	28.8	27.4	26.8	26.4	26.1	25.7	27.5
29	25.6	25.5	25.4	25.2	24.9	24.8	25.6	26.8	27.9	29.6	30.6	31.3	32.5	33.3	33.1	28	26.1	26.3	26.2	23.8	22.6	22.8	23.2	23.5	26.9
30	23.3	23.1	23.2	23.2	23.2	23.3	23.9	24.3	25.3	25.8	26.4	27.3	28	28.4	28.6	28.1	27.9	27.1	25.3	23.6	22.8	22.5	22.2	21.9	24.9
31	21.6	20.8	20.6	20.8	20	20	20.8	22.5	25	26.2	26.5	27.2	27.6	27.3	26.9	26.8	26.4	25.8	24.9	24.3	24.3	24.4	24.2	23.9	24.1
Avg	24.4	24	23.8	23.5	23.3	23.3	24.2	25.5	26.9	28.2	29.2	30	30.7	31	30.7	30.2	29.5	28.8	28.1	27	26.3	25.8	25.2	24.8	26.9
SD	2.5	2.7	2.8	2.9	3	2.9	2.4	2.1	2	2.1	2.2	2.5	2.8	3	3.5	3.7	3.5	3.3	3	2.7	2.6	2.5	2.3	2.3	2.3
StA	0.1	0.11	0.12	0.12	0.13	0.12	0.1	0.08	0.07	0.08	0.08	0.08	0.09	0.1	0.11	0.12	0.12	0.11	0.11	0.1	0.1	0.1	0.09	0.09	0.08
Min	18	17.1	15.8	14.9	14.5	15	17.7	20.1	22.7	24.4	24.8	24.8	24.8	25.3	24.5	22.4	22.6	23.6	23.2	21.8	21	20.6	19.9	19.1	21.5
Max	28.6	28.2	27.6	27.2	26.9	26.8	27.4	28.7	30.8	32.9	34.2	35.8	37.1	37.2	36.4	36.4	35.7	35.1	33.9	32.6	31.8	31.2	29.5	29	30.9
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.

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

July 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	97.3	98	97.2	94.6	97.6	99.9	96.2	89.2	76.6	62.4	52.1	55.6	58	66.4	66.1	67	68.3	70.9	75.1	81.8	85.2	85.7	91.9	97	80.4
2	100.6	101.8	101.9	99.4	100.1	99.4	91.5	80.5	66.7	56	57.8	60.1	62.2	57.4	54.1	56	60.3	61.7	66.5	76.5	80.1	82.7	83.3	90.3	77
3	93.8	98.5	103.4	104 ?	?	103.7 ?	96.1	86.3	74.4	64.3	57.9	54.6	55.1	54.1	54.6	60.2	63.4	63.4	67.2	70.7	73.1	77.1	83.5	85.8	75.9 ?
4	91.3	96.6	100	102.6	104.2 ?	102.8	99.1	91.3	80	76	70.2	61	58	57.3	55.5	56.6	57.7	62.9	74.7	81.5	83.5	85.8	85.1	83.8	79.9
5	89.2	90.8	92.7	95.5	98.5	99.7	98	92.2	82.5	75.5	70.7	60.6	51.8	52.5	51	50.5	53.4	53.3	62.1	77.6	86.3	89.6	92.8	95.1	77.6
6	95.5	97.6	97.9	98.4	100.1	101.3	99.1	90.7	83	72.9	65.6	57.4	51.7	49.4	50.1	58.4	60.7	58.3	62.9	70.1	85.6	97.1	97.7	101.4	79.3
7	103.4	101.6	100.8	99	97.8	95.4	90.4	81.4	71.8	64.2	61.6	55.8	44.4	41.5	43.9	49	59.6	75.1	82	84.3	92	99.9	104.4 ?	?	78.2
8	?	?	?	?	?	?	104.6 ?	100.6	89.3	80.5	79.7	76.7	77.4	77.3	78.3	85	86.1	93.7	95.6	99.4	102.7	104.5	104.9 ?	?	90.4 ?
9	?	?	?	?	?	?	104.7 ?	102.3	97.7	93	87.1	87.1	83.6	83.6	86.4	89.7	85.5	87.8	91.3	95.9	100.5	101.3	102.3	102.6	93.5 ?
10	104.7 ?	?	?	102.3	101.6	102.3	102	101.7	97.3	96.6	91.9	88.5	85.8	88	94 ?	?	102.4 ?	101.4	97.7	98.1	99.9	101.1	102.7	102.8	98.2 ?
11	102.7	101.9	103.5	104.5 ?	?	?	104.4 ?	101.1	97.6	94.4	88.4	81.6	74	67.9	64.8	62.6	75	75.2	78.6	95.9	99.5	102.6	104.4 ?	?	89.5 ?
12	?	?	?	?	?	?	104.3 ?	101.6	96.5	90.8	84.5	85.8	79.6	71.3	75.1	75.5	78	84.3	92.7	98	99.9	101	101.4	104.2 ?	90.3 ?
13	?	?	?	?	?	?	?	102.7	101.4	98.3	93	88.1	87.8	83.4	82.8	89.6	103.2	?	104.8 ?	104.8 ?	102.9	102.9	103.5	103.8	97.1 ?
14	103.8	104	104.1	104.7	104.4	?	?	?	?	103.8 ?	99.7	97.5	95.7	101.6	104.1	100.8	99.3	98	98.3	101.1	103.1	104.6	104.9 ?	?	101.8 ?
15	?	?	?	?	?	?	?	102.5 ?	90	71.9	67.2	67.9	73.9	75.9	68.3	77.4	83.7	89.7	93.5	98	102.7	104.2 ?	?	104.6	85.7 ?
16	?	?	?	?	?	?	104.5 ?	102.9	99.2	95.1	91.8	88.4	83.5	78.8	76.3	75.2	72.3	75.3	86	92.6	96.1	99.7	99.5	99.2	89.8 ?
17	99.5	100	101.8	102.5	101.7	101.7	101.7	100.4	98.2	95.5	92.9	90.2	87.2	84.1	95.7	?	?	?	?	?	?	?	?	?	96.9 ?
18	?	?	?	?	104	103.1	101.8	98.7	96.2	92.8	90.1	89.6	84.2	81.4	79.7	78.3	75.7	81.9	85.1	91.5	92.3	95.6	97.8	99.5	91 ?
19	99.6	103.2	104.9 ?	103.9	100.1	100.6	101.5	99	95.8	92.6	88.3	84.8	80.7	77.8	76	79.2	79.2	78.8	84.1	100.9	103.5	101.8	98.7	103.6	93.3
20	104	103.7	103.1	103.8	105 ?	?	104.7 ?	102.3	97.4	93.1	89.2	86.6	81.4	83	81.1	78.1	90.2	92.7	94.2	93.4	92.4	90.1	96.9	98.1	94.1 ?
21	99.1	100.9	100.3	103.5	?	104.8 ?	103.5	100.5	97.7	93.4	90.2	85.5	84.2	80.5	79.8	78.5	77.6	81	84.6	90.3	94.4	96.9	98.5	99.6	92.4
22	102	102.5	103.3	103.7	104.9 ?	?	103.2	97.5	85.4	79.4	77.6	73.2	72.8	74.9	79.1	78.2	79.9	83.7	87.7	93.1	97.3	100.8	103.6	104.8 ?	90.8 ?
23	?	?	?	?	?	105 ?	102.6	97.4	95.5	95	93.9	88.6	84.6	83	82.1	92	103.2 ?	104.7	103.1	101.3	101.3	100.6	102.8	104	96.9 ?
24	104.5	103.8	103.4	104.4	104.7	104.9	103.9	102.2	98.8	96.3	93.5	88.9	85.4	82.6	82.3	80.5	83.7	86.8	90.2	93.5	94.6	98	100	101.2	95.3
25	102	102.6	103.7	103.9	104.4 ?	?	103.8	100.8	97.8	94.1	90.4	86.3	82.1	78.1	74.7	72.7	74.4	76.8	82.7	85.8	90.7	89	98.9	101	91.2
26	103.1	?	104.8 ?	104.7	104.2	104.7	101.7	95.7	94.7	90	72.5	66.4	65.6	63.2	64.8	65.2	65.9	68.3	74.8	80.6	84.8	86.9	93	94.6	84.8
27	101.5	103.4	100.7	102	104.6 ?	102	95.8	86.3	80.4	74.6	71.8	70.2	69.8	69.2	67.5	68.3	71.6	80.2	83.5	85.5	88	90.5	90.7	93.1	85.5
28	96.3	99.4	100.2	102.3	103.8	104.5	100.7	97.1	90.4	82.5	80	76.5	72.4	71.2	73.8	74.1	74.4	78.2	83.3	88.6	93.1	97	100	103	89.3
29	104.4	104.9 ?	?	?	?	?	?	103	99.3	94.4	91.4	87.7	82.7	77.1	77.8	95.2	103.7	102	103.9 ?	103.3 ?	?	?	?	?	95.4 ?
30	?	?	?	?	?	?	100.5	95.1	93.3	93.7	91.3	88.8	85.9	80.5	69	71	73.6	81.6	89.2	95.2	99.3	100.2	100.7	101.3	89.5 ?
31	101.8	104.7 ?	?	104.8 ?	?	?	102.5	96.9	82.7	73.7	68.2	63.6	64.1	65.4	71	73.2	75.3	79.9	85.7	90.5	90.1	87	91.4	94	84.1 ?
Avg	100	101	101.5	102.1	102.3	102.1	100.8	96.7	90.3	85.1	80.7	77.2	74.4	72.8	72.9	73.7	77.9	80.3	85.4	90.7	93.6	95.7	97.7	98.7	88.9 ?
S D	4.4	3.4	3	3	2.6	2.6	3.9	6.5	9.5	12.7	13.1	13.2	13	13	13.9	13.1	14.2	13.2	11.5	9.4	7.9	7.5	6.4	5.8	7
S/A	0.04	0.03	0.03	0.03	0.03	0.03	0.04	0.07	0.11	0.15	0.16	0.17	0.18	0.18	0.19	0.18	0.18	0.16	0.14	0.1	0.08	0.08	0.07	0.06	0.08
Min	89.2	90.8	92.7	94.6	97.6	95.4	90.4	80.5	66.7	56	52.1	54.6	44.4	41.5	43.9	49	53.4	53.3	62.1	70.1	73.1	77.1	83.3	83.8	75.9
Max	104.7	104.9	104.9	104.8	105	105	104.7	103	101.4	103.8	99.7	97.5	95.7	101.6	104.1	100.8	103.7	104.7	104.8	104.8	103.5	104.6	104.9	104.8	101.8
n	253	229	215	232	179	176	268	357	360	366	372	372	372	372	368	347	348	348	346	345	346	345	311	286	7518

Data Recovery: 0.0% missing; 0.0% untested; 15.8% 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

July 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	22	22	21.9	21.7	21.3	21	22.3	25.4	28.2	30.4	32.2	32.9	32.9	31.8	29.9	28.8	29.7	29.9	28.7	25.5	22.6	20.9	19.8	18.5	25.8
2	17.2	16.3	15.7	15.4	15.2	15.3	18.1	22.7	27	29.4	30.3	30.3	30.1	30.2	30.6	31.2	30.7	29.5	28.1	25.3	22.1	20.4	19.1	18.2	23.7
3	17.1	15.9	14.7	14	13.4	13.4	16.1	20.8	25.1	29	31.5	32.3	32.1	31.7	32.1	32.5	31.7	30.8	29.2	26.4	23.2	21.5	20.3	19.3	23.9
4	18.4	17.5	16.5	15.8	15.7	16.3	19.2	23.6	27.5	29.7	32.1	34.3	34.9	34.7	35.2	35.3	35.4	35	33.1	29.6	26.4	24.5	23.4	22.9	26.5
5	22.4	21.5	20.8	20.1	19.5	19.4	21.4	24.9	28.4	31.7	34.4	36.5	37.6	37.9	38.5	38.8	38.7	38	36.9	33.4	29.2	27	25.6	24.8	29.5
6	23.8	23	22.3	21.8	21.4	21.2	22.9	26.5	30.2	33.7	37	39.1	40.2	40.7	41.4	42.4	40.9	39.3	37.5	34.1	30.2	27.8	26.6	25.9	31.2
7	25.3	24.6	24.2	24	23.9	23.8	25.3	29	33.6	37.1	39.2	40.8	42.2	42.6	42	41.6	41.9	40	35.4	31.9	29.2	27.5	26.5	25.8	32.4
8	25.3	25	25	25.2	25.1	25.1	25.6	26.3	29.4	32.6	34.7	35.4	35.1	34.7	34.8	34.1	33.9	32.3	29.8	27.5	25.9	25	24.6	24.3	29
9	24	23.7	23.3	23.3	23.5	23.9	25.3	27.3	28.6	30.3	33.4	34.8	35.5	35.8	35.4	32.7	33.1	32.7	31.6	29.4	27.2	25.9	25.3	24.9	28.8
10	24.8	24.7	24.8	25	25.1	24.9	25	25.3	27.9	30.4	33	35.2	35.5	35.5	32.8	27.9	26.8	28.3	28.7	27.6	26.1	25	24.3	23.6	27.8
11	22.9	22.5	22.1	21.6	21.2	21	22.6	26.2	29	31.9	33.4	34.9	36.2	36.5	36.9	37.7	37.5	36.2	34.1	31.3	28.4	26.9	25.9	25.3	29.3
12	24.9	24.4	24	23.7	23.4	23.3	24.3	28.3	31.5	32.7	34.5	34.3	34	34.7	34.7	34	32.8	31.7	30.5	29.2	28.3	27.9	27.6	27.1	29.2
13	26.4	26.1	26	25.5	24	23.5	24.1	26.7	28.7	30.6	32.8	34.8	35.6	36	36.7	36.9	31.7	27.5	26.8	26.9	26.7	26.9	27	26.9	29
14	26.8	26.8	26.9	26.8	26.6	26.2	25.1	24.6	24.1	24.9	28.4	30.9	32.1	32.5	28.5	27.4	28.3	28.8	30.2	29.3	27.1	25.6	24.9	24.6	27.4
15	24.4	24.3	24.2	24.1	23.7	23.5	24.5	28.1	32.3	36.6	39.8	41.3	39.5	37.5	37.6	38.2	37.4	36.3	34.7	32.1	29.2	27.6	26.6	26.1	31.2
16	25.6	25.2	24.8	24.9	25.4	25.7	26.6	28	30	33.6	35.7	36.3	36.7	36.9	37.7	38.4	38.8	38.3	36.5	33.6	31.1	29.8	29	28.5	31.5
17	28.1	27.5	26.9	26.4	26.2	26.3	26.8	27.9	29.9	32.2	34.4	35.7	36	36.6	32.1	26.4	24.1	23.9	24.3	24.2	24.1	23.9	23.7	23.5	28
18	23.4	23.3	23.1	22.8	22.7	22.8	23.9	26.6	29.2	32.1	33.9	35.5	36	36.3	37	37.8	38	37.7	35.9	32.8	30.1	28.3	27.1	26.4	30.1
19	26.2	26	25.6	25.3	25.2	25.1	25.6	28.2	30.8	32.4	34	35.3	35.9	36.2	36.8	37.5	37.7	37.1	35.1	31.8	28.3	27.6	27.5	27	30.8
20	26.3	26.1	25.9	25.8	25.6	25.4	26.4	29.1	32.2	34.9	36.6	37.8	38.3	38.3	37.9	38.1	36.7	30.2	27.5	26.8	27	27.4	27.2	26.6	30.6
21	26.1	25.6	25.2	24.9	24.6	24.8	26.1	28.4	31.2	33.6	35.7	36.8	37.3	37.5	38.3	37.9	37.6	37.4	35.2	33	31.3	30.2	29.7	29	31.6
22	28.2	27.4	26.8	26	25.4	25	26	29.5	33.6	36.6	38.1	39.7	40.3	39.4	39.2	39.1	38.8	37.2	34.4	31.4	29.3	28	27.2	26.6	32.2
23	26.3	26.3	26.2	26	25.9	25.9	27.1	30	33.1	35.2	36	37.7	38.8	39.3	40	38.6	32.1	28.6	28.3	28.6	28.4	28.1	27.8	27.3	30.9
24	27	26.7	26.6	26.5	26.2	26.2	27.1	29.1	31.6	34.1	35.9	37.2	38.4	39	39.7	40.3	40.4	39.4	37.6	34.8	32.7	31.4	30.4	29.6	32.8
25	29	28.6	28.1	27.6	27.3	27	27.8	29.9	32.5	35	36.7	38	38.7	39.1	39.6	40.4	40.8	40.2	38.4	35.7	33.5	32.4	30.8	27.3	33.5
26	25.8	25.1	24.7	24.5	24.5	24.7	25.1	27	29.2	31.1	32.8	33.9	35	35.1	35.7	36.5	36.2	34.8	32.6	29.3	26.5	25	23.8	22.5	29.2
27	21.8	21.2	20.9	21	20.8	20.7	22.5	26.4	28.8	31.1	32.7	32.8	32.1	31.6	30.9	31	30.6	29.6	28.4	27.2	26.3	25.8	25.5	25.3	26.9
28	25	24.4	24.1	23.8	23.4	22.9	24.6	29.1	32.4	34.7	35.8	36	36	35.8	36.3	36.6	37	36.4	34.2	30.7	28.3	27	26.3	25.8	30.3
29	25.5	25.4	25.2	25.1	24.9	24.7	25.7	28.6	31.3	34	36.5	37.3	37.6	38.4	38.6	36.3	30.5	28.2	27.4	26.1	24	23.1	22.9	23.2	29.2
30	23.5	23.4	23.1	23.1	23.2	23	23.9	26.1	28.3	30.4	31.1	32.4	32.9	33	33.3	33.5	33.1	32.5	30.6	27.1	24.2	22.7	21.8	21.2	27.4
31	20.7	20	19.5	19.4	19.2	19	19.3	21.4	25.8	29.7	31.6	32.3	32.9	32.7	32.2	31.7	31.6	30.8	28.7	26.2	24.9	24.5	24.3	24	25.9
Avg	24.3	23.9	23.5	23.3	23	22.9	24.1	26.8	29.7	32.3	34.3	35.6	36	36.1	35.9	35.5	34.7	33.5	31.9	29.6	27.5	26.3	25.6	24.9	29.2
S D	3	3.1	3.3	3.4	3.4	3.4	2.8	2.4	2.4	2.6	2.6	2.7	2.8	2.9	3.5	4.3	4.5	4.4	3.8	3.1	2.8	2.8	2.9	2.8	2.5
S/A	0.12	0.13	0.14	0.15	0.15	0.15	0.12	0.09	0.08	0.08	0.08	0.08	0.08	0.08	0.1	0.12	0.13	0.13	0.12	0.11	0.1	0.11	0.11	0.11	0.08
Min	17.1	15.9	14.7	14	13.4	13.4	16.1	20.8	24.1	24.9	28.4	30.3	30.1	30.2	28.5	26.4	24.1	23.9	24.3	24.2	22.1	20.4	19.1	18.2	23.7
Max	29	28.6	28.1	27.6	27.3	27	27.8	30	33.6	37.1	39.8	41.3	42.2	42.6	42	42.4	41.9	40.2	38.4	35.7	33.5	32.4	30.8	29.6	33.5
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

July 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	1.1	1	1.8	1.7	0.8	1.5	1.9	2.6	3.1	2.7	2.8	2.5	2.5	3.2	2.9	2.7	2.6	2.7	3.1	1.5	1.2	1.2	0.7	0.3	2
2	0.5	0.5	0.9	0.8	0.9	1	1.1	1.6	2.1	3	3	3.1	2.8	3.1	3.1	2.9	3.5	3.6	3	2.6	2	0.9	0.8	0.6	2
3	0.2	0	0.4	0.3	0.4	1	1	2	1.7	1.6	2.1	2.5	2.3	2.3	2.3	3.5	3.2	2.9	2.6	1.9	1.7	1.4	0.6	0.7	1.6
4	0.1	0	0	0.3	1	0.7	1.4	1.5	2.8	2.5	1.7	1.7	1.9	1.8	3	3.5	2.9	3	3.1	2.4	2.3	2.1	2.8	2.9	1.9
5	2.1	1.7	1.8	1	1.6	1.1	1.8	2.6	2.6	2.2	1.9	1.7	1.7	1.9	2.9	3	3.1	2.2	1.9	1.5	1.9	2.3	2.7	2.1	2
6	1.7	1.3	1.3	1.9	1.2	1.2	1.5	2.3	2.4	1.9	2	1.9	2.2	2	1.7	3	3.1	2.1	1.4	0.5	0.5	1	0.9	1.2	1.7
7	0.8	1.1	1.5	1.4	1.5	1.2	1.3	1.1	1.8	2.7	2.8	2.1	2.5	2.9	3.1	2.6	2.9	3	1.9	0.7	1.2	1.6	1.5	1.2	1.9
8	1.5	1.3	0.7	0.9	1.7	1.8	2.4	2.5	2.9	3.4	3.1	3.6	3.8	3.5	4	3.4	3.5	2.8	2.2	1.8	2.1	1.8	1.4	1.8	2.4
9	1.7	1.2	1.4	2.2	2.8	2.8	2.5	2.8	2.5	3	3.8	3.5	3.2	3.4	2.7	1.1	2	2.2	1.2	0.9	1.1	0.8	0.4	1	2.1
10	0.8	0.7	1.4	2.2	1	0.6	0.9	1.3	2.3	2.8	2.7	2.5	2.1	2.9	2.2	1.9	1.5	1.5	1.8	1	1.2	1.5	1.2	1	1.6
11	1.2	1.7	1.8	1.3	1.5	0.8	1.1	1.5	1.7	2.2	2	1.3	1.8	1.7	1.5	0.7	2.9	2.5	2.6	2.6	2.2	1.7	1.5	1.4	1.7
12	0.9	0.4	0.3	0.2	0	0.1	0.1	1.6	3.3	3.2	3.5	2.7	3.9	4.8	3.9	3.9	2.9	3.6	2.6	2.8	2.7	2.6	1.9	1.2	2.2
13	0.6	0.6	0.9	1.5	0.9	0.4	1.3	2.8	2.5	2.8	2.7	3.1	3	3	3.3	4.1	3.3	2.5	1.8	2.1	3.3	3.9	4	3.6	2.4
14	3.3	3.4	3.4	3.1	3.1	2.2	1.7	2.6	1.7	2.3	2.5	3	2.8	2.7	2.1	1.6	2.2	0.7	1	1	0.2	0.4	0.4	0.6	2
15	0.2	0.6	0.6	0.1	0.1	0.1	0	0.5	0.7	0.8	0.8	1.2	1.9	2.8	2.7	3.9	3.8	3.5	2.1	1.2	0.8	1	1.9	1.6	1.4
16	1.5	1	1.7	2.1	1.6	1.2	1.3	2.8	2.5	2.5	3.1	3.3	3.5	3.2	3.5	3.4	3.2	2.4	2.6	1.6	2.4	3.7	3.9	3.8	2.6
17	3.3	2.3	1.7	1.7	2.2	2.6	3	3.3	3.9	3.3	4	3.4	3.1	3.7	5.3	3.7	0.4	1	1.4	2.2	0.7	0.7	0.7	1.4	2.5
18	1.1	1.6	2	2.3	2.7	2.6	2.9	3.3	3.4	3.3	2.7	3	3.1	3.2	3.4	3.8	3.4	3	3.4	3.2	4.1	2.9	1.7	1.8	2.8
19	2.9	2.2	2	2.8	2.9	2.8	3	3.8	4.2	4.3	5.2	4.2	4.8	4.5	4.6	4.4	4.9	4.2	3.9	1.6	3.2	3.3	3.3	2.9	3.6
20	2.9	2.5	2.8	2.8	2.5	2.4	2.3	2.5	2.6	2.7	2.7	2.8	3	2.7	2.8	1.9	4	1.4	1.5	1.5	2	2	1	1.9	2.4
21	2	1.5	1.9	1.3	1.9	2.9	3.1	3.3	3.4	3.2	3.4	3.2	3.5	4	3.7	3.4	2.8	2.7	1.3	0.9	0.7	1.6	2.8	2.4	2.5
22	1.9	2.2	1.5	1.4	1.1	1.3	1.4	1.4	1.6	2.2	2.1	1.1	1.3	1.4	2.4	2.4	3.2	3.3	2.7	2	2.3	2.3	1.4	1.5	1.9
23	1.2	1.4	1	0.4	0.7	1	1.5	2.3	1.9	2.5	3	3.4	2.8	2.7	3	3.8	1.9	0.5	1.9	2.8	2.7	2.8	1.8	1.9	2
24	1.5	1.8	2.2	1.6	2.1	2.1	3.1	3.9	3.4	3.5	3.5	3.1	2.8	3.5	3.8	3.8	4.2	4	4.2	3.8	3	3	2.7	2.4	3
25	2.8	2.4	2.6	3	2.8	2.5	3.3	3.3	3.4	3.6	3.7	3.4	3.5	3.8	3.9	3.6	3.8	3.5	2.5	2.8	2.5	3.1	3.6	1.6	3.1
26	0.1	0.2	0.6	0.8	1.1	1.3	2.3	2.8	3.2	3.4	3.2	2.4	2.3	2	2.4	2.7	2.9	2.7	2	1.3	0.5	0.4	0.1	0.1	1.7
27	0	0	0.3	0.1	0	0.2	1.5	2.4	2.4	3.2	3.5	2.8	2	1.5	1.4	0.8	0.7	2.3	2.5	2	1.6	1.2	1.1	0.5	1.4
28	1	0.5	0.3	0.1	0	0	0.2	1.5	2	2.1	3.3	3.1	3.6	3.3	2.5	3.2	3.8	4.1	4	2.8	2.4	2	1.7	1.7	2
29	2	2.1	2.1	1.9	1.1	0.7	1.7	2.2	2.6	2.5	2.9	2.4	2.3	3.4	4.6	5	2.9	2.6	1.5	2.1	1.2	0.4	1	0.2	2.1
30	1.5	1.9	1.9	1	0.7	1.1	2.6	3.4	3.2	3.4	3.8	3.7	3.7	3.8	4.2	3.2	3.5	3.3	2.8	2.2	1.5	1.4	1.2	0.8	2.5
31	0.4	0.2	0.3	0.3	0.4	0.5	1.1	1	1.7	2.5	2.9	2.6	3.1	3.3	2.9	3	2.6	2.4	1.9	1.6	1.2	0.7	0.7	0.5	1.6
Avg	1.4	1.3	1.4	1.4	1.4	1.3	1.8	2.3	2.6	2.8	2.9	2.7	2.8	3	3.1	3	3	2.7	2.3	1.9	1.8	1.8	1.7	1.5	2.2
S/D	0.9	0.9	0.8	0.9	0.9	0.9	0.9	0.9	0.8	0.7	0.8	0.8	0.8	0.8	0.9	1	0.9	0.9	0.8	0.8	0.9	1	1.1	1	0.5
S/A	0.69	0.69	0.59	0.68	0.67	0.66	0.51	0.37	0.3	0.25	0.28	0.28	0.28	0.29	0.3	0.34	0.32	0.35	0.35	0.41	0.52	0.55	0.64	0.63	0.24
Min	0	0	0	0.1	0	0	0	0.5	0.7	0.8	0.8	1.1	1.3	1.4	1.4	0.7	0.4	0.5	1	0.5	0.2	0.4	0.1	0.1	1.4
Max	3.3	3.4	3.4	3.1	3.1	2.9	3.3	3.9	4.2	4.3	5.2	4.2	4.8	4.8	5.3	5	4.9	4.2	4.2	3.8	4.1	3.9	4	3.8	3.6
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

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

July 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	355	347	354	1	1	342	358	4	26	23	29	36	49	55	55	58	63	65	65	57	58	51	11	347	35
2	316	302	305	311	304	307	312	312	348	7	17	34	28	34	56	33	45	50	49	63	68	62	47	6	26
3	34	349	324	296	292	302	323	331	359	34	40	73	103	107	99	115	131	133	125	125	138	139	151	170	100
4	168	0	143	239	253	247	261	250	266	265	239	202	190	198	161	169	173	146	127	145	168	180	189	192	190
5	198	198	199	219	228	225	234	258	268	257	243	234	209	186	166	165	179	179	161	141	182	186	192	199	202
6	224	225	228	233	235	232	244	266	266	291	282	300	311	354	349	76	91	105	124	122	134	123	158	187	250
7	233	244	253	257	277	281	297	309	321	341	355	337	328	358	357	27	53	47	44	38	25	36	55	56	355
8	52	71	64	52	52	59	65	62	41	55	41	49	47	45	51	49	54	31	28	1	358	345	323	341	41
9	331	310	303	312	341	347	352	13	20	39	49	56	53	54	50	51	57	90	91	114	130	138	138	139	33
10	160	165	202	234	238	229	216	217	210	218	227	231	213	205	251	268	297	307	293	291	287	272	261	257	239
11	266	284	295	295	293	278	281	309	306	335	338	329	323	276	291	24	136	112	111	109	123	130	137	146	309
12	163	147	126	126	203	119	252	135	147	142	143	149	143	132	135	130	132	125	128	134	148	150	157	153	139
13	161	157	170	168	147	169	172	190	202	209	227	192	184	184	176	170	189	189	187	186	188	191	191	189	187
14	191	190	193	192	194	200	203	202	220	205	201	186	187	197	176	175	184	299	167	146	147	187	165	196	192
15	219	229	208	273	233	204	249	219	275	311	94	80	103	144	138	125	116	131	166	160	164	169	182	189	143
16	195	200	191	194	197	226	216	235	242	204	203	195	213	210	218	197	204	201	191	195	186	188	191	193	203
17	195	202	209	206	206	207	207	223	229	225	240	233	213	229	171	216	332	167	181	192	237	209	216	213	212
18	203	224	224	224	230	230	229	238	247	255	221	215	221	213	206	202	216	205	205	201	221	227	215	198	220
19	192	189	193	191	194	195	200	207	219	218	230	222	212	205	202	190	186	185	188	224	187	192	189	194	201
20	211	220	223	227	228	234	237	248	236	228	226	216	221	222	218	195	332	87	158	170	178	201	208	202	221
21	221	197	200	223	222	227	227	224	230	235	225	207	208	200	210	226	228	226	219	202	202	197	194	210	216
22	218	212	237	243	245	248	265	293	338	10	34	9	77	119	150	129	126	122	108	112	126	123	132	140	135
23	143	162	165	180	192	191	191	191	179	175	167	177	177	170	162	191	197	169	181	190	187	193	193	207	181
24	198	220	226	200	212	205	224	229	228	228	230	218	199	203	187	186	188	189	189	192	194	192	195	213	205
25	226	224	226	228	228	229	231	237	234	227	223	207	202	207	201	207	204	206	214	222	220	295	8	42	223
26	310	260	303	317	352	4	34	44	46	47	44	53	44	42	64	60	77	82	93	116	117	98	157	16	53
27	0	0	78	76	72	104	101	110	121	120	115	117	134	151	125	110	85	91	90	99	111	128	136	135	114
28	142	155	147	168	0	0	190	198	189	185	158	159	175	189	185	168	164	156	154	164	166	168	178	196	170
29	192	191	190	194	198	198	202	211	211	194	191	193	184	164	169	188	194	187	190	347	176	234	258	297	192
30	329	336	332	316	322	327	358	7	9	9	14	19	22	23	31	26	8	22	42	37	41	37	350	17	13
31	27	341	348	354	337	341	348	354	44	41	60	62	77	89	84	83	77	74	66	72	82	96	60	7	64
Avg	206	213	223	228	233	239	241	242	247	240	210	180	174	169	158	155	145	134	140	149	167	179	184	191	188
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

July 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	2	3	3	1.6	2.6	3.4	4.7	5.3	4.7	5	4.7	4.2	5.4	4.9	4.7	4.6	4.6	5.2	2.7	2.1	2	1.3	0.6	3.5
2	0.9	1	1.4	1.6	1.6	2	2.7	3.3	4.3	5.3	5.5	5.9	5.7	5.7	5.7	5.1	6	6.2	5.2	4.5	3.6	2.1	1.6	1.2	3.7
3	0.6	0	0.7	0.7	0.9	1.9	2.5	3.7	3.3	3.2	4.2	4.7	4.3	4.1	4.4	5.6	5.4	4.8	4.1	3.2	2.7	2.4	1.6	1.5	2.9
4	0.6	0	0.1	0.5	1.6	1.4	2.8	3.2	5	4.6	3.6	3.5	3.9	3.8	5.1	5.7	5	4.9	5.1	4	4.1	3.8	4.4	4.8	3.4
5	3.3	3	3.1	2.1	2.6	2.1	3.1	4.9	5.1	4.1	3.8	3.4	3.4	3.9	4.9	5.2	5.1	3.9	3.4	2.4	3.3	3.9	4.4	3.4	3.7
6	3.1	2.6	2.4	3.1	2.1	2.1	3	4.4	4.2	3.8	4.3	4.2	4.4	4.1	4	5.3	5.1	3.4	2.3	1.1	1.1	1.8	1.9	2.2	3.2
7	1.8	2.1	2.4	2.5	2.8	2.6	2.8	2.6	3.6	5	4.8	4.4	5	5.5	5.5	5	5.1	5.3	3.6	1.9	2.4	3.1	2.9	2.4	3.6
8	2.9	2.6	1.8	2	3.2	3.5	4.4	4.4	4.8	6.1	5.5	6.3	6.9	6.5	7	6.2	6.1	5.1	4.5	3.5	3.9	3.6	3	3.4	4.5
9	3.4	2.9	3.3	5.4	5.4	5	4.4	5.2	4.6	5.2	7	6	6	6.2	4.8	2.4	3.5	3.8	2.2	1.7	2	1.6	1.4	2	4
10	1.9	2	2.7	4.1	2	1.7	2.1	2.7	4.3	5.2	5.2	4.6	4.2	5.3	4.7	4.3	3.8	3.4	4.1	2.5	2.7	3.1	2.4	1.9	3.4
11	2.4	3.6	4.1	3.4	3.5	2.3	3	3.3	3.5	4.2	4	2.9	4	3.7	3.1	1.9	4.4	4.1	4.2	4.5	3.7	2.9	2.6	2.7	3.4
12	2.2	1.3	1	0.8	0.1	0.4	0.7	3	5.3	5.2	5.6	4.5	6.3	7.7	6.2	6.3	4.9	5.5	4.4	4.7	4.7	4.6	3.5	2.6	3.8
13	2	1.8	2.2	3.3	2	1.2	2.6	4.8	4.4	5.1	4.6	5.4	5.1	5.3	5.5	7.5	5.9	4.5	3.6	4.2	5.7	6.7	6.7	6.4	4.4
14	5.8	5.9	5.9	5.2	5.4	4.6	3.5	5	3.6	4.7	4.7	5.4	4.9	5.2	3.9	3.2	4	2.2	2	2.1	1	1.3	1.5	1.7	3.9
15	0.7	1.4	1.6	0.3	0.5	0.4	0.4	1.4	1.6	2.1	1.9	2.5	3.6	5	4.8	6.2	6.1	5.4	3.8	2.5	1.8	2.1	3.6	3.2	2.6
16	3	2.4	2.9	3.9	3.5	2.8	3.2	5	4.5	4.5	5.3	5.4	6.1	6.1	6.5	5.9	5.7	4.6	4.5	2.7	4.2	6.3	6.4	6.3	4.6
17	5.8	4.7	3.8	3.9	4.6	5	6.1	6.8	6.9	6.3	6.7	6.2	5.6	7	8.4	7	1.1	2	3	4.1	1.8	2.2	2.2	3.4	4.8
18	3	3.4	4.2	4.3	4.7	4.5	5.1	6	6.4	5.8	5.1	5.6	5.9	5.8	6	6.9	6.5	5.8	6.4	5.9	7.7	5.2	3.5	3.6	5.3
19	4.9	4.3	3.7	4.7	5	5.2	5.7	7.4	8.1	8.6	9.6	8.2	8.5	8.3	8.3	7.5	8.5	7	6.6	3.7	5.6	5.4	5.6	5.4	6.5
20	5.4	4.7	4.9	4.8	4.6	4.2	4.1	4.5	4.7	4.6	4.6	5	5.2	4.6	4.8	3.4	8.1	2.9	2.8	2.8	3.9	3.9	2.2	3.7	4.3
21	3.9	2.8	3.2	2.8	3.8	5	5.7	6.1	6	5.9	6.1	6	6.2	7	6.8	5.8	4.9	4.8	2.7	2.1	1.9	3.2	4.8	4.9	4.7
22	3.7	4.1	3.5	2.8	2.7	2.7	2.9	3.3	3.3	4.1	3.8	2.7	2.6	3	4.2	4.4	4.8	5.3	4.8	4	3.9	3.9	2.6	2.7	3.6
23	2.6	2.6	2.4	1.5	1.9	2.1	2.9	3.9	3.4	4	5.1	5.4	5.5	4.6	5.1	6.5	3.7	1.6	3.3	4.7	4.4	4.7	3.6	4.3	3.7
24	3	3.7	3.8	3.3	4.1	4.2	5.6	6.4	5.8	5.9	5.8	5.4	5	5.7	5.9	6.8	6.9	6.8	6.7	6.2	5.3	5	4.9	4.7	5.3
25	5.1	4.7	4.6	5.1	5.1	4.6	5.8	5.7	5.8	6.2	6.6	6.3	6.5	6.7	7	6.7	7.3	6.5	5	5.1	4.7	5.9	6.6	3.4	5.7
26	0.3	0.7	1.6	1.9	2.6	2.5	4.4	5.1	5.4	5.8	5.9	4.4	4.4	4.1	4.3	4.7	4.9	4.6	3.3	2.2	1.3	0.9	0.3	0.2	3.2
27	0	0	0.5	0.1	0.1	0.7	2.7	4.1	4.1	5.2	6	4.4	3.4	2.7	2.4	1.7	1.6	3.7	4.3	3.3	2.8	2.3	2.3	1.3	2.5
28	2	1.4	1.1	0.5	0	0	0.5	2.6	3.8	3.9	5.5	5.6	5.8	6.4	4.4	5.8	6.2	7	6.6	4.9	4.4	3.7	3.3	2.9	3.7
29	3.4	3.6	3.7	3.4	2.3	1.9	3.4	4.2	4.6	4.5	5	4.4	4.3	6	7.8	8.5	5.3	4.6	3	4.1	2.6	1.1	2.3	0.9	3.9
30	3.2	3.7	3.6	2.5	2	2.9	4.9	5.8	5.7	6.1	6.6	6.5	6.7	6.7	7.5	6	5.9	5.9	4.9	4.1	3	2.8	2.3	1.9	4.6
31	1.1	0.7	0.9	0.9	1.1	1.3	2.3	2.3	3.1	4.6	5	4.7	5.4	5.3	5	4.9	4.5	4.1	3.4	3	2.6	1.6	1.7	1.2	3
Avg	2.7	2.6	2.7	2.7	2.7	2.7	3.4	4.4	4.7	5	5.2	5	5.1	5.4	5.5	5.4	5.2	4.6	4.2	3.5	3.4	3.3	3.1	2.9	4
S D	1.6	1.5	1.4	1.6	1.6	1.5	1.5	1.4	1.3	1.2	1.3	1.2	1.2	1.3	1.4	1.6	1.6	1.4	1.3	1.2	1.5	1.6	1.7	1.6	0.9
S/A	0.59	0.6	0.52	0.58	0.6	0.57	0.44	0.33	0.28	0.23	0.25	0.24	0.24	0.25	0.26	0.3	0.3	0.3	0.31	0.36	0.45	0.47	0.53	0.54	0.23
Min	0	0	0.1	0.1	0	0	0.4	1.4	1.6	2.1	1.9	2.5	2.6	2.7	2.4	1.7	1.1	1.6	2	1.1	1	0.9	0.3	0.2	2.5
Max	5.8	5.9	5.9	5.4	5.4	5.2	6.1	7.4	8.1	8.6	9.6	8.2	8.5	8.3	8.4	8.5	8.5	7	6.7	6.2	7.7	6.7	6.7	6.4	6.5
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

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

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