

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

July 2008

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	2	46	171	417	582	701	928	999	953	727	785	507	252	238	73	16	0	0	0	0	7399
2	0	0	0	0	1	53	224	425	616	763 ?	641	739	718	871	698	689	483	286	91	5	0	0	0	0	7303
3	0	0	0	0	3	48	?	?	?	?	?	?	?	?	?	?	?	200 ?	76	11	0	0	0	0	337 ?
4	0	0	0	0	4	41	119 ?	?	?	?	?	?	?	?	404 ?	247 ?	172 ?	197 ?	52	6	0	0	0	0	1242 ?
5	0	0	0	0	2	28	96	224	459 ?	491 ?	308	346	563 ?	333	465 ?	?	109	66	25	1	0	0	0	0	3516 ?
6	0	0	0	0	1	20	94	149	213	423	522	507 ?	?	?	301 ?	168 ?	59 ?	?	1 ?	1	0	0	0	0	2460 ?
7	0	0	0	0	1	28	131	?	?	?	?	?	?	?	?	?	182 ?	?	45 ?	7	0	0	0	0	394 ?
8	0	0	0	0	5	46	?	?	?	?	?	?	485 ?	266	519 ?	166	?	31 ?	64	23	0	0	0	0	1606 ?
9	0	0	0	0	3	65	159	283 ?	231 ?	98 ?	132	148	140	197	248	192	123	173 ?	35 ?	2	0	0	0	0	2230 ?
10	0	0	0	0	1	29	108	243	288	212	318	320	340	346	396 ?	?	260 ?	199 ?	54	8	0	0	0	0	3122 ?
11	0	0	0	0	1	11	63	131	137	181	150	263	416	487	528 ?	?	?	?	53 ?	8	0	0	0	0	2428 ?
12	0	0	0	0	1	46	?	?	?	?	?	?	?	?	?	?	?	?	73 ?	15	0	0	0	0	136 ?
13	0	0	0	0	2	43	?	?	328 ?	?	?	?	?	?	?	?	?	?	51 ?	4	0	0	0	0	427 ?
14	0	0	0	0	0	30	58 ?	281 ?	?	459 ?	497 ?	377 ?	?	314 ?	236	333 ?	190	55	23	4	0	0	0	0	2856 ?
15	0	0	0	0	0	22	130	206	278	213	219	332	502 ?	669 ?	?	?	291 ?	?	53 ?	7	0	0	0	0	2923 ?
16	0	0	0	0	0	33	?	?	303 ?	603 ?	?	565 ?	325 ?	?	?	?	?	?	51 ?	4	0	0	0	0	1883 ?
17	0	0	0	0	0	42	?	?	?	?	?	?	?	?	?	?	?	?	50 ?	4	0	0	0	0	96 ?
18	0	0	0	0	0	31	122 ?	?	?	215 ?	?	?	?	?	?	?	?	?	51 ?	7	0	0	0	0	427 ?
19	0	0	0	0	0	46	?	?	?	297 ?	?	?	560 ?	?	?	312 ?	?	?	54 ?	8	0	0	0	0	1277 ?
20	0	0	0	0	0	18	97	194 ?	?	?	?	638 ?	623 ?	?	?	?	?	?	64 ?	11	0	0	0	0	1645 ?
21	0	0	0	0	0	20	117 ?	?	?	?	?	?	263 ?	302 ?	?	?	?	?	57	13	0	0	0	0	771 ?
22	0	0	0	0	0	32	104 ?	?	?	?	?	?	493 ?	163	?	145	215	191	36	3	0	0	0	0	1383 ?
23	0	0	0	0	0	32	101	212 ?	?	?	576 ?	542 ?	585 ?	?	224 ?	181 ?	?	28 ?	8	2	0	0	0	0	2491 ?
24	0	0	0	0	0	2	23 ?	80	204	512 ?	479 ?	559 ?	?	377	136 ?	164	77 ?	138 ?	61	3	0	0	0	0	2816 ?
25	0	0	0	0	0	12	50 ?	?	257 ?	211	?	451 ?	472	325	198	254	297	?	43 ?	2	0	0	0	0	2571 ?
26	0	0	0	0	0	39	?	?	?	?	?	?	?	?	?	?	?	?	49	7	0	0	0	0	95 ?
27	0	0	0	0	0	29	106 ?	?	?	539 ?	645 ?	582 ?	?	415 ?	?	257 ?	158	113	30	9	0	0	0	0	2882 ?
28	0	0	0	0	0	19	89 ?	?	?	?	?	?	?	?	?	?	?	127 ?	58	2	0	0	0	0	294 ?
29	0	0	0	0	0	27	84	376 ?	343 ?	?	?	633 ?	605 ?	?	?	380 ?	209	110	72	8	0	0	0	0	2847 ?
30	0	0	0	0	0	21	129	236	?	?	?	446 ?	?	?	?	?	247 ?	136 ?	41	2	0	0	0	0	1257 ?
31	0	0	0	0	0	30	83 ?	?	?	?	?	?	?	?	?	?	73 ?	70	82	12	0	0	0	0	349 ?
Avg	0	0	0	0	1	32	107	247	326	395	451	497	503	414	395	285	200	139	51	7	0	0	0	0	1983 ?
S/D	0	0	0	0	1	14	42	103	144	207	235	201	191	206	198	154	104	74	20	5	0	0	0	0	1790
S/A	0	0	0	0	1.53	0.43	0.39	0.42	0.44	0.52	0.52	0.4	0.38	0.5	0.5	0.54	0.52	0.54	0.39	0.76	0	0	0	0	0.9
Min	0	0	0	0	0	2	23	80	137	98	132	148	140	163	136	145	59	28	1	1	0	0	0	0	95
Max	0	0	0	0	5	65	224	425	616	763	928	999	953	871	785	689	483	286	91	23	0	0	0	0	7399
n	0	0	0	0	18	353	199	119	115	120	107	133	100	135	96	122	136	161	310	101	0	0	0	0	2348

Daylight Data Recovery: 0.0% missing; 0.0% untested; 55.8% exceed the 15% QC threshold -- 5312 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31392F3 Calibration Factor: 7.3961 μV/W/m² Calibration Date: 07/2007

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

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

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

July 2008

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	50	160	513	512	507	737	745	595	368	495	288	54	187	104	19	0	0	0	0	5334
2	0	0	0	0	0	155	442	555	621	571	330	394	363	508	498	640	641	590	346	15	0	0	0	0	6668
3	0	0	0	0	0	61	?	?	?	?	?	?	?	?	?	?	?	155?	64	1	0	0	0	0	281?
4	0	0	0	0	0	2	8?	?	?	?	?	?	?	?	6?	1?	2?	4	1	0	0	0	0	0	24?
5	0	0	0	0	1	2	4	7	12?	8?	2	5	7?	1	6?	?	0	0	0	0	0	0	0	0	55?
6	0	0	0	0	1	0	2	4	4	9	7	6?	?	?	1?	1?	0	0	0	0	0	0	0	0	35?
7	0	0	0	0	0	0	5	?	?	?	?	?	?	?	?	?	0?	?	1?	0	0	0	0	0	6?
8	0	0	0	0	0	3	?	?	?	?	?	?	4?	2	5?	0	0?	0	2	0	0	0	0	0	15?
9	0	0	0	0	0	4	4	5?	3?	0	0	0	0	0	2	1	1	3?	0?	0	0	0	0	0	23?
10	0	0	0	0	0	0	2	4	5	2	5	2	2	3	3?	?	6?	4?	0	0	0	0	0	0	39?
11	0	0	0	0	0	0	0	1	1	1	0	2	4	7	6?	?	?	?	1?	0	0	0	0	0	23?
12	0	0	0	0	0	4	?	?	?	?	?	?	?	?	?	?	?	?	2?	0	0	0	0	0	6?
13	0	0	0	0	0	5	?	27?	13?	?	?	?	?	?	?	?	?	?	3?	0	0	0	0	0	48?
14	0	0	0	0	0	1	0?	9?	?	9?	7?	1?	1?	1?	0	8?	3	0	0	0	0	0	0	0	40?
15	0	0	0	0	0	1	5	5	4	2	1	3	4?	6?	?	?	1?	?	2?	0	0	0	0	0	34?
16	0	0	0	0	0	2	?	?	2?	7?	?	6?	1?	?	?	?	?	?	3?	0	0	0	0	0	21?
17	0	0	0	0	0	5	?	?	?	?	?	?	?	?	?	?	?	?	3?	0	0	0	0	0	7?
18	0	0	0	0	0	1	5?	?	?	2?	?	?	?	?	?	?	?	2?	3?	0	0	0	0	0	13?
19	0	0	0	0	0	7	?	?	2?	6?	?	?	2?	?	?	2?	?	?	3?	0	0	0	0	0	21?
20	0	0	0	0	0	1	4	6?	?	?	?	4?	6?	?	?	?	?	?	3?	0	0	0	0	0	24?
21	0	0	0	0	0	1	8?	?	?	?	?	?	0?	1?	?	?	?	?	1	0	0	0	0	0	11?
22	0	0	0	0	0	2	8?	?	?	?	?	?	1?	1?	0	3	2	3	0	0	0	0	0	0	20?
23	0	0	0	0	0	2	4	7?	?	?	6?	4?	5?	?	2?	1	0?	0	0	0	0	0	0	0	32?
24	0	0	0	0	0	0	0	1	5	7?	9?	4?	?	3	0?	1?	0?	3?	2	0	0	0	0	0	34?
25	0	0	0	0	0	0	1?	?	2?	0	?	1?	3	1	0	2	2	?	1?	0	0	0	0	0	15?
26	0	0	0	0	0	4	20?	?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	25?
27	0	0	0	0	0	2	8?	?	?	9?	7?	5?	?	1?	3?	0?	0	0	0	0	0	0	0	0	37?
28	0	0	0	0	0	0	7?	?	?	?	?	?	?	?	?	?	0?	1?	0	0	0	0	0	0	9?
29	0	0	0	0	0	1	1	8?	5?	?	?	2?	5?	?	?	1?	1?	1	4	0	0	0	0	0	30?
30	0	0	0	0	0	0	4	5	?	?	?	2?	?	?	?	?	2?	1?	0	0	0	0	0	0	13?
31	0	0	0	0	0	1	4?	?	?	?	?	?	?	?	?	?	0?	0	2	1	0	0	0	0	7?
Avg	0	0	0	0	0	10	29	77	85	76	93	70	59	65	68	68	36	50	18	1	0	0	0	0	418?
SD	0	0	0	0	0	30	93	186	205	188	223	198	163	161	174	182	143	141	64	4	0	0	0	0	1501
S/A	0	0	0	0	3.12	2.93	3.18	2.41	2.41	2.48	2.41	2.84	2.77	2.49	2.54	2.67	3.99	2.81	3.62	3.67	0	0	0	0	3.59
Min	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	6
Max	0	0	0	0	1	155	442	555	621	571	737	745	595	508	498	640	641	590	346	19	0	0	0	0	6668
n	0	0	0	0	18	354	211	121	123	124	107	136	104	130	106	133	159	182	317	101	0	0	0	0	2445

Daylight Data Recovery: 0.0% missing; 0.0% untested; 54.0% exceed the 15% QC threshold -- 5312 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

July 2008

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	1	41	128	160	234	249	201	213	312	336	319	282	219	178	66	16	0	0	0	0	2955
2	0	0	0	0	1	30	70	89	109	192	251	274	298	289	207	181	111	72	38	5	0	0	0	0	2218
3	0	0	0	0	4 ?	31		?	?	?	?	?	?	?	?	?	?	104 ?	55	11	0	0	0	0	204 ?
4	0	0	0	0	5 ?	34	77 ?	?	?	?	?	?	?	?	291 ?	239 ?	156 ?	140	42	5	0	0	0	0	989 ?
5	0	0	0	0	3 ?	28	96	191	342 ?	435 ?	304	321	458 ?	320	390 ?	?	109	66	25	1	0	0	0	0	3086 ?
6	0	0	0	0	1	20	94	147	213	379	405	429 ?	?	?	259 ?	112	38 ?	23 ?	1 ?	0	0	0	0	0	2120 ?
7	0	0	0	0	1	27	116	?	?	?	?	?	?	?	?	?	159 ?	?	33 ?	7	0	0	0	0	343 ?
8	0	0	0	0	?	33	?	?	?	?	?	?	344 ?	236	399 ?	152	?	28	50	23	0	0	0	0	1265 ?
9	0	0	0	0	?	53	145	247 ?	244 ?	79	132	148	140	197	244	192	123	156 ?	31 ?	1	0	0	0	0	2133 ?
10	0	0	0	0	1	29	108	225	282	212	316	319	339	336	354 ?	?	175 ?	155 ?	48	8	0	0	0	0	2906 ?
11	0	0	0	0	?	11	63	130	137	181	150	263	409	444	495 ?	?	?	?	34 ?	8	0	0	0	0	2326 ?
12	0	0	0	0	?	30	?	?	?	?	?	?	?	?	?	?	?	?	40 ?	15	0	0	0	0	85 ?
13	0	0	0	0	?	22	?	95 ?	213 ?	?	?	?	?	?	?	?	?	?	28 ?	4	0	0	0	0	361 ?
14	0	0	0	0	0	28	51 ?	208 ?	?	427 ?	407 ?	330 ?	332 ?	288 ?	228	318 ?	166	55	23	4	0	0	0	0	2866 ?
15	0	0	0	0	0	22	124	201	267	212	219	332	486 ?	524 ?	?	?	272 ?	?	29 ?	7	0	0	0	0	2694 ?
16	0	0	0	0	0	28	?	?	267 ?	462 ?	?	428 ?	292 ?	?	?	?	?	?	24 ?	4	0	0	0	0	1505 ?
17	0	0	0	0	0	24	?	?	?	?	?	?	?	?	?	?	?	?	22 ?	4	0	0	0	0	51 ?
18	0	0	0	0	0	32	114 ?	?	?	186 ?	?	?	?	?	?	?	?	78 ?	26 ?	7	0	0	0	0	443 ?
19	0	0	0	0	0	24	?	?	182 ?	234 ?	?	?	440 ?	?	?	275 ?	?	?	32 ?	8	0	0	0	0	1196 ?
20	0	0	0	0	0	19	83	151 ?	?	?	?	527 ?	522 ?	?	?	?	?	?	43 ?	11	0	0	0	0	1355 ?
21	0	0	0	0	0	17	86 ?	?	?	?	?	?	213 ?	255 ?	?	?	?	?	52	13	0	0	0	0	635 ?
22	0	0	0	0	0	27	71 ?	?	?	?	?	?	448 ?	153	36 ?	128	211	167	36	3	0	0	0	0	1280 ?
23	0	0	0	0	0	28	94	161 ?	?	?	442 ?	457 ?	452 ?	?	241 ?	121 ?	24 ?	26	8	1	0	0	0	0	2056 ?
24	0	0	0	0	0	2	18	80	192	433 ?	425 ?	475 ?	?	366	132 ?	163	77 ?	97 ?	48	3	0	0	0	0	2511 ?
25	0	0	0	0	0	12	39 ?	?	211 ?	205	?	413 ?	419	309	198	249	275	?	23 ?	2	0	0	0	0	2355 ?
26	0	0	0	0	0	29	67 ?	?	?	?	?	?	?	?	?	?	?	?	37	7	0	0	0	0	140 ?
27	0	0	0	0	0	27	82 ?	?	?	425 ?	502 ?	483 ?	?	327 ?	329 ?	240 ?	157	111	30	9	0	0	0	0	2722 ?
28	0	0	0	0	0	18	66 ?	?	?	?	?	?	?	?	?	?	176 ?	105 ?	49	2	0	0	0	0	415 ?
29	0	0	0	0	0	29	76	328 ?	305 ?	?	?	579 ?	514 ?	?	?	284 ?	189	104	59	8	0	0	0	0	2473 ?
30	0	0	0	0	0	20	111	186	?	?	?	377 ?	?	?	?	?	194 ?	117 ?	37	2	0	0	0	0	1043 ?
31	0	0	0	0	0	27	55 ?	?	?	?	?	?	?	?	?	?	72 ?	69	80	12	0	0	0	0	315 ?
Avg	0	0	0	0	1	26	85	173	228	287	313	375	378	313	275	210	153	97	37	7	0	0	0	0	1518 ?
S D	0	0	0	0	1	9	30	65	63	124	123	115	106	94	114	68	70	48	16	5	0	0	0	0	1029
S/A	0	0	0	0	2.11	0.35	0.35	0.38	0.28	0.43	0.39	0.31	0.28	0.3	0.41	0.33	0.46	0.49	0.43	0.77	0	0	0	0	0.68
Min	0	0	0	0	0	2	18	80	109	79	132	148	140	153	36	112	24	23	1	0	0	0	0	0	51
Max	0	0	0	0	5	53	145	328	342	462	502	579	522	524	495	318	275	178	80	23	0	0	0	0	3086
n	0	0	0	0	10	345	211	121	123	125	107	136	104	136	104	132	147	174	310	101	0	0	0	0	2405

Daylight Data Recovery: 0.0% missing; 0.0% untested; 54.7% exceed the 15% QC threshold -- 5312 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31393F3 Calibration Factor: 7.6820 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

July 2008

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	22.4	21.9	21.5	20.8	19.7	19.4	19.9	21.2	22.9	24	25.3	26.8	27.2	27.1	27.9	28	27.2	27.2	26.7	25.8	24.2	22.9	22.7	22.2	24
2	21.2	20.2	19.4	18.9	18.4	18.4	20.1	22.2	24.6	25.9	26.6	27.6	28.1	28.8	29.1	29.8	29.8	29.5	28.7	26.8	25.5	24.3	23.5	23.2	24.6
3	22.5	22.1	21.7	21.5	21.2	21.3	22.7	24.3	25.7	27.3	28.6	29.6	30.1	31	31.3	31.4	30	29.1	27.9	26.7	25.7	25.1	24.6	24.3	26.1
4	23.8	23.4	23.2	23.3	23.1	23.1	23.9	25.4	26.9	28.6	30	31.3	32	32.9	33.2	32.9	31.7	30.6	29.5	28.4	27.6	27	26.4	25.9	27.7
5	25.4	22.4	21.5	21.5	21.8	22.7	24.1	25	26.2	27.4	26.8	27.1	28	27.6	27.4	28.6	27.8	27.5	27.6	27.3	25.5	21.9	20.9	21.4	25.1
6	21.8	21.7	22.1	22.2	22.3	22.2	22.5	23.2	23.6	24.9	25.8	27.2	28.6	29.6	29.8	28	24.6	23.5	21.9	20.8	20.9	21.3	21.4	21.2	23.8
7	21.3	21.7	21.2	20.9	20.9	20.8	21.1	22.2	23.9	25.4	26.4	27.6	28.6	29.6	30	30.3	30	29.4	28.5	27.2	26.5	25.8	25.2	24.9	25.4
8	24.5	23.9	23.6	23.2	22.8	23	24.1	25.4	26.6	27.5	28.9	30.3	30.7	29.8	30.1	28.8	21.5	20.5	21.2	21.6	22.5	22.7	23.2	23.9	25
9	23.4	22.6	22.1	22.2	22.2	22.9	23.9	24.6	25.4	24.6	24.1	23.9	23.3	23.5	24.1	24.9	25.3	26.2	27.3	26.3	25.7	22.7	22.3	22.4	24
10	22.3	22.5	22.6	22.4	22.2	22.2	22.5	23.1	23.9	24.7	24.9	25.4	25.7	26.2	27.7	28.6	28.5	28.1	26.8	25.5	24.8	24.7	24.5	24.1	24.7
11	23.6	23.3	23.4	23.3	23.3	23.5	23.9	24.4	24.5	24.7	24.6	24.3	24.9	26.2	27.2	28	28.1	27.2	26	24.4	23.6	22.8	22.4	22.3	24.6
12	21.7	20.8	20.2	20.3	20.3	20.5	21.3	23.9	26	27.1	27.8	28.2	28.8	29.4	29.1	28.8	28.5	27.5	26.2	24.5	23.4	22.7	22	21.5	24.6
13	21.1	20.9	20.6	19.9	19.4	19.7	22.1	24.9	25.7	26.7	27.6	29.2	29.8	29.6	30.3	31	30.3	28.7	28.3	27.2	25.9	25.4	24.8	24.2	25.6
14	23.8	23.8	23.3	23.2	23.2	23.3	23.5	24.8	26.1	27.7	29.7	29.9	30.7	28.7	25.1	25	26.1	24.9	24.6	24.4	24.1	23.3	22.5	22.4	25.2
15	22.4	22	22	22.1	22.2	22.3	22.7	23.7	24.6	25	25.1	25.6	26.3	27.2	27.4	27.3	26.7	26.5	25.6	24.4	23.3	22.6	22	21.6	24.2
16	21.1	20.9	20.9	20.7	20.7	20.9	22.1	23.8	25.2	26.2	26.9	27.5	27.4	28.2	28.2	28.5	28.1	27.5	26.4	24.7	24	23.1	22.3	21.9	24.5
17	21.4	21.4	20.4	19.8	19.6	20.5	21.8	24	26.3	28	28.7	29.3	29.4	29.4	29.6	29.3	29.3	28.7	27.5	25.7	24.3	22.8	21.9	21.5	25
18	21.5	20.4	19.6	19.4	19.8	19.6	20.4	23.7	27	27.9	29.2	30.4	30.6	30.7	30.2	29.6	29.4	28.9	28.7	27.4	26.4	25.7	25.2	24.9	25.7
19	24.4	24.2	24	23.6	23.5	23.6	25.1	26.6	27.7	28.4	29.3	29.5	29.6	29.9	30.4	29.7	29.8	30	29.2	28	27.1	26.4	26	25.8	27.2
20	25.5	25.5	25.8	25.8	25.6	25.4	26.3	27.6	28.5	28.9	30	29.9	30.1	30.1	30.1	29.6	29.4	28.8	28.1	27	26.3	25.6	25.3	24.6	27.5
21	23.9	23.5	23.1	22.7	22.4	22.6	23.8	26.3	28.1	30.3	31.8	32.7	33.5	33.2	33.4	30.7	31	30.7	29.4	28.1	27.5	27	26.7	26.4	27.9
22	26	25.6	25.3	25.2	24.9	24.9	26.2	28.6	31	33.1	34.1	34.5	35.2	33	26.9	26.7	27.5	28.8	29	27.6	26.3	25.6	25.3	25.1	28.2
23	24.4	23.9	23	23.5	23.7	23.5	24.2	25.9	28.2	28.5	29.4	30.2	31.1	31.8	28.6	29.7	23	22.6	22.8	22.2	22.3	22.5	24.2	24.7	25.6
24	21.8	20.5	20.3	20.6	20.9	21.2	21.5	21.7	22.1	23.9	25.3	26.3	27.3	27.3	27.3	27	26.4	26.2	25.9	24.9	24	23.6	23.4	23.2	23.9
25	23	22.8	22.6	22.4	22.6	22.1	22.5	24.9	25.9	25.8	27.3	27.7	27.3	27.1	26.5	26.3	26.4	27	26	24.5	23.3	22.8	22	20.8	24.6
26	20.2	20.8	21	20.5	19.5	19.7	22.4	25	25.8	27.7	28.5	29.1	29.5	29.8	29.1	29.5	29.3	28.2	26.9	25.8	25.7	25.2	24.8	24.3	25.4
27	23.9	23.4	23.1	23	22.7	22.6	23.6	25.6	27	28.1	28.7	29.5	30.6	31.1	31.1	30.4	29.3	28.3	28.4	28	27.1	26.3	25.7	25.4	26.8
28	24.3	23.6	23	22.6	22.4	22	22.5	24.5	26.3	27.5	28.6	29.4	30.1	30.6	30.4	30.8	30.6	29.5	28.3	27.1	26	25.5	25.1	24.7	26.5
29	24.4	24.7	24.6	24.2	24.1	24.6	25.5	27.1	28.3	29.8	31.1	31.2	31.8	32.3	33.1	33.8	31.4	26.8	27.8	27.5	27.4	27.3	26.9	26.6	28
30	26.3	25.8	25.4	25.2	24.9	24.7	25	26	27.3	28.9	31	31.7	32.2	32.3	33.1	33.5	33.4	32.7	31.7	29.9	27.3	26.7	27.2	27	28.7
31	26.5	26.2	25.3	24.7	24.2	23.9	24.4	25.6	27.5	29.3	30.6	32.1	32.8	33.8	34.3	34.4	32.9	25.5	25.2	25.5	25.1	24.7	24.4	24.4	27.7
Avg	23.2	22.8	22.4	22.2	22.1	22.2	23.1	24.7	26.1	27.2	28.1	28.9	29.4	29.6	29.4	29.4	28.5	27.6	27	26	25.1	24.4	24	23.8	25.7
S D	1.7	1.7	1.8	1.8	1.8	1.8	1.7	1.7	1.9	2.1	2.4	2.4	2.6	2.4	2.4	2.3	2.7	2.5	2.3	2	1.7	1.7	1.8	1.8	1.5
S/A	0.07	0.07	0.08	0.08	0.08	0.08	0.07	0.07	0.07	0.08	0.08	0.08	0.09	0.08	0.08	0.08	0.09	0.09	0.08	0.08	0.07	0.07	0.07	0.07	0.06
Min	20.2	20.2	19.4	18.9	18.4	18.4	19.9	21.2	22.1	23.9	24.1	23.9	23.3	23.5	24.1	24.9	21.5	20.5	21.2	20.8	20.9	21.3	20.9	20.8	23.8
Max	26.5	26.2	25.8	25.8	25.6	25.4	26.3	28.6	31	33.1	34.1	34.5	35.2	33.8	34.3	34.4	33.4	32.7	31.7	29.9	27.6	27.3	27.2	27	28.7
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

July 2008

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	103.6 ?	104.9 ?	103.9	96.5	99.6	100	98.3	95.4	91.5	86.4	77	69.9	67.1	65.6	61.1	58.2	60	60.8	64.7	66.1	70.5	77.4	79.4	83.3	80.9
2	88.7	93.2	96.8	98.4	100.1	100.3	95.1	87.6	77.1	70.9	62.6	57.7	55.1	50.9	48.1	45.5	43.5	38.9	40.4	49.8	63.8	79.9	86.5	85.5	71.5
3	86.7	89.1	94.7	97.1	98.4	99	96.5	90.3	82	71.6	61.7	53.7	53.3	49.3	45.7	45.8	55	59.5	64.9	73	77.2	84.8	92	92.9	75.6
4	96.2	92.1	91.3	95.8	99.8	101.8	100.3	94	85.9	79.9	73.7	67.9	63.1	58.2	54	53.1	64.6	74.3	74.5	77.7	81.4	83.8	88.3	93.4	81
5	95.7	99.5 ?	?	?	?	?	104.6 ?	102.4	97.5	91.3	93.3	91	80.1	83.3	82.7	84.3	88.2	93.1	89.6	91.7	97.2	104.1 ?	?	?	92.8 ?
6	?	?	?	?	104.5 ?	104.7 ?	?	103.7 ?	102.7	99.1	96.7	91.9	85.2	80.9	81.5	86.8	94.7	100.7	102.8 ?	?	?	?	?	?	95.4 ?
7	?	?	?	?	?	?	?	103.4 ?	98.2	93	89.9	85.3	79.1	73.3	72.3	72.3	72.1	72.6	78.4	81.1	83.8	88.9	94.1	99.7	84.6 ?
8	101.9	101.9	103.8	104.8 ?	?	?	104 ?	100.2	94.8	93.4	88.5	80.7	76.5	81.1	78	81.9	97.5	?	?	104.6 ?	102.7	103.2	103.8	101.8	95.3 ?
9	100.3	98.8	100.8	97.9	96.8	96.8	99	97.2	96	98.7 ?	?	?	?	?	?	?	?	104 ?	97.6	99.7	98.4	102.6 ?	104.6 ?	?	99.3 ?
10	?	104.9 ?	104.1	104.1	104.9	104.7	104.4	103.3	101.3	99.3	100.2	98.9	97.4	94.9	87.8	80.5	79.2	80.6	91.5	99.9	103	102.4	101.5	102.8	97.9
11	103.9	102.1	99.2	102.3	99.3	96.3	96.1	94.9	95.4	99.2	99.3	99.3	89.8	82.7	79.5	75.5	72.9	77.8	86.2	93.7	98.1	101.8	104.1	103.3	93.9
12	103.5	104.1 ?	?	?	?	?	103.4 ?	95.4	79.9	71.7	67.4	64.9	58.7	52.8	50.1	51.9	53.3	61.8	73.4	90.2	99	100.8	103.2	104.8 ?	79.5 ?
13	?	?	?	?	?	?	103.4 ?	98.5	93.1	79.2	72.1	62.6	63.8	72.1	66.1	39.5	58.9	80.3	84.9	77.4	91.2	90.2	94.1	99.8	79.3 ?
14	103.4	105 ?	?	?	104.9 ?	104.1	101.5	94.7	91.1	86.6	79.6	79.1	75	84.8	98.4	100.4	96.5	98.8	99.4	100.8	102	?	?	?	95.1 ?
15	?	?	?	?	?	?	?	104.2 ?	101.7	99.8	98.3	94.2	87.7	84.1	83.2	82.9	80.1	82.3	84.9	93.4	98.9	101.1	102.8	104.4 ?	93.2 ?
16	?	?	?	?	?	?	103.8 ?	100.6	96.9	87.7	82.9	83.9	79.3	68.8	63	56.9	53.9	62.7	73.9	90.4	96.1	98.1	99.5	100.4	83.3 ?
17	100.3	98.7	101.3	103.9	103	99.1	97.3	90	76.9	68.5	63.8	61.2	59.8	57.8	56.5	55.5	53.5	56.8	59.2	68.6	84.9	96.7	102.2	104 ?	80
18	?	?	?	?	?	?	?	101.9 ?	95.4	90.1	84.7	73.8	71.1	70.3	77.9	79.3	83.1	87.1	82.8	88.8	92.7	97.7	100.5	102.4	87 ?
19	104.3 ?	?	?	?	?	?	103 ?	97.9	90.3	86.5	82.2	81.9	81.5	77.8	77.6	85.4	82.8	79.6	83.3	87.4	94.6	99	101.4	103.3	89.5 ?
20	102.9	103.2	104.3	103.4	101	100.9	102.3	95.4	92.4	88.1	80.5	81.4	79.1	80	81.5	84.9	85.4	86.6	89.6	94.1	97.9	101.6	103.2	104.4	93.5
21	?	?	?	?	?	?	104.1 ?	99.2	94.1	84.7	79.2	74.8	71.7	73.1	72.3	83.2	83.5	82.4	88.6	97.4	98.2	98.5	99.9	98.2	87.9 ?
22	100.4	103.5	104.9 ?	?	?	?	100.9	92.7	82.1	70	66.5	63.1	59.6	69.5	88.8	84.8	82.4	85.9	81.7	86.5	90.8	94.3	91.8	91	85.3 ?
23	95.4	96.8	100	98.2	102.4	104.9 ?	104.9	99.8	87.2	90.1	87.9	85.5	78.9	74.4	81.4	83.6	100 ?	?	?	?	?	?	?	103.9 ?	93.1 ?
24	103.8	?	?	?	?	?	?	?	?	100.4	94.7	89.4	85.4	86.5	90.1	90.7	94	95.4	96.7	99.8	103.6	?	?	?	94.6 ?
25	?	?	?	?	104.9 ?	?	101.5 ?	94	84.4	82.3	76.9	74.8	77.2	75.5	75.5	78.7	80.2	73.5	78.6	87	94.6	97.3	100	104	86.4 ?
26	?	?	?	?	?	?	101.3 ?	94.2	85.4	72.8	59.5	49.9	53.1	58.8	67.3	62.9	59.8	60.9	78.2	90	89.5	94.1	96.7	99.1	76.3 ?
27	101	102.5	102.3	103.1	104.5 ?	?	103.6 ?	98.5	91.3	84.4	84.5	79.5	75.5	76.6	76.5	79.6	85.4	92.7	92.7	94.6	96.5	98	101.3	102.5	92.5
28	?	?	?	?	?	?	?	102.5	96.9	89.7	78.1	72	69.9	70.9	69.8	61.4	58.5	66	70.6	80.5	88.2	92.9	95.8	98.1	80.1 ?
29	100	98.3	99.7	103.3	104.9 ?	?	?	103.8 ?	99.9	84.2	72.1	74.6	76.5	76.8	69.8	64.8	74.3	93	93	94.2	94.8	97.1	101.4	103.9	90 ?
30	104.6	?	?	?	?	?	?	103.7 ?	98.9	92.5	85	83.3	81	77.3	73.7	71.9	76.5	80.5	85.8	91.2	98.6	100.7	101.8	102.9	89.4 ?
31	104.6 ?	100.2	100.6	102.1	103.5	105 ?	103.8	100.6	95	87.4	80.5	72.5	65.7	63.1	61.8	62.6	70	99.4	102.3	103	104.7 ?	?	?	?	89.9 ?
Avg	100.1	99.9	100.5	100.8	102	101.3	101.4	98	91.8	86.4	80.6	76.6	73.2	72.4	72.4	71.5	74.7	78.9	82.4	88	92.8	95.7	98	99.6	87.5 ?
S D	5.1	4.7	3.9	3.2	2.7	3.1	3	4.6	7.3	9.6	11.7	12.9	11.3	11.3	13	15.5	15.5	15.7	13.8	12.3	9.8	7.3	6.4	5.9	7.2
S/A	0.05	0.05	0.04	0.03	0.03	0.03	0.03	0.05	0.08	0.11	0.14	0.17	0.15	0.16	0.18	0.22	0.21	0.2	0.17	0.14	0.11	0.08	0.06	0.06	0.08
Min	86.7	89.1	91.3	95.8	96.8	96.3	95.1	87.6	76.9	68.5	59.5	49.9	53.1	49.3	45.7	39.5	43.5	38.9	40.4	49.8	63.8	77.4	79.4	83.3	71.5
Max	104.6	105	104.9	104.8	104.9	105	104.9	104.2	102.7	100.4	100.2	99.3	97.4	94.9	98.4	100.4	100	104	102.8	104.6	104.7	104.1	104.6	104.8	99.3
n	221	178	169	163	156	134	208	328	360	367	360	360	360	360	360	360	351	345	341	341	337	302	297	271	7032

Data Recovery: 0.0% missing; 0.0% untested; 21.2% 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 2008

Dry Bulb Temperature (CR10)
Hourly and Daily Averages
Instrument: CSI
Degrees Celsius

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	21.6	21.6	21.4	21	20.1	19.5	20.1	22.3	26.3	28.4	29.7	31.1	31.7	31.1	31.2	31.5	31	29.7	29.2	27.7	25.4	23	21.9	21.9	25.8
2	21.3	20.5	19.4	18.7	18.1	17.7	19.5	23.4	27.6	31	32.1	32.3	32.5	32.7	33.1	33.7	34.4	34	32.4	29.6	25.8	24.2	23.1	22.3	26.6
3	21.9	21.3	21	20.6	20.3	20.4	21.9	25	27.5	29.6	31.8	33	33.6	33.9	34.9	35.7	35.5	33.8	31.8	29.3	27	25.5	24.6	24	27.7
4	23.6	23.2	22.6	22.6	22.7	22.7	23.6	25.9	28.6	31.4	33.7	35	35.9	36.2	37.1	37.3	35.8	34.4	32.9	30.5	28.7	27.7	27.2	26.7	29.4
5	26.2	25.2	23	21.9	21.6	21.7	22.6	24.3	26.8	29.5	30.5	30.2	30.6	31.8	31	32.2	32.2	29.9	28.8	28.2	27.5	25.1	22.7	21.7	26.9
6	21.6	21.7	21.7	21.8	21.9	22	22.2	22.9	23.9	25.6	27.9	29.8	31.5	33	34	33.3	29.8	26.9	24.5	22.6	21.5	21.3	21.4	21.2	25.2
7	21	21.1	21.1	21.1	21.1	21	21.2	22.8	26.6	29.5	31.5	32.4	33.1	33.6	34.2	34.8	34.7	33.7	32.3	30	27.7	26.5	25.6	24.9	27.6
8	24.5	24.1	23.6	23.3	23	22.7	24	26.6	29.1	30.9	32.9	34.2	34.8	34.1	33.2	33.3	29.1	23.4	21.8	21.6	21.7	22.1	22.3	22.9	26.6
9	23.3	23	22.3	21.9	21.8	22	23.8	25.5	27.6	27.7	25.7	25	24.4	24.1	24.4	25.1	25.9	26.5	28.2	27.8	26.8	25.4	23.3	22.5	24.7
10	22.3	22.3	22.3	22.3	22.3	22.4	22.7	23.6	25	26.6	27	28	28.7	29.2	30.8	33.6	34.7	33.8	31.6	28.5	26.2	25	24.5	24	26.6
11	23.4	22.7	22.6	22.9	23.1	23.3	23.7	24.4	25.2	25.6	26	26.1	26.5	27.9	30.3	32.3	33.5	33.3	31.3	28.1	24.9	23.1	22	21.5	26
12	20.9	20.5	20	19.7	19.7	19.8	20.7	23.5	27.3	30.4	32.3	33.1	33.1	33.3	33.9	34.1	34.2	33.4	31.6	28.4	25	23	21.8	20.9	26.7
13	20.6	20.3	20.1	19.7	19.3	19.1	20.6	24.9	29.2	32.7	34.5	35.5	36	35.4	35.2	35.7	36.2	35.4	33.3	30.6	27.7	25.9	25	24.2	28.2
14	23.6	23.3	23.2	23	22.9	23.1	23.5	25.6	28.7	31.6	35.2	37.2	36.6	35.9	32.5	28.1	28.6	28.1	26.5	25.5	24.9	24.3	23.4	22.9	27.4
15	22.7	22.5	22.2	22.1	22.1	22.2	22.5	23.7	25.4	26.7	27.1	27.7	28.8	30.5	31.7	32.5	32.5	31.6	30.4	27.7	24.8	23.2	22.2	21.5	26
16	21	20.6	20.5	20.4	20.3	20.3	21.3	24.2	27.3	28.7	30.4	31.5	32.2	31.8	32.3	32.9	33.3	32.6	31.2	28.3	25.1	23.4	22.4	21.7	26.4
17	21.2	20.5	20.1	19.3	18.7	18.8	20.8	24.1	27.7	30.9	33	34	34.1	33.8	34.1	34.8	34.9	34.6	32.9	29.4	25.6	23.1	21.2	20.5	27
18	20.3	20.2	19.6	19	18.9	19	19.7	22.6	28.3	32.8	34.6	36.5	36.8	35.7	35.5	35	34.7	34.2	32.8	30.6	27.9	26.3	25.1	24.5	27.9
19	24.1	23.7	23.5	23.2	22.8	22.9	24.6	28.5	32.2	33.7	34.7	35.7	35.7	35	35.3	35.2	34.3	34.5	33.8	31.3	28.7	27.2	26.2	25.7	29.7
20	25.3	25	25.1	25.2	25.3	25.1	25.5	27.7	30.6	33.3	35.4	36	35.4	34.8	34.8	35.1	35.1	34.8	33.1	30.6	27.9	26.4	25.5	24.8	29.9
21	24	23.4	23.1	22.8	22.6	22.4	22.9	26.1	30.7	34.6	37.7	39.5	40.3	39.6	39	38.2	36.5	35.9	34.2	31.2	29	27.7	27	26.4	30.6
22	25.9	25.4	25	24.7	24.6	24.5	25.4	28.7	33.1	37	39.4	40.5	40.8	40.5	34.9	29.7	29.3	30	30.4	29.2	27.5	26.3	25.6	25.2	30.1
23	24.8	23.9	22.9	22.6	23	23	23.7	25.4	29.8	32.8	34.3	35	35.4	35.9	35.1	32.7	29.5	24.9	23.5	23	22.5	22.3	22.7	23.7	27.2
24	23.4	22	21	20.7	20.8	21.1	21.4	21.7	22.3	24.4	28.6	31.6	32.7	33.4	32.8	33.5	31.1	31.2	30.1	27.8	25	23.6	22.9	22.8	26.1
25	22.8	22.6	22.3	22	21.9	21.7	21.7	24.3	28	28.7	29.9	33	33	32.2	30.9	29.4	29.4	30.4	31	28	24.3	22.1	21.2	20.1	26.3
26	19.4	19.2	19.6	19.9	19.4	19	20.5	24.6	29.2	33	35.2	36	36.1	36.1	35.9	35.4	35.4	34.3	31.8	28.7	26.6	25.7	24.9	24.3	27.9
27	23.8	23.3	22.9	22.9	22.6	22.3	23.1	26.4	29.9	32.3	33.9	34.5	35	35.6	35.8	35.6	34	31.7	30.2	29.2	28.2	27.2	26.3	25.8	28.9
28	25.1	24.3	23.4	22.8	22.5	22.2	22.4	25	28.5	31.6	33.7	34.9	36	36.2	36.6	36.7	36.8	35.6	32.9	29.9	27.4	26	25	24.4	29.2
29	24	24	24.1	24	23.5	23.6	24.4	26.7	30	32.9	35.9	37.4	37.5	37.9	38.3	39	38.6	34	30.9	29.7	28.1	27.4	27	26.7	30.2
30	26.4	26.1	25.7	25.4	25.1	24.9	25	26.5	29.1	32.2	35.7	38.2	38.3	38.1	37.8	38.4	38.6	37.9	35.8	33.1	30.4	28.3	27.5	27.3	31.3
31	26.9	26.6	26.1	25.4	24.8	24.3	24.7	26.9	30.1	33.4	36.1	38.1	39	39	40	40.8	40.6	34.6	28.7	26.8	26	25.5	25	24.9	30.6
Avg	23.1	22.7	22.3	22	21.8	21.8	22.6	25	28.1	30.6	32.5	33.6	34.1	34.1	34.1	34.1	33.6	32.2	30.6	28.5	26.3	25	24.1	23.6	27.8
S D	2	1.9	1.8	1.8	1.9	1.9	1.7	1.8	2.3	2.9	3.5	3.8	3.7	3.4	3.1	3.2	3.3	3.4	3.1	2.5	2.1	1.9	2	2	1.8
S/A	0.08	0.08	0.08	0.08	0.09	0.09	0.08	0.07	0.08	0.1	0.11	0.11	0.11	0.11	0.09	0.1	0.1	0.11	0.1	0.09	0.08	0.08	0.08	0.08	0.06
Min	19.4	19.2	19.4	18.7	18.1	17.7	19.5	21.7	22.3	24.4	25.7	25	24.4	24.1	24.4	25.1	25.9	23.4	21.8	21.6	21.5	21.3	21.2	20.1	24.7
Max	26.9	26.6	26.1	25.4	25.3	25.1	25.5	28.7	33.1	37	39.4	40.5	40.8	40.5	40	40.8	40.6	37.9	35.8	33.1	30.4	28.3	27.5	27.3	31.3
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 2008

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0.7	0.5	1.5	1.4	1.8	1.5	1.3	0.9	1.6	2.5	2.3	3	3.8	3.6	3.8	3.5	3	1.7	1.1	1.1	0.4	0.8	1.7	1.6	1.9
2	1.6	1.1	1.3	1.5	1	0.8	1.1	1.1	1	2.2	2.2	2.2	2.3	3	2.4	2.7	2.4	2.9	1.9	0.2	1	0.9	1.1	1.8	1.7
3	1.3	1.8	1.8	1.8	2	1.7	2	3.6	4.2	3.6	3.9	4.1	3.8	3.6	3.6	3.7	5.1	4.7	3.9	3.5	2.9	2.4	2.1	2.4	3.1
4	2.2	1.6	1.7	1.8	1.7	1.9	3	3.3	3.2	3	3.3	3.3	3.8	4.2	4.2	3.1	3.9	5.5	4.2	2.8	3.4	4.1	3.5	3	3.2
5	2.9	2.2	0.8	0.7	1.5	0.6	1.4	2.2	3.4	2.9	2.4	2.3	2.8	3.5	3.1	3.7	3.8	2.8	2.1	2.4	2	1.6	0.8	0.8	2.2
6	0.8	1	1.9	1.3	1.5	1.5	1.2	1.9	1.7	2	3	3.6	3.5	3.5	3.3	3.6	1.6	1.8	2.5	1.8	1.6	1.2	1.4	1.4	2
7	0.7	0.6	0.2	0.3	0.9	0.9	0.8	1.6	2.1	2.4	3	3	3.4	3.5	3.6	4.1	3.9	4.2	3	2.2	2.5	2.4	2.1	2.1	2.2
8	2.4	2.1	2.4	2.3	1.6	1.3	2.2	3.2	3.5	3.4	3.5	3.7	4.5	3.5	4.2	4.8	3.9	1.7	1.6	2.1	2	1.3	2.7	4.1	2.8
9	3.4	2.6	2.1	2.2	2	2.1	2.7	4	4.6	2.5	1.3	3.1	2.6	2.3	2.7	3.2	2.2	1.7	2.6	2	3.6	4.1	2.6	1.6	2.7
10	1.6	2.1	1.9	1.9	2.2	2.4	1.8	2.8	2.7	1.9	2	2.2	2.2	1.6	1.8	1.9	1.4	1.8	1.7	1.5	1	1	0.8	0.7	1.8
11	0.6	1.3	1.6	1.7	1.9	1.6	2	1.8	1.3	1.4	1.7	2.2	1.8	1.6	2.3	2.7	2.4	2.6	2.2	2.1	1.5	0.9	0.9	0.6	1.7
12	1.1	0.8	0.9	1.2	1.2	1.6	2	2	2.7	3.1	3.6	3.7	3.4	3.1	3.6	3.5	3.3	3.1	2.8	2.2	1.5	0.8	0.4	0.6	2.2
13	0.6	0.7	0.5	0.5	0.3	0	0.2	0.7	1.2	1.1	1.7	1.2	1.8	3	3.1	2.9	2.5	3	2.3	2.5	2.2	2.3	1.8	1.6	1.6
14	1.6	1.8	1.7	1.7	1.2	1.3	2.1	2.4	2	1.3	1	1.7	2.7	3.6	4	2.7	2.5	2.2	1.8	1.8	1.9	2.3	1.9	0.8	2
15	0.9	0.8	0.5	0.9	1	1.8	2.3	2.2	2.9	2.5	2.6	2.8	4	3.7	3.9	3.9	3.3	2.7	3	2.1	1.5	1.7	1.8	1.6	2.3
16	1.1	1.7	1.8	1.7	1.7	1.9	2.2	2.5	3.6	4.6	4.3	3.9	4.5	4.2	4.4	3.7	4	3	2.5	1.5	1.1	1.2	1.8	1.7	2.7
17	0.8	1	1	0.8	1.5	2.3	2.5	2.4	2.8	3	3.5	3.6	3.6	3.3	2.9	3.5	2.7	2.5	2.3	1.6	1	0.5	0.8	0.5	2.1
18	0.9	0.6	0.5	0.2	0.3	0.8	0.9	0.5	0.4	1	2	3	3.2	4.1	4.2	4.4	4.1	3.9	3.1	2.2	1.9	1.1	0.8	1.3	1.9
19	1	0.8	0.7	0	0.5	0.1	0.5	1.3	1.6	1.5	2.8	3.1	3.7	3.3	3	4.1	3.5	3.1	2.8	1.9	1.8	1.6	1.3	1.4	1.9
20	1	1.3	1.3	1.4	1.2	1	1.2	3	3	2.9	3.7	4.4	4.5	4.9	4.7	4.6	3.9	3.9	2.4	1.8	1.7	1.6	1	0.6	2.5
21	0.4	0.9	0.8	0.4	0.8	0.5	0.9	0.8	1.6	1.4	1.7	1.6	1.7	2.2	3	4.5	3.7	3.3	3.1	2	1.9	2.2	1.4	1.2	1.8
22	0.9	0.7	0.8	1.1	0.7	1.2	1.5	1.6	1.7	2	2.4	3.1	1.9	3.7	5.5	2.7	1.9	2.2	1.3	1.1	1.3	1.7	1.4	1	1.8
23	0.4	0.2	0.3	1.1	1.6	1.1	1	1.5	2.5	3.3	3.4	3.7	4.2	5.1	5.5	4.6	2.5	1.5	1.2	2.1	1.6	0.4	2	2.5	2.2
24	2.3	3.2	1	0.6	0.5	0.3	0.4	0.1	0.6	1.8	1.6	2.2	2.1	1.4	2.1	2.2	1.4	1.5	1.3	0.4	0.1	0.3	0.9	1.4	1.2
25	1.1	0.9	0.7	0.7	0.7	0.6	1.1	2	2.4	2.1	2.7	2.4	2.1	2	1.9	1.7	2.2	1.6	1.3	0.7	0.6	1	0.2	0.2	1.4
26	0.2	0.2	0.8	0.1	0.2	0	0	0.2	0.6	1.1	1.9	1.9	2	2.1	3.6	2.6	3.1	3.5	3.3	2.5	2.4	1.8	1.5	1.2	1.5
27	1.3	1.5	1.4	1.2	1	0.6	0.7	1.5	2.4	2.3	3.1	3.1	3.2	3.2	3.7	3.5	3.4	1.9	2.1	2.2	2.5	2.1	1.6	0.9	2.1
28	0.8	0.4	0.5	0.5	1.1	0.6	0.6	1.4	1.9	2.4	2.9	2.3	2	2.4	2.7	2.5	2	2.4	2	1.4	1.6	1.3	0.5	0.9	1.5
29	1	1.5	0.7	0.2	0.4	0.9	1	2.1	1.8	2.2	2.9	2.9	2.9	2.8	3.5	3.2	3.6	1.5	0.8	1.1	1.2	1.3	1.8	2	1.8
30	2.2	2.6	1.9	2	1.6	1.1	1.9	2.6	3	2.2	1.7	2	2.5	3.6	3.2	3.1	2.4	2.2	1.9	2.5	2.5	2.3	1.6	2.1	2.3
31	2.7	2.6	2.6	2.9	2.9	2.9	2.8	2.6	2.2	2.2	2.1	1.8	2.4	1.8	2.2	1.8	2.9	4.3	2	2.7	1.5	1.7	2.1	2.4	2.4
Avg	1.3	1.3	1.2	1.2	1.2	1.2	1.5	1.9	2.3	2.3	2.6	2.8	3	3.1	3.4	3.3	3	2.7	2.3	1.9	1.7	1.6	1.5	1.5	2.1
S D	0.8	0.8	0.7	0.7	0.6	0.7	0.8	1	1	0.8	0.8	0.8	0.9	0.9	0.9	0.9	0.9	1	0.8	0.7	0.8	0.9	0.7	0.8	0.5
S/A	0.61	0.59	0.54	0.63	0.51	0.61	0.55	0.5	0.46	0.35	0.32	0.29	0.3	0.3	0.27	0.26	0.3	0.38	0.36	0.38	0.46	0.55	0.48	0.57	0.23
Min	0.2	0.2	0.2	0	0.2	0	0	0.1	0.4	1	1	1.2	1.7	1.4	1.8	1.7	1.4	1.5	0.8	0.2	0.1	0.3	0.2	0.2	1.2
Max	3.4	3.2	2.6	2.9	2.9	2.9	3	4	4.6	4.6	4.3	4.4	4.5	5.1	5.5	4.8	5.1	5.5	4.2	3.5	3.6	4.1	3.5	4.1	3.2
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 2008

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	249	265	276	287	275	285	284	254	245	241	236	232	233	239	241	242	273	248	233	251	241	230	263	268	251
2	272	267	265	267	266	267	284	279	244	249	269	288	273	262	253	242	237	240	241	243	158	186	195	214	252
3	212	212	207	202	216	210	203	224	231	224	218	227	208	185	177	173	156	155	158	160	167	178	201	199	193
4	216	210	202	209	204	213	223	232	234	241	240	215	219	193	184	196	170	163	165	178	188	195	228	224	203
5	233	283	244	173	150	189	204	224	230	238	220	190	155	172	126	133	143	136	151	160	251	313	292	76	186
6	139	158	163	169	182	194	212	205	183	192	199	194	194	189	181	184	20	333	279	266	184	176	208	213	196
7	166	143	307	315	261	268	239	230	223	207	183	195	197	207	235	227	231	238	218	203	202	205	207	206	215
8	214	217	219	222	218	196	208	215	220	214	205	201	215	204	200	222	277	260	210	215	211	209	219	230	218
9	237	228	195	208	211	201	203	218	220	221	192	157	155	166	143	148	152	175	203	217	263	269	247	227	206
10	218	226	216	223	227	234	236	240	257	270	272	320	3	30	65	71	96	99	130	143	143	131	99	102	220
11	53	57	65	80	85	93	90	96	106	115	134	130	95	63	75	79	67	70	75	76	75	59	68	62	83
12	39	354	343	5	350	355	7	48	56	59	61	64	65	63	62	62	59	64	67	74	62	38	15	5	52
13	339	354	349	314	301	314	330	86	102	212	250	241	104	94	131	172	155	112	122	161	170	181	187	210	151
14	201	207	215	203	213	227	232	256	261	282	237	114	217	333	38	51	38	13	34	25	46	55	36	220	340
15	334	33	345	348	354	353	0	12	33	42	39	49	35	33	32	41	37	38	48	39	4	360	4	5	27
16	359	1	359	353	358	353	358	13	29	39	31	35	30	38	28	33	36	40	48	58	26	355	3	358	25
17	353	355	327	321	337	356	358	357	21	41	47	62	67	64	59	66	63	69	73	80	81	79	50	35	44
18	105	288	305	342	356	5	357	14	105	109	69	84	93	84	101	111	105	112	138	149	148	166	146	141	106
19	132	132	140	130	145	223	218	206	179	177	149	155	139	138	147	116	141	142	147	152	152	140	126	133	145
20	132	124	122	116	128	78	44	112	88	72	85	99	94	87	90	87	93	89	73	55	46	52	349	322	87
21	294	294	287	276	272	274	282	235	266	313	2	21	349	317	27	95	99	114	135	141	136	148	143	153	95
22	143	156	150	195	218	215	200	198	201	187	232	247	254	121	116	129	183	211	262	255	220	224	244	199	191
23	234	285	260	253	214	188	193	155	150	172	180	182	168	167	131	152	318	331	22	128	123	133	161	181	166
24	249	222	213	170	234	164	194	212	185	158	146	156	156	200	291	14	50	62	62	59	42	78	51	44	165
25	46	44	52	39	26	8	2	48	55	55	61	62	51	48	58	63	62	51	88	91	56	74	79	181	55
26	302	0	14	10	334	335	52	199	202	68	73	95	110	112	121	128	144	128	127	134	157	165	182	201	128
27	216	216	216	222	220	216	209	199	200	201	195	196	186	194	183	179	202	181	185	202	206	207	218	288	199
28	260	226	210	281	293	309	312	3	24	34	49	56	36	42	75	71	84	86	99	115	125	140	152	133	64
29	134	131	138	130	146	152	131	162	175	160	159	160	161	169	174	192	299	30	111	123	132	194	220	209	168
30	221	227	223	225	228	223	222	229	235	225	197	201	206	230	227	232	196	204	212	244	230	216	197	213	221
31	233	250	230	227	227	232	245	241	267	269	240	257	257	270	214	238	279	10	111	145	246	257	241	255	245
Avg	223	229	221	226	231	240	244	222	217	199	172	159	156	145	128	135	123	112	132	150	172	188	210	211	173
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 2008

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	1.7	1.2	2.8	3	2.9	2.8	2.6	2	2.9	4	4	5.2	6.6	6	6.4	6.3	5.4	2.9	1.8	1.8	1	1.3	2.7	2.6	3.3
2	2.6	1.7	2	2.3	1.8	1.5	2.4	2.3	2.3	4.2	4.6	4.6	4.6	5.7	4.4	5	4.3	4.5	3.2	0.6	1.9	1.8	2.4	3	3.1
3	2	3	3	3.1	3.2	2.8	3.5	6	6.8	5.9	6.8	7.5	6.8	6.5	6.7	6.7	8.5	8.2	6.9	6.3	5.1	4.7	3.9	4.1	5.3
4	3.9	2.7	3	3.1	3.1	3.3	4.9	5.2	5.3	5.2	5.4	5.8	6.6	7.2	7.4	5.5	6.7	10.2	7.5	5	6.4	7.5	6	5.2	5.5
5	4.8	4.6	1.7	1.7	2.4	1.6	3	4	5.7	4.8	3.9	4	5.2	6.5	5	6.1	6.1	4.5	3.6	4.4	4	3.4	1.7	1.3	3.9
6	1.5	2.2	3.6	3.1	3.2	3.3	2.6	3.6	3.6	4	5.3	6.2	6.3	6.1	6.1	6.7	2.7	4	5.4	3.4	3	3	2.9	2.9	3.9
7	1.9	1.2	0.6	1.3	2	2.1	2	2.9	3.7	4	5.4	5.4	5.8	6.2	6.2	7.3	6.4	7.1	5.2	3.8	4.6	4.3	3.7	3.7	4
8	4	3.3	3.9	3.7	2.7	2.4	4	5.2	5.8	5.6	5.9	6.3	7.7	6	7.2	9.1	7	2.9	2.9	3.4	3.5	2.8	4.8	6.8	4.9
9	5.6	4.2	4	3.8	3.6	3.9	4.8	6.5	7.3	4.3	2.9	5.3	5.2	4.3	4.6	5.9	4.4	3.8	4.6	3.8	6.7	7.4	4.8	3.1	4.8
10	3.1	3.6	3.5	3.6	3.8	3.9	3.6	4.9	4.8	3.8	3.6	4.2	4	3.1	3.4	3.4	2.5	2.9	2.9	2.2	1.7	1.6	1.4	1.2	3.2
11	1.1	1.9	2.4	2.7	2.9	2.9	3.4	3	2.1	2.5	2.7	3.4	3.1	3	3.9	4.6	4.2	4.2	3.7	3.4	2.6	1.6	1.6	1.3	2.9
12	1.7	1.3	1.6	1.9	2.1	2.6	3.3	3.8	4.3	5.4	5.9	6.1	5.9	5.4	6	5.7	5.9	5.3	4.6	3.9	2.5	1.5	1	1.2	3.7
13	1.1	1.2	0.9	1	0.8	0.3	0.7	1.6	2.3	2.4	3.3	2.8	3.2	4.8	5.6	5	4.6	4.8	3.7	4.3	4.2	4.1	3.4	2.6	2.9
14	2.9	3.2	2.8	2.9	2.1	2.2	3.3	3.9	3.6	2.6	2.4	3.3	4.7	6.6	6.6	4.6	4.1	3.8	3.1	3	3.2	4	3.2	1.6	3.5
15	2.2	1.9	1.6	2.1	2.2	3.6	4.4	4.4	5.5	4.7	5.2	5.3	6.8	6.6	6.7	6.8	5.8	5.1	5	3.8	2.6	2.9	3.2	2.6	4.2
16	2	2.7	2.8	3.1	2.7	3	4.1	4.5	6.4	7.7	7	6.7	7.5	7.2	7.3	6.9	6.7	5.4	4.2	2.7	1.8	2	2.8	2.9	4.6
17	1.9	1.7	1.7	1.8	2.6	3.7	4	4	4.9	5.5	5.6	6	5.8	5.5	5.2	5.4	4.5	3.9	3.9	2.7	1.7	1.1	1.3	1	3.6
18	1.3	1.2	1.1	0.5	0.8	1.4	1.8	1.4	1.2	1.9	3.2	4.9	5.2	6.3	6.7	6.6	6.8	6.3	5	3.7	3	2	1.7	2.1	3.2
19	1.7	1.3	1.3	0.2	0.9	0.2	1	2.4	2.9	3.1	5.2	5.3	5.9	5.6	5.2	6.4	5.7	5.3	4.4	3.2	3	2.6	2.1	2.2	3.2
20	1.9	2.2	2.4	2.4	1.9	1.5	2.1	4.8	4.9	4.9	5.8	7.1	7.3	7.6	7.7	7.4	6.4	6.4	4.2	3	2.9	2.5	1.7	1.4	4.2
21	0.8	1.5	1.5	0.9	1.5	1.1	1.8	1.9	3	2.7	3.4	3.3	3.5	4.6	5.5	7	5.7	5.5	4.8	3	3	3.6	2.3	2	3.1
22	1.6	1.3	1.4	1.9	1.2	1.8	2.5	3.1	3.1	3.8	4.2	5.2	3.8	6	9	4.9	3.5	3.7	2.2	2	2	2.5	2.4	1.8	3.1
23	0.9	0.7	0.9	1.8	2.7	2	2	2.5	4.2	6.2	5.9	6.9	7.6	8.9	9.3	8.1	4.7	3.3	2.3	4.1	2.7	1.3	3.8	5.1	4.1
24	4.1	5.7	2.2	1.8	1.6	1.1	1.4	0.6	1.8	3.6	3.7	4.3	4.3	2.7	4.2	4.3	2.9	2.6	2.2	0.7	0.5	0.6	1.7	2.5	2.5
25	1.9	1.6	1.2	1.2	1.3	1.1	2.1	3.4	4.1	3.6	4.8	4.2	3.7	3.3	3.2	2.8	3.9	2.9	2.1	1.2	1.3	1.6	0.4	0.5	2.4
26	0.3	0.7	1.2	0.3	0.3	0.2	0.2	0.8	1.5	2.3	3.2	3.4	3.8	4	5.9	4.7	5	5.2	5.2	4	4.4	3.3	2.9	2.2	2.7
27	2.3	2.6	2.3	2	1.6	1.1	1.6	3	4.3	4.5	5.4	5.6	5.9	6	6.7	6.5	6.2	3.6	3.7	3.9	4.4	3.7	2.6	1.8	3.8
28	1.6	1.1	1	1.2	2.3	1.9	1.7	3	3.5	4.2	5.1	4.3	3.8	4.3	4.3	4.1	3.4	3.9	3	2.3	2.4	2.2	1.1	1.6	2.8
29	1.7	2.3	1.6	0.5	0.8	1.6	1.6	3.4	3.3	3.6	4.6	5	5	4.9	6.2	5.8	6.5	3.4	1.7	1.7	2	2.4	2.8	3.4	3.1
30	3.8	4	3	3.1	2.4	1.8	3.1	4.2	4.6	3.8	3.3	3.7	4.4	5.7	5.5	5.4	4.6	4	3.3	4	4.1	4	2.9	3.6	3.8
31	4.5	4.5	4	4.3	4.5	4.4	4.7	4.3	3.9	4.2	3.6	3.3	4.5	3.7	4.1	3.5	5.2	7.1	3.4	4.3	2.5	2.7	3.3	4.1	4.1
Avg	2.3	2.3	2.2	2.1	2.2	2.2	2.7	3.4	4	4.2	4.6	5	5.3	5.5	5.9	5.8	5.2	4.7	3.9	3.2	3	2.9	2.7	2.6	3.7
SD	1.3	1.3	1	1.1	1	1.1	1.2	1.4	1.5	1.3	1.2	1.3	1.4	1.5	1.5	1.4	1.4	1.7	1.4	1.3	1.4	1.6	1.2	1.4	0.8
S/A	0.55	0.56	0.46	0.52	0.45	0.53	0.45	0.42	0.38	0.31	0.27	0.25	0.26	0.26	0.25	0.24	0.28	0.36	0.36	0.39	0.47	0.55	0.46	0.53	0.22
Min	0.3	0.7	0.6	0.2	0.3	0.2	0.2	0.6	1.2	1.9	2.4	2.8	3.1	2.7	3.2	2.8	2.5	2.6	1.7	0.6	0.5	0.6	0.4	0.5	2.4
Max	5.6	5.7	4	4.3	4.5	4.4	4.9	6.5	7.3	7.7	7	7.5	7.7	8.9	9.3	9.1	8.5	10.2	7.5	6.3	6.7	7.5	6	6.8	5.5
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 2008

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	1009	1009	1009	1009	1009	1010	1010	1011	1012	1012	1012	1012	1012	1012	1011	1011	1012	1012	1012	1013	1013	1014	1014	1014	1014
2	1015	1015	1014	1015	1015	1016	1016	1017	1017	1018	1018	1017	1017	1017	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017
3	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018	1017	1016	1016	1015	1015	1015	1015	1015	1015	1016	1017	1017	1017
4	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1015	1014	1013	1013	1013	1012	1013	1013	1013	1014	1015	1015
5	1015	1016	1015	1014	1014	1014	1015	1015	1015	1015	1015	1015	1015	1015	1014	1013	1012	1013	1013	1014	1014	1015	1015	1014	1014
6	1014	1015	1014	1014	1015	1015	1015	1015	1015	1016	1016	1016	1016	1015	1015	1014	1014	1015	1016	1017	1017	1017	1017	1017	1015
7	1016	1016	1016	1016	1017	1017	1018	1018	1018	1018	1019	1019	1018	1018	1017	1017	1016	1016	1016	1017	1017	1018	1018	1018	1017
8	1018	1017	1017	1017	1018	1018	1018	1018	1018	1018	1017	1017	1016	1015	1015	1015	1016	1016	1015	1015	1015	1015	1015	1014	1016
9	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015	1015	1014	1014	1013	1012	1012	1011	1012	1013	1013	1013	1012	1014
10	1012	1013	1013	1013	1012	1013	1013	1014	1014	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1014
11	1015	1015	1015	1015	1015	1016	1016	1016	1016	1017	1017	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1016
12	1016	1016	1016	1016	1017	1017	1017	1018	1018	1018	1018	1018	1018	1017	1017	1016	1016	1015	1015	1015	1015	1015	1015	1015	1014
13	1014	1013	1013	1012	1012	1012	1012	1012	1013	1012	1012	1012	1011	1010	1009	1008	1008	1008	1007	1008	1008	1008	1009	1008	1010
14	1008	1008	1008	1008	1008	1008	1009	1009	1009	1010	1010	1010	1009	1010	1010	1010	1010	1010	1010	1011	1011	1012	1012	1012	1010
15	1011	1011	1012	1012	1012	1013	1014	1014	1015	1015	1016	1016	1016	1016	1015	1015	1016	1016	1016	1016	1016	1017	1017	1016	1015
16	1016	1016	1016	1016	1017	1017	1018	1018	1018	1018	1019	1019	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018
17	1018	1018	1017	1017	1018	1018	1018	1019	1019	1019	1019	1019	1019	1019	1018	1018	1018	1017	1017	1017	1017	1017	1017	1017	1018
18	1017	1017	1016	1016	1016	1017	1017	1018	1018	1018	1018	1018	1017	1017	1016	1016	1016	1016	1015	1016	1016	1017	1017	1016	1017
19	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1016	1016	1015	1015	1015	1014	1014	1014	1015	1015	1015	1015	1016
20	1014	1014	1014	1013	1013	1014	1014	1014	1014	1014	1014	1013	1013	1012	1012	1011	1011	1011	1011	1010	1010	1010	1010	1010	1012
21	1010	1009	1008	1008	1008	1008	1009	1009	1009	1009	1010	1010	1010	1009	1010	1009	1009	1010	1010	1010	1011	1011	1011	1011	1009
22	1011	1011	1010	1010	1011	1011	1012	1012	1012	1013	1012	1012	1012	1011	1013	1013	1012	1011	1011	1012	1012	1013	1013	1013	1012
23	1013	1012	1012	1013	1013	1014	1014	1013	1013	1013	1013	1013	1012	1011	1011	1011	1012	1012	1012	1012	1012	1012	1012	1012	1012
24	1012	1012	1011	1012	1013	1013	1014	1014	1014	1014	1015	1014	1014	1014	1014	1014	1014	1014	1015	1015	1016	1017	1017	1017	1014
25	1017	1017	1016	1017	1017	1018	1018	1019	1019	1019	1019	1019	1019	1019	1019	1018	1018	1018	1018	1017	1017	1018	1018	1017	1018
26	1017	1017	1016	1016	1016	1016	1016	1017	1017	1016	1016	1016	1015	1015	1014	1013	1013	1012	1012	1012	1012	1012	1012	1012	1014
27	1012	1011	1011	1010	1010	1011	1011	1011	1011	1011	1011	1010	1009	1009	1008	1008	1007	1007	1007	1007	1007	1008	1008	1009	1009
28	1008	1008	1008	1008	1008	1008	1009	1010	1011	1011	1011	1011	1011	1011	1011	1010	1010	1010	1011	1011	1012	1012	1013	1012	1010
29	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1011	1010	1010	1010	1010	1010	1010	1010	1010	1010	1010	1011
30	1010	1010	1010	1010	1009	1009	1010	1010	1010	1009	1009	1009	1008	1008	1007	1006	1006	1006	1006	1005	1007	1007	1007	1006	1008
31	1005	1005	1005	1005	1005	1005	1006	1006	1006	1006	1006	1006	1005	1005	1004	1003	1003	1003	1003	1004	1005	1005	1005	1005	1005
Avg	1014	1013	1013	1013	1013	1014	1014	1014	1015	1015	1015	1015	1014	1014	1013	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014
S D	3	3	3	3	3	3	3	3	3	3	3	3	4	4	4	4	4	4	4	4	4	4	3	4	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
Min	1005	1005	1005	1005	1005	1005	1006	1006	1006	1006	1006	1006	1005	1005	1004	1003	1003	1003	1003	1004	1005	1005	1005	1005	1005
Max	1018	1018	1017	1017	1018	1018	1018	1019	1019	1019	1019	1019	1019	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018
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 2008

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	12.7	12.7	13.1	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.2	13.2	13	12.9	12.9	12.8	12.8	12.8	12.8	13
2	12.8	12.7	12.7	12.7	12.7	12.7	13	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.9	12.8	12.8	12.8	12.7	12.9	
3	12.7	12.7	12.7	12.7	12.7	12.7	13	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13	13.1	13.1	12.9	12.9	12.8	12.8	12.8	12.7	12.9	
4	12.7	12.7	12.7	12.7	12.7	12.7	13	13.2	13.2	13.1	13.1	13	13	13	13	13	13	13.1	12.9	12.9	12.8	12.8	12.8	12.7	12.9	
5	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13.1	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.9	12.9	12.8	12.8	12.8	12.7	12.9	
6	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13.1	13.2	13.2	13.2	13.2	13.1	13.1	13.1	13.1	13.1	12.9	12.9	12.8	12.8	12.8	12.7	12.7	12.9	
7	12.7	12.7	12.7	12.7	12.6	12.7	12.9	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.9	12.8	12.8	12.8	12.8	12.9	
8	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13.2	13.1	13.1	13.1	13	13	13.1	13.1	13	12.9	12.8	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	12.7	12.9	13.2	13.2	13	13.1	13.2	13.2	13.2	13.3	13.3	13.2	13.2	13.1	12.9	12.9	12.9	12.8	12.8	13	
10	12.8	12.8	12.8	12.8	12.7	12.7	12.9	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.1	13.1	13.1	13.1	12.9	12.9	12.8	12.8	12.8	12.8	12.9	
11	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13	13	13.2	13.2	13.2	13.2	13.2	13.1	13.1	13.1	13.1	12.9	12.9	12.8	12.8	12.8	12.8	12.9	
12	12.8	12.7	12.7	12.7	12.7	12.7	13	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.9	12.8	12.8	12.8	12.7	12.9	
13	12.7	12.7	12.7	12.7	12.7	12.7	13	13.2	13.1	13.1	13	13	13	13	13	13	13	12.9	12.9	12.8	12.8	12.8	12.7	12.7	12.9	
14	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13.2	13.1	13.1	13	13	13	13	13.1	13.2	13.1	13	12.9	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	12.9	13.2	13.2	13.2	13.2	13.2	13.2	13.1	13.1	13.1	13.1	13	12.9	12.9	12.8	12.8	12.8	12.8	12.9	
16	12.8	12.7	12.7	12.7	12.7	12.7	13	13.2	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.8	12.8	12.8	12.8	12.7	12.9	
17	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13.2	13.2	13.1	13.1	13	13.1	13.1	13.1	13.1	13	12.9	12.9	12.8	12.8	12.8	12.7	12.7	12.9	
18	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	12.9	12.9	12.8	12.8	12.8	12.7	12.7	12.9	
19	12.7	12.7	12.7	12.7	12.7	12.6	12.9	13.1	13.1	13.1	13	13	13	13	13	13	13	13.1	13	12.9	12.8	12.8	12.8	12.7	12.9	
20	12.7	12.7	12.7	12.7	12.7	12.6	12.8	13.1	13.1	13	13	13	13	13	13	13	13	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9	
21	12.7	12.7	12.7	12.7	12.6	12.6	12.9	13.2	13.1	13	13	12.9	12.9	13	13	13	13	13	12.9	12.8	12.8	12.7	12.7	12.7	12.9	
22	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.1	13	13	12.9	12.9	12.9	12.8	12.9	13.1	13.1	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.8	
23	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.1	13.1	13.1	13	13	13	13	13.1	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8	
24	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	13.1	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9	
25	12.7	12.7	12.7	12.7	12.6	12.6	12.9	13.2	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.2	13.2	13.1	12.9	12.9	12.8	12.8	12.8	12.7	12.9	
26	12.7	12.7	12.7	12.7	12.7	12.7	13	13.2	13.1	13	13	13	13	13	13	13	13	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9	
27	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13.2	13.1	13.1	13	13	13	13	13	13	13	13.1	13	12.9	12.8	12.8	12.8	12.8	12.9	
28	12.7	12.7	12.7	12.7	12.7	12.6	12.9	13.2	13.1	13.1	13	13	13	13	13	13	13	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9	
29	12.7	12.7	12.7	12.7	12.6	12.6	12.7	13.2	13.1	13.1	13	13	13	13	13	13	13	13	12.9	12.8	12.8	12.7	12.7	12.7	12.9	
30	12.7	12.7	12.7	12.7	12.6	12.6	12.8	13.2	13.1	13.1	13	13	13	13	13	13	13	12.9	12.9	12.8	12.8	12.7	12.7	12.7	12.9	
31	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.2	13.1	13	13	13	13	13	12.9	12.9	12.9	12.9	12.9	12.8	12.7	12.7	12.7	12.7	12.8	
Avg	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.9	12.8	12.8	12.8	12.7	12.7	12.9	
SD	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		
S/A	0	0	0	0	0	0	0.01	0.01	0	0	0.01	0.01	0.01	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	12.6	12.6	12.6	12.7	13	13	12.9	12.9	12.9	12.9	12.8	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8		
Max	12.8	12.8	12.8	12.8	12.7	12.7	13.1	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.3	13.3	13.2	13.2	13.1	12.9	12.9	12.9	12.8	12.8	13	
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928	

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

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

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

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