

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

July 2007

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	21	104	357	423	457	568 ?	540 ?	?	?	?	?	?	?	62 ?	9	0	0	0	0	2543 ?	
2	0	0	0	0	0	38	130	335	530 ?	536 ?	608	568 ?	525 ?	317 ?	482 ?	?	?	?	58 ?	9	0	0	0	0	4137 ?	
3	0	0	0	0	2	63	185	402	518 ?	?	?	?	?	?	?	?	?	?	60 ?	8	0	0	0	0	1238 ?	
4	0	0	0	0	2	29	100	178	545 ?	565 ?	?	?	?	?	?	?	272 ?	?	57 ?	11	0	0	0	0	1759 ?	
5	0	0	0	0	3	49	156 ?	?	?	?	?	?	?	?	?	?	?	147 ?	48 ?	6	0	0	0	0	409 ?	
6	0	0	0	0	2	30	162	?	?	?	504 ?	444 ?	?	?	?	?	173 ?	110	77	14	0	0	0	0	1517 ?	
7	0	0	0	0	5	49	122 ?	?	?	?	?	?	?	?	228 ?	181	67 ?	74	47	14	0	0	0	0	787 ?	
8	0	0	0	0	6	46	146 ?	?	?	?	?	?	?	?	?	?	130	168 ?	57	9	0	0	0	0	560 ?	
9	0	0	0	0	3	41	146 ?	?	?	?	?	?	?	?	?	?	?	?	52 ?	8	0	0	0	0	251 ?	
10	0	0	0	0	4	42	139 ?	201 ?	249 ?	310 ?	284 ?	231 ?	?	354 ?	222 ?	359 ?	112	?	1 ?	0	0	0	0	0	2508 ?	
11	0	0	0	0	3	36	?	?	?	?	?	?	?	?	?	160	183 ?	?	24 ?	2	0	0	0	0	408 ?	
12	0	0	0	0	3	11	97	166 ?	?	?	?	?	?	595	574	375	282	180	68	8	0	0	0	0	2359 ?	
13	0	0	0	0	2	27	115	318	377	326	491	890	751	270	156	126	91	35 ?	14	3	0	0	0	0	3993	
14	0	0	0	0	2	38	271 ?	333	400	634	826	982	907	701	569	549	245	116	57	10	0	0	0	0	6642	
15	0	0	0	0	0	33	157	317	545	670	646	817	679	762	694	577	414	233	44	7	0	0	0	0	6596	
16	0	0	0	0	0	32	126	312	338	613	762	728	743	825	548	566	415	228	66	1	0	0	0	0	6301	
17	0	0	0	0	0	31	162	349	538	703	828	830	666	446	87 ?	?	57	34	11	0	0	0	0	0	4741	
18	0	0	0	0	0	10	78	232	451	700	738	603	714 ?	734 ?	576 ?	493	327	232	76	8	0	0	0	0	5973 ?	
19	0	0	0	0	0	34	166	351	550	706	811 ?	?	?	?	?	?	356 ?	198 ?	38	9	0	0	0	0	3219 ?	
20	0	0	0	0	0	31	158	340	541	638	714	698	190	?	335	109	43	58	33	7	0	0	0	0	3895 ?	
21	0	0	0	0	0	29	104	342	370	584	780	653	613	574	565	?	268 ?	219	92	6	0	0	0	0	5198 ?	
22	0	0	0	0	0	27	182	377	493	561	762	669 ?	582	602	344	229	125	88	61	17	0	0	0	0	5119	
23	0	0	0	0	0	29	132	344	588	700	713 ?	360	279 ?	?	444 ?	307 ?	?	205 ?	93	10	0	0	0	0	4204 ?	
24	0	0	0	0	0	34	188	316	519	709	466	356 ?	?	647 ?	325 ?	381 ?	?	218	69	6	0	0	0	0	4236 ?	
25	0	0	0	0	0	32	183	309	572	698 ?	786 ?	649	713	712 ?	661	455	276	207	101	9	0	0	0	0	6363 ?	
26	0	0	0	0	0	8	46	180	332	432 ?	?	826 ?	?	?	592 ?	447 ?	181	234	69	3	0	0	0	0	3352 ?	
27	0	0	0	0	0	31	145	342	534	659 ?	?	?	491 ?	423	479 ?	554 ?	266	56 ?	12 ?	11	0	0	0	0	4004 ?	
28	0	0	0	0	0	21	143	311	532	675 ?	?	?	?	558 ?	285	54 ?	99	132	45	7	0	0	0	0	2861 ?	
29	0	0	0	0	0	31	157	333	424	443 ?	?	581 ?	619 ?	560 ?	569 ?	327	224	87	7	1	0	0	0	0	4362 ?	
30	0	0	0	0	0	17	103	242	229	153	96 ?	101 ?	113	260	504 ?	430 ?	176	143	61	6	0	0	0	0	2634 ?	
31	0	0	0	0	0	20	161	334	473	343 ?	452 ?	575 ?	419 ?	?	?	?	?	372 ?	229	58	3	0	0	0	3438 ?	
Avg	0	0	0	0	1	31	142	305	461	557	623	605	563	549	440	351	215	151	52	7	0	0	0	0	3407 ?	
S D	0	0	0	0	2	12	41	65	102	157	200	224	218	177	173	168	113	70	25	4	0	0	0	0	1945	
S/A	0	0	0	0	1.31	0.38	0.29	0.21	0.22	0.28	0.32	0.37	0.39	0.32	0.39	0.48	0.52	0.46	0.48	0.6	0	0	0	0	0	0.57
Min	0	0	0	0	0	8	46	166	229	153	96	101	113	260	87	54	43	34	1	0	0	0	0	0	251	
Max	0	0	0	0	6	63	271	402	588	709	828	982	907	825	694	577	415	234	101	17	0	0	0	0	6642	
n	0	0	0	0	20	358	319	283	256	210	170	168	144	157	174	178	246	255	329	102	0	0	0	0	3385	

Daylight Data Recovery: 0.0% missing; 0.0% untested; 36.3% exceed the 15% QC threshold -- 5317 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31256F3 Calibration Factor: 7.561 μV/W/m² Calibration Date: 08/2003

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 2007

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	4	152	136	138	170	48 ?	?	?	?	?	?	?	98 ?	4	0	0	0	0	749 ?
2	0	0	0	0	0	28	20	253	521 ?	249 ?	134	73 ?	106 ?	19 ?	75 ?	?	?	?	82 ?	3	0	0	0	0	1564 ?
3	0	0	0	0	1	139	151	421	458 ?	?	?	?	?	?	?	?	?	?	53	0	0	0	0	0	1222 ?
4	0	0	0	0	0	8	1	23	282	161 ?	?	?	?	?	?	?	28 ?	?	18 ?	0	0	0	0	0	522 ?
5	0	0	0	0	0	74	186 ?	?	?	?	?	?	?	?	?	?	?	13 ?	5 ?	0	0	0	0	0	279 ?
6	0	0	0	0	0	1	48	?	?	?	20 ?	9 ?	?	?	?	?	1 ?	0	0	0	0	0	0	0	79 ?
7	0	0	0	0	0	20	47 ?	?	?	?	?	?	?	?	0 ?	0	0	0	1	0	0	0	0	0	70 ?
8	0	0	0	0	0	9	31 ?	?	?	?	?	?	?	?	?	?	1	4 ?	1	0	0	0	0	0	45 ?
9	0	0	0	0	0	7	26 ?	?	?	?	?	?	?	?	?	?	?	?	2 ?	0	0	0	0	0	35 ?
10	0	0	0	0	0	10	32 ?	10 ?	15 ?	10 ?	3 ?	0 ?	?	4 ?	1 ?	10 ?	0	0	0	0	0	0	0	0	94 ?
11	0	0	0	0	0	5	?	?	?	?	?	?	?	?	?	0	5 ?	?	1	0	0	0	0	0	11 ?
12	0	0	0	0	0	0	2	9 ?	?	?	?	?	?	253	341	191	190	212	135	3	0	0	0	0	1336 ?
13	0	0	0	0	0	6	53	164	81	33	54	477	243	1	0	0	0	1	1	0	0	0	0	0	1113
14	0	0	0	0	0	136	570 ?	486	205	349	529	695	616	312	214	331	68	3	0	0	0	0	0	0	4514
15	0	0	0	0	0	24	216	263	559	530	292	384	244	326	380	349	351	285	0	0	0	0	0	0	4203
16	0	0	0	0	0	3	41	146	13	178	259	107	184	443	238	321	366	286	114	0	0	0	0	0	2700
17	0	0	0	0	0	39	251	467	569	604	586	455	220	154	0	0 ?	1	1	0	0	0	0	0	0	3346
18	0	0	0	0	0	2	5	90	288	463	348	171	243 ?	260 ?	240 ?	191	175	244	102	0	0	0	0	0	2821 ?
19	0	0	0	0	0	27	222	443	564	556	546	?	?	?	?	?	274	123	5	1	0	0	0	0	2762 ?
20	0	0	0	0	0	72	273	439	537	327	213	162	4 ?	?	24	0	0	0	32	1	0	0	0	0	2083 ?
21	0	0	0	0	0	2	42	365	86	340	370	111	53	50	79	?	101 ?	198	271	0	0	0	0	0	2069
22	0	0	0	0	0	51	462	604	398	298	306	134 ?	71	74	18	1	0	0	86	0	0	0	0	0	2502
23	0	0	0	0	0	7	66	468	627	514	341 ?	32	18 ?	?	120 ?	98 ?	?	228	205	0	0	0	0	0	2725 ?
24	0	0	0	0	0	114	465	378	440	464	135	122 ?	?	177 ?	39 ?	121 ?	268 ?	234	166	0	0	0	0	0	3122 ?
25	0	0	0	0	0	39	385	379	564	547	298 ?	125	141	162 ?	212	125	96	188	281	0	0	0	0	0	3542
26	0	0	0	0	0	0	0	13	71	158 ?	?	130 ?	?	?	237 ?	267 ?	97	386	261	0	0	0	0	0	1619 ?
27	0	0	0	0	0	41	169	472	503	510 ?	?	?	101 ?	86	138 ?	407 ?	177	0	0	1	0	0	0	0	2603 ?
28	0	0	0	0	0	40	252	375	447	427 ?	?	249 ?	?	121 ?	60 ?	0	3	11	0	0	0	0	0	0	1986 ?
29	0	0	0	0	0	74	280	416	299	159 ?	?	140 ?	132 ?	134 ?	195 ?	54	60	9	0	0	0	0	0	0	1954 ?
30	0	0	0	0	0	26	36	103	14	0	0	0	0	3	52 ?	219 ?	29	142	186	0	0	0	0	0	810
31	0	0	0	0	0	2	325	513	323	137 ?	159 ?	145 ?	88 ?	?	?	?	454 ?	425	204	0	0	0	0	0	2774 ?
Avg	0	0	0	0	0	32	155	298	333	311	251	179	154	152	127	134	110	120	75	0	0	0	0	0	1782 ?
S D	0	0	0	0	0	39	162	186	210	192	179	179	149	130	117	140	136	138	94	1	0	0	0	0	1312
S/A	0	0	0	0	5.57	1.22	1.05	0.62	0.63	0.62	0.71	1	0.97	0.86	0.93	1.05	1.24	1.15	1.26	2.33	0	0	0	0	0.74
Min	0	0	0	0	0	0	0	9	13	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	11
Max	0	0	0	0	1	139	570	604	627	604	586	695	616	443	380	407	454	425	281	4	0	0	0	0	4514
n	0	0	0	0	20	359	324	283	265	221	182	180	142	160	182	194	260	279	344	102	0	0	0	0	3514

Daylight Data Recovery: 0.0% missing; 0.0% untested; 33.9% exceed the 15% QC threshold -- 5317 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25521E6 Calibration Factor: 8.034 μV/W/m² Calibration Date: 06/2002

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 2007

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	3	21	104	259	299	326	379	464 ?	?	?	?	?	?	?	26 ?	8	0	0	0	0	1889 ?	
2	0	0	0	0	0	35	123	157	121 ?	225 ?	405	453 ?	329 ?	278 ?	316 ?	?	?	?	32 ?	9	0	0	0	0	2484 ?	
3	0	0	0	0	2	47	125	131	136 ?	?	?	?	?	?	?	?	?	?	43	8	0	0	0	0	492 ?	
4	0	0	0	0	3 ?	28	100	160	251	390 ?	?	?	?	?	?	?	201 ?	?	34 ?	10	0	0	0	0	1178 ?	
5	0	0	0	0	4 ?	30	68 ?	?	?	?	?	?	?	?	?	?	?	91 ?	32 ?	6	0	0	0	0	230 ?	
6	0	0	0	0	3 ?	29	112	?	?	?	382 ?	386 ?	?	?	?	?	153 ?	110	75	14	0	0	0	0	1265 ?	
7	0	0	0	0	4	34	72 ?	?	?	?	?	?	?	?	228 ?	178	63 ?	70	47	14	0	0	0	0	710 ?	
8	0	0	0	0	?	39	104 ?	?	?	?	?	?	?	?	?	?	122	143 ?	47	9	0	0	0	0	464 ?	
9	0	0	0	0	?	36	100 ?	?	?	?	?	?	?	?	?	?	?	?	40 ?	8	0	0	0	0	184 ?	
10	0	0	0	0	?	33	93 ?	172 ?	204 ?	265 ?	255 ?	225 ?	?	321 ?	219 ?	270 ?	104	21 ?	1 ?	0	0	0	0	0	2182 ?	
11	0	0	0	0	?	26	?	?	?	?	?	?	?	?	?	159	156 ?	?	30	2	0	0	0	0	372 ?	
12	0	0	0	0	?	11	82	150 ?	?	?	?	?	?	342	286	233	175	113	50	8	0	0	0	0	1450 ?	
13	0	0	0	0	?	27	98	251	332	302	445	396	507	270	156	126	91	30	14	3	0	0	0	0	3047	
14	0	0	0	0	?	23	63	126	262	348	319	275	255	379	372	292	203	116	57	10	0	0	0	0	3098	
15	0	0	0	0	0	31	97	196	179	249	378	426	426	425	340	311	221	136	44	7	0	0	0	0	3464	
16	0	0	0	0	0	35	114	255	335	454	502	609	529	338	304	306	193	123	48	1	0	0	0	0	4145	
17	0	0	0	0	0	27	97	143	172	201	233	293	386	245	83 ?	40 ?	57	31	11	0	0	0	0	0	2019	
18	0	0	0	0	0	11	78	186	243	272	340	367	361 ?	357 ?	311 ?	284	192	119	55	8	0	0	0	0	3182 ?	
19	0	0	0	0	0	33	104	144	162	186	181	?	?	?	?	?	159	116 ?	35	8	0	0	0	0	1129 ?	
20	0	0	0	0	0	27	90	141	169	320	452	456	175	?	297	97	42	58	30	7	0	0	0	0	2359	
21	0	0	0	0	0	29	88	176	311	255	303	486	525	490	448	?	188 ?	119	36	5	0	0	0	0	3461	
22	0	0	0	0	0	21	57	86	205	243	355	449 ?	463	481	320	229	125	88	50	20 ?	0	0	0	0	3194	
23	0	0	0	0	0	29	112	111	120	180	258 ?	308	245 ?	?	273 ?	199 ?	?	107	51	10	0	0	0	0	2004 ?	
24	0	0	0	0	0	21	81	141	183	229	299	242 ?	?	321 ?	257 ?	239 ?	163 ?	91	47	6	0	0	0	0	2320 ?	
25	0	0	0	0	0	30	86	135	148	166	380 ?	488	509	485 ?	392	327	223	143	65	9	0	0	0	0	3586	
26	0	0	0	0	0	8	46	176	271	249 ?	?	601 ?	?	?	265 ?	202 ?	124	103	32	4	0	0	0	0	2081 ?	
27	0	0	0	0	0	28	87	112	139	159 ?	?	?	345 ?	285	286 ?	184 ?	133	52	12 ?	11	0	0	0	0	1832 ?	
28	0	0	0	0	0	20	78	132	188	226 ?	?	351 ?	?	373 ?	220	48	99	131	45	7	0	0	0	0	1918 ?	
29	0	0	0	0	0	23	82	129	196	261 ?	?	333 ?	384 ?	321 ?	319 ?	264	190	85	7	1	0	0	0	0	2594 ?	
30	0	0	0	0	0	16	93	202	218	153	85 ?	79	113	260	415 ?	212 ?	157	104	29	5	0	0	0	0	2141 ?	
31	0	0	0	0	0	21	61	81	197	178 ?	278 ?	316 ?	242 ?	?	?	?	99 ?	63	28	2	0	0	0	0	1567 ?	
Avg	0	0	0	0	1	27	90	158	210	254	328	381	362	351	291	210	145	94	37	7	0	0	0	0	2001 ?	
S D	0	0	0	0	1	8	19	47	65	76	100	125	129	79	84	84	52	35	17	4	0	0	0	0	1085	
S/A	0	0	0	0	1.85	0.32	0.21	0.3	0.31	0.3	0.31	0.33	0.36	0.22	0.29	0.4	0.36	0.38	0.45	0.63	0	0	0	0	0	0.54
Min	0	0	0	0	0	8	46	81	120	153	85	79	113	245	83	40	42	21	1	0	0	0	0	0	184	
Max	0	0	0	0	4	47	125	259	335	454	502	609	529	490	448	327	223	143	75	20	0	0	0	0	4145	
n	0	0	0	0	10	350	329	283	265	222	180	179	148	160	181	192	259	266	337	101	0	0	0	0	3479	

Daylight Data Recovery: 0.0% missing; 0.0% untested; 34.6% exceed the 15% QC threshold -- 5317 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17880F3 Calibration Factor: 8.067 μV/W/m² Calibration Date: 07/2002

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 2007

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	21.6	21.8	21.3	21.1	21.2	21.5	22.2	23.5	24.5	25.1	26.1	25.4	25.1	25.8	25.7	25.4	25.1	24.5	23.3	21.9	21.3	20.9	20.4	20.3	23.1
2	20.1	20	20.1	19.8	19	18.6	19.8	21.1	23	23.8	24.2	24.7	25.2	24.2	24.2	23.9	23.6	22.9	22.1	21	20.6	20.2	19.9	18.6	21.7
3	18.4	17.9	17.4	17.6	17.1	18.4	20.1	21.8	22.6	23	23.4	24.5	24.8	24.7	24.4	24.2	23.7	23.4	22.8	21.6	20.8	20.4	20	19.6	21.4
4	19.5	20	20.3	20.3	20.2	20.7	21.3	22.3	24	25	25.6	26.3	27	27.7	28	28.1	27.7	27.4	26.3	24.9	24.1	23.7	23.4	23.1	24
5	22.6	22	21.8	21.6	21.4	21.6	22.9	24.5	25.6	26.7	27.6	28.6	29.6	29.9	30	30	29.7	28.9	28.2	26.8	26.1	25.6	25	24.7	25.9
6	24.3	24.1	23.9	23.6	23.5	23.4	24.1	25.5	26.8	28	29	29.9	30.8	31.4	31.9	32.4	32.1	28.1	27.4	26.2	25.8	25.3	24.8	24.3	26.9
7	23.9	23.5	23.1	22.8	22.7	22.9	24.4	26.2	28	29	30	30.5	31	31.6	31.2	29.8	28.9	24.7	25.6	25.3	24.4	24.3	23.8	23.8	26.3
8	23.4	22.9	22.6	22.2	21.8	21.9	22.7	23.9	25.6	27.2	29	30.4	30.8	31.8	31.7	32	30.9	30	29.5	28.5	27.6	26.9	26.3	25.7	26.9
9	25.2	24.7	24.5	24.2	24	23.9	24.7	26	27.5	29	30.7	31.5	31.8	32.2	32.8	32.7	32.1	31.6	30.5	29.2	28.2	27.3	26.7	26.2	28.2
10	25.8	25.5	25.7	25.4	25	25	25.8	27	28	29.3	29.8	30	31.6	30.8	29.8	29.9	28.6	27.3	26.5	24.5	23.4	23.4	23.5	23.4	26.9
11	23.1	22.9	22.8	22.6	22.4	22.5	23.2	24.6	26.4	28.1	30	31.3	32	32.7	33	32.4	31.1	33.1	32	28.4	23.6	23.3	23.3	23.2	27
12	23.2	23.2	23.2	23.4	23.2	22.9	22.7	23.7	25.1	26.3	27.5	28.5	29	29.4	29.5	29.5	29	28.5	27.4	26.5	26	25.1	24.7	24.4	25.9
13	24.5	23.7	23	22.1	21.6	21.8	22.7	25	25.8	26	27	27.8	29.7	29.5	28.4	26.7	25.5	23.9	23.5	23.6	23.3	23.1	22.6	21.9	24.7
14	21.2	20.7	20.3	19.7	19.3	19	20.8	23.3	24.8	26	27.1	28.4	28.4	28.8	28.9	29.2	28.9	27.9	27	26.3	25.6	25.2	25.1	25	24.9
15	24.8	24.1	23.8	23.6	23.4	23.2	23.9	24.8	25.8	27.2	27.9	28.7	29.2	29.7	30.3	30.7	30.6	30	28.9	27.9	27.4	26.9	26.3	25.8	26.9
16	25.6	25.1	24.5	24.1	23.9	23.9	24.3	25.6	26.4	28	28.9	29.4	30.1	30.8	30.5	29.4	31.2	31.2	30.5	29	28.2	27.6	27.1	26.8	27.6
17	26	25.3	24.7	24.2	23.7	23.7	24.1	25.6	27.2	29.2	30.4	32	31.5	31.9	30	25.4	23.8	24.6	24.3	23.4	22.7	22.4	22.6	22.8	25.9
18	22.8	22.7	22.7	22.5	22	22.2	23	23.6	25.1	26.6	28	28.7	29.5	30.2	31	31	31.1	31.1	30.3	29.2	28	27.4	26.6	25.9	26.7
19	25.7	25.5	25.2	25	24.8	24.9	25.3	26.5	27.9	29.6	31	32.3	33	33.7	34.2	34	33.9	32.3	26.8	25.4	25.6	25.9	26.6	27.1	28.4
20	27.1	26.2	25.7	25.3	25.2	25.1	25.7	26.7	28.3	29.2	29.9	29.7	25.5	26.7	26.3	25	24.6	23.6	23.9	24	23.6	23.5	23.3	22.9	25.7
21	22.4	21.9	21.5	21.2	21.3	21.1	21.1	22.5	23.7	23.8	24.6	25.5	25.4	25.4	25.2	25.5	25.1	24.2	23.3	22.2	21.3	20.8	20.2	19.5	22.9
22	19.4	19.1	18.5	18.7	19.5	19.3	19.8	22.1	23.8	24.9	25.4	25.8	25.6	25.5	25.1	24.6	24.2	23.8	23.7	23.3	22.5	22.2	21.9	21.5	22.5
23	21.3	21.2	21	20.8	20.3	19.1	18.9	21	23.3	24	25	25.3	26	27	27	25.6	25.8	25.7	24.8	23.4	22.5	21.7	21.3	20.8	23
24	20	19.5	19.3	18.7	18.5	18.4	20.5	23	24.4	26.1	27.8	28.2	28.8	29.1	27.9	27.6	27.2	26.7	25.2	24.1	23.5	22.9	22.4	22.2	23.8
25	21.8	20.8	20.4	20.2	19.9	20.2	21.8	23.5	25.7	27.1	28.3	28.6	29.6	29.3	29	28.4	27.3	26.7	26.3	24.8	24.1	23.7	23.3	23.4	24.8
26	23.4	22.9	22.5	22.8	22.5	22.2	22.5	23.3	25	26.5	28.1	29.1	29.6	29.3	29.7	29.1	27.9	27.2	26.2	25.1	24.5	24.2	24	23.5	25.5
27	22.8	22.5	22.4	22.2	22	22.2	23.1	25	27	28.3	30.1	31.3	32	31.5	31.8	31.9	30.3	28.2	23.9	21.2	22.5	22.8	23.1	23.2	25.9
28	22.8	22.5	22.5	22.1	21.6	21.5	22.4	23.8	25.5	27.8	28.8	29.4	30.4	31.3	28.5	23.9	24.7	26	26.2	25.8	25.5	25.2	25.1	24.7	25.3
29	24.4	24.2	23.9	23.8	23.4	23.4	24.1	25.7	27	27.4	28.8	29.6	30.4	29.8	30.2	29.2	28.4	28.7	28	27.2	26.7	26.1	25.6	25.2	26.7
30	25	24.5	24.3	24	23.9	23.9	24.6	26.4	26.9	25.4	23.9	21.9	22.2	23.2	25.4	27.5	27.3	25.8	26.2	25.4	24.9	24.3	23.9	23.5	24.8
31	23.1	22.9	22.9	22.7	22.5	22.5	23.2	25.1	26.5	27.3	27.8	28.3	28.3	28.9	29	28.7	28.6	28	26.8	25.4	24.7	24.1	23.3	22.9	25.6
Avg	23.1	22.7	22.4	22.2	22	22	22.8	24.3	25.7	26.8	27.8	28.4	28.8	29.2	29	28.5	28	27.3	26.4	25.2	24.5	24.1	23.7	23.4	25.3
S D	2.2	2.1	2.1	2	2	2	1.8	1.7	1.6	1.8	2.1	2.5	2.7	2.7	2.6	2.9	2.9	2.8	2.5	2.4	2.2	2.1	2.1	2.2	1.8
S/A	0.09	0.09	0.09	0.09	0.09	0.09	0.08	0.07	0.06	0.07	0.08	0.09	0.09	0.09	0.09	0.1	0.1	0.1	0.1	0.09	0.09	0.09	0.09	0.09	0.07
Min	18.4	17.9	17.4	17.6	17.1	18.4	18.9	21	22.6	23	23.4	21.9	22.2	23.2	24.2	23.9	23.6	22.9	22.1	21	20.6	20.2	19.9	18.6	21.4
Max	27.1	26.2	25.7	25.4	25.2	25.1	25.8	27	28.3	29.6	31	32.3	33	33.7	34.2	34	33.9	33.1	32	29.2	28.2	27.6	27.1	27.1	28.4
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

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 2007

Relative Humidity (Roof)
Hourly and Daily Averages
Instrument: CSI HMP-35C
Percent

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	?	?	?	?	?	?	?	101.5 ?	97.5	89.8	80.7	79.8	69.6	66.7	67.9	69.2	70.2	70.4	75	81.7	85.4	86.4	87.5	88.9	80.5 ?
2	91.8	95.4	93.4	93.5	97.6	100.5	96.1	90.3	76.5	67.7	60.7	59.7	62.9	73.6	73.8	73.9	73.4	75.7	75.7	77.5	78.2	79.8	79.9	89.1	80.7
3	89.9	93.6	98.6	99.9	102.5	98.5	92.3	76.3	63.9	63	60.4	55.3	54.4	55.9	57.5	58.3	60.3	61.6	63.5	69.6	73.6	77.6	83.2	87.6	74.9
4	91.5	93.9	94.7	94.5	94	92.9	93.5	88.5	74.4	67.8	65.7	65.4	64	61.4	61	58.2	58.1	61.5	70.8	77.2	83.8	86.7	89.7	91.5	78.4
5	93.7	97.4	99.8	101.1	102.9	103.3	100.1	94.4	90	81.1	77.2	70.3	65.4	70.2	70.4	74.1	76.9	79.2	81.3	90	91.4	94.1	97	98.9	87.5
6	100.5	99.6	100.7	103.1	104.1	104.8	102.6	97.6	91.1	84	80.3	76.4	71.8	66.7	66.4	59.3	59.2	81.7	81.8	89.9	94.8	101.6	103.8	?	87.9
7	?	?	?	?	?	?	104.1 ?	99.6	94.5	90.2	78.3	74.7	69.2	73.7	74.1	81.4	81.3	100.6	100.4	94.7	99.5	100.3	101	101.2	89.9 ?
8	102	103.8	104.6 ?	?	?	?	103.7 ?	100.5	96	88.2	81.4	74	73.5	64.2	65.2	64.7	70.6	77.4	78.7	81.7	92	92.9	97	100.4	86.3 ?
9	100.8	102.8	103.9	104.6	104.9 ?	?	103.4	98.2	91.5	85.1	75.6	70.8	68.5	66	63.3	68.6	72.4	72.2	79.1	84.2	91.4	95.8	99.5	102.3	87.2
10	104	104.8 ?	?	?	?	?	104.6 ?	99.8	94.6	88.6	88.4	88.1	81	84	88.1	89.8	94.4	97.6	100.7	101.6	104.4 ?	?	?	?	95.5 ?
11	?	?	?	?	?	?	104.6 ?	101.5	95.4	88.2	77.8	71.1	67.4	65.5	66.7	68.1	74.7	66.4	72.3	86.5	?	?	?	?	79 ?
12	?	?	?	?	?	?	102.1	93.1	78.2	69.3	64.7	59.6	59.7	60.9	62.8	63.3	69.9	73	78.1	81.5	83.7	87.9	89.3	89.4	75.9 ?
13	90.8	87.8	92.8	98.2	102	104.1	104 ?	82.4	74.5	78.2	74.6	71.8	57.1	61	67.2	83.7	87.8	96.8	102.1	104.2	103.6	103.4	104.2	104.7 ?	89
14	?	?	?	?	?	?	98.2 ?	86.6	78.9	72.4	67	60.5	60.8	54.9	52.7	56.8	61.8	69.5	76.1	79.8	84.7	93.4	99.7	101	75.3 ?
15	101.5	103.9	104	104.2	104.7 ?	104.9 ?	102.4	98	93.2	86.5	84.2	82.2	80.1	79	77	75.9	76.5	81.9	88.6	92.3	94.5	97.3	99.4	101.6	92.2
16	100.2	98.7	100.3	101.6	103.1	103.4	102.8	97.7	94.1	86.5	83.5	82.3	77.1	75.2	77.7	80.4	72.6	69.8	73.9	85	94	93.8	95.7	94.5	89.3
17	92.5	95.6	100	102.4	104.6 ?	?	104	98.1	89.4	77.3	74.2	70.5	78.3	71.9	79.5	90.8	100.2	100.9	101.8	104.2 ?	104.4	?	?	?	92 ?
18	?	?	?	?	?	?	104.9 ?	104.8 ?	101.2	94.8	90.3	87.7	84.1	80.7	77.4	76.9	77.3	75.6	80	85.3	91.7	95.2	98.1	99.6	89.2 ?
19	100.4	101.4	101.3	101.3	101.8	100.1	98.7	95.5	90.6	82.6	75.9	70	66.3	58.9	57.1	58.9	62.3	69.5	87.4	98.8	100.1	101.1	99.8	100.3	86.7
20	99.3	102.2	103.6	104.6	104.7	104.6	103.3	98.2	81.8	76.9	74.8	77.3	97.3	80.5	82.3	84.8	86.8	95.8	89.8	83.8	85.2	83.1	84.5	87.5	90.5
21	93	95.6	96.7	97.1	92.6	91.8	91.8	92.5	87.6	77.7	63.7	61.5	58.4	57	59.1	58.1	67.5	76.2	80.4	82	83.6	84.3	87	90.5	80.2
22	93.4	96.3	98.7	98.6	97.2	96.4	93.3	85.2	79.6	74.8	72.6	71.1	74.5	76.5	78.7	78.3	80.9	81.6	81.2	84.4	97.2	99.8	100.4	101.6	87.2
23	102.2	101.3	100.1	99.4	101.3	103.3	102.1	96.4	88.7	84.8	80.7	76	73.9	64.6	66	77.1	73.1	70.2	76.6	83.4	89.3	94.5	96.1	97.9	87.5
24	100.7	103.5	104.4	104.5 ?	?	?	101.4	95.6	87.3	75.5	68.3	66	54.8	57.3	68.9	65.7	65.7	66.4	80.2	90.6	95.5	97	99.1	100.9	84.1 ?
25	104	?	?	?	?	?	104.4 ?	100.7	90.7	79.8	72.8	69.1	65.9	66.9	67.9	69.9	73.5	72.5	71.1	85.2	94.6	98.6	101	103.5	83.8 ?
26	104.6	?	?	?	?	?	?	104.2 ?	96.4	80.4	72	73.6	75.4	77.9	76.5	79.2	83	85.6	92.2	97.6	100.5	100.9	102.1	103.6	89.2 ?
27	104.8 ?	?	?	?	?	?	?	100.1	91.4	85	72.2	61.6	58.4	65.2	60.4	60.4	75.5	86.9	84.2 ?	102	101.1	102	102.6	102.5	84.2 ?
28	103.5	102	99.1	98.9	100.4	101.3	101.4	100.8	96.9	87.8	85.1	80.2	78.6	74.1	79.6	95.8	94.4	91.2	91.3	96	98.9	101.5	103.5	104.7 ?	94.5
29	?	?	?	?	?	?	104.1 ?	100.1	93.9	91	79.5	75.7	75.1	78.2	75.3	81.9	85.3	79.8	86.7	94.6	95.4	97.4	100	102.2	88.7 ?
30	103.3	104.5 ?	?	?	104.8 ?	?	?	102.1	97.2	94.7	98.6	103.8 ?	?	104.6 ?	100.8	91.3	91.5	96.6	93	98.6	102.4	104.5 ?	?	?	99.6 ?
31	?	?	?	?	?	?	?	102	94	89.3	87.1	82.7	83.5	81.1	80.7	79.4	81.2	79.6	89.9	95.4	98.2	101.2	103.6	104.9	90.2 ?
Avg	98.6	99.2	99.8	100.4	101.4	100.7	100.9	96.2	88.7	81.9	76.4	73.2	70.2	70.1	71	73.4	76.1	79.5	83.4	89	93.1	95.1	96.5	98.1	86.4 ?
SD	5.2	4.6	3.6	3.4	3.9	4.4	4.2	6.6	8.6	8.2	8.9	10.1	10	10.6	10.2	11.3	10.9	11.5	9.8	8.8	8	7.5	7	6	6
S/A	0.05	0.05	0.04	0.03	0.04	0.04	0.04	0.07	0.1	0.1	0.12	0.14	0.14	0.15	0.14	0.15	0.14	0.14	0.12	0.1	0.09	0.08	0.07	0.06	0.07
Min	89.9	87.8	92.8	93.5	92.6	91.8	91.8	76.3	63.9	63	60.4	55.3	54.4	54.9	52.7	56.8	58.1	61.5	63.5	69.6	73.6	77.6	79.9	87.5	74.9
Max	104.8	104.8	104.6	104.6	104.9	104.9	104.9	104.8	101.2	94.8	98.6	103.8	97.3	104.6	100.8	95.8	100.2	100.9	102.1	104.2	104.4	104.9	104.2	104.9	99.6
n	264	225	211	198	181	160	238	347	372	372	372	364	360	362	372	372	372	372	369	366	358	333	324	300	7566

Data Recovery: 0.0% missing; 0.0% untested; 15.3% 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 2007

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	21.4	21.2	21.4	21.8	22.8	24.8	27.2	29	29.8	29.4	29.2	29.7	30.1	30.1	29.6	28	25.2	22.2	20.5	19.4	18.8	24.9
2	18.6	18.6	18.6	18.6	18.2	17.4	17.8	19.8	23.3	26.6	28.5	29.3	30.2	29.9	29.1	28.9	28.7	28.4	26.7	24.1	21.3	20	19.2	18.1	23.3
3	17	16.3	16.2	16.1	15.8	15.6	17.3	20.7	24.1	26.3	27.6	28.9	29.7	29.2	29	29	28.7	27.9	26.5	24.2	21.8	20.5	19.8	19	22.8
4	18.3	18.4	18.8	19.2	19.7	19.9	20.7	21.8	24	27.3	29.5	30.6	30.9	31.1	31.9	32.5	32.4	31.2	30.3	27.9	25.4	24	23.3	22.8	25.5
5	22.3	21.8	21.4	21.1	20.9	20.7	22	24.7	27.3	29.2	30.8	31.9	32.4	33	33.7	34	34.4	33.8	32	29.7	27.5	26.3	25.6	25	27.6
6	24.6	24.2	24	23.7	23.5	23.4	23.8	25.8	28.1	30.2	32	33.4	34.4	35.4	36.1	37	37.4	35	31.3	29	27	25.8	24.9	24.2	28.9
7	23.6	23.2	22.9	22.6	22.2	22.1	23.2	25.6	29.5	32.7	34.6	35.4	35.7	36	36.3	34.8	32.4	28.7	25.8	24.9	24.4	24.2	23.9	23.5	27.8
8	23.3	23	22.6	22.3	22	21.8	22.6	24.8	27.8	30.7	33.6	35.5	36.4	36.3	36.9	37.2	36.6	33.9	33	30.8	28.7	27.4	26.5	25.9	29.1
9	25.4	24.9	24.5	24.3	24	23.9	24.5	26.4	29.1	31.7	34.4	36	36.2	36.2	36.5	37.4	37.6	36.9	35.2	32.4	29.9	28.3	27.3	26.5	30.4
10	25.9	25.5	25.5	25.5	25	24.8	25.5	27.9	30.2	32.6	34.1	34.4	35.5	36	35	33.8	33.3	30.6	28.6	26.6	24.7	23.8	23.6	23.6	28.8
11	23.5	23.3	23.1	22.9	22.6	22.5	23.2	25.2	27.6	30	32.2	33.9	34.9	35.4	36	36	34.1	34.5	34.9	32.9	28.3	25.3	24.2	23.8	28.8
12	23.6	23.5	23.5	23.6	23.5	23.3	22.9	23.1	26	28.6	30.6	32.4	33.6	34.1	34.2	34.6	34.2	32.9	31.4	29.3	27.6	26.2	25.1	24.5	28
13	24.3	24	23.1	22.1	21.2	21	21.8	23.7	26.8	28.4	29.6	31.5	33.6	35	33.3	31	28.7	26.6	24	23.3	23.1	22.7	22.4	21.8	26
14	21.2	20.6	20.3	19.8	19.1	18.7	19.6	21.6	25.1	28.1	31	33.4	34.4	33.9	33.5	33.4	33.3	31.6	29.5	27.8	26.3	25.2	24.8	24.6	26.5
15	24.6	24.4	24	23.8	23.6	23.4	23.7	25.5	27.7	30.4	32.3	33.3	34	34	34.6	35.2	35.5	34.9	33	30.3	28.5	27.6	27	26.3	29.1
16	25.9	25.5	25	24.4	24.1	23.9	24.3	25.8	27.6	29.6	32.4	34.1	34.5	35	35.5	34.8	35.1	35	33.9	31.8	29.8	28.7	27.9	27.4	29.7
17	26.9	26.1	25.3	24.8	24.3	23.9	24.2	26.1	29.4	33	35.5	37.6	38.1	37.3	35.3	31.3	26.2	24.4	24	23.7	23.2	22.6	22.5	22.6	27.8
18	22.6	22.6	22.6	22.5	22.3	22.1	22.4	22.9	24.7	27.9	30.4	32	32.7	33.3	34.1	34.8	34.7	34.5	33.7	31.7	29.6	28.1	27.2	26.3	28.1
19	25.6	25.2	25	24.7	24.6	24.5	25.1	27	29.8	32.6	35.3	36.8	37.5	37.5	37.9	38.3	38.1	37.2	33.6	28.2	25.5	25.1	25.5	26.1	30.3
20	26.5	26.4	25.8	25.4	25.1	24.9	25.6	27.6	30.3	32.7	34.6	35.4	33.3	28.3	29.5	28.9	27	25.3	23.2	22.9	23.3	23.1	23.1	22.9	27.1
21	22.7	22.3	21.7	21.1	20.8	20.6	20.9	22.1	24.5	26	27.2	28.7	29.2	29	28.7	29	29.4	28.3	27.1	24.9	22.2	20.5	19.6	19	24.4
22	18.6	18.5	18.1	17.7	17.8	18.2	18.8	21.5	24.5	26.4	28	29.2	29.5	29.2	28.9	27.8	26.6	25.5	24.8	24.5	23.6	22.8	22.3	22	23.5
23	21.6	21.3	21.2	21.1	20.7	20.1	19.7	20.9	24.2	27.2	29	30.3	30.3	30.4	31.6	31.3	30.4	30.1	28.9	26.5	23.8	22	20.9	20.1	25.2
24	19.2	18.4	18	17.8	17.4	17.2	18.1	21.4	25	28.4	31.8	32.8	33.5	33.9	33.5	32.7	32	31.4	29.5	26.8	24.5	23.1	22.1	21.5	25.4
25	21.2	20.8	20.2	19.8	19.6	19.5	20.4	22.9	26.2	30.1	32.7	34.1	34.5	35	34.5	34.1	32.4	30.7	29.6	27.8	25.3	23.8	23.1	22.9	26.7
26	22.9	22.9	22.6	22.4	22.5	22.4	22.4	22.9	24.9	27.6	30.8	33.9	35.7	35.7	35.4	35.4	33.7	31.5	30.6	28.3	25.9	24.8	24.1	23.5	27.6
27	22.8	22.4	22.1	21.9	21.6	21.5	22	24	27.7	31.2	33.8	36.3	37.6	37.6	36.1	36.8	36.2	33	29.7	24.4	22.2	21.8	22	22.3	27.8
28	22.6	22.5	22.2	22	21.5	21.1	21.6	24.2	27.2	30.7	33.7	34.8	34.8	35.5	35.7	30.9	27.1	26.7	27	26.4	25.6	25	24.7	24.6	27
29	24.2	23.8	23.7	23.6	23.4	23.1	23.5	25.4	28.9	30.7	32.2	34	35	35.3	34.5	34.2	32.1	31.3	30	28.6	27.4	26.4	25.7	25	28.4
30	24.6	24.4	24	23.6	23.4	23.4	23.7	25.5	27.6	28.5	27	24.8	23.3	23.2	24.5	28.6	31.4	29.1	27	26.3	25.2	24.6	24.1	23.7	25.5
31	23.3	22.9	22.9	22.8	22.7	22.6	22.8	24.6	27.4	29.8	31.4	32.2	32.5	32.5	33	33.7	33.8	33.4	31.6	28.5	25.8	24.4	23.4	22.6	27.5
Avg	22.9	22.6	22.3	22	21.8	21.6	22.1	24	26.8	29.4	31.5	32.8	33.3	33.3	33.4	33.1	32.4	31.1	29.5	27.4	25.5	24.3	23.7	23.3	27.1
S D	2.5	2.5	2.4	2.4	2.4	2.4	2.2	2.1	2.1	2.1	2.5	2.8	3.1	3.4	3.1	3	3.4	3.4	3.3	2.8	2.5	2.4	2.4	2.4	2
S/A	0.11	0.11	0.11	0.11	0.11	0.11	0.1	0.09	0.08	0.07	0.08	0.09	0.09	0.1	0.09	0.09	0.1	0.11	0.11	0.1	0.1	0.1	0.1	0.1	0.07
Min	17	16.3	16.2	16.1	15.8	15.6	17.3	19.8	23.3	26	27	24.8	23.3	23.2	24.5	27.8	26.2	24.4	23.2	22.9	21.3	20	19.2	18.1	22.8
Max	26.9	26.4	25.8	25.5	25.1	24.9	25.6	27.9	30.3	33	35.5	37.6	38.1	37.6	37.9	38.3	38.1	37.2	35.2	32.9	29.9	28.7	27.9	27.4	30.4
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: CSI 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 2007

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	0.1	0.5	0.3	0.1	0.3	0.9	1.2	2.3	2.6	2.9	3.1	4.2	5	4.1	4	4.2	3.5	3.4	3	2.1	1.4	1	0.9	1.4	2.2
2	1.5	1.7	2.1	1.4	0.3	0.4	0.8	1.2	2	2.4	2.3	2.1	2.3	3.2	3.6	3.5	3.5	3.3	2.5	2.2	2.1	1.4	0.9	0.3	2
3	0.2	0	0.1	0.1	0	0.2	0.5	1.8	2.5	2.7	2.4	1.9	3	3.5	4	3.9	4	3.9	3.2	2.5	1.8	1.9	1.4	0.4	1.9
4	0.8	1.5	1.3	0.4	0.4	0.6	0.5	1.1	2.3	2.7	3.1	3.4	3.6	3.4	3.7	3.5	3.7	3.6	3.5	3.3	2.8	2.7	2.7	2.6	2.4
5	1.9	1.8	1.9	1.6	1.3	1.5	2.3	3.2	4.3	4.4	4.9	4.6	4.5	4	4.6	4.4	4.2	4.4	3.8	2.8	3.1	3.7	3.7	3.8	3.4
6	3.5	3.6	3	3.1	3.3	2.7	3.1	4.6	4.7	4.2	3.7	3.2	3.3	3.5	2.5	2.4	2.4	2.9	2.7	2.2	1.4	1.3	0.2	0	2.8
7	0	0	0	0	0	0	0.1	0.3	1.3	2.1	2.9	3	3	3.5	4	4	2.5	1.1	1.2	0.9	1.2	0.7	0.3	0.6	1.4
8	0.8	0.4	0.9	1.2	0.9	0.9	0.7	1.3	1.5	1.4	1.5	1.5	2.8	2.3	3.1	2.8	2.8	2.6	2.6	1.3	1.2	1.1	1.4	1.6	1.6
9	1.9	1.5	1.8	2.1	2.2	1.9	2.1	2.1	2.5	2.1	2.4	3.4	3.4	3.7	3.3	3.3	3	2.8	2.4	2.2	2	1.9	1.2	0.9	2.3
10	1.2	1.3	1.5	0.8	0.5	0.4	0.3	0.9	1.1	1	1.7	2.7	2.9	3.6	4.3	3.8	2.9	2.4	2.9	1.9	0.9	1.7	0.5	1.2	1.8
11	2.5	2.4	2.6	2.5	1.8	1.9	3.2	4.2	4.1	3.9	4.5	4.5	4.4	4.8	5.5	4.4	2.7	5.3	3.9	4.9	2.4	1.1	1.5	1.2	3.3
12	0.8	1.2	1.4	1.2	1.1	1	1.3	1.7	3.3	3.6	2.6	2.1	1.6	1.4	1.2	1	1.5	1.4	2.3	2.2	1.6	1.1	1.4	1.3	1.6
13	1.3	1.1	0.3	0	0.4	0.4	0.6	1.3	2.1	0.9	1.3	1.9	1.2	0.9	0.7	1.6	2.7	1.6	0.1	0.3	0.2	0	0	0	0.9
14	0	0.1	0.1	0	0	0	0.2	0.4	0.1	0.5	1	1.2	2	2	2.4	2.4	1.7	1.5	1.5	1.1	0.4	0.3	0.8	0.9	0.9
15	1.6	1	1.1	1.1	0.9	0.4	1.4	2.6	2.5	2.2	2.2	2.8	2.8	3.2	3.2	3.2	3.1	2.9	2.5	2.2	2	2.2	1.9	1.7	2.1
16	1.8	1.4	1.4	1.5	1.2	1.1	1.7	2.7	2.5	2.6	2.9	3.2	3	3.3	3	2.7	3.2	3	2	1.5	1.5	2.6	2.3	2.4	2.3
17	2.5	2	2.2	2	1.7	1.6	1.9	1.3	0.8	1.1	1.1	1.2	2.6	2.1	2.2	2.5	0.9	0.7	2.3	2.3	3.5	2.3	1.4	0.9	1.8
18	0.5	1	1.2	2.2	1.3	1.6	2.1	2.6	2.6	4	3.5	3.2	3.7	4.1	3.7	3.7	3.2	3.4	2.8	2.1	1	1.6	1.3	0.8	2.4
19	1	1.1	0.9	1.4	1.7	1.6	2	2.3	2.1	1.6	2.1	2.4	2.9	3.5	3.6	4.2	3.9	3.2	1.8	0.7	0.5	1.6	1.7	1.3	2
20	1.6	0.4	0.7	0.7	0.9	0.9	1.3	1.4	2.2	1.8	2.3	2.6	2.7	2.9	3.1	3	1.9	1.9	2.3	2.2	1.6	1.6	1.5	1.6	1.8
21	2.1	1.9	1.8	2	2.3	2.6	2.9	2.9	3.2	3.9	3.6	3.7	4.4	4.4	4.1	4.6	3.1	2.6	3.2	1.9	1.5	1	1.3	1.3	2.8
22	1.5	1.7	1	1.5	2	1.4	1.9	3.4	3.8	4.4	5.2	5.5	5.1	5.4	4.8	4.3	4	4.6	3.7	3.2	2.7	2	3	2.4	3.3
23	1.4	1.6	1.7	2.1	1	1.6	1.7	2.2	2.7	3.1	3.1	2.4	2.5	2.4	2.8	3.3	3.4	3	2.7	2	1	0.6	0.4	0.1	2
24	0	0	0	0	0	0	0	0.4	1.4	1	0.7	1.9	2.7	2.6	3.5	3.8	3.6	3.1	3	2.4	1.2	0.6	0.3	0.6	1.4
25	0.2	0	0	0.1	0	0	0.3	0.5	0.7	1.6	2	2.3	2.1	3.5	3	3	2.9	2.7	2	1.3	0.3	0.4	0.4	0.4	1.2
26	0.6	0.2	0.1	0.3	0.3	0.5	0.7	0.7	1.3	2.1	2.2	1.7	2.6	3.1	3.2	3.7	3	3.2	2.3	2	2.2	1.8	0.5	0.1	1.6
27	0	0	0	0	0	0	0.6	1.6	2	2.1	1.6	1.6	1.5	3.2	2.5	3.7	3.9	3	3.9	2.4	1.3	0.4	1.2	1.4	1.6
28	1.2	0.9	1.7	0.9	0.2	0.4	0.4	1.2	1.3	0.8	2.1	3.3	3	2.7	5	3.4	1.5	1.9	1	0.9	0.6	0.7	1	0.4	1.5
29	0.3	0.4	0.4	0.2	0	0	0.3	0.6	1.8	2.7	2.5	2.4	2.3	4.2	4	4.4	3	2.6	1.7	1	0.9	0.4	0.2	0.3	1.5
30	0.4	0	0	0.1	0.2	0	0	1	1.2	2.8	2	2	1.4	0.2	0.7	2.1	1.8	1.4	1.3	0.6	0.8	1.4	1.3	0.6	1
31	0.1	1.2	1.4	1.1	1.5	1.6	1.9	2.8	3.6	4	3.9	3.7	3.4	3.8	3.9	4.1	3	3.1	2.3	1.5	1.1	0.8	0.3	0.4	2.3
Avg	1.1	1	1.1	1	0.9	0.9	1.2	1.8	2.3	2.5	2.6	2.8	3	3.2	3.3	3.4	2.9	2.8	2.5	1.9	1.5	1.4	1.2	1.1	2
S D	0.9	0.9	0.9	0.9	0.9	0.8	0.9	1.1	1.1	1.2	1.1	1	1	1.1	1.1	0.9	0.8	1	0.9	0.9	0.8	0.8	0.9	0.9	0.7
S/A	0.83	0.83	0.8	0.86	0.96	0.88	0.77	0.61	0.48	0.47	0.42	0.38	0.34	0.34	0.34	0.26	0.28	0.37	0.36	0.47	0.56	0.61	0.73	0.83	0.34
Min	0	0	0	0	0	0	0	0.3	0.1	0.5	0.7	1.2	1.2	0.2	0.7	1	0.9	0.7	0.1	0.3	0.2	0	0	0	0.9
Max	3.5	3.6	3	3.1	3.3	2.7	3.2	4.6	4.7	4.4	5.2	5.5	5.1	5.4	5.5	4.6	4.2	5.3	3.9	4.9	3.5	3.7	3.7	3.8	3.4
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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 2007

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	263	53	16	321	3	40	58	73	75	69	74	96	90	97	99	105	100	105	107	108	112	122	128	125	93	
2	125	125	124	124	103	82	94	78	111	118	122	114	116	115	109	116	124	122	117	127	125	128	147	203	118	
3	200	53	33	63	0	86	144	156	151	154	167	155	152	150	165	166	165	168	171	182	190	190	192	209	165	
4	201	198	198	254	276	227	254	240	248	244	246	237	228	231	244	239	231	226	218	217	221	228	235	242	232	
5	252	263	262	254	243	252	262	256	262	253	253	252	244	246	234	233	234	234	242	238	240	249	252	251	247	
6	262	267	260	258	269	272	279	283	278	291	299	328	331	345	8	350	12	128	131	153	134	175	223	240	288	
7	276	272	0	0	87	50	249	202	135	131	143	171	177	156	170	182	210	139	195	248	263	258	238	208	175	
8	265	276	274	282	305	294	278	280	285	314	245	223	216	240	208	221	224	234	238	235	246	251	258	261	245	
9	267	267	272	277	278	276	284	281	285	259	225	248	237	243	227	233	242	241	240	241	240	241	251	241	230	253
10	213	218	246	259	225	215	286	227	198	203	120	128	135	175	193	218	238	254	290	307	265	249	296	287	217	
11	276	271	278	274	281	278	281	280	287	287	297	285	286	276	273	275	270	262	251	289	298	258	246	276	278	
12	259	280	280	314	332	345	5	18	41	46	15	9	8	19	295	274	246	164	142	142	162	179	191	192	12	
13	224	255	226	196	335	341	344	34	45	17	103	126	125	112	126	113	117	135	144	20	63	132	358	167	104	
14	358	349	344	349	0	341	3	22	1	330	258	216	229	239	238	250	240	202	198	260	246	222	229	249	238	
15	262	262	256	262	276	273	266	280	261	262	255	236	242	236	235	231	236	238	238	239	250	256	251	248	248	
16	262	265	271	261	268	256	269	273	270	252	243	251	251	246	224	185	258	271	260	247	247	250	258	266	253	
17	262	250	264	274	287	305	313	326	315	307	281	217	134	182	155	280	159	288	263	289	283	276	216	249	264	
18	250	258	269	275	264	252	266	283	280	285	296	310	283	285	276	294	292	298	278	277	259	272	265	262	282	
19	253	257	266	272	270	285	273	287	290	281	279	264	251	273	270	271	269	305	38	158	159	174	204	245	269	
20	255	259	295	262	248	275	318	343	3	3	52	59	46	101	141	162	137	85	77	87	86	89	57	45	72	
21	50	53	46	47	53	51	49	62	64	64	70	61	44	47	52	62	82	93	90	54	33	42	36	24	58	
22	36	40	13	28	47	30	40	49	67	81	81	85	86	92	86	90	87	83	82	74	53	53	57	49	72	
23	47	36	21	12	334	326	335	355	9	32	51	45	61	53	109	152	153	155	163	160	196	201	214	229	69	
24	217	303	0	347	0	0	147	324	287	301	300	131	132	129	150	151	147	143	152	155	182	175	193	200	152	
25	197	348	340	359	28	55	73	70	110	116	102	99	96	133	128	127	131	122	135	141	128	109	115	127	120	
26	113	48	83	61	47	40	57	38	65	98	116	110	116	143	122	143	141	134	131	128	131	146	180	180	123	
27	0	0	0	0	0	0	272	294	304	295	304	285	234	136	152	187	184	157	316	193	183	239	256	256	222	
28	270	268	267	277	283	273	260	278	288	247	189	221	226	239	202	271	224	198	225	196	225	211	206	222	233	
29	240	207	192	215	0	168	206	262	192	201	196	197	207	179	176	184	193	178	195	195	184	186	202	185	191	
30	186	211	188	129	80	79	124	132	115	116	57	53	172	135	93	114	116	137	118	101	92	71	61	47	102	
31	44	43	52	49	48	45	55	67	80	87	90	87	91	89	101	104	103	92	101	98	84	52	32	46	84	
Avg	258	267	274	287	297	304	306	312	317	327	202	172	177	173	178	187	185	176	184	192	207	219	229	251	216	
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 2007

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	0.5	1.3	1.1	0.3	1.1	2.1	2.8	4.5	5	5.5	5.8	7.6	9.2	7.6	6.9	7.3	6.1	5.6	5.3	4.2	2.9	2	1.6	2.3	4.1
2	2.6	2.9	3.3	2.3	1	1.1	1.5	2.3	3.8	4.2	4.4	3.9	4.3	5.4	6.2	5.9	6	5.4	4.5	3.9	3.4	2.7	1.9	0.9	3.5
3	0.7	0.1	0.4	0.4	0	0.6	1.1	2.9	4.1	4.5	4.6	4	5.2	5.8	6.4	6.4	6.3	6.2	5.1	3.9	2.8	3	2.5	1.2	3.3
4	1.7	2.6	2.3	1.2	0.8	1.5	1.5	2.4	4.1	4.6	5.5	5.8	6.4	5.8	6.5	6.2	6.5	6.4	6.4	6.3	5.1	5.3	5.2	4.8	4.4
5	3.5	3.1	3.2	2.7	2.6	2.8	4.1	5.7	7.6	7.4	8	7.8	7.6	7.2	8.3	7.7	8.2	8	6.9	5.5	5.8	6.6	6.4	6.5	6
6	6	6.4	5.4	5.5	5.4	4.6	5.2	7.5	7.6	6.9	6.7	6	6.1	6.6	5.2	4.8	5.3	4.9	4.3	3.6	2.6	2.1	0.9	0.5	5
7	0.2	0.3	0	0	0	0.1	0.6	1	2.6	3.6	4.8	5	4.8	5.7	6.5	6.2	5.2	2.4	2.3	2	2.2	1.8	1.2	1.5	2.5
8	1.6	1.1	1.7	2.1	1.8	1.9	1.8	2.5	2.8	2.8	3	3.5	5.1	4.2	5.1	4.7	4.9	5	4.7	2.7	2.4	2.1	2.3	2.7	3
9	3.1	2.6	3	3.4	3.3	3.1	3.4	3.6	3.9	3.7	4.2	5.9	6.2	6.3	5.9	6.3	5.1	5.4	4.6	4.1	3.9	3.6	2.5	2	4.1
10	2.1	2.5	2.8	1.8	1.4	1.4	1.3	2.1	2.3	2.4	3.1	4.2	4.8	6.3	7	6.9	5.3	4.5	4.6	3.7	1.9	3.3	1.5	2.2	3.3
11	4	4	4.3	4.3	3	3.4	5.1	6.5	6.5	6.3	7.7	7.8	7.4	8.2	9.1	7.4	4.9	9.4	6.9	8.8	4.3	2.5	3	2.3	5.7
12	2	2.4	2.6	2.5	2.7	2.8	3.2	4	5.8	6.1	5.3	4.7	3.7	3.3	2.6	2.1	2.7	2.6	4	3.6	2.7	1.9	2.4	2.2	3.2
13	2.6	2	1	0.1	1.1	1.1	1.6	2.7	3.6	2.4	2.6	3.4	2.6	1.8	1.5	2.7	4.5	3	0.7	1	0.9	0.1	0	0.1	1.8
14	0	0.6	0.5	0.1	0	0.1	0.8	1.4	0.8	1.6	2.2	2.6	3.7	3.8	4.3	4.4	3.1	2.6	2.7	2	1.2	1	1.9	2.1	1.8
15	2.8	1.9	2.2	2.1	1.9	1.2	2.6	4.6	4.1	3.8	4	5.1	4.8	5.6	6	5.9	5.4	5.3	4.6	4.3	3.6	3.7	3.3	3	3.8
16	3.2	2.5	2.2	2.5	2.2	2.3	3.2	4.7	4	4.3	5.1	5.5	5.3	6.1	5.4	4.7	5.5	5.2	3.7	2.8	2.9	5.2	4.1	4.4	4
17	4.5	3.8	3.9	3.3	2.7	3	3.5	2.7	2	2.4	2.7	2.7	4.5	3.9	4	4.5	1.9	1.7	4.1	3.8	5.4	4	3	2.4	3.4
18	1.4	2.3	2.3	3.8	2.4	2.9	3.9	4.1	4.4	6.6	6.1	5.9	6.2	6.6	6.4	5.6	4.9	5.7	4.3	3.1	1.7	2.8	2.3	1.5	4.1
19	1.8	1.9	1.8	2.2	2.8	2.8	3.2	3.8	3.4	2.8	3.7	4.7	5	6	6.2	7.1	6.4	5.8	3.6	1.7	1.3	2.7	2.9	3	3.6
20	3.2	1.1	1.8	1.6	2.2	1.8	2.9	3	4.3	3.8	4.3	4.8	5.1	5.2	5.1	4.9	3.2	3.4	4.6	4.2	3.1	3	2.8	2.7	3.4
21	3.6	3.2	2.9	3.2	3.8	4.5	4.8	5	6	6.9	6.5	6.4	7.4	7.6	7.2	8.1	5.7	4.9	5.3	3.5	2.9	2.2	2.7	2.6	4.9
22	2.9	3.1	2.4	3	3.7	3.1	3.4	5.6	6.6	8	9.3	9.6	8.9	9.1	8.4	7.7	7.2	8.4	6.7	5.8	5.2	4	5.7	4	5.9
23	2.8	3.4	3.7	4	2.4	3.2	3.4	4.2	5.4	5.8	5.3	4.8	4.6	5.2	5	5.4	5.2	4.6	4.4	3.2	2	1.5	1.4	0.6	3.8
24	0.1	0.1	0	0.1	0	0	0	1.2	2.6	2.4	2.1	3.8	4.7	4.4	5.9	6.1	5.9	5.2	4.8	3.9	2.1	1.4	0.8	1.2	2.4
25	0.6	0.2	0.1	0.4	0.1	0.1	1	1.5	2	3.2	3.8	4	4.1	5.6	5.1	4.9	4.5	4.6	3.6	2.6	1.2	1.3	1.2	1.2	2.4
26	1.3	0.8	0.5	1.2	1	1.7	1.7	1.8	2.5	3.5	3.9	3.7	4.3	5.1	5.4	6.1	5	5.1	3.9	3.7	3.9	3.4	1.4	0.3	3
27	0	0	0	0	0	0	1.3	2.9	3.5	3.8	3.7	3.4	3.3	5.4	4.9	6.4	6.2	5.3	8.1	3.9	2.6	1.5	2.7	2.6	3
28	2.2	1.8	2.8	1.6	0.6	1.2	1.2	2.4	2.7	2.2	4	5.6	5.4	4.6	8.9	5.4	2.7	3	2	1.7	1.5	1.5	2	1.3	2.8
29	1.3	1	1.2	0.8	0	0.1	1	1.6	3	4.5	4.7	4	4.3	6.7	6.7	7	5.4	4.2	3.1	2	1.6	0.9	0.6	0.7	2.8
30	1.1	0.1	0.2	0.3	0.7	0.2	0.3	2.1	2.7	4.6	3.8	4.1	2.5	0.8	2	3.9	3.6	2.9	2.7	1.6	2.2	3.1	2.7	1.7	2.1
31	0.6	2.2	2.5	2.2	2.8	2.9	3.5	5.1	6.3	6.9	6.7	6.8	6.3	6.5	6.9	6.8	5.5	5.3	4	2.8	2.4	1.9	1.2	1.3	4.1
Avg	2.1	2	2	1.9	1.7	1.9	2.4	3.4	4.1	4.4	4.8	5.1	5.3	5.6	5.8	5.8	5.1	4.9	4.4	3.5	2.8	2.6	2.4	2.1	3.6
SD	1.5	1.4	1.4	1.5	1.4	1.3	1.4	1.7	1.7	1.8	1.7	1.6	1.6	1.7	1.8	1.4	1.4	1.7	1.5	1.6	1.3	1.4	1.4	1.4	1.1
S/A	0.71	0.72	0.7	0.77	0.8	0.73	0.59	0.49	0.42	0.4	0.36	0.32	0.3	0.31	0.3	0.24	0.27	0.35	0.35	0.44	0.46	0.53	0.6	0.66	0.31
Min	0	0	0	0	0	0	0	1	0.8	1.6	2.1	2.6	2.5	0.8	1.5	2.1	1.9	1.7	0.7	1	0.9	0.1	0	0.1	1.8
Max	6	6.4	5.4	5.5	5.4	4.6	5.2	7.5	7.6	8	9.3	9.6	9.2	9.1	9.1	8.1	8.2	9.4	8.1	8.8	5.8	6.6	6.4	6.5	6
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

July 2007

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

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 2007

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	12.6	12.6	12.6	12.6	12.8	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
2	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.3	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.9
3	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.3	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.9
4	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.9
5	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.3	13.2	13.2	13.1	13.1	13.2	13.1	13.1	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
6	12.7	12.7	12.6	12.6	12.6	12.6	13	13.2	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.8	12.7	12.7	12.7	12.7	12.7	12.9
7	12.7	12.7	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	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
8	12.7	12.6	12.6	12.6	12.6	12.6	13	13.3	13.2	13.1	13.1	13	13.1	13.1	13	13.1	13	13.1	12.9	12.7	12.7	12.7	12.7	12.7	12.9
9	12.7	12.7	12.7	12.6	12.6	12.6	13	13.2	13.2	13.1	13.1	13	13.1	13.1	13.1	13.1	13.1	13	12.8	12.7	12.7	12.7	12.7	12.7	12.9
10	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
11	12.7	12.6	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	12.8	12.8	12.7	12.7	12.7	12.7	12.9
12	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.8	12.7	12.7	12.7	12.7	12.7	12.9
13	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.3	13.2	13.2	13.2	13.1	13.1	13.1	13.2	13.2	13	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
14	12.7	12.6	12.6	12.6	12.6	12.6	13	13.3	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.2	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.9
15	12.7	12.7	12.7	12.7	12.6	12.6	12.9	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.9
16	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.2	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.9
17	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.2	13.1	13.1	13	13	13	13.1	12.9	12.8	12.8	12.7	12.7	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	12.7	13.2	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.9
19	12.7	12.7	12.7	12.7	12.7	12.6	13	13.2	13.1	13.1	13	13	13	13	13	13	13.1	13	12.8	12.7	12.7	12.7	12.7	12.7	12.9
20	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.2	13.1	13.1	13.1	13.1	13.1	13.2	13.2	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
21	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.3	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.9
22	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.3	13.3	13.3	13.2	12.8	12.7	12.7	12.7	12.7	12.7	13
23	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.9
24	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.3	13.3	13.2	13.1	13.1	13.1	13.1	13.2	13.2	13.2	13	12.8	12.7	12.7	12.7	12.7	12.7	12.9
25	12.7	12.6	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	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
26	12.7	12.7	12.6	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	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
27	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.3	13.2	13.1	13.1	13	13	13.1	13.1	13.1	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
28	12.7	12.6	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	12.8	12.9	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.9
29	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.2	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.2	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.9
30	12.7	12.7	12.6	12.6	12.6	12.6	12.7	13.2	13.2	13.1	12.9	12.9	13	13.4	13.3	13.2	13.1	13	12.8	12.7	12.7	12.7	12.7	12.7	12.9
31	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
Avg	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.2	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13	12.8	12.7	12.7	12.7	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	0	0	0	0	0	0
StA	0	0	0	0	0	0	0.01	0.01	0	0	0.01	0.01	0	0.01	0.01	0.01	0.01	0.01	0	0	0	0	0	0	0
Min	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.1	13.1	12.9	12.9	13	13	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.8
Max	12.7	12.7	12.7	12.7	12.7	12.6	13.1	13.4	13.3	13.3	13.2	13.2	13.2	13.4	13.3	13.3	13.3	13.2	12.9	12.8	12.7	12.7	12.7	12.7	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.