

June 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	2	67	230	429	624	807	913	976	949	913	798	635	443	248	71	6	0	0	0	0	8111
2	0	0	0	0	4	67	220	374	402	692	922	927	794	450	331	228	124	77	19	1	0	0	0	0	5632
3	0	0	0	0	1	2 ?	?	52 ?	76	153	153	579	685	696	370	338	180	38	27	3	0	0	0	0	3354 ?
4	0	0	0	0	4	60	140	396	622	722	768	974	954	904	706	382	333	126	26	2	0	0	0	0	7119
5	0	0	0	0	5	62	229	428	622	791	911	973	911	810	711	241	305	239	71	10	0	0	0	0	7317
6	0	0	0	0	3	60	224	432	623	680	738	675	538	689	564	405	374	173	68	6	0	0	0	0	6252
7	0	0	0	0	5	64	228	436	504	728	806	736	859	868	713	483	338	196	70	8	0	0	0	0	7043
8	0	0	0	0	5	56	206	396	579	755	881	949	916	835	615	505	436	194	66	2	0	0	0	0	7398
9	0	0	0	0	6	46	124	227	320	435	381	511	591	631	675	464	382	193	58	2	0	0	0	0	5046
10	0	0	0	0	1	15	50	143	402	647	769	864	686	449	315	301	250	215	66	3	0	0	0	0	5177
11	0	0	0	0	11	84	159	278	450	532	850	852	766	424	681	534	394	185	43	5	0	0	0	0	6248
12	0	0	0	0	5	59	215	404	593	763	864	599	633	612	501	378	358	237	50	3	0	0	0	0	6274
13	0	0	0	0	3	48	131	178	277	630	906	967	942	857	702	409	431	256	82	8	0	0	0	0	6826
14	0	0	0	0	1	35	109	74	143	174	280	278	628	518	244	234	216	62	63	6	0	0	0	0	3065
15	0	0	0	0	5	47	55	174	329	382	514	144	300	391	313	514	151	95	34	7	0	0	0	0	3455
16	0	0	0	0	5	49	200	354	366	761	732	378	367	790	571	264	194	108	76	9	0	0	0	0	5224
17	0	0	0	0	7	69	189	343 ?	591	773	900	965	967	780	563	360	438	238	81	12	0	0	0	0	7275
18	0	0	0	0	4	50	173 ?	436 ?	589	751	869	936	924	868	633	425	341	199	62	6	0	0	0	0	7265
19	0	0	0	0	5	50	176	354	543	710	696	675	481	456	634	558	387	206	55	4	0	0	0	0	5990
20	0	0	0	0	4	52	164	242	489	263	370	287	129 ?	178	118	172	142	168	112	18	0	0	0	0	2907
21	0	0	0	0	7	59	228	436	638	802	903	990	1000	955	832	677	470	264	85	8	0	0	0	0	8354
22	0	0	0	0	3	57	203	407	441	734	892	970	969	881	792	526	373	212	74	7	0	0	0	0	7541
23	0	0	0	0	4	66	217	382	380	642	907	1016	923	456	321	581	403	129	61	10	0	0	0	0	6498
24	0	0	0	0	4	39	169	412	566	503	744	888	959	786	411	573	311	136	48	7	0	0	0	0	6554
25	0	0	0	0	3	40	188	241	461	343	264	612	712	795	486	416	404	213	73	14	0	0	0	0	5263
26	0	0	0	0	5	6	41 ?	171	505	730	849	904 ?	?	?	?	?	126 ?	46	23	23	0	0	0	0	3430 ?
27	0	0	0	0	5	49	136	227	391	718	836	?	?	?	?	?	?	174 ?	24	3	0	0	0	0	2563 ?
28	0	0	0	0	3	42	186	377	562	727	?	?	567 ?	619 ?	564 ?	391	326	91	88	24	0	0	0	0	4568 ?
29	0	0	0	0	3	46	188	359	541	719	746 ?	647	577 ?	627 ?	475 ?	200 ?	74 ?	108	39	10	0	0	0	0	5359 ?
30	0	0	0	0	2	22	164	181	360	350	581	632 ?	639 ?	475	393 ?	483 ?	222	63 ?	16	4	0	0	0	0	4587 ?
Avg	0	0	0	0	4	49	170	311	466	614	722	747	727	668	537	417	308	163	58	8	0	0	0	0	5723
S D	0	0	0	0	2	18	54	118	143	194	226	251	230	202	185	136	114	68	24	6	0	0	0	0	1642
S/A	0	0	0	0	0.5	0.38	0.32	0.38	0.31	0.32	0.31	0.34	0.32	0.3	0.35	0.33	0.37	0.42	0.41	0.73	0	0	0	0	0.29
Min	0	0	0	0	1	2	41	52	76	153	153	144	129	178	118	172	74	38	16	1	0	0	0	0	2563
Max	0	0	0	0	11	84	230	436	638	807	922	1016	1000	955	832	677	470	264	112	24	0	0	0	0	8354
n	0	0	0	0	82	355	335	343	358	359	342	325	311	319	319	323	332	345	359	111	0	0	0	0	4920

Daylight Data Recovery: 0.0% missing; 0.0% untested; 6.0% exceed the 15% QC threshold -- 5233 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.

June 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	231	555	694	716	791	829	848	833	816	795	758	685	551	254	0	0	0	0	0	9355
2	0	0	0	0	0	142	374	361	213	423	702	655	276	42	4	2	0	0	0	0	0	0	0	0	3194
3	0	0	0	0	0	0	0	0	0	1	2	90	344	337	36	18	13	0	0	0	0	0	0	0	841
4	0	0	0	0	1	172	118	483	696	473	464	799	799	758	521	238	418	142	3	0	0	0	0	0	6087
5	0	0	0	0	4	232	534	674	752	795	812	802	712	593	492	51	245	312	84	0	0	0	0	0	7094
6	0	0	0	0	0	240	505	626	709	503	471	341	305	401	310	231	332	141	169	0	0	0	0	0	5283
7	0	0	0	0	14	267	513	610	395	505	408	279	467	610	447	272	228	180	98	0	0	0	0	0	5293
8	0	0	0	0	1	104	333	481	522	653	717	734	671	577	385	383	542	313	141	0	0	0	0	0	6555
9	0	0	0	0	2	22	9	15	11	23	4	3	12	78	405	292	389	235	103	0	0	0	0	0	1603
10	0	0	0	0	0	0	0	1	65	144	248	248	120	1	0	1	28	359	183	0	0	0	0	0	1398
11	0	0	0	0	1	102	42	75	197	197	509	394	325	89	363	331	398	193	0	0	0	0	0	0	3216
12	0	0	0	0	6	150	401	562	644	700	638	260	289	274	198	216	371	420	78	0	0	0	0	0	5206
13	0	0	0	0	0	30	50	9	31	344	628	697	641	611	498	229	512	497	252	0	0	0	0	0	5028
14	0	0	0	0	0	23	102	0	1	1	3	2	95	71	1	0	7	0	82	0	0	0	0	0	390
15	0	0	0	0	0	0	0	4	79	5	26	2	4	35	4	248	0	0	11	0	0	0	0	0	417
16	0	0	0	0	2	50	356	229	33	577	358	49	26	340	306	49	11	20	49	0	0	0	0	0	2456
17	0	0	0	0	1	95	208	305	622	680	708	733	735	496	324	208	499	361	173	0	0	0	0	0	6148
18	0	0	0	0	1	79	390 ?	548 ?	615	650	679	696	672	638	409	255	302	231	83	0	0	0	0	0	6249
19	0	0	0	0	1	69	205	321	427	484	370	336	163	129	338	346	325	201	51	0	0	0	0	0	3763
20	0	0	0	0	0	49	96	46	156	8	30	7	0	0	0	1	1	40	178	1	0	0	0	0	613
21	0	0	0	0	3	161	562	719	797	823	806	836	835	801	728	705	603	462	257	1	0	0	0	0	9099
22	0	0	0	0	4	161	374	510	274	619	722	748	746	635	581	357	280	177	139	1	0	0	0	0	6326
23	0	0	0	0	9	193	371	396	119	243	628	663	523	73	50	294	262	15	78	0	0	0	0	0	3918
24	0	0	0	0	0	64	291	334	409	217	434	512	583	376	94	269	94	6	3	0	0	0	0	0	3685
25	0	0	0	0	0	50	179	58	145	2	1	154	136	240	58	65	190	90	27	0	0	0	0	0	1394
26	0	0	0	0	0	3	0	9	215	330	346	323	275 ?	?	?	?	11 ?	0	0	0	0	0	0	0	1513 ?
27	0	0	0	0	0	42	52	54	114	322	331	?	?	?	?	?	?	126 ?	7	0	0	0	0	0	1048 ?
28	0	0	0	0	0	46	211	344	399	400	404 ?	279 ?	129 ?	140 ?	105 ?	58	84	17	13	0	0	0	0	0	2629 ?
29	0	0	0	0	0	68	240	267	347	397	276 ?	68	43 ?	136 ?	77 ?	18 ?	0	4	1	0	0	0	0	0	1941 ?
30	0	0	0	0	0	0	60	2	54	21	67	122 ?	117 ?	55	39 ?	77 ?	8	0	0	0	0	0	0	0	621 ?
Avg	0	0	0	0	2	95	238	291	325	378	421	403	375	334	270	213	236	170	84	0	0	0	0	0	3745
S D	0	0	0	0	3	81	190	254	266	271	277	302	290	272	236	194	213	171	84	0	0	0	0	0	2606
S/A	0	0	0	0	1.87	0.85	0.8	0.87	0.82	0.72	0.66	0.75	0.77	0.81	0.87	0.91	0.9	1.01	1	2.62	0	0	0	0	0.7
Min	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	0	0	0	0	0	0	0	0	0	390
Max	0	0	0	0	14	267	562	719	797	823	829	848	835	816	795	758	685	551	257	1	0	0	0	0	9355
n	0	0	0	0	82	360	352	354	360	360	348	330	318	318	320	323	342	351	360	111	0	0	0	0	4989

Daylight Data Recovery: 0.0% missing; 0.0% untested; 4.7% exceed the 15% QC threshold -- 5233 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.

June 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	2	33	65	85	129	131	113	113	122	123	111	98	84	63	33	6	0	0	0	0	1310
2	0	0	0	0	4	41	108	191	254	322	241	259	519	413	331	228	124	77	19	1	0	0	0	0	3133
3	0	0	0	0	1 ?	2 ?	?	46 ?	69	153	153	497	368	404	343	334	174	37	27	3	0	0	0	0	2612 ?
4	0	0	0	0	5 ?	38	97	121	147	326	319	158	154	179	258	207	117	73	25	2	0	0	0	0	2225
5	0	0	0	0	6 ?	33	68	92	106	118	132	157	196	235	288	205	184	130	58	10	0	0	0	0	2018
6	0	0	0	0	4 ?	34	79	115	137	260	291	330	235	311	310	248	203	126	42	6	0	0	0	0	2730
7	0	0	0	0	6 ?	33	76	134	226	298	416	454	394	280	323	298	211	139	55	8	0	0	0	0	3352
8	0	0	0	0	6 ?	43	108	160	224	206	198	202	245	286	286	232	152	91	45	2	0	0	0	0	2486
9	0	0	0	0	6 ?	44	123	221	317	416	379	511	585	547	322	257	177	117	41	1	0	0	0	0	4064
10	0	0	0	0	1	15	50	143	357	506	524	578	560	449	315	301	238	95	35	3	0	0	0	0	4171
11	0	0	0	0	19 ?	72	152	244	317	358	366	448	438	341	374	296	179	116	43	5	0	0	0	0	3768
12	0	0	0	0	7 ?	41	97	128	153	170	256	336	345	350	332	234	157	97	36	3	0	0	0	0	2741
13	0	0	0	0	4 ?	45	119	173	259	337	299	252	286	259	268	243	151	84	42	8	0	0	0	0	2828
14	0	0	0	0	0	31	75	74	143	174	280	278	542	446	244	234	214	62	52	6	0	0	0	0	2856
15	0	0	0	0	6 ?	47	55	174	277	382	496	142	300	361	313	288	151	95	33	7	0	0	0	0	3127
16	0	0	0	0	5 ?	39	117	245	349	282	385	335	347	467	309	234	191	103	70	9	0	0	0	0	3488
17	0	0	0	0	8 ?	54	133	181	173	203	214	212	223	294	286	214	166	113	54	12	0	0	0	0	2541
18	0	0	0	0	5 ?	39	88 ?	130 ?	169	204	220	226	243	251	275	240	179	125	49	6	0	0	0	0	2449
19	0	0	0	0	6 ?	42	122	205	264	319	359	352	320	333	350	302	204	135	47	4	0	0	0	0	3364
20	0	0	0	0	6 ?	47	142	221	384	259	347	280	89	178	118	172	124	156	85	17	0	0	0	0	2624
21	0	0	0	0	7 ?	33	60	68	82	93	110	103	101	99	107	80	74	70	37	8	0	0	0	0	1132
22	0	0	0	0	4 ?	37	91	156	245	192	172	164	134	169	185	190	163	128	42	7	0	0	0	0	2078
23	0	0	0	0	6 ?	46	107	182	290	409	266	275	316	371	272	318	213	124	44	10	0	0	0	0	3247
24	0	0	0	0	5 ?	29	90	237	270	303	296	299	273	327	308	302	263	134	48	7	0	0	0	0	3190
25	0	0	0	0	3	33	140	214	364	343	264	427	538	475	416	350	233	160	69	14	0	0	0	0	4044
26	0	0	0	0	5	6	35 ?	169	324	391	417	427	412 ?	?	?	?	112 ?	46	23	23	0	0	0	0	2389 ?
27	0	0	0	0	5	43	119	197	291	376	392	?	?	?	?	?	?	88 ?	20	3	0	0	0	0	1535 ?
28	0	0	0	0	3	36	116	178	229	286	289 ?	338 ?	342 ?	361 ?	393 ?	293	226	77	83	24	0	0	0	0	3271 ?
29	0	0	0	0	2	37	105	211	236	273	361 ?	537	491 ?	369 ?	326 ?	173 ?	67 ?	108	39	10	0	0	0	0	3347 ?
30	0	0	0	0	2	22	148	181	315	328	484	481 ?	415 ?	367	314 ?	350 ?	211	52 ?	16	4	0	0	0	0	3689 ?
Avg	0	0	0	0	5	37	99	163	237	281	301	316	329	323	288	247	170	101	44	8	0	0	0	0	2860
S D	0	0	0	0	3	13	31	54	88	100	111	135	144	110	77	67	50	32	17	6	0	0	0	0	775
S/A	0	0	0	0	0.67	0.37	0.31	0.33	0.37	0.36	0.37	0.43	0.44	0.34	0.27	0.27	0.29	0.32	0.39	0.74	0	0	0	0	0.27
Min	0	0	0	0	0	2	35	46	69	93	110	103	89	99	107	80	67	37	16	1	0	0	0	0	1132
Max	0	0	0	0	19	72	152	245	384	506	524	578	585	547	416	350	263	160	85	24	0	0	0	0	4171
n	0	0	0	0	61	355	336	349	360	360	348	332	318	319	320	324	339	348	360	111	0	0	0	0	4941

Daylight Data Recovery: 0.0% missing; 0.0% untested; 5.6% exceed the 15% QC threshold -- 5233 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

June 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	19.2	18.4	17.9	17.7	17.3	17.2	19.6	21.7	22.9	23.7	24.6	25.4	26.3	27.1	27.7	27.7	27.5	27.2	25.9	24.1	22.9	22.2	21.9	21.6	22.8
2	21.1	20.4	19.9	19.4	19.3	19.4	21.4	22.7	23.5	24.5	25.7	26.7	27.1	26.4	25.3	25.4	24.7	24.2	23.7	23.1	22.9	22.5	21.5	20.8	23
3	21	21.6	20.5	20.4	20.9	21.3	21.2	21.1	21.7	22.7	23.6	24.7	25	25.3	25.5	25.6	25	22	21.1	20.8	20.5	20.3	20.3	20.2	22.2
4	20.3	20.6	20.7	20	19.7	19.5	19.8	21.1	23	24.6	25.7	27.1	28.7	29.6	30.3	30.1	28.4	28.4	26.8	25.9	25.1	24.8	24.7	24.2	24.5
5	23.9	23.3	22.6	22.3	22.1	21.9	22.7	24	25.6	26.8	27.6	28.3	28.9	29.6	29.9	29.4	29.6	29.9	28.8	27.4	26.4	25.3	24.3	23.6	26
6	23.6	21.3	18.3	17.7	17.1	17.3	18.5	19.9	21.2	22.4	23.7	24.8	24.5	25.2	24.6	23.9	24	23.6	22.7	21.8	21.1	20.6	20.3	20.1	21.6
7	19.8	19.3	18.8	19.2	19.2	19.6	21.5	23.6	24.8	26	27.3	28.2	28.6	29.3	29.9	30	29.3	28.3	27.2	26	25.5	25.1	24.6	24.2	24.8
8	23.8	23.4	23.1	22.7	22.5	22.7	23.8	25.3	26.8	28	29.1	30.5	31.8	32.8	33.3	33.1	33.5	32.9	31	29.2	28.3	27.6	26.9	26.1	27.8
9	25.9	24.2	23.7	23.1	22.6	22.4	23.5	25	26.2	26.8	26.9	27.2	27.7	28.7	29.7	29.5	29.5	28.8	27.8	26.5	25.3	23.7	22.5	21.4	25.8
10	21.1	20.7	20.7	20.3	20.1	20.1	20.3	20.8	21.7	22.6	23.6	23.9	23.4	22.6	22.1	21.9	21.8	21.4	20.9	19.7	19.1	18.7	18.4	18.3	21
11	17.9	16.6	15.8	15.5	15.3	16	17.6	19	20.8	22	24.2	25.4	25.9	25.4	25	24.8	24.8	24	23.1	22.5	21.7	21.3	21	20.7	21.1
12	19.6	18.7	18.5	18.4	17.7	17.7	19.7	22.2	24.5	26.4	27.9	27.8	28.5	28.6	28.1	26.6	26.6	26.4	25.2	24.2	23	21.9	21.1	20.8	23.3
13	20.4	20.1	19.7	19.6	19.1	18.8	19.4	19.9	21.1	22.4	23.7	24.2	24.6	24.4	24	23	22.2	21.1	20	18.8	18.7	18.6	18.6	18.5	20.9
14	18.2	18	17.5	17.3	16.2	16.5	17	16.7	17	17.3	17.6	18	18.8	18.8	17.9	17.4	16.5	16.6	16.8	16.5	16.4	16.3	16.4	15.9	17.2
15	15.4	15.2	15.2	14.8	14.4	14	14	15.9	17.9	18.5	19	17.9	18.1	19	18.6	19.8	18.9	18.9	18.4	17.8	17	16.3	15.5	15.6	16.9
16	14.7	14	13.8	13.7	12.9	13.3	15.6	18	19.5	21.6	22.5	23.2	23.6	24.6	25	24.7	24.3	22.8	22.1	21.5	21.5	20.7	20.1	19.7	19.7
17	19.2	18.7	18.6	18.5	18.2	18.5	19.8	21.7	24.5	26.6	27.9	28.5	29.7	29.5	28.6	28.8	28.4	26.7	25.8	24.4	23.6	23.3	22.8	22.5	23.9
18	22.1	22.1	21.9	21.5	21.2	21.1	21.9	24.2	27.2	29.1	30.9	32.2	33.2	34.2	34.1	33.2	33	31.6	30.6	29	27.4	26.5	25.8	25.4	27.5
19	25.2	24.8	24.1	23.5	23.2	23.3	24.4	26.5	28.9	31.5	33.4	33.7	33	32.8	33.9	32.9	32.4	31.1	30.4	29.2	28.1	27.3	26.7	25.9	28.6
20	25.1	24.5	23.9	23.4	23	23	23.9	24.9	25.7	26.7	26.8	26.2	24.4	22.7	22.6	22.9	23.2	23.6	23.8	22.9	21.9	20.9	20.2	19.8	23.6
21	19.3	18.9	18.5	18.1	17.9	18.2	20.1	22.4	23.7	25	26.1	27.2	27.8	28.4	29	29.7	29.2	26.4	26.1	24.7	23.2	22.1	22.6	21.9	23.6
22	21.8	21.4	21.1	20.5	19.9	20.1	20.8	22.2	23.9	25.6	27.1	28.6	29.2	30	30.4	30.1	29.7	29.2	27	25.5	23.8	22.4	22	21.1	24.7
23	20.6	19.6	18.6	18.1	17.5	17.7	20.4	22.1	23.1	24.4	25.3	25.6	25.9	25.8	24.9	25.4	25.1	24	23.1	22.2	21.7	21.3	20.9	20.8	22.2
24	20.7	20.1	20.1	19.3	19	19.8	22.2	24.3	25.8	26.2	27.1	27.8	28.5	28.6	28.2	28	27.3	26.6	26.3	25.6	24.6	23.8	23.5	23.1	24.4
25	22.7	22.7	22.5	22.2	22.1	22.3	23.8	25.1	26.2	27	27	27.7	29.2	30.5	30.7	29.7	29	28.6	27.2	26.2	25.5	25	24.6	24.2	25.9
26	23.7	23.5	23.6	23.7	23.7	23.1	22.9	23.3	24.8	26.6	28.4	30	30.7	31.2	31.5	31.4	30.9	29.2	28.1	27.3	26.4	25.8	25.4	25	26.7
27	24.6	24.3	24	23.7	23.5	23.6	24.4	25.4	26.4	27.9	29	30	30.7	31.5	31.8	31.7	31.1	30.1	28.5	27.4	26.5	26	25.6	25.1	27.2
28	24.6	24.2	24	23.6	23.4	23.5	24.3	25.7	27.1	28.4	29.9	30.9	31.7	32.4	32.9	32.6	32.4	31.4	30.5	29.2	28.1	27.4	26.8	26.2	28
29	25.9	25.5	25.3	25.1	24.9	24.8	25.3	26.4	27.5	28.7	29.9	30.9	31.5	32.8	33.3	30.2	24.1	23.6	23.4	23	22.8	22.6	22.3	22	26.3
30	22	22.1	22.2	22.3	22.4	22.4	22.9	23.5	24.5	25	26.4	27.8	28.9	29.2	30	30.4	27.8	24.7	23	23.2	23.6	23.4	21.7	21.4	24.6
Avg	21.5	20.9	20.5	20.2	19.9	20	21.1	22.5	23.9	25.2	26.3	27	27.5	27.9	28	27.7	27	26.1	25.2	24.2	23.4	22.8	22.3	21.9	23.9
S D	2.9	2.9	2.9	2.9	3	2.9	2.7	2.8	2.9	3.1	3.3	3.5	3.7	3.9	4.3	4.1	4.1	4	3.7	3.4	3.1	3	2.9	2.8	3
S/A	0.13	0.14	0.14	0.14	0.15	0.15	0.13	0.12	0.12	0.12	0.12	0.13	0.13	0.14	0.15	0.15	0.15	0.15	0.15	0.14	0.13	0.13	0.13	0.13	0.12
Min	14.7	14	13.8	13.7	12.9	13.3	14	15.9	17	17.3	17.6	17.9	18.1	18.8	17.9	17.4	16.5	16.6	16.8	16.5	16.4	16.3	15.5	15.6	16.9
Max	25.9	25.5	25.3	25.1	24.9	24.8	25.3	26.5	28.9	31.5	33.4	33.7	33.2	34.2	34.1	33.2	33.5	32.9	31	29.2	28.3	27.6	26.9	26.2	28.6
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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

June 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	95.1	97.9	100.4	101.3	103.2	104.5	99.7	87.3	78.2	74.6	65.9	62.6	61.9	59.6	57.7	57.4	59.5	62.6	69	75.7	84.6	89.9	92.3	93.9	80.6	
2	95.4	98.2	101.1	103.8	104.8 ?	?	101	93.7	86.4	80.9	72.1	64.5	63.9	70.2	77	76.4	78.1	81.3	84.2	89	91	93.8	99.6	103.7 ?	87.4	
3	101.6	99.1	102 ?	?	?	?	?	?	?	?	104.2	101.5	100.9	97.8	97.3	91.4	93.1	104 ?	?	?	?	?	?	?	99.4 ?	
4	?	?	?	?	?	104.9 ?	102.5	93.8	86.3	82.1	78.7	73.4	64.5	58.8	57	58.2	70.7	73.8	83.6	83.3	85	91.7	94.2	94.7	80.9 ?	
5	95.7	98.2	100.6	101.3	101.4	101.4	97.6	89.5	77.4	67.5	63.4	62.1	61	57.7	56.8	57.7	56.9	60.2	64.8	72.7	76.1	81.7	88.3	93.3	78.5	
6	90.2	95.5 ?	104.8 ?	104.8 ?	?	?	104.3 ?	99.6	92.7	88.3	82.5	76.9	79.2	76.6	80	79	78.5	80.5	82.8	81.5	86.5	88.7	91.4	94.2	88.1 ?	
7	93.6	96.2	97.5	95.4	97.3	99	99	97.6	93.9	84.7	74.4	71.5	73.6	68.9	69	73.2	80.2	87	91.3	96.1	96.3	96.7	97.9	100.3	88.8	
8	101.7	103.5	104.7 ?	?	?	?	103.4 ?	97.5	91.6	88.5	85.4	79.8	73.7	68	67.9	69.4	67.2	69.1	82.1	93.4	96.5	97.5	97.3	99.3	87.5 ?	
9	100.2	101.7	103.5	100.1	101.2	102	104.1	101.3	90.3	86.6	82.3	79.6	77.9	76.8	71.1	70.1	71.4	72.7	74.8	80.1	84.3	94.9	100.2	103.9	88.8	
10	104.3	104.1	104.4 ?	104.7 ?	?	?	104.7 ?	104.4	100.2	93.4	86	67.5	68.4	75.6	73.1	71.6	70.1	70	71.4	72.3	77.8	83.3	88.8	92.5	95.1	86.2
11	96.9	101.8	104.3 ?	?	?	?	103.9 ?	101	97	87.7	83.3	77.7	74.1	72.5	77.1	79.6	80.6	80.8	83.7	86.5	90.8	94.6	94.8	97.8	97.9	89.3 ?
12	100.8	102	99.1	100.2	103.1	104.3	99.9	92.2	79.3	70.3	63.9	65.3	62.9	60.5	67.2	75.4	72.3	73.3	78.7	85.4	90.7	94.9	100.2	96.6	84.9	
13	97.3	98.1	99.1	98.6	100.3	101.8	99.5	99.2	96.2	89.9	82.5	78.9	76.1	77.8	80.1	82.1	82.1	85.3	90.2	94.9	95.7	95.1	94.8	93.8	91.2	
14	92.6	91.5	91.8	90.3	97.6	93.7	91.3	94.4	90.6	85.5	86.8	87	81.5	82.2	87.6	92.8	97	90.5	87.2	87.1	88.5	89.3	89.9	94.1	90	
15	98.7	99.7	99.3	100.4	101.1	100.5	102.4	96.7	88	82.1	79.6	87.6	87.8	85.2	88.1	83.2	88.4	88.1	91.1	95	97.3	99.9	102.7	103.6	93.6	
16	104.1 ?	?	?	?	?	?	103.5 ?	98.6	91.7	78.5	75.6	74.6	75	73.1	74.4	75	77.5	86	91.6	96.3	95.6	98.3	102.1	104	88.2 ?	
17	?	?	?	?	?	?	104.5 ?	99.8	88.4	77	67.4	63.1	56.4	64.8	70.1	69.8	72.5	75.7	84.1	91.4	96.7	100.6	103.5	104.7 ?	82.8 ?	
18	?	?	?	?	?	?	103.1 ?	92.8	70.6	62.1	55	50.8	48.8	46.3	49.6	50.6	48.8	56.7	64.6	71.2	80.2	87.1	92.5	91.1	67.9 ?	
19	88.2	91.4	95.9	98.9	101	101.5	98.5	88.3	79.2	66.3	58	57.8	63.9	62.9	52.1	61.3	62.7	73.2	74.3	82.9	87.2	87.9	87.3	89.7	79.6	
20	94.1	98	101.5	104.3	?	?	103.9 ?	101.4	98.6	94.9	91.4	87.3	94.7	103	103.1	103.7	101.5	96.7	94.5	98.6	101.9	104.7 ?	?	?	98.9 ?	
21	?	?	?	?	?	?	95	79.1	76.1	71.2	60.9	50.6	42.2	36.4	33.7	31.6	44.2	62.4	63.3	71.7	79.5	82.3	76.3	81.2	63.2 ?	
22	83.3	84.6	80.1	82.2	86.4	87.5	85.5	76.3	72.2	66.9	58.3	54.9	53.4	49.5	47.3	45.6	46.8	47.3	64.6	58.1	68.6	79.2	77.4	82.9	68.3	
23	87.2	93.4	96.6	98.3	99.7	97.6	81.9	77.6	77.7	70.7	68.8	67.2	65.1	66.3	69.4	69.8	69.9	72.1	77	83.8	87.6	90.9	92.6	94.7	81.5	
24	96.7	99.8	99.4	104.3 ?	104.3 ?	104.7 ?	100.8	93.8	74.7	70.8	65.5	65	59.8	62	65.7	69.4	71.9	76.3	75.6	78.4	83.6	87.4	85.6	88	82.7	
25	89.1	90.8	93.8	96.4	97.5	98.4	97.8	96	93.4	88.8	87.9	86.3	74.3	66.4	70.2	77.8	80.3	82.6	87.3	90	91	94.8	98	99.4	88.7	
26	100.8	101.9	102.9	103.1	101.6	101.3	102.7 ?	?	100.1	90.7	81.6	75.2	72.7	68.9	68.3	69.4	70.3	84.9	89.7	87.3	92.4	96.6	97.7	98.3	89.5	
27	99.3	101.2	102.3	103	104	104	101.6	98.4	93.3	85.5	77.4	75.7	75	71.7	68.4	67.8	71.5	77.8	83.4	88.8	93.3	95	94.6	95	88.7	
28	96.5	98.6	100	101.2	102.2	102.2	100.2	95.6	89.5	84.4	78.5	74.3	72.7	69.9	66.8	67.6	68.7	72.4	78.4	85.6	88.1	86.8	87	90	85.7	
29	90.8	93.5	94.1	95.4	97	97.8	97.1	94.1	89.6	84.5	78.9	74.2	70	65	60.4	78.3	103.8 ?	104.5 ?	102.7	104.8 ?	104.2	104.7 ?	104.8 ?	?	90.9 ?	
30	?	?	?	?	?	?	104.8 ?	104.1	100.9	98.3	92.8	85.9	82.3	80	76.9	76.1	89.5	96.4 ?	?	?	?	?	?	?	90.7 ?	
Avg	95.8	97.5	99.1	99.4	100.2	100.8	99.7	94.1	87.2	80.7	75.5	72.5	70.6	69.2	69.5	71	74.2	78.3	81.1	85.4	89.3	92.7	94	95.5	85.4 ?	
S D	5.4	4.7	5.4	5.4	4.2	4.3	5.4	7	8.5	9.3	11.6	11.8	12.6	13.5	14.5	14.2	14.7	13.3	10.1	10	7.9	6.4	7.2	6.2	8.1	
S/A	0.06	0.05	0.05	0.05	0.04	0.04	0.05	0.07	0.1	0.12	0.15	0.16	0.18	0.2	0.21	0.2	0.2	0.17	0.12	0.12	0.09	0.07	0.08	0.06	0.09	
Min	83.3	84.6	80.1	82.2	86.4	87.5	81.9	76.3	70.6	62.1	55	50.6	42.2	36.4	33.7	31.6	44.2	47.3	63.3	58.1	68.6	79.2	76.3	81.2	63.2	
Max	104.3	104.1	104.8	104.8	104.8	104.9	104.8	104.1	100.9	98.3	104.2	101.5	100.9	103	103.1	103.7	103.8	104.5	102.7	104.8	104.2	104.7	104.8	104.7	99.4	
n	291	285	263	233	208	207	289	336	346	348	359	360	360	360	360	360	351	341	336	328	334	321	317	300	7594	

Data Recovery: 0.0% missing; 0.0% untested; 12.1% failed QC -- 8640 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

June 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	18.2	17.7	16.7	16.1	15.8	15.7	17.6	21.4	24.7	27	28.4	29.4	29.8	30.1	31.2	32.2	32.5	32	30.5	27.5	24.6	22.9	21.9	21.3	24.4
2	20.7	19.9	19.1	18.6	18.4	18.3	19.8	22.8	25.3	26.9	29.3	31.1	31.8	32	30.1	28.5	27.5	26.2	25.2	24.2	23.5	23	22.1	21.2	24.4
3	20.6	20.3	20.4	20.4	20.7	21	21.2	21.3	21.5	22	22.9	24	25.8	25.7	26.8	27.5	27.8	25.5	22.9	21.9	21.3	21	20.8	20.6	22.7
4	20.6	20.6	20.8	20.7	20.4	20	19.9	20.8	23.5	26.1	27.9	29.1	30.1	31.1	32.4	33.2	31.9	31.4	29.6	27.7	26.2	25.2	24.7	24.2	25.7
5	23.8	23.5	22.9	22.3	22	21.8	22.7	24.7	27	29	30.3	31.1	31.5	31.9	32.7	32.9	31.9	32.2	32.1	30	27.7	25.9	24.9	23.9	27.4
6	23.3	23.2	20.8	18.8	17.8	17.4	18.1	20.1	23	25.4	27.3	28.9	29.2	29.3	29.9	29.3	28.6	28	26.4	24	21.8	20.6	20	19.5	23.8
7	19.1	18.6	17.7	17.4	17.6	17.9	19.9	23.4	26.5	28.5	30.6	32.4	33	33.2	33.9	34.4	34.4	32.9	31.2	28.8	26.7	25.5	24.9	24.4	26.4
8	24	23.6	23.2	22.8	22.5	22.3	23.3	25.5	28.1	30.5	32.6	34.3	35.1	35.9	37.2	37.8	38	37.8	36	32.9	30.2	28.7	27.8	26.9	29.9
9	26.2	25.4	23.7	23.1	22.4	22.2	22.8	24.4	26.4	28.2	29.4	30.1	31	32.1	33.3	33.9	33.8	33.5	31.8	29.1	26.6	24.9	23.4	21.8	27.5
10	20.8	20.4	20.6	20.9	20.8	20.7	20.8	21.2	22.4	24.7	26.9	28.4	29.1	28.4	27.1	25.9	25.2	24.6	24.1	22	19.8	18.6	18	17.6	22.9
11	17.4	16.9	15.9	15.1	14.8	14.9	16.2	18.3	21.1	23.8	26.6	29.8	31.6	31.7	30.6	30.3	29.8	28.8	26.5	24.2	22.8	22	21.4	20.9	23
12	20	19	18.2	17.9	17.5	17.1	18.4	21.7	25.6	28.9	31.5	33	32.9	33.2	33.3	32.6	31.5	30.9	29.5	26.5	24.2	22.8	21.8	20.9	25.4
13	20.3	19.9	19.4	19	18.7	18.4	19	20.2	21.7	23.5	25.9	28	28.8	29	28.9	28.5	27.2	26.2	24.5	21.9	20	19.3	19.1	19	22.8
14	18.8	18.6	18.3	17.9	17.4	16.6	16.9	17.6	17.7	18.3	18.9	19.7	20.6	22	21.8	20.8	19.9	19	18.3	18	17.2	16.6	16.5	16.5	18.5
15	16.2	15.8	15.6	14.8	14	13.5	13.6	14.7	17.4	19.8	21.6	22.4	20.9	21.6	22.1	23	23.1	21.7	20.7	19.6	17.9	16.4	15.1	14.3	18.2
16	14	13.5	12.9	12.7	12.6	12.5	13.9	17.1	20	23.2	26.8	28.3	28.2	28.8	30.3	29.9	28.6	26.9	24.9	23.3	21.9	21	20.1	19.5	21.3
17	19	18.4	18.1	18	17.8	18	19.1	20.9	24.7	29.4	32.7	34.2	34.7	35.4	34.7	33.6	33.5	32.5	30.2	27.5	25	23.5	22.7	22.1	26.1
18	21.8	21.7	21.7	21.6	21.3	21.1	21.7	23.4	27	30.8	33.7	36	37.2	38	39.4	38.8	37.5	36.4	34.4	31.8	29.3	27.4	26.4	25.6	29.3
19	25.1	24.8	24.3	23.6	23.1	22.9	23.8	26.1	29.5	33.5	37.3	38.9	38.8	37.5	36.7	37.8	37.2	36.1	33.9	31.6	29.6	28.1	27.2	26.4	30.6
20	25.6	24.9	24.2	23.7	23.3	23	23.6	25.2	26.9	29	29.2	29.7	28.5	25.5	23.6	23.1	23.2	23.8	24.7	24.6	22.6	20.9	20.1	19.7	24.5
21	19.3	18.8	18.2	17.9	17.6	17.8	18.6	20.9	24.3	27.2	29.4	31.1	31.7	31.6	32.5	33.7	34.7	33.1	30.7	27.8	24.7	22.3	21.3	21.2	25.3
22	20.9	20.8	20.6	20.3	19.8	19.8	20.8	22.8	25.4	27.6	30.2	32.4	33.6	33.9	34.8	35.3	34.5	33.4	31.8	28.5	25.2	22.6	21	19.9	26.5
23	19.2	18.5	17.7	17.1	16.6	16.3	18	21.5	24.2	26.5	28.8	30.9	31.8	31.6	30.1	29.3	30.1	28.7	26.3	24.2	22.4	21.2	20.2	19.6	23.8
24	19.2	19	18.5	18.3	18.2	18.2	19.4	22.8	26.5	29	30.5	32	32.9	33.2	32.9	32.4	31.8	30.3	28.6	27.3	25.9	24.5	23.6	23	25.8
25	22.4	22	22	21.9	21.6	21.5	22.6	25.1	27	29.4	30.1	30.2	32.2	34.3	35.7	35.2	34	32.9	31.2	28.9	26.9	25.6	24.9	24.4	27.6
26	23.8	23.5	23.4	23.4	23.4	23.5	23.2	23.1	24.1	27.6	31.2	33.6	35.2	35.9	36.3	36.6	36.1	33.3	30.8	29.2	27.8	26.7	25.9	25.3	28.5
27	24.8	24.4	24.1	23.8	23.5	23.4	24.1	25.6	27.2	29.6	32.3	33.9	34.9	35.3	36	36.4	36.3	35.3	33	30	28	26.8	26.1	25.5	29.2
28	25	24.5	24.1	23.8	23.5	23.4	24.1	26.1	28.5	30.7	32.6	34	34.9	35.6	36.5	36.8	36.1	35.4	33.3	31.7	29.9	28.5	27.7	27	29.7
29	26.4	26	25.6	25.3	25.1	25	25.5	27.2	29.1	31.3	33.3	34.5	34.9	35.7	37.1	37.3	31.3	26.4	24.6	23.6	23	22.6	22.4	22.2	28.1
30	22	21.9	22	22.1	22.2	22.3	22.8	24	25.1	27	28.6	30.9	32.6	33.5	33.6	35.1	34.7	31	26.4	24.3	23.8	23.8	23.3	22.3	26.5
Avg	21.3	20.9	20.4	20	19.7	19.6	20.4	22.3	24.7	27.1	29.2	30.7	31.4	31.8	32	32.1	31.4	30.2	28.5	26.4	24.5	23.3	22.5	21.9	25.5
S D	3.1	3.1	3.1	3.2	3.2	3.2	3	2.9	3.1	3.4	3.7	3.9	4.1	4.1	4.4	4.7	4.6	4.6	4.3	3.8	3.4	3.3	3.2	3.1	3.1
S/A	0.14	0.15	0.15	0.16	0.16	0.16	0.15	0.13	0.12	0.13	0.13	0.13	0.13	0.13	0.14	0.15	0.15	0.15	0.15	0.14	0.14	0.14	0.14	0.14	0.12
Min	14	13.5	12.9	12.7	12.6	12.5	13.6	14.7	17.4	18.3	18.9	19.7	20.6	21.6	21.8	20.8	19.9	19	18.3	18	17.2	16.4	15.1	14.3	18.2
Max	26.4	26	25.6	25.3	25.1	25	25.5	27.2	29.5	33.5	37.3	38.9	38.8	38	39.4	38.8	38	37.8	36	32.9	30.2	28.7	27.8	27	30.6
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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

June 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	1.1	0.3	0.1	0.5	0.5	0	1	2.3	2.9	3	3	3.3	3.2	3.3	3.1	3.2	3.2	3.1	2.8	2.5	2.6	2.4	2.3	1.9	2.2	
2	1	0.4	0.4	0.4	0.4	0.1	1	2.1	2.6	2.8	3	3.1	2.9	4	4.4	3.7	3.9	3.5	3.1	2.9	2.8	2	1.3	0.8	2.2	
3	1.6	2	3.2	3.7	4.2	5.4	6.8	4.9	4.4	5.3	5.5	5.4	5.4	5.4	5.2	5.1	4.5	3	1.9	1.4	2	1.4	2	2.4	3.8	
4	2.2	2.6	3.7	4.2	4.2	4.4	4.6	4.6	4.8	5	5.2	5.2	5.5	5.7	4.7	4.8	2.7	2.2	2.5	2.9	2.3	3.1	2.5	2.5	3.8	
5	2.7	2.4	1.9	2.2	2.9	2.9	3.6	3.7	3.9	5.3	5.7	5.2	4.8	4.8	4.8	4.2	4.3	1.8	1.3	0.6	1	1	1.7	1	3.1	
6	1.7	4.4	2.4	0.7	1.1	1	1.8	1.9	2.7	2.4	2.1	2.1	2.1	1.8	2.8	3	2.8	2.5	2.2	1.8	1.9	1.7	1.8	1.9	2.1	
7	1.5	0.8	1.1	1.3	1.2	1.1	1	2.7	2.9	3	2.6	2.7	3.5	3.4	3.4	3	3.4	3.1	3.5	2.6	2.3	2.9	2.9	3.1	2.5	
8	3.4	2.8	2.3	1.7	1.4	1.8	2.7	3.6	3.6	3.2	3	3.2	3.3	3.1	2.6	3	2.8	2.3	2.6	2.5	2.3	2.5	2.2	1.8	2.7	
9	1.5	1.8	2.3	2.4	0.9	0.5	0.5	1.4	2.3	3.2	3.3	3.2	3	2.8	2.9	2.9	2.5	2.3	1.8	1.5	1.8	1.8	0.5	0.7	2	
10	1.6	2.4	3.2	2.8	2.7	2.4	2.3	3	3.1	3.4	3.6	3.4	3.9	3.4	3.1	3	2.9	3	2.5	1.7	1.1	1.2	1	1	2.6	
11	0.5	0.3	0.1	0.1	0.3	0.4	0.8	1.4	1.2	1.5	1.3	1.3	1.7	1.7	3	3	3	3	2	1.8	2.2	1.3	1.3	0.8	1.4	
12	1	0.7	1.3	1	0.5	1	1.1	1.2	1.7	1.8	2.2	2.5	1.4	2	2.1	2.5	2.4	2.1	1.6	0.6	2.3	1.9	2.2	1.9	1.6	
13	2.2	1.3	0.5	1.2	1.2	1.2	2.1	2.4	3	4.1	4.1	4	3.7	4.1	4	4.7	4.4	4	3.5	3.2	2.7	2.7	3	3	2.9	
14	3.6	3.7	3.7	3.5	3.3	3.3	3	3.1	3.3	3.3	3.4	3.1	4.4	4.6	3.6	3.9	4.1	3.5	3.2	3	3.1	2.5	1.8	1.9	3.3	
15	1.7	1.5	1.6	1.9	1.4	0.8	0.5	1.2	2	2.6	2.5	2.5	2.1	2	2.2	2.2	1.6	1.3	1.9	1.4	1.2	0.1	0	0.1	1.5	
16	0.2	0	0	0.1	0.1	0	0.2	1.6	1.1	1	1.6	0.9	0.8	1.4	1.7	1.4	2.4	3.7	3.3	2.3	2.5	1.1	1	0.6	1.2	
17	0.1	0	0.1	0	0.3	0.6	0.5	1.1	0.6	0.7	1.5	1.7	1.4	2.1	2	1.6	3.1	3.6	2.9	2.1	1.1	1.4	1.1	1	1.3	
18	0.7	0.8	0.8	0.7	0.6	0.5	1	1.6	2.1	2.7	2.1	2.4	1.9	1.6	2.1	3	2.8	2.8	2.4	1.9	1.5	1.8	1.7	1.7	1.7	
19	1.5	1.6	1	1	1.5	2	1.9	2.1	1.4	1.2	1.3	1.7	2.5	3.6	3.4	4.1	3.5	3.9	3	2.5	2.3	2.3	2.7	2.4	2.3	
20	2.2	2.2	2.2	2.1	1.8	1.7	1.6	2.8	2.8	2.9	2.8	3.7	2.7	2.9	1.6	1.5	1.6	1.6	1.6	0.4	0	0	0	0.2	1.8	
21	0	0	0.1	0	0.8	1	1.4	2.4	3	2.5	2	2.3	2.3	2.7	2.1	1.7	2	2.7	2	1.4	0.9	0.9	1.5	1.8	1.6	
22	2.2	2.5	2.5	2.3	2.3	2.4	1.9	2.2	1.8	2.4	2.6	1.8	2.3	2.3	2.2	2.8	2	1.8	1.7	0.8	0.2	0	0.2	0.2	1.8	
23	0.5	0.2	0.2	0.5	0.3	0.5	1.2	2.4	1.9	2.7	2.4	2.4	2.6	2.4	2.9	3.1	3.3	2.9	2.4	1.9	1.6	0.6	0.4	0.3	1.6	
24	0.6	0.2	0.2	0.3	0.4	0.2	0.3	1.9	2.9	2.3	2.1	2.8	3.1	3.6	3.5	4.4	4.2	3.6	3.7	2.5	2	1.9	1.7	1.3	2.1	
25	1.1	1.2	0.8	0.3	0.8	1.7	1.7	2.3	2.5	2.2	1.9	1.9	2	1.9	1.6	3.3	3.9	3.8	2.9	2.2	2.1	1.6	1.4	0.9	1.9	
26	1.3	1	1	1.5	1.6	0.6	0.5	1	1.5	2.3	2.7	2.5	2.7	3	3.2	3.5	2.9	2.5	2.2	2.7	2.6	2.2	1.8	1.8	2	
27	1.9	2.1	2	1.8	1.8	1.7	2	2.5	3.3	3	3.4	3	3.6	3.5	3.6	4.1	3.9	3.8	3.3	3.2	2.6	2.9	3	3.1	2.9	
28	2.6	2.7	2.7	2.8	2.8	2.9	3.3	3.9	4.3	4.3	4.3	4.3	4.3	3.6	3.8	4.2	4.1	3.5	3.5	3.7	3.6	3.3	3.6	3.1	3.2	3.5
29	3.4	3	3.3	3.5	3.8	4	3.8	3.9	3.5	3.4	3.6	3.9	4	3.3	2.2	3.5	2	2.7	1.4	0.9	2	0.8	1.8	0.7	2.8	
30	0.7	0.2	0.3	0.6	0.9	1.6	2.5	2.5	2.2	2.7	2.4	2.6	2.1	2.2	2.1	2.4	3.6	3.8	2.1	0.7	0.3	0.8	1.3	0.1	1.7	
Avg	1.5	1.5	1.5	1.5	1.5	1.6	1.9	2.5	2.6	2.9	2.9	2.9	3	3.1	3	3.2	3.1	2.9	2.5	2	1.9	1.7	1.7	1.5	2.3	
S D	1	1.2	1.2	1.2	1.2	1.4	1.5	1	1	1.1	1.2	1.1	1.2	1.1	1	0.8	0.8	0.7	0.9	0.8	0.9	0.9	0.9	1	0.7	
S/A	0.63	0.8	0.81	0.81	0.79	0.86	0.77	0.41	0.39	0.39	0.4	0.38	0.39	0.36	0.33	0.3	0.27	0.26	0.29	0.44	0.45	0.56	0.53	0.66	0.33	
Min	0	0	0	0	0.1	0	0.2	1	0.6	0.7	1.3	0.9	0.8	1.4	1.6	1.4	1.6	1.3	1.3	0.4	0	0	0	0.1	1.2	
Max	3.6	4.4	3.7	4.2	4.2	5.4	6.8	4.9	4.8	5.3	5.7	5.4	5.5	5.7	5.2	5.1	4.5	4	3.7	3.6	3.3	3.6	3.1	3.2	3.8	
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640	

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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

June 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	218	224	234	225	218	237	269	267	268	254	244	238	249	229	226	223	219	231	231	226	215	219	237	247	236
2	245	229	222	240	231	241	263	279	267	241	230	225	236	184	173	185	204	205	218	216	207	200	189	139	214
3	151	141	124	121	152	159	170	148	158	175	183	184	187	190	180	206	194	185	146	93	40	5	335	313	170
4	306	290	303	297	298	293	296	301	302	304	304	295	300	301	290	274	293	227	222	246	266	249	257	248	288
5	256	267	262	262	275	277	285	286	295	304	300	295	284	293	284	281	287	308	310	297	350	132	215	237	285
6	259	334	27	313	295	312	302	311	322	350	35	36	99	123	123	164	151	132	151	139	160	177	193	191	119
7	187	201	170	184	176	173	173	214	228	221	237	240	224	232	229	236	225	222	216	219	224	243	252	263	224
8	271	272	276	268	259	266	269	284	295	297	282	283	275	284	257	234	240	241	237	238	242	256	262	256	266
9	333	271	298	300	328	328	351	20	47	44	64	53	56	48	56	61	63	79	67	46	63	98	97	6	43
10	57	63	78	57	59	58	69	91	66	79	78	85	100	88	83	89	98	94	104	100	99	95	99	91	82
11	78	356	340	336	341	353	6	5	30	56	82	83	112	146	191	186	185	175	168	168	185	229	217	175	162
12	301	297	314	316	326	323	353	2	17	61	85	100	83	80	161	245	237	209	179	113	111	104	118	119	104
13	111	118	99	98	70	48	56	53	83	90	88	93	88	104	106	107	108	103	109	103	103	99	109	106	97
14	114	108	99	95	91	91	90	89	90	91	82	80	84	85	82	84	88	86	94	96	88	90	67	47	89
15	38	43	55	50	44	359	9	63	65	88	63	70	79	109	111	116	99	103	120	121	126	138	179	111	80
16	273	0	0	303	311	0	298	291	299	307	291	295	293	274	98	141	169	156	153	164	214	215	211	198	198
17	224	0	358	288	275	281	310	328	19	54	65	38	45	203	212	193	164	168	183	179	180	218	233	242	184
18	255	262	268	270	278	275	281	284	298	309	320	313	276	284	188	207	201	185	199	225	230	242	254	264	252
19	262	263	264	269	271	281	290	315	334	359	72	107	182	177	202	214	223	214	223	237	246	246	251	252	235
20	255	254	257	263	262	268	252	277	278	299	347	30	24	32	50	69	61	49	50	14	0	7	0	307	323
21	294	289	279	304	337	347	28	39	61	39	32	21	18	34	53	29	196	183	187	198	223	263	276	276	29
22	283	277	288	296	289	287	360	356	22	42	38	21	1	31	31	20	45	25	130	67	211	22	68	101	357
23	162	259	3	20	16	2	33	64	78	76	83	107	112	123	130	127	134	133	135	149	156	177	180	161	113
24	179	193	100	71	91	128	147	184	179	195	194	167	148	159	174	152	163	163	179	189	183	193	196	189	172
25	207	204	206	241	188	185	212	220	243	249	227	233	255	236	210	189	165	207	228	217	214	226	246	261	217
26	261	258	253	261	294	288	207	212	248	287	276	246	228	227	227	230	226	162	239	224	222	232	239	254	239
27	253	257	256	260	263	252	253	257	266	261	257	244	231	237	236	232	235	233	237	224	231	250	254	253	245
28	258	253	259	262	264	265	272	275	289	281	276	285	276	262	261	242	237	239	243	248	253	258	256	259	262
29	269	274	279	272	277	282	280	286	305	296	299	296	299	324	352	110	193	192	219	258	246	268	274	270	281
30	276	269	273	281	271	279	279	283	302	323	313	328	347	1	12	76	117	154	112	143	186	44	86	207	336
Avg	254	270	282	281	278	276	281	294	306	314	315	308	253	207	186	186	183	177	183	194	201	219	233	244	226
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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

June 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	2	0.8	0.5	0.8	0.8	0.1	1.7	3.8	4.6	5.1	5.4	5.6	5.7	6	5.9	5.9	5.6	5.5	5.3	4.6	4.5	4.4	4.1	3.4	3.8
2	2.1	1.2	1.2	1.2	1.2	0.7	2	3.5	4.3	4.8	5.3	5.8	5.3	6.5	6.8	6.1	6.5	5.8	5.6	5.1	4.8	3.5	2.1	1.7	3.9
3	2.9	3.6	5.7	6.2	7.5	9	11.8	8.6	7.6	8.8	9.3	9.3	9.1	9.4	8.5	8.4	8.1	5	4.1	3.1	4.1	3.4	4.5	4.3	6.8
4	4.1	4.8	6.7	7.8	7.3	7.4	7.7	7.6	8.3	8.3	8.8	8.4	9.8	9.4	7.7	8	4.7	3.9	4.3	5.3	4.1	5.4	4.3	4.4	6.6
5	4.5	4	3.1	3.7	4.6	4.6	5.7	6.1	6.6	8.8	9.2	8.3	7.8	8.3	7.8	6.6	6.8	3.3	2.3	1.1	1.8	1.7	2.8	1.9	5.1
6	2.8	8.2	4.7	1.6	2	2	3.1	3.6	5	4.9	4.3	4.6	3.6	3.4	4.5	4.6	4.4	4.1	3.4	2.9	2.9	2.6	2.9	3	3.7
7	2.4	1.4	1.6	2	1.7	1.6	1.9	4.7	5.2	5.2	4.3	4.9	6	5.8	6.1	5.4	6	5.4	5.9	4.8	4	5.1	5.1	5.6	4.3
8	5.7	4.4	3.7	2.8	2.4	2.9	4.4	6	5.9	5.3	4.9	5.1	5.6	5	4.6	5.2	5	4	4.5	4.4	4.2	4.2	3.8	3.1	4.5
9	2.9	3.1	4	3.8	1.9	1.5	1.8	3.3	4.5	5.8	5.9	5.9	5.3	4.8	5.2	5	4.5	4	3.4	2.5	3	3.2	1	1.4	3.6
10	3	4.2	5.5	5	4.6	4.4	4.1	5.4	5.4	5.8	6.4	6.1	6.5	5.6	5	5.3	4.9	5.1	4.4	3.1	2.1	2.2	1.8	2	4.5
11	1.2	1.1	0.6	0.5	1	1.3	2.2	3.2	2.7	2.9	2.8	3.1	3.4	3.2	4.9	4.8	4.8	4.3	3.3	3.1	3.4	2.2	2.1	1.5	2.6
12	1.6	1.3	1.9	1.7	1	1.8	3	2.7	3.5	3.4	4.2	4.3	3.5	3.9	3.8	4.2	4.2	3.7	2.4	1.2	4	3.6	4	3.3	3
13	3.9	2.5	1.3	2.3	2.4	2.4	3.5	4	5.2	6.8	7.3	6.9	6.4	7.2	6.9	7.5	7.5	6.9	6.1	5.6	4.8	4.9	5.3	5.4	5.1
14	6.1	6.6	6.2	6.4	5.5	5.7	5.3	5.5	6.1	5.9	5.9	5.5	7.3	7.9	6.4	6.8	7.1	6.5	5.8	5.6	5.4	4.5	3.8	3.5	5.9
15	3.4	3	3.3	3.3	2.7	2.1	1.8	2.6	4.1	4.6	4.5	4.3	3.9	3.8	3.8	4	2.8	2.5	3.1	2.8	2.1	0.3	0.2	0.4	2.9
16	0.6	0	0	0.4	0.3	0	0.6	2.7	2.3	2.4	3.2	2.2	2.1	3.2	3.1	2.6	3.9	5.7	5.4	3.6	4.4	2.1	2	1.3	2.3
17	0.8	0	0.3	0.2	0.7	1.3	1.3	2.5	1.7	2	3	3.3	3.2	3.9	3.7	3.4	5.3	5.6	4.4	3.3	1.8	2.7	2.2	2	2.4
18	1.4	1.6	1.6	1.5	1.1	1.1	2	2.7	3.7	4.7	3.8	4.5	3.9	3.2	4.2	5.1	4.8	4.3	4	3.4	2.8	3.2	2.9	2.7	3.1
19	2.4	2.6	1.6	1.6	2.2	2.8	3	4	3	2.5	2.6	2.7	4.2	5.8	5.8	7.2	6.9	6.9	5.7	4.6	4	4.1	4.9	4.3	4
20	3.8	3.7	3.6	3.6	3.2	3	2.9	4.5	4.3	5	5.3	6.7	5.3	5.5	3.2	3	3	3	2.8	1.4	0	0	0	0.5	3.2
21	0.1	0.2	0.3	0.3	1.9	2.6	3.3	4.6	5.1	4.8	4.2	5	4.7	5.1	4.2	3.5	4	4.2	2.9	2.3	1.7	1.5	2.4	2.7	3
22	3.1	3.8	3.9	3.6	3.4	3.9	3.9	4.4	3.7	4.4	4.9	3.8	4.9	5	4.8	5.4	4	3.7	3.3	1.7	0.8	0.2	0.6	0.6	3.4
23	1	0.6	0.5	0.9	0.8	1.3	2.5	4.1	3.4	4.6	4.3	4.9	4.6	4.1	4.9	5.1	5.4	4.9	4	3.1	2.5	1.3	1	0.6	2.9
24	1	0.6	0.7	1	1.1	0.5	0.7	3.4	4.4	4	4	4.9	5.4	5.7	5.8	7.1	6.9	6	5.9	4	3.1	2.9	2.8	2.2	3.5
25	2.1	2.2	1.6	1.1	1.4	2.7	3.3	4.1	4.4	3.8	3.2	3.5	3.7	4	3	5.6	6.3	6.8	5.4	4.1	4	2.9	2.7	1.8	3.5
26	2.2	2	2	2.7	2.9	1.7	1.3	2.2	2.8	3.8	4.4	4.6	4.7	5.2	5.9	6.2	4.8	4.4	3.9	5	4.7	4.3	3.5	3	3.7
27	3.1	3.7	3.6	3.1	3	3.1	3.6	4.3	5.7	5	5.8	5.3	6	6.4	6.9	7.1	7.4	7.4	6.1	6.4	5.1	4.9	5.3	5.4	5.2
28	4.4	4.7	4.8	4.9	4.9	5	5.6	6.7	7.1	6.8	7	7.7	6.5	6.5	7	7.2	6.5	6.3	6.5	6.6	5.6	6.4	5.5	5.6	6.1
29	5.8	5	5.3	5.9	6.2	6	6	6.4	5.8	6	5.9	6.4	6.9	6.3	4.6	6.7	3.7	4.5	3	1.9	3.5	2.1	3.1	1.6	4.9
30	1.7	0.9	1	1.6	1.8	2.7	4.2	4.1	4	4.7	4.2	4.7	4.2	4.4	4.1	4.3	6.1	6.3	3.8	1.9	1	1.6	2.8	0.4	3.2
Avg	2.7	2.7	2.7	2.7	2.7	2.8	3.5	4.4	4.7	5	5.1	5.3	5.3	5.5	5.3	5.6	5.4	5	4.4	3.6	3.3	3	3	2.7	4
SD	1.6	2	2	2	2	2.1	2.3	1.6	1.6	1.7	1.8	1.7	1.7	1.7	1.5	1.5	1.4	1.3	1.2	1.5	1.4	1.6	1.5	1.6	1.2
S/A	0.57	0.74	0.75	0.75	0.73	0.75	0.66	0.36	0.33	0.34	0.35	0.32	0.33	0.31	0.28	0.27	0.26	0.26	0.29	0.42	0.43	0.52	0.51	0.61	0.3
Min	0.1	0	0	0.2	0.3	0	0.6	2.2	1.7	2	2.6	2.2	2.1	3.2	3	2.6	2.8	2.5	2.3	1.1	0	0	0	0.4	2.3
Max	6.1	8.2	6.7	7.8	7.5	9	11.8	8.6	8.3	8.8	9.3	9.3	9.8	9.4	8.5	8.4	8.1	7.4	6.5	6.6	5.6	6.4	5.5	5.6	6.8
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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

June 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	1019	1019	1018	1018	1018	1018	1019	1019	1019	1019	1018	1018	1018	1017	1017	1016	1015	1015	1015	1016	1016	1016	1016	1016	1016	1017
2	1016	1015	1015	1015	1015	1015	1015	1016	1016	1015	1015	1015	1014	1013	1013	1012	1012	1012	1012	1011	1011	1011	1010	1010	1010	1014
3	1009	1007	1006	1005	1004	1003	1002	1002	1000	999	998	997	996	995	995	995	994	994	993	993	992	993	993	994	998	
4	994	994	994	995	996	997	999	999	1000	1000	1000	1000	1000	999	999	999	999	999	999	999	1000	1000	1001	1001	999	
5	1001	1001	1001	1001	1001	1002	1002	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1004	1005	1005	1005	1005	1003	
6	1004	1005	1005	1005	1005	1007	1008	1008	1009	1010	1011	1011	1011	1011	1011	1011	1011	1012	1013	1013	1014	1015	1015	1016	1010	
7	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1016	1015	1015	1015	1015	1015	1015	1015	1015	1015	1016	1016	1016	
8	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1014	1013	1012	1012	1011	1010	1010	1010	1010	1010	1011	1011	1010	1013	
9	1011	1010	1009	1009	1009	1009	1010	1011	1011	1011	1011	1010	1010	1010	1009	1009	1009	1009	1010	1009	1010	1010	1010	1010	1010	
10	1010	1010	1010	1010	1011	1011	1012	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014	1014	1014	1015	1015	1015	1014	1013	
11	1014	1014	1014	1014	1015	1015	1016	1016	1016	1016	1016	1016	1016	1015	1015	1015	1014	1014	1014	1014	1014	1015	1015	1015	1015	
12	1014	1014	1014	1013	1014	1014	1014	1014	1014	1014	1014	1014	1014	1013	1013	1013	1012	1013	1013	1013	1013	1014	1014	1013	1014	
13	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014	1014	1014	1014	1013	1013	1013	1013	1014	1014	1015	1015	1015	1014	
14	1014	1014	1014	1014	1014	1015	1015	1015	1016	1016	1016	1016	1016	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1015	
15	1016	1015	1015	1015	1015	1016	1016	1016	1017	1017	1017	1017	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	
16	1016	1016	1016	1015	1016	1016	1016	1017	1017	1017	1017	1017	1016	1016	1015	1015	1014	1014	1014	1015	1015	1015	1015	1015	1016	
17	1015	1015	1014	1014	1014	1014	1015	1015	1015	1015	1015	1015	1015	1014	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	
18	1015	1015	1015	1014	1015	1015	1015	1016	1016	1016	1016	1016	1015	1015	1015	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	
19	1015	1015	1015	1014	1014	1015	1015	1015	1015	1015	1015	1015	1014	1014	1013	1013	1012	1012	1012	1012	1012	1013	1013	1012	1014	
20	1012	1011	1011	1011	1011	1011	1011	1011	1012	1012	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013	1014	1014	1014	1014	1012	
21	1014	1014	1014	1014	1015	1015	1015	1016	1016	1016	1016	1016	1015	1015	1015	1014	1013	1013	1013	1014	1013	1013	1013	1012	1014	
22	1012	1012	1012	1011	1011	1011	1012	1012	1012	1012	1012	1011	1011	1011	1010	1010	1010	1010	1010	1010	1011	1011	1011	1011	1011	
23	1011	1011	1011	1011	1011	1012	1013	1013	1013	1014	1013	1013	1013	1013	1012	1012	1012	1012	1012	1013	1013	1013	1014	1014	1012	
24	1014	1014	1014	1014	1015	1015	1016	1017	1017	1017	1018	1018	1018	1017	1017	1017	1017	1017	1018	1018	1019	1019	1020	1020	1017	
25	1020	1020	1020	1020	1021	1021	1021	1022	1022	1022	1023	1022	1022	1022	1021	1021	1021	1021	1021	1021	1021	1022	1022	1023	1021	
26	1023	1023	1023	1023	1023	1024	1023	1023	1024	1024	1024	1024	1023	1023	1022	1022	1021	1021	1022	1021	1022	1022	1022	1022	1023	
27	1022	1021	1021	1021	1020	1021	1021	1021	1021	1021	1021	1021	1020	1020	1019	1018	1018	1018	1018	1017	1018	1018	1019	1018	1020	
28	1018	1018	1017	1017	1017	1017	1017	1017	1017	1017	1017	1016	1016	1015	1014	1013	1013	1013	1013	1013	1014	1015	1015	1014	1015	
29	1014	1014	1014	1014	1014	1014	1014	1014	1014	1015	1015	1015	1014	1014	1013	1012	1013	1013	1014	1014	1015	1014	1014	1014	1014	
30	1014	1014	1013	1013	1013	1013	1013	1013	1013	1013	1014	1013	1013	1012	1012	1012	1011	1011	1012	1012	1012	1013	1013	1013	1013	
Avg	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014	1014	1013	1013	1012	1012	1012	1013	1013	1013	1013	1013	1013	1013	
S D	6	6	6	6	6	5	5	5	5	5	6	6	6	6	6	6	6	5	6	6	6	6	6	6	5	
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Min	994	994	994	995	996	997	999	999	1000	999	998	997	996	995	995	995	994	994	993	993	992	993	993	994	998	
Max	1023	1023	1023	1023	1023	1024	1023	1023	1024	1024	1024	1024	1023	1023	1022	1022	1021	1021	1022	1021	1022	1022	1023	1023	1023	
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640	

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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

June 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	12.6	12.6	12.6	12.6	12.6	13	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.1	12.8	12.8	12.7	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	13.1	13.3	13.3	13.2	13.2	13.1	13.2	13.2	13.2	13.3	13.3	13	12.7	12.7	12.7	12.7	12.7	12.7	12.9
3	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	13	13.1	13.3	13.3	13.3	13.3	13.3	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
4	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.1	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
5	12.7	12.7	12.7	12.6	12.6	12.6	13	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.1	13.2	13.1	12.8	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	13.4	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
7	12.7	12.6	12.6	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	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.9
8	12.7	12.7	12.7	12.6	12.6	12.6	13	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13	13	13	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
9	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.2	13.2	13.2	13.2	13.2	13.2	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	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.3	13.3	13.2	13.2	13.2	13.2	13.3	13.3	13.3	13	12.8	12.7	12.7	12.7	12.7	12.7	12.9
11	12.7	12.6	12.6	12.6	12.6	12.7	13.1	13.4	13.4	13.3	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
12	12.7	12.6	12.6	12.6	12.6	12.6	13	13.3	13.2	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	12.9
13	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.2	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.3	13.3	12.9	12.8	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	12.8	12.8	13.1	13.2	13.5	13.4	13.4	13.4	13.4	13.4	13.4	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
15	12.7	12.6	12.6	12.6	12.5	12.6	12.6	13	13.4	13.4	13.4	13.2	13.4	13.4	13.4	13.3	13.3	13.3	12.8	12.7	12.7	12.7	12.7	12.7	13
16	12.7	12.6	12.6	12.6	12.6	12.6	13.1	13.5	13.4	13.3	13.2	13.2	13.3	13.2	13.2	13.2	13.3	13.1	12.8	12.7	12.7	12.7	12.7	12.7	13
17	12.7	12.7	12.6	12.6	12.6	12.6	13.1	13.3	13.3	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
18	12.7	12.7	12.6	12.6	12.6	12.6	13	13.3	13.2	13.1	13.1	13	13	13	13	13	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
19	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.2	13.1	13.1	13	13	13	13	13.1	13	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
20	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.1	13.2	13.2	13.2	13.2	13	13.3	13.4	13.4	13.1	13.4	13.1	12.7	12.7	12.7	12.7	12.7	12.9
21	12.7	12.7	12.6	12.6	12.6	12.6	13	13.4	13.3	13.2	13.2	13.1	13.2	13.2	13.1	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
22	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	13.1	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.9
23	12.7	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	12.8	12.7	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	13.2	13.2	13.1	13.1	13.1	13.1	13.2	13.2	13.2	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.9
25	12.7	12.7	12.6	12.6	12.6	12.6	13	13.2	13.2	13.2	13.2	13.2	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
26	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
27	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.2	13.2	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	12.9
28	12.7	12.7	12.7	12.6	12.6	12.6	13	13.2	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
29	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13	12.8	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.9
30	12.7	12.6	12.6	12.6	12.6	12.6	13	13.2	13.3	13.2	13.2	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	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.1	13	12.8	12.7	12.7	12.7	12.7	12.7	12.9
SD	0	0	0	0	0	0	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0	0	0	0	0
Min	12.7	12.6	12.6	12.6	12.5	12.6	12.6	12.6	12.7	13	13	13	13	13	13	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
Max	12.7	12.7	12.7	12.6	12.6	12.7	13.1	13.5	13.4	13.4	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.1	12.7	12.7	12.7	12.7	12.7	13
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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.