

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

January 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	0	0	0	7	81	64	100	167	239	116	163	66	16	0	0	0	0	0	0	0	1020
2	0	0	0	0	0	0	0	29	154	316	445	517	525	473	363	199	51	0	0	0	0	0	0	0	3072
3	0	0	0	0	0	0	0	39	143	353	445	508	519	465	357	196	44	0	0	0	0	0	0	0	3069
4	0	0	0	0	0	0	0	11	102	274	400	473	475	427	293	146	28	0	0	0	0	0	0	0	2629
5	0	0	0	0	0	0	0	8	54	112	73	81	146	149	149	61	8	0	0	0	0	0	0	0	840
6	0	0	0	0	0	0	0	30	148	277	425	474	492	463	361	201	53	0	0	0	0	0	0	0	2924
7	0	0	0	0	0	0	0	37	138	253	268	224	331	185	176	87	20	0	0	0	0	0	0	0	1717
8	0	0	0	0	0	0	0	5	157	64	72	111	101	73	50	184	48	4	0	0	0	0	0	0	869
9	0	0	0	0	0	0	0	31	161	325	455	529	540	493	326	186	31	1	0	0	0	0	0	0	3075
10	0	0	0	0	0	0	0	30	161	328	459	535	548	501	392	229	67	3	0	0	0	0	0	0	3253
11	0	0	0	0	0	0	0	30	156	319	449	523	535	496	379	210	69	1	0	0	0	0	0	0	3168
12	0	0	0	0	0	0	0	21	96	154	253	335	298	360	164	224	64	2	0	0	0	0	0	0	1972
13	0	0	0	0	0	0	0	24	131	186	323	464	402	356	314	152	54	4	0	0	0	0	0	0	2409
14	0	0	0	0	0	0	0	34	154	293	420	469	482	437	354	219	63	4	0	0	0	0	0	0	2929
15	0	0	0	0	0	0	0	36	160	321	437	497	376	419	247	124	37	1	0	0	0	0	0	0	2653
16	0	0	0	0	0	0	0	3	4 ?	?	47 ?	83	78 ?	46	42	62	19	3	0	0	0	0	0	0	387 ?
17	0	0	0	0	0	0	0	34	158	334	351	560	568	472	391	166	49	9	0	0	0	0	0	0	3093
18	0	0	0	0	0	0	0	10	28	53	111	125	176	111	79	47	19	2	0	0	0	0	0	0	762
19	0	0	0	0	0	0	0	18	125	265	376	536	511	437	413	264	57	3	0	0	0	0	0	0	3003
20	0	0	0	0	0	0	0	37	139	333	492	574	580	538	434	270	96	6	0	0	0	0	0	0	3498
21	0	0	0	0	0	0	0	20	56	80	108	147	105	129	78	36	16	2	0	0	0	0	0	0	778
22	0	0	0	0	0	0	0	7	39	83	106	95	77	67	61	35	12	2	0	0	0	0	0	0	583
23	0	0	0	0	0	0	0	25	98	197 ?	370	270	193	260	206	141	36	4	0	0	0	0	0	0	1799
24	0	0	0	0	0	0	0	18	89	148 ?	?	?	573 ?	527	382	136	47	6	0	0	0	0	0	0	1927 ?
25	0	0	0	0	0	0	0	15	111	153	249	440 ?	?	?	594	140	116	53	17	0	0	0	0	0	1888 ?
26	0	0	0	0	0	0	0	39	116 ?	?	?	?	?	?	?	?	79 ?	15	0	0	0	0	0	0	249 ?
27	0	0	0	0	0	0	0	40	116 ?	?	?	?	?	?	?	?	45 ?	6	0	0	0	0	0	0	207 ?
28	0	0	0	0	0	0	0	4	37	66	154	225	225	326 ?	?	?	68 ?	8 ?	10	0	0	0	0	0	1123 ?
29	0	0	0	0	0	0	0	19	63	114	162	198	220	226	234 ?	?	?	91 ?	21	0	0	0	0	0	1348 ?
30	0	0	0	0	0	0	0	28	121	168	?	?	?	?	?	?	222 ?	120	17	0	0	0	0	0	677 ?
31	0	0	0	0	0	0	0	43	201	383	527	617	637	589	481	315	127	14	0	0	0	0	0	0	3933
Avg	0	0	0	0	0	0	0	24	113	215	299	362	369	348	260	156	49	5	0	0	0	0	0	0	1963 ?
S D	0	0	0	0	0	0	0	12	48	108	157	184	185	175	134	77	31	6	0	0	0	0	0	0	1123
S/A	0	0	0	0	0	0	0	0.52	0.43	0.5	0.52	0.51	0.5	0.5	0.51	0.5	0.62	1.15	0	0	0	0	0	0	0.57
Min	0	0	0	0	0	0	0	3	4	53	47	81	77	46	42	35	8	0	0	0	0	0	0	0	207
Max	0	0	0	0	0	0	0	43	201	383	527	617	637	594	481	315	127	21	0	0	0	0	0	0	3933
n	0	0	0	0	0	0	0	292	342	316	318	320	317	328	314	319	349	67	0	0	0	0	0	0	3283

Daylight Data Recovery: 0.0% missing; 0.0% untested; 11.4% exceed the 15% QC threshold -- 3705 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

January 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	0	5	5	0	0	1	14	7	38	0	0	0	0	0	0	0	0	0	70
2	0	0	0	0	0	0	0	277	662	814	885	913	918	897	850	730	438	0	0	0	0	0	0	0	7385
3	0	0	0	0	0	0	0	240	693	850	903	893	894	854	794	659	311	0	0	0	0	0	0	0	7091
4	0	0	0	0	0	0	0	0	175	512	605	542	714	581	339	181	1	0	0	0	0	0	0	0	3650
5	0	0	0	0	0	0	0	0	0	1	0	0	1	3	1	0	0	0	0	0	0	0	0	0	6
6	0	0	0	0	0	0	0	194	562	497	784	758	730	785	742	622	324	0	0	0	0	0	0	0	5999
7	0	0	0	0	0	0	0	185	493	329	39	2	111	1	4	0	0	0	0	0	0	0	0	0	1164
8	0	0	0	0	0	0	0	0	325	1	0	0	0	0	0	282	90	6	0	0	0	0	0	0	705
9	0	0	0	0	0	0	0	291	700	850	898	921	917	780	315	184	0	0	0	0	0	0	0	0	5856
10	0	0	0	0	0	0	0	262	659	819	880	904	905	889	836	727	433	56	0	0	0	0	0	0	7370
11	0	0	0	0	0	0	0	232	615	779	846	870	869	828	714	524	292	0	0	0	0	0	0	0	6571
12	0	0	0	0	0	0	0	39	42	11	111	166	59	296	1	438	293	16	0	0	0	0	0	0	1474
13	0	0	0	0	0	0	0	42	188	69	185	423	318	241	320	165	108	0	0	0	0	0	0	0	2059
14	0	0	0	0	0	0	0	137	453	640	695	592	564	517	380	473	243	5	0	0	0	0	0	0	4700
15	0	0	0	0	0	0	0	70	449	627	634	718	339	446	82	105	23	0	0	0	0	0	0	0	3493
16	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	0	0	0	0	0	0	0	205	562	566	398	875	878	642	669	289	89	0	0	0	0	0	0	0	5174
18	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
19	0	0	0	0	0	0	0	0	159	126	300	644	545	491	765	628	207	9	0	0	0	0	0	0	3874
20	0	0	0	0	0	0	0	259	391	689	878	905	903	905	866	775	532	119	0	0	0	0	0	0	7223
21	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	2
22	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	0	3
23	0	0	0	0	0	0	0	46	53	137 ?	276	76	7	74	56	65	3	0	0	0	0	0	0	0	792
24	0	0	0	0	0	0	0	0	1	177 ?	?	645 ?	682	701	512	122	61	1	0	0	0	0	0	0	2901 ?
25	0	0	0	0	0	0	0	0	0	1	8	169 ?	599 ?	561	7	1	25	40	0	0	0	0	0	0	1411
26	0	0	0	0	0	0	0	137	231 ?	?	?	?	?	?	?	?	302	82	0	0	0	0	0	0	752 ?
27	0	0	0	0	0	0	0	82	149 ?	?	?	?	?	?	?	?	94 ?	0	0	0	0	0	0	0	326 ?
28	0	0	0	0	0	0	0	0	0	0	0	1	2	31 ?	?	4 ?	0	0	0	0	0	0	0	0	38 ?
29	0	0	0	0	0	0	0	48	81	97	111	132	169	190	196 ?	?	89 ?	19	0	0	0	0	0	0	1131 ?
30	0	0	0	0	0	0	0	0	4	4	?	?	?	?	?	656 ?	501	150	0	0	0	0	0	0	1315 ?
31	0	0	0	0	0	0	0	266	649	813	887	927	936	922	883	782	538	111	0	0	0	0	0	0	7713
Avg	0	0	0	0	0	0	0	97	268	325	382	431	431	416	347	300	161	20	0	0	0	0	0	0	2911
S D	0	0	0	0	0	0	0	109	267	343	380	390	388	361	351	296	184	40	0	0	0	0	0	0	2792
S/A	0	0	0	0	0	0	0	1.12	1	1.06	0.99	0.9	0.9	0.87	1.01	0.99	1.14	2.05	0	0	0	0	0	0	0.96
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	291	700	850	903	927	936	922	883	782	538	150	0	0	0	0	0	0	7713
n	0	0	0	0	0	0	0	292	352	334	324	324	329	328	317	321	357	67	0	0	0	0	0	0	3345

Daylight Data Recovery: 0.0% missing; 0.0% untested; 9.7% exceed the 15% QC threshold -- 3705 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

January 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	0	0	0	8	81	65	100	166	235	113	145	66	16	0	0	0	0	0	0	0	995
2	0	0	0	0	0	0	0	13	30	40	45	47	45	42	36	27	9	0	0	0	0	0	0	0	335
3	0	0	0	0	0	0	0	15	32	38	39	49	51	52	47	37	13	0	0	0	0	0	0	0	372
4	0	0	0	0	0	0	0	11	58	91	115	182	90	128	143	89	28	0	0	0	0	0	0	0	934
5	0	0	0	0	0	0	0	9	54	112	73	81	146	148	149	61	8	0	0	0	0	0	0	0	840
6	0	0	0	0	0	0	0	20	41	104	65	75	97	73	64	46	19	0	0	0	0	0	0	0	605
7	0	0	0	0	0	0	0	18	39	150	247	222	268	185	176	87	20	0	0	0	0	0	0	0	1412
8	0	0	0	0	0	0	0	6	87	56	72	111	101	73	48	110	41	3	0	0	0	0	0	0	709
9	0	0	0	0	0	0	0	13	30	39	48	51	52	98	182	129	31	1	0	0	0	0	0	0	674
10	0	0	0	0	0	0	0	15	35	48	58	63	63	59	52	40	19	3	0	0	0	0	0	0	454
11	0	0	0	0	0	0	0	17	37	50	60	65	66	78	81	66	30	1	0	0	0	0	0	0	551
12	0	0	0	0	0	0	0	22	86	152	194	244	261	192	164	115	28	3	0	0	0	0	0	0	1462
13	0	0	0	0	0	0	0	25	85	160	228	222	208	218	168	102	36	3	0	0	0	0	0	0	1456
14	0	0	0	0	0	0	0	21	50	66	89	136	153	155	189	90	27	3	0	0	0	0	0	0	979
15	0	0	0	0	0	0	0	32	65	95	129	100	183	178	207	101	32	1	0	0	0	0	0	0	1124
16	0	0	0	0	0	0	0	3	4 ?	19 ?	41 ?	83	61	46	43	63	21	6	0	0	0	0	0	0	389 ?
17	0	0	0	0	0	0	0	18	43	128	143	80	75	123	94	76	30	9	0	0	0	0	0	0	818
18	0	0	0	0	0	0	0	11	28	48	111	125	176	111	79	47	19	2	0	0	0	0	0	0	756
19	0	0	0	0	0	0	0	18	79	212	202	162	182	162	74	81	24	2	0	0	0	0	0	0	1197
20	0	0	0	0	0	0	0	18	53	65	60	66	63	56	50	40	23	4	0	0	0	0	0	0	499
21	0	0	0	0	0	0	0	23	56	80	108	147	105	129	78	36	16	2	0	0	0	0	0	0	781
22	0	0	0	0	0	0	0	7	39	83	106	95	77	67	61	34	12	3	0	0	0	0	0	0	584
23	0	0	0	0	0	0	0	17	87	153 ?	197	214	188	210	176	112	35	4	0	0	0	0	0	0	1392
24	0	0	0	0	0	0	0	18	87	96 ?	?	77 ?	80	76	95	81	30	5	0	0	0	0	0	0	645 ?
25	0	0	0	0	0	0	0	15	111	153	243	308 ?	97 ?	209	136	116	50	14	0	0	0	0	0	0	1453
26	0	0	0	0	0	0	0	15	29 ?	?	?	?	?	?	?	?	28	8	0	0	0	0	0	0	80 ?
27	0	0	0	0	0	0	0	17	31 ?	?	?	?	?	?	?	?	18 ?	6	0	0	0	0	0	0	72 ?
28	0	0	0	0	0	0	0	4	35	66	154	225	225	289 ?	?	57 ?	8 ?	10	0	0	0	0	0	0	1072 ?
29	0	0	0	0	0	0	0	9	32	49	57	63	65	66	64 ?	?	50 ?	13	0	0	0	0	0	0	469 ?
30	0	0	0	0	0	0	0	26	109	139	?	?	?	?	?	50 ?	34	10	0	0	0	0	0	0	367 ?
31	0	0	0	0	0	0	0	19	44	59	68	68	66	61	53	46	32	7	0	0	0	0	0	0	524
Avg	0	0	0	0	0	0	0	16	54	90	113	126	124	121	106	72	25	4	0	0	0	0	0	0	774 ?
S D	0	0	0	0	0	0	0	7	27	48	66	72	70	65	55	30	11	4	0	0	0	0	0	0	401
S/A	0	0	0	0	0	0	0	0.43	0.49	0.53	0.58	0.57	0.56	0.53	0.52	0.42	0.43	1	0	0	0	0	0	0	0.52
Min	0	0	0	0	0	0	0	3	4	19	39	47	45	42	36	27	8	0	0	0	0	0	0	0	72
Max	0	0	0	0	0	0	0	32	111	212	247	308	268	289	207	129	50	14	0	0	0	0	0	0	1462
n	0	0	0	0	0	0	0	272	343	330	320	324	329	328	317	321	353	67	0	0	0	0	0	0	3304

Daylight Data Recovery: 0.0% missing; 0.0% untested; 10.8% exceed the 15% QC threshold -- 3705 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

January 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	16.1	17	17.4	17.6	17.5	17.7	18.5	18.8	18.9	19.1	18	18.4	19.3	19.6	19.9	19.9	19.7	19.3	18.3	17.5	16.9	15.2	14	13.2	17.8
2	12.4	12.2	11.3	10.1	9.1	7.9	7.4	7.2	8.1	9	10.1	10.9	11.7	12.2	12.8	13.4	12.5	10.9	9.6	8.2	7.3	6.3	5.4	4.9	9.6
3	4.2	3.7	3.6	2.9	2.9	2.6	2.6	3.2	5	8.1	11	13	14.2	15.1	15.9	16.4	16.3	13.9	12.5	11.7	11.7	11.3	10.9	10.9	9.3
4	11	10.9	10.9	10.8	10.9	11.3	11.9	12.7	14.2	16.4	18.4	19.6	20.4	21.1	21	20.5	19.2	17.9	17	16.4	15.8	15.3	15	14.8	15.6
5	14.8	15.2	15	14.2	14.7	16.4	17	17.1	17.5	18	18.3	18.7	19.3	20.3	20.9	21.2	20.9	19.9	19.2	18.9	19.4	19.5	19.2	19.6	18.1
6	20	20.1	20	20.3	20.4	19.5	18.4	17.4	17	17.5	18.3	19.2	19.7	20.2	20.6	20.3	19.8	18.5	17.8	17.4	17	16.4	15.6	14.9	18.6
7	14.4	14	13.6	12.8	11.9	11.4	11.2	11.7	13.1	15.2	15.5	15.1	15.7	15.6	15.3	15	14.4	14	13.8	14.7	16.1	17.2	18.3	19.4	14.5
8	19.7	19.7	19.7	19.6	19.1	19.2	19.8	20.5	21	17.8	17.1	17.4	16.9	15.9	14.1	14.1	13.5	12.5	11.1	10.5	9.5	8.7	7.4	6.8	15.5
9	5.8	4.5	3.4	2.6	2.3	2	1.8	1.5	3.3	6.3	8.3	9.3	10.1	10.8	11.2	11.5	10.9	10.2	9.7	7	4.5	4	3.8	3.3	6.2
10	2.9	2.5	2.3	1.8	1.3	1.2	0.8	0.5	1.2	2.5	3.7	4.4	5.1	5.5	5.8	6.1	5.8	4.6	3.4	2.5	1.9	0.7	0.3	0.6	2.8
11	0.1	0.6	0.8	1	1.1	1.2	1.2	1.5	3.2	5.1	6.3	7	7.6	8.3	8.7	8.7	7.9	6.5	5.8	5.7	5.5	5.6	5.8	5.5	4.6
12	5.5	5.9	6.1	6.5	6.9	7.3	7.6	8	8.8	10.9	13.1	15.4	16.8	18.5	18.3	19	18.9	17.4	16.9	15.6	14.8	14.2	14.2	14.1	12.5
13	13.3	12.8	12.6	12.3	12.2	12	12.1	12.7	13.1	15	16.8	18.4	18.6	19.4	20.1	20.1	19.7	18.2	17.1	16.6	15.9	15.2	14.8	14.5	15.5
14	14.3	14	13.9	13.6	13.4	12.6	12.2	12.3	13.4	15.7	17.8	19.2	20.4	21.2	21.6	21.7	21	19.5	18.6	17.6	16.8	16.1	15.6	15.5	16.6
15	15.6	15.5	15.4	14.9	14.7	14.7	14.5	15	16.4	17.8	19.4	20.7	20.9	21.4	21.6	21.3	20.9	19.9	19.2	18.7	17.6	17	16.8	16.8	17.8
16	17	17.1	17.3	16.9	16.2	16.6	17	17	15.9	15.5	15.7	16.1	13.2	11.7	10.5	9.7	9.4	8.9	8.6	8.3	7.7	7.3	6.3	5.5	12.7
17	5	4.4	3.6	2.7	1.6	0.9	0.2	-0.3	0.1	0.5	0.9	1.6	1.9	1.7	1.6	0.8	0.2	-0.3	-0.4	-0.9	-1	-1	-0.7	-0.6	0.9
18	-0.4	-0.1	0.2	0.1	0.4	1.5	2.2	3	4.4	2.9	3.9	5	5.8	5.9	6	5.9	6	5.8	5.5	5.2	5.4	5.3	5.3	5.3	3.8
19	5.3	5.1	4.8	4.3	3.8	3.5	3.8	4.3	4.8	6.1	7.7	9.2	10.7	11.3	11.6	11.7	10.8	9.2	8.2	7.8	6.6	5.7	4.9	3.8	6.9
20	2.9	2.2	1.6	1.1	0.8	0.5	0.1	0	1.1	2.9	4.6	5.4	5.8	6	6	6.2	5.6	4.4	3.4	2.4	1.6	0.6	-0.1	-0.1	2.7
21	-0.5	-1	-1.5	-1.7	-1.8	-1.3	-0.3	0	0.4	0.7	1.1	2	2.5	2.6	2.5	2	1.5	1.2	1.2	1.7	2.2	2.6	3.5	4	1
22	4.4	4.6	4.3	3.8	4.3	4.7	4.1	4	4.1	4.6	5.2	5.7	5.6	5.5	5.8	5.9	5.7	5.8	5.5	5.1	4.9	4.9	4.8	4.7	4.9
23	4.5	4.3	4.2	4.1	3.9	3.8	3	2.4	2.9	4.3	6.1	6.3	6.4	6.3	6.4	6.4	5.6	4.6	3.7	3.2	2.7	2.8	2.3	1.6	4.2
24	1.7	1.8	1.8	1.9	1.3	1.1	1.1	1	1.1	2.4	4.4	5.9	7.2	8.3	8.3	8	7.4	6.1	5.1	4	3.4	2.7	2.2	1.9	3.7
25	1.4	1.6	2.5	2.5	2.8	2.5	2.3	2.2	2.4	2.8	3.7	5.2	6.5	7.2	6.6	6	4.8	3.5	2.4	1.1	0.4	-0.1	-0.1	-0.1	2.9
26	-0.9	-1.6	-2.3	-2.9	-3.5	-3.9	-4.5	-4.7	-3.9	-3	-2.4	-1.4	0	1.6	3.3	4.3	4.4	3.7	2.6	2.1	2.1	2.3	2.6	2.9	-0.1
27	3.1	3.1	3.1	3.4	4	4.2	4.6	4.3	5.1	6.8	9.1	10.9	12.6	13.6	14.9	15.4	15.2	13.7	12.6	11.8	12	12	11.2	9.9	9
28	9.5	10.7	11.4	11.8	11.5	9.4	8.3	7.7	7.7	7.7	8.1	8.6	9.1	10.7	12	12.2	10.4	6.2	5	4.4	2.8	0.8	0	-0.1	7.7
29	-0.2	-0.6	-1.3	-2	-3.7	-4.7	-5.6	-5.9	-5.5	-4.6	-3.4	-2.5	-1.5	-0.5	0	0.9	1.1	0.3	-0.6	-1.1	-1.5	-1.6	-2.2	-2.6	-2
30	-2.6	-2	-1.6	-1.2	-0.9	-0.7	-0.9	-1	-0.5	0.1	1.9	3.2	4.7	5.9	6.7	7	7.1	6.1	5.4	4.9	3.9	3.8	3.5	3.9	2.4
31	4.2	3.4	2.7	1.9	0.6	-0.7	-1.5	-1.8	-1.5	-0.9	-0.3	0.5	1.5	2	2.7	3.1	2.8	1.9	0.4	-0.2	-0.3	-0.4	-0.9	-1.2	0.8
Avg	7.2	7.1	7	6.7	6.4	6.3	6.2	6.2	6.9	7.8	9	9.9	10.6	11.1	11.4	11.4	11	9.8	9	8.3	7.9	7.4	7.1	6.9	8.3
S D	6.7	6.8	6.9	6.9	7	7.1	7.2	7.4	7.3	7.1	7	7	6.8	6.8	6.8	6.8	6.7	6.6	6.5	6.5	6.6	6.6	6.6	6.6	6.4
S/A	0.93	0.96	0.99	1.04	1.09	1.13	1.17	1.19	1.06	0.91	0.78	0.7	0.64	0.61	0.6	0.59	0.61	0.67	0.73	0.78	0.84	0.89	0.93	0.96	0.78
Min	-2.6	-2	-2.3	-2.9	-3.7	-4.7	-5.6	-5.9	-5.5	-4.6	-3.4	-2.5	-1.5	-0.5	0	0.8	0.2	-0.3	-0.6	-1.1	-1.5	-1.6	-2.2	-2.6	-2
Max	20	20.1	20	20.3	20.4	19.5	19.8	20.5	21	19.1	19.4	20.7	20.9	21.4	21.6	21.7	21	19.9	19.2	18.9	19.4	19.5	19.2	19.6	18.6
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

January 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	99.5	98.3	98	98.3	98.8	97.9	93.3	91.2	91.1	93.7	103.6	104.7 ?	103.2	102.5	102.1	102.3	102.9	103.6	103.6 ?	103.7	93.2	94.3	98.2	97.5	99	
2	98.8	89.9	71.3	75.6	76.8	81.7	83	82.8	78.8	70.8	63.2	57.9	55.1	52.4	47.3	48.7	49.9	57.9	65	74.5	83.8	90.4	94.6	96.3	72.8	
3	98.9	101.8	101.9	104	104.9 ?	?	?	?	104.2 ?	97.6	80.7	67.3	64	65.9	67.9	68.6	71.5	82.7	87.2	92.9	98.9	101.5	103	104.6	89 ?	
4	104.5	104.5	104.2	103.7	103.1	101.2	98.6	95.4	89.3	81	73.8	70.2	66.7	63.6	67.1	70.1	77.2	82.2	85.9	89.9	93.9	96.2	97	97.9	88.2	
5	98.6	98.4	100.3	104.4 ?	?	?	?	?	?	?	?	?	?	?	103.6	102.4	102.5	?	?	?	104.6 ?	103.4	104.5 ?	?	102.3 ?	
6	?	105 ?	104.8 ?	104.6	103.8	104.8 ?	101.9 ?	99.9	100.3	98.4	95.2	90.1	89.2	83.8	82.7	84.4	84.7	88.4	89.4	89.4	89.7	91.9	95.1	97.4	94.6 ?	
7	98.5	99.5	100.6	102.5	104.6 ?	?	?	102.3	92.4	78.5	74.9	73.5	70.3	72.4	75.7	82.9	91.9	98.5	103.2	104	104.9 ?	?	?	?	91.1 ?	
8	?	104	104.1	103.5	104.4 ?	104.9 ?	104.7 ?	103	100.5	97.5	85	87.6	93.8	88.1	81.8	68.5	69.2	62.4	70.4	66.4	59.1	57	60.1	57.1	84 ?	
9	61	67.7	73.6	75.7	75.3	73.7	73	78.8	74.3	58.4	49.5	42	42	42.6	43.6	47.1	53.4	57.9	61.4	84.6	102.8	104.5	102.3	99.8	68.5	
10	95.5	89.7	84.6	84	85.7	85.2	82	78	69.4	62.4	51.6	45.3	42.8	42.3	41.2	40.1	41.6	47.6	55.4	60.9	64.5	70.3	74.3	77.4	65.5	
11	78.2	74.4	80.4	80	79.3	80.8	82.5	83	79.8	72.5	67.3	60.9	58.8	60.3	61.4	62.4	69.3	77.1	83.5	88.4	91.8	94.9	96.3	98.4	77.6	
12	100	99.5	99.6	98.8	98.6	99.5	101	102.3	101.6	98.8	94.7	85.8	79.8	74	73.6	70.9	72.2	77.3	77.9	85.1	92.6	94.9	93	93.2	90.2	
13	97.6	100.4	102.4	104	104.9 ?	?	104.8 ?	103.4	102.7	97.8	91.6	83.8	83.5	81.2	76.4	75	74.6	81.1	87.7	89.8	93	95.9	97.5	99.8	92.6	
14	100.5	101.6	101.1	102	102	104.4 ?	?	?	104.2 ?	99.8	93.3	86.8	80.4	75.6	72	70.3	73	78.9	82	87.4	91.5	93.2	97.5	101.9	90.9 ?	
15	102.7	104.5	?	?	?	?	?	104.5 ?	100.6	96.1	87.4	80.6	77.8	74.3	72.9	74.8	76.7	80.3	83.1	86	91.6	96.1	97.5	96.4	88.6 ?	
16	93.6	92.6	91.5	93.5	96.7	96.1	95.2	96.2	101.5 ?	?	?	?	104.1 ?	103.3 ?	95	85.5	82.2	82.4	81.3	77.8	74.4	66.5	66.7	60.6	87.5 ?	
17	56	52.9	59.3	62.5	64.7	67	67.9	67.2	65.9	65.6	65.2	58.5	56.7	58.6	57.1	62.1	63.5	66.4	68.3	71.6	75.6	76.8	76.7	80.5	65.3	
18	84.8	88.5	90.6	94.9	97.2	98.8	99.2	100.2	102.2	104.7 ?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	96.1 ?
19	?	?	?	?	?	?	?	?	104.4 ?	100.5	93.9	84.6	70.7	61.3	58	55.4	58.4	63.4	65.3	66.6	67.4	62.6	64.3	69.1	71.6 ?	
20	71.5	70.4	70.8	73.1	73.8	73.1	73.7	74.7	71.6	62.7	52.6	44.6	42.3	40.7	39.4	35.3	33	36.7	40.8	47.5	49.2	57	62.7	61.3	56.6	
21	64	69.9	75	76.4	79	79.3	75.9	76.2	76.5	77	78.5	77.3	75.2	76	81.7	92.9	98.4	102.8	104.7 ?	?	?	?	?	?	80.9 ?	
22	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
23	?	?	?	?	104	104.5	104.6 ?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?
24	104.1	104.9 ?	?	?	?	?	?	102.9	100.5	95.6	82.7	76.5	67.4	63.8	60.3	62.6	64.5	67.6	78.2	91.3	94	97	98.7	99.1	84.8 ?	
25	100.9	101.4	91.4	87.8	90.8	93.4	93	92	90.5	88	83.9	74.2	66	59.9	59.3	64.2	75.4	82.3	89.7	97.7	100.7	99.7	73.2	59.7	84	
26	51.4	50	52.8	52.9	56	57.1	61.1	66.3	60.7	54.2	53.5	51.3	48.8	45.6	42.7	38.1	38	41.2	49.7	54.1	55	60.1	68.1	67.6	53.2	
27	66.5	66.1	66.2	65.6	64.6	65.1	64.7	68.6	67.1	62.2	56.2	52.2	48.3	45.1	42.6	39.7	41.7	44.9	47.5	52.4	50.2	46.9	51.6	62.9	55.8	
28	66.2	57.1	53.1	51.7	58.4	87.4	98	103.2	?	?	?	104.8 ?	102.9	96.5	84.2	80	91	101	99.7	99	103.2 ?	?	?	?	85.4 ?	
29	?	?	?	?	103.8 ?	99.7	96.6	91	88.8	83.1	76	67.5	61	57.2	54.1	50.9	50	57.4	59.4	61.5	62.8	61.5	67.9	73.7	71.2 ?	
30	73.8	70.9	74.2	73.4	70.9	68.5	72	72.9	71.1	68.2	61.2	59.9	58.5	52.2	45.1	45	50.8	57.7	60.8	64.4	70.2	73.5	81.4	74.5	65.5	
31	67.9	70.6	58.7	56.4	52.4	54.8	53.8	52.5	50.4	47.1	43.6	40.8	40.1	38.8	36.8	37.4	38.2	41.2	51.4	58.3	62.6	65.3	69.8	72.4	52.5	
Avg	85.4	86.5	84.4	85.2	86.7	86	86.1	87.5	86.7	82	75.1	71	69	66.4	65.7	65.4	68.2	71.7	75.9	79.3	82.8	82.6	84.3	84.1	79.9 ?	
SD	17.6	18	17.6	17.9	17.7	16.2	15.7	14.9	16	17.3	17.1	18.2	19.1	18.5	19	19.2	19.9	19.4	18.2	16.6	17.8	17.9	16.4	16.7	14.3	
S/A	0.21	0.21	0.21	0.21	0.2	0.19	0.18	0.17	0.18	0.21	0.23	0.26	0.28	0.28	0.29	0.29	0.29	0.27	0.24	0.21	0.22	0.22	0.19	0.2	0.18	
Min	51.4	50	52.8	51.7	52.4	54.8	53.8	52.5	50.4	47.1	43.6	40.8	40.1	38.8	36.8	35.3	33	36.7	40.8	47.5	49.2	46.9	51.6	57.1	52.5	
Max	104.5	105	104.8	104.6	104.9	104.9	104.8	104.5	104.4	104.7	103.6	104.8	104.1	103.3	103.6	102.4	102.9	103.6	104.7	104	104.9	104.5	104.5	104.6	102.3	
n	300	305	292	294	278	255	243	287	293	311	312	313	330	329	347	348	348	336	325	322	314	312	303	300	7398	

Data Recovery: 0.0% missing; 0.0% untested; 17.1% 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

January 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	15.4	16	16.8	17.3	17.4	17.3	17.7	18.4	18.8	19.4	18.8	18.5	18.8	19.8	20.5	21	20.7	20.1	19.5	18.3	17.3	16.4	15.1	14	18.1
2	12.9	12.3	11.9	10.6	9.2	7.9	6.6	6	7	9.7	12	13.7	15	15.9	16.1	16.2	15.6	12.8	9.7	7.3	5.4	4.1	3.1	2.4	10.1
3	1.8	1.4	1	0.7	0.4	0.3	0.1	0.2	2.5	6.5	10.8	14.5	17	18.2	18.8	18.9	18.6	16.3	13.4	11.5	10.5	10.3	10	9.7	8.9
4	9.6	9.7	9.6	9.5	9.4	9.6	9.9	10.8	12.2	14.7	18.2	21.1	23.1	23.8	24.1	23.6	22	19.7	17.8	16.6	15.7	14.9	14.5	14.6	15.6
5	14.8	15.1	15.4	15.1	14.8	15.3	16.3	17	17.5	18.1	18.7	19.1	19.6	20.4	21.3	21.9	21.9	21.1	20.2	19.5	19.1	19.1	19	19.2	18.3
6	19.6	20	20.1	20	20.1	20.1	19.3	17.9	17.6	18.8	20	21.5	22.4	22.9	23.1	23.1	22.5	20.6	18.6	17.6	16.8	16.3	15.5	14.7	19.5
7	13.9	13.3	12.7	12	10.9	10.3	9.8	10	10.8	13.7	16	16.9	17.2	17.7	17.4	16.9	16.2	15.3	14.5	14.3	14.7	15.7	16.9	18	14.4
8	18.8	19.2	19.1	19.4	19.5	19.2	19.3	19.9	20.6	20.9	18.2	17.9	18	17.5	16.4	15.4	15.3	13.9	11.7	10.1	9.1	7.9	7	5.8	15.8
9	5	3.9	2.5	1.1	0.3	-0.3	-0.5	-0.8	0.8	4.8	8.7	11.3	12.7	13.4	13.7	13.6	12.8	11.4	10.6	9.7	7.1	4.9	3.7	2.8	6.4
10	2	1.3	0.9	0.7	0.3	-0.1	-0.4	-0.7	0.4	2.8	5.3	7.1	8.3	8.8	8.9	8.8	8.3	6.2	3.2	1	-0.3	-1.4	-2.3	-2.7	2.8
11	-2.8	-3.1	-2.6	-2.2	-1.5	-1.1	-0.9	-0.7	1	4.6	7.8	10.2	11.6	12.4	12.7	12.6	11.6	8.9	6.3	5.1	4.6	4	3.8	3.6	4.4
12	3.5	3.8	4.2	4.6	5.3	5.9	6.2	6.6	7.5	9.5	12.1	15.1	17.4	19.3	20	20.1	20.8	19.4	17.8	16.7	15.6	14.7	13.9	13.7	12.2
13	13.2	12.4	12	11.7	11.5	11.3	11.2	11.6	12.3	14.2	16.3	19.1	20.6	21.4	21.8	22	21.5	19.7	17.6	16.4	15.6	14.8	14.3	13.9	15.7
14	13.7	13.5	13.2	13	12.8	12.4	12	11.9	12.7	15.2	18.4	20.7	22.3	23.4	23.8	24	23.6	21.6	19.5	18.1	16.7	15.9	15.4	14.9	17
15	14.7	14.8	14.9	14.8	14.5	14.3	14.1	14.1	15.1	17.6	20.3	22.4	23.3	23.7	23.7	23	22.4	21	19.6	18.9	18.1	17.2	16.6	16.3	18.2
16	16.3	16.5	16.9	17.1	16.9	16.6	16.8	17.1	16.9	16.2	16	16.1	15.8	13.7	12.1	10.8	10.5	10	9.3	8.9	8.4	7.9	7.4	6.5	13.4
17	5.8	5.2	4.2	3.4	2.3	1.1	0.1	-0.6	-0.1	1.8	3	4.2	5.5	6	5.7	4.8	3.1	0.9	-0.5	-1.6	-2.4	-2.8	-2.2	-1.4	1.9
18	-1.1	-0.9	-0.7	-0.9	-0.8	0	0.9	1.9	3	3.8	3.8	4.8	5.9	6.8	7	6.9	6.8	6.6	6.3	6.1	5.9	5.8	5.8	5.8	3.7
19	5.8	5.8	5.7	5.3	4.9	4.4	4.1	4.2	4.5	5.7	7.5	10.2	12.4	13.6	14	14.1	13.5	11.2	8.6	7.3	6.2	5.2	4.3	3.4	7.6
20	2.4	1.6	0.9	0.3	0.1	-0.4	-0.9	-1.2	-0.1	2.2	5.4	7.7	9.1	9.6	9.5	9.2	8.7	6.6	3.4	1	-0.7	-1.7	-2.4	-2.8	2.8
21	-3.1	-3.3	-3.6	-3.9	-3.9	-3.4	-2.6	-1.3	-0.3	0.7	1.5	2.5	3.5	4	4.3	3.5	2.5	1.7	1.4	1.5	1.8	2.2	2.7	3.5	0.5
22	4.1	4.6	4.9	4.8	4.6	4.8	4.9	4.7	4.6	4.9	5.6	6.2	6.6	6.6	6.7	7	7	6.7	6.5	6.2	5.9	5.7	5.6	5.5	5.6
23	5.2	5	4.9	4.7	4.5	4.3	3.7	2.5	2.3	3.7	7.2	9.2	9.4	9.1	9	9.1	8.1	6	3.4	1.5	0.7	0.5	0.2	-0.2	4.7
24	-0.5	-0.4	-0.2	0.2	0.4	0.3	0.2	0.2	0.2	1	4.7	8.1	10.7	12.2	12.9	12	10	7.6	5.5	3.8	2.3	1.5	0.4	-0.3	3.9
25	-0.5	-0.5	-0.2	0.5	1.3	1.9	2	1.8	2	2.7	3.9	5.8	8.9	11	11	9	7.7	5.8	3.8	2.1	0.3	-0.8	-1.5	-1.6	3.2
26	-1.7	-2.2	-2.9	-3.6	-4.5	-5.1	-5.7	-6.3	-4.9	-2	0.6	2.4	3.4	4.3	5.2	6.1	6.6	5.5	2.8	0.8	0.3	0.1	0	0.2	0
27	0.6	1.1	1.3	1.5	2.1	2.7	3.1	3.4	4.7	7.2	9.8	12.5	14.4	15.7	16.5	17.3	17.4	15.5	13.3	11.8	11.1	11.1	11.2	10.4	9
28	9.7	9.6	10.4	11	11.5	10.7	9.2	8.3	7.9	8	8.3	9.1	9.6	10.7	13.3	14.6	13.4	10.2	7.1	5.6	4.7	3.1	1.6	0.9	8.7
29	0.6	0.5	0.1	-0.6	-1.7	-3.4	-4.8	-5.7	-4.8	-2.6	-0.4	1.1	1.8	2.1	2.1	2.3	2.6	1.7	-0.8	-2.3	-3.1	-3.5	-3.8	-4.3	-1.1
30	-4.8	-4.6	-3.9	-3.3	-2.7	-2.2	-1.9	-2	-1.6	-0.3	2.2	5.5	7.6	9	9.7	9.8	9.7	8.3	5.9	4.5	3.3	2.3	1.7	1.9	2.3
31	2.8	3.2	2.6	2.3	1.1	-0.4	-1.6	-2.3	-1.4	0.4	2.2	3.8	5	6.1	6.6	6.9	6.4	4.4	0.5	-2.1	-2.8	-2.7	-3.1	-3.2	1.4
Avg	6.4	6.3	6.2	6	5.8	5.6	5.4	5.4	6.1	7.9	9.8	11.6	12.8	13.5	13.8	13.7	13.2	11.5	9.6	8.3	7.4	6.7	6.3	6	8.5
S D	7.2	7.2	7.3	7.3	7.4	7.4	7.4	7.6	7.4	7	6.6	6.5	6.4	6.4	6.5	6.6	6.6	6.6	6.8	7	7	7.1	7.1	7.1	6.5
S/A	1.12	1.15	1.18	1.22	1.26	1.31	1.37	1.41	1.2	0.9	0.68	0.56	0.5	0.48	0.47	0.48	0.5	0.57	0.71	0.85	0.96	1.05	1.13	1.2	0.76
Min	-4.8	-4.6	-3.9	-3.9	-4.5	-5.1	-5.7	-6.3	-4.9	-2.6	-0.4	1.1	1.8	2.1	2.1	2.3	2.5	0.9	-0.8	-2.3	-3.1	-3.5	-3.8	-4.3	-1.1
Max	19.6	20	20.1	20	20.1	20.1	19.3	19.9	20.6	20.9	20.3	22.4	23.3	23.8	24.1	24	23.6	21.6	20.2	19.5	19.1	19.1	19	19.2	19.5
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

January 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	4.6	5	4.8	5.2	4.9	5	6	5.5	5.3	4.9	4.4	4.8	4.5	4.3	4.9	5	5.1	4.3	5.5	2.7	6.5	5.6	4.9	3.7	4.9
2	2.8	4	3.9	2.9	2.7	1.7	1.8	1.6	1.4	3.2	3.9	3.7	2.6	2.3	1.9	1.3	1.1	0.9	0.5	0.2	0.1	0	0.1	0.1	1.9
3	0	0.2	0.1	0.2	0.1	0.2	0.1	0	0.5	0.7	1.3	1.5	2.5	2.6	2.7	2.1	1	1.3	1.1	1.1	1.7	1.5	1.3	1.5	1.1
4	1.4	1.2	1	0.8	0.7	1.2	1.3	1.9	2.6	2.5	3.2	3.4	4.2	3.9	3.5	3.3	2.8	2.3	2.4	1.5	1.4	1.4	1.6	1.3	2.1
5	1	1.4	1.4	1	1.3	1.3	1.3	1.4	1.7	1.5	1.5	1	1.4	1.5	1.8	1.7	1.8	2.4	1.3	0.9	2.9	3.9	2.5	3.3	1.7
6	3.7	3.9	4.2	4.3	3.7	6.9	3.8	5	4.8	6.1	5.5	5.3	5.3	6.1	4.9	4.1	3.2	3.2	3.3	3.4	3	2.6	2.1	2.2	4.2
7	1.7	1.4	1	0.2	0.2	0	0.5	0.8	2.3	3.3	4.8	4.5	4.2	4	3.8	3.2	2.9	2.7	2.2	3.2	4.5	4.2	4.1	4.5	2.7
8	4.2	4	4.1	4.3	3.8	4.2	4.7	6.2	5.9	8	6.4	4.8	5.5	5.2	3.2	3.4	3	2.9	2.1	2.8	2.6	2.7	2.2	2.6	4.1
9	2.1	1.7	1	1	0.9	1.4	1	1.1	1.3	2.1	3.3	4	4.4	4.8	4.1	3	2.5	5.1	4	5	3	2.8	3	3	2.7
10	3	2.8	3.3	2.7	2.5	2.6	2.7	2.7	3.3	3.2	4.2	4.4	3.9	4	4.2	3.1	2.3	1.1	0.3	0.2	0.2	0.3	0.3	0.3	2.4
11	0.1	0.7	0.7	1.2	1.7	1.7	1.7	1.6	1.5	2.2	2.4	2.4	2.1	2.1	1.8	1.6	1.6	1.8	1.9	1.8	1.1	0.9	1.1	0.9	1.5
12	1	1.6	1.6	2.2	2.1	1.7	1.8	1.2	0.9	1.1	1.7	2.8	3.2	3.7	3.8	3.3	2.3	1.6	1.8	1.6	1.6	1.8	1.5	1.9	2
13	1.5	1.6	1.7	1.7	1.6	1.7	1.7	2	1.8	2.3	3.1	4.6	5.2	4.9	4	3	2.4	1.3	1.4	1.6	1.3	1.7	2	2.3	2.3
14	2.1	2	1.8	1.9	1.8	1.3	1.4	1.6	1.8	2.7	4.7	4.6	4.7	4.8	5.3	4.7	3.3	2.4	1.9	1.3	1.4	2.2	2.2	3.1	2.7
15	2.4	2.3	2.6	2.7	2.8	2.8	2.5	2.8	3.7	3.9	5.5	5.8	5.9	6	4.7	3	2.6	2.2	2.8	2.5	2.4	2.7	3.2	3.4	3.4
16	3.9	4.2	4.5	3.3	2.8	3.1	3.5	2.6	1.8	2.1	2.1	2.2	3.3	2.8	3.8	4	3.4	3.2	2.8	3.4	3.5	3.5	4.7	4.4	3.3
17	4.1	4.8	4.6	5.1	4.1	3.8	4.2	3.4	4	5.4	4.9	4.9	4.1	4.1	4.1	4	3.4	3	1.9	1.7	0.8	1.1	1	2.2	3.5
18	2.3	2.1	1.4	1.8	1.8	1.7	1.6	1.5	1	2.5	0.9	1	0.8	0.8	0.7	1.1	1	1.4	1.5	1.3	0.9	1	1.3	1.5	1.4
19	0.7	0.9	2.1	1.5	1.8	2.3	3.4	4.1	4.2	4.5	4.1	5	4.6	4.4	4.8	4.8	3.4	2.4	2.3	2.2	2.6	2.6	2.3	2.2	3
20	2.5	1.8	1.5	1.5	1.7	2.1	2.6	2.2	3.1	3.7	4.8	4.8	4.6	4.4	4.6	3.8	3.3	1.6	0.6	0.2	0.4	0.5	0.8	0.8	2.4
21	0.6	0.7	0.3	0.3	0.3	0.5	1.9	2.1	2.1	2	1.5	1.3	0.8	0.7	1	1.3	1.6	1.2	1.4	1.9	1.8	2.5	2.5	1.3	1.3
22	0.6	0.6	2.4	1.7	2.5	1.9	1.2	0.8	1.2	0.8	0.7	0.7	1.6	0.9	0.1	0.3	0	0	0.1	0.4	0.8	0.5	0.9	0.7	0.9
23	1	1.2	1.4	1.7	1.7	1.9	1.2	0.9	0.5	1.4	1.6	2.3	2.6	2.3	1.7	1.9	1.7	0.5	0	0.4	0.5	0.5	0.3	0.2	1.2
24	0.2	0.3	0.2	0.3	0.1	0.1	0.8	0.6	1.1	1.7	2.7	1.9	2	1.2	1.8	1	0.9	0.9	0.7	0.1	0.3	0.2	0.2	0	0.8
25	0	0.1	0.2	1.3	1.8	1.9	1.4	1.7	2.1	1.9	2.6	2.5	1.9	3.3	3.2	2.9	3.6	2.6	3	1.6	1.5	1.6	3.1	3.9	2.1
26	4.3	4.5	4	2.7	2.1	2.8	1.8	1	2	2.3	2.6	3.1	4	4.1	4.5	4.1	3.9	1.3	0.3	1.3	1.6	1.2	1.5	1.9	2.6
27	2.2	2.2	2.4	3.2	4.1	4.2	3.8	2.7	2.9	4.3	4.2	4.6	5	5.6	4.7	4.8	3.4	2.8	1.8	2.5	3.2	3.7	2.5	2.3	3.5
28	2.8	3.6	4.2	4.2	4.5	1.9	0.9	2.2	1.2	0.9	2	2.3	2.4	2	2.9	3.1	2.9	3.9	3.8	3.7	3.5	1.9	1.4	0.6	2.6
29	0	0	1.7	1	1.9	1.5	2	1.8	1.6	2.3	2.4	3	3	3.4	4.3	3.6	2.8	1.5	1.3	1.2	1.3	1.4	0.9	0.9	1.9
30	1.2	1.7	2	2.3	2.9	2.9	1.9	1.4	1.5	1.9	2.1	2.4	3.3	3.1	3.8	4.1	3.3	2.5	2.6	1.8	1.5	1.3	1.7	2.2	2.3
31	2.8	3.4	4.5	3	3.2	3.4	3.6	3.2	4	4.4	4.4	4	3.1	2.8	2.3	2	2.2	0.5	0	0.5	0.6	0.3	1	0.4	2.5
Avg	2	2.1	2.3	2.2	2.2	2.2	2.2	2.2	2.4	2.9	3.2	3.3	3.4	3.4	3.3	3	2.5	2.1	1.8	1.7	1.9	1.9	1.9	1.9	2.4
S D	1.4	1.5	1.5	1.4	1.3	1.5	1.4	1.4	1.4	1.7	1.5	1.5	1.4	1.5	1.4	1.3	1.1	1.2	1.3	1.2	1.4	1.3	1.2	1.3	1
S/A	0.71	0.71	0.67	0.65	0.59	0.66	0.62	0.65	0.6	0.58	0.47	0.44	0.41	0.44	0.42	0.42	0.42	0.55	0.7	0.68	0.75	0.71	0.66	0.67	0.41
Min	0	0	0.1	0.2	0.1	0	0.1	0	0.5	0.7	0.7	0.7	0.8	0.7	0.1	0.3	0	0	0	0.1	0.1	0	0.1	0	0.8
Max	4.6	5	4.8	5.2	4.9	6.9	6	6.2	5.9	8	6.4	5.8	5.9	6.1	5.3	5	5.1	5.1	5.5	5	6.5	5.6	4.9	4.5	4.9
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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

January 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	193	204	202	204	208	215	220	222	222	231	228	222	224	231	232	230	234	236	281	266	302	314	316	328	237
2	341	355	8	357	354	341	4	11	13	33	43	20	14	3	27	16	54	47	57	142	149	195	280	330	12
3	287	287	286	262	298	289	270	251	285	278	206	220	238	247	218	231	233	211	219	231	217	208	223	228	229
4	221	222	227	234	226	218	223	209	198	213	225	235	234	231	232	231	234	217	218	228	217	196	188	181	222
5	200	211	175	155	189	218	241	244	240	234	240	243	220	243	227	220	220	259	216	218	230	234	231	229	227
6	227	222	220	221	222	245	266	283	283	287	289	283	281	283	278	275	269	271	273	281	297	300	290	307	269
7	301	296	295	289	11	16	54	98	107	114	118	120	121	121	122	120	124	133	145	178	204	206	219	228	150
8	231	233	235	237	234	231	228	239	241	310	287	274	284	305	347	333	326	339	329	339	341	351	344	347	281
9	345	341	325	320	317	291	271	260	253	252	255	258	266	267	267	241	249	292	318	334	339	326	332	327	292
10	329	330	323	324	322	332	337	343	345	345	353	354	353	359	356	349	342	352	315	324	311	261	301	6	342
11	338	28	44	53	56	59	75	81	83	102	124	139	161	180	230	218	162	178	160	159	173	186	196	211	138
12	210	210	209	211	210	209	212	226	226	240	246	249	249	269	276	270	261	253	250	236	231	236	256	251	243
13	242	248	250	250	245	243	254	269	249	251	266	283	276	280	273	270	264	251	252	252	239	234	247	252	261
14	246	254	252	254	256	253	256	255	252	268	280	279	272	267	271	267	268	268	264	242	236	239	243	246	262
15	249	244	247	245	246	246	250	250	249	257	267	268	274	273	266	267	261	251	241	239	239	238	246	250	256
16	259	267	267	257	269	277	273	273	292	287	318	323	31	51	53	61	67	60	61	56	49	29	46	31	355
17	34	33	36	30	29	38	39	35	39	44	64	82	71	59	89	97	97	92	63	51	18	28	35	40	53
18	41	45	46	69	69	59	52	71	22	327	15	354	356	356	13	41	46	48	58	60	78	62	40	46	42
19	29	8	1	347	339	320	315	315	321	322	325	326	335	334	328	324	322	308	306	322	340	337	345	335	328
20	332	338	338	339	341	327	330	320	322	332	345	351	359	1	10	16	12	12	16	354	304	342	348	5	349
21	350	330	358	318	353	42	58	57	65	61	67	62	32	4	98	97	107	99	117	131	144	152	153	121	91
22	55	57	25	12	22	14	2	358	15	2	18	347	338	342	12	1	327	339	312	304	297	326	345	340	4
23	339	330	335	354	358	3	349	343	344	2	30	44	48	46	34	32	61	110	0	198	201	202	209	238	18
24	252	234	264	295	276	339	7	4	21	44	48	47	29	8	359	3	1	342	147	156	188	218	202	208	22
25	270	259	266	283	277	282	299	315	338	339	338	357	17	343	348	351	358	346	20	354	331	336	342	354	341
26	354	355	354	354	4	3	352	349	9	348	321	308	315	310	313	320	303	303	243	253	255	237	229	234	326
27	249	255	259	266	277	277	273	264	269	277	273	272	279	279	264	266	267	265	253	252	258	267	257	250	268
28	256	272	268	274	275	301	211	223	234	261	215	254	265	257	272	282	335	59	52	46	46	19	9	359	293
29	0	0	353	346	342	343	346	347	333	338	349	342	339	330	311	313	317	307	295	290	291	287	262	256	325
30	256	262	261	264	270	275	270	289	281	278	266	246	230	226	251	251	246	269	277	271	248	242	243	252	258
31	298	356	16	11	1	358	5	358	8	9	15	25	26	31	21	335	329	337	68	137	167	194	203	203	5
Avg	282	290	297	286	291	289	293	288	297	312	307	301	299	298	297	293	294	291	288	285	277	276	280	288	296
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

January 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	7.5	8.6	7.9	8.5	7.8	7.9	10	9	8.6	8.1	7.3	7.9	7.7	7	8.2	8	8.7	6.7	9.1	4.6	10.6	9.2	8	7.1	8.1
2	5.5	7.6	7.8	5.9	5.7	3.6	3.7	3.3	3.1	6	7.2	6.8	5.1	4.8	3.8	2.8	2.2	1.5	0.9	0.5	0.4	0.1	0.3	0.3	3.7
3	0.2	0.3	0.2	0.5	0.4	0.4	0.3	0.2	1.1	1.3	2.3	2.6	4.2	4.3	4.5	3.5	2	1.9	1.9	1.9	2.7	2.2	2.2	2.5	1.8
4	2.4	2.1	1.8	1.6	1.5	1.9	2.3	3	3.8	4	5.6	5.8	6.5	6.5	5.6	5.3	4.7	3.7	3.8	2.3	2.2	2	2.4	2	3.4
5	1.7	2.1	2	1.9	2.4	2.6	2.7	2.8	3.1	3.1	3.1	2.4	3.1	3.1	3.5	3.7	3.6	4.5	2.9	2.2	5.2	6.7	4.4	5.8	3.3
6	6.5	6.6	7.2	7.4	6.8	11.3	6.3	7.8	7.3	10	8.6	8.4	8.2	9.2	8.1	6.5	5.1	5.1	5.2	4.7	4.6	4	3.1	3.2	6.7
7	2.5	2	1.5	0.4	0.4	0.1	1	1.8	4.2	5.4	7.8	7.6	6.7	6.1	6	5.2	4.7	4.5	3.6	5.1	7.6	7.5	7	8	4.4
8	7.2	7.1	6.9	7.5	6.6	7.1	7.9	10	9.5	13.4	10.3	7.9	8.5	9.7	6.7	6.4	5.9	5.6	3.6	5.5	4.9	5.3	4.1	4.9	7.2
9	3.9	3.2	1.9	1.6	1.6	1.8	1.6	1.8	2.2	3.6	5.3	6.3	7	7.8	6.7	5	4.4	8.7	6.8	9.5	6.1	5	5.6	5.8	4.7
10	5.6	5.1	5.6	4.7	4.4	4.6	5.2	5.2	6.4	6.6	8.9	8.8	8.2	8.2	8.3	6.1	4.6	2.7	1	0.7	0.7	0.8	0.9	0.8	4.8
11	0.5	1.2	1.4	2	2.7	2.7	3.1	2.9	2.7	3.6	4	4.1	4	3.9	3.2	2.7	2.8	2.7	2.9	2.7	1.8	1.5	1.9	1.4	2.6
12	1.6	2.2	2.2	3.1	3.1	2.5	2.5	2.2	1.7	2.2	2.9	4.4	5.5	6	5.9	5.4	3.7	2.6	2.9	2.7	2.7	3.1	2.4	3	3.2
13	2.4	2.6	2.6	2.4	2.6	2.6	2.6	3.3	3	3.7	5.3	7.2	7.9	7.6	6.9	4.9	3.9	2.2	2.3	2.6	2	2.8	3.3	3.5	3.8
14	3.3	3.1	2.7	3	3	2.2	2.3	2.5	2.9	4.6	7.5	7.2	7.2	7.5	8.4	7.6	5.4	3.9	3.2	1.9	2.4	3.5	3.6	5.1	4.3
15	3.9	4.1	4.3	4.4	4.4	4.5	4.2	4.6	6.1	6.2	8.3	9.1	9.5	10	7.8	4.9	4.3	3.5	4.3	4.1	4.1	4.6	5.1	5.6	5.5
16	6.6	6.6	7.1	5.2	4.5	5	5.6	4.2	3.1	3.7	4	4.4	6	4.9	6.7	7.1	6.3	5.9	4.9	6	6	6.7	8.3	7.8	5.7
17	7.6	8.8	7.7	9	7.3	7.1	7.2	6.3	7.2	8.6	8.4	7.9	7.1	7.7	7	6.6	5.7	5	3.4	3	2.1	2.5	2.3	3.8	6.2
18	3.8	3.5	2.5	3	3	2.7	2.7	2.6	2.2	4.6	2.4	2.5	2.7	2.5	2	2.5	2.4	2.9	3.3	3.1	2.5	2.6	3	3	2.8
19	2.2	2.6	4.8	3.9	4.1	4.7	6	6.7	7.4	7.9	7.9	9	8.5	8.4	8.8	8.6	5.7	3.8	3.6	3.8	4.7	5	4.7	4	5.7
20	4.5	3.8	3.3	3.1	3.7	4	4.8	3.6	5.5	7.1	9.3	9.9	9.3	8.7	9.1	7.7	6.9	3.4	1.4	0.7	1	1	1.4	1.5	4.8
21	1.6	1.4	1	0.8	1	1.4	3.4	3.6	4	3.5	2.9	2.5	2	1.7	2	2.4	3	2.3	2.9	3.5	3.7	4.4	4.6	2.8	2.6
22	1.6	1.8	4.7	4	4.9	4.3	3.4	2.8	3.1	2.7	2.3	2.2	3.6	2.6	0.7	1.7	0.1	0.4	0.6	1.4	1.8	1.7	2.8	2.4	2.4
23	2.8	3.2	3.6	3.9	4	4.1	2.7	2.1	1.6	3	3.5	4	4.3	4.1	3.5	3.5	3	1	0	0.7	1.1	1.1	0.9	0.9	2.6
24	1	1.1	0.5	0.8	0.3	0.6	1.6	1.7	2.8	3.4	4.3	3.9	4.1	3.2	3.9	2.5	2.4	2.2	1.4	0.6	1	0.5	0.5	0.1	1.8
25	0.2	0.4	0.7	1.8	2.6	2.7	2.1	2.8	4.2	4.1	5.1	5.1	4.1	7	6.3	6	7.3	5.6	6	3.4	2.7	3.3	5.9	8.3	4.1
26	8.6	8.9	8	5.8	4.3	6	3.7	2.3	4.1	4.3	5.3	5.5	7.1	6.9	8.2	7.3	6.4	2.2	0.8	2.2	2.6	2.1	2.5	2.9	4.9
27	3.6	3.6	3.7	5.2	6.4	6.4	6	4.5	4.8	6.9	6.9	7.4	8	8.5	7.4	7.9	5.6	4.3	2.9	3.9	5.2	6	4.1	3.7	5.5
28	4.4	5.5	6.7	6.7	7.3	2.9	1.6	3.7	2.4	1.9	3.3	3.9	4.1	3.7	4.9	4.9	4.7	6.4	6.9	6.4	6.1	4.4	4.2	1.6	4.5
29	0	0	5.2	3.1	4.4	4	4.5	4.5	4	4.9	5.8	5.6	6	6.3	6.9	6.1	4.8	2.7	1.9	1.9	2.1	2.3	1.6	1.7	3.8
30	2	2.6	3.3	4	4.7	4.5	2.9	2.2	2.3	2.9	3.2	4	5.5	5.3	6.2	6.8	5.4	3.8	3.7	2.7	2.2	2.3	2.9	3.5	3.7
31	4.7	6.6	8.5	6.2	6.5	7.2	7.6	6.9	8.2	8.4	8.5	7.3	6.3	5.4	4.6	4.2	4.2	1.3	0	0.9	1.1	0.7	1.6	1	4.9
Avg	3.6	3.8	4.1	3.9	4	4	3.9	3.9	4.3	5.1	5.7	5.9	6.1	6.1	5.9	5.3	4.5	3.6	3.2	3.1	3.4	3.4	3.4	3.5	4.3
SD	2.4	2.6	2.6	2.4	2.2	2.5	2.3	2.3	2.2	2.7	2.4	2.3	2	2.3	2.2	1.9	1.8	1.9	2.1	2	2.3	2.2	2.1	2.3	1.5
S/A	0.68	0.69	0.64	0.61	0.55	0.62	0.58	0.58	0.53	0.52	0.42	0.39	0.34	0.37	0.38	0.37	0.39	0.51	0.66	0.66	0.69	0.66	0.61	0.66	0.36
Min	0	0	0.2	0.4	0.3	0.1	0.3	0.2	1.1	1.3	2.3	2.2	2	1.7	0.7	1.7	0.1	0.4	0	0.5	0.4	0.1	0.3	0.1	1.8
Max	8.6	8.9	8.5	9	7.8	11.3	10	10	9.5	13.4	10.3	9.9	9.5	10	9.1	8.6	8.7	8.7	9.1	9.5	10.6	9.2	8.3	8.3	8.1
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

January 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	1018	1018	1017	1016	1015	1015	1015	1015	1014	1014	1014	1012	1011	1010	1009	1008	1007	1007	1008	1007	1008	1009	1010	1011	1012
2	1012	1014	1015	1016	1017	1018	1020	1021	1023	1024	1024	1024	1024	1025	1025	1026	1026	1027	1027	1028	1028	1028	1028	1028	1023
3	1028	1028	1029	1029	1029	1029	1030	1030	1030	1031	1030	1030	1028	1028	1027	1027	1027	1027	1027	1027	1027	1026	1026	1025	1028
4	1025	1025	1025	1025	1024	1024	1024	1024	1024	1024	1024	1023	1022	1021	1021	1021	1021	1021	1021	1021	1021	1020	1019	1019	1022
5	1018	1018	1017	1017	1016	1016	1016	1016	1016	1017	1017	1016	1015	1014	1013	1013	1014	1014	1014	1013	1013	1013	1013	1012	1015
6	1011	1010	1009	1009	1008	1007	1008	1009	1010	1011	1011	1011	1010	1010	1010	1011	1012	1013	1014	1015	1016	1016	1017	1017	1011
7	1018	1018	1019	1020	1021	1021	1022	1023	1024	1025	1025	1024	1022	1021	1020	1019	1019	1018	1017	1016	1015	1014	1013	1012	1019
8	1011	1009	1009	1008	1007	1006	1005	1005	1005	1005	1007	1006	1005	1004	1005	1006	1006	1008	1009	1010	1011	1012	1013	1013	1008
9	1013	1014	1014	1015	1015	1015	1015	1015	1015	1015	1014	1013	1011	1009	1008	1008	1008	1008	1009	1010	1012	1012	1013	1014	1012
10	1014	1015	1016	1017	1018	1019	1020	1022	1023	1024	1024	1024	1024	1024	1024	1025	1026	1027	1028	1029	1029	1030	1030	1031	1023
11	1031	1031	1032	1032	1033	1033	1034	1035	1036	1037	1037	1036	1035	1034	1034	1034	1034	1034	1034	1034	1034	1033	1033	1033	1034
12	1033	1032	1032	1032	1031	1031	1031	1031	1032	1032	1032	1032	1031	1030	1029	1029	1029	1029	1029	1029	1029	1029	1028	1029	1030
13	1028	1028	1027	1027	1026	1026	1026	1027	1027	1027	1027	1027	1026	1025	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1026
14	1024	1023	1023	1023	1023	1023	1024	1024	1024	1025	1025	1024	1023	1022	1021	1021	1021	1021	1022	1022	1022	1022	1022	1022	1023
15	1021	1021	1020	1020	1019	1019	1019	1019	1019	1019	1019	1018	1017	1016	1015	1014	1014	1014	1014	1015	1015	1015	1014	1013	1017
16	1012	1011	1011	1011	1011	1011	1011	1011	1013	1013	1013	1013	1013	1013	1014	1015	1016	1017	1018	1019	1021	1022	1023	1024	1015
17	1026	1027	1028	1029	1030	1031	1033	1034	1035	1036	1037	1037	1037	1036	1036	1036	1037	1037	1038	1038	1038	1038	1037	1036	1034
18	1035	1035	1034	1033	1032	1031	1031	1031	1031	1031	1031	1030	1028	1027	1026	1025	1024	1023	1022	1022	1020	1019	1018	1017	1027
19	1015	1013	1013	1012	1012	1012	1012	1012	1013	1013	1013	1014	1014	1013	1012	1012	1012	1012	1013	1014	1015	1015	1015	1015	1013
20	1016	1016	1016	1016	1016	1016	1017	1018	1018	1019	1019	1019	1019	1020	1020	1021	1021	1022	1023	1024	1024	1024	1025	1026	1020
21	1026	1026	1026	1027	1026	1026	1027	1027	1027	1028	1027	1027	1027	1026	1025	1024	1023	1023	1022	1021	1020	1019	1017	1016	1024
22	1014	1012	1011	1011	1010	1010	1011	1011	1011	1011	1011	1010	1010	1009	1008	1009	1008	1009	1009	1009	1009	1009	1009	1009	1010
23	1009	1009	1009	1009	1009	1010	1011	1011	1012	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1012
24	1014	1013	1014	1014	1013	1013	1014	1015	1015	1015	1016	1015	1015	1014	1013	1014	1014	1014	1014	1014	1014	1014	1014	1014	1014
25	1013	1013	1013	1012	1011	1011	1011	1011	1011	1011	1011	1010	1009	1008	1008	1008	1008	1009	1010	1010	1011	1011	1012	1013	1011
26	1014	1014	1015	1015	1016	1017	1018	1019	1020	1021	1020	1019	1018	1016	1016	1016	1016	1016	1016	1016	1016	1015	1015	1015	1017
27	1014	1013	1013	1013	1013	1012	1012	1012	1012	1012	1012	1011	1010	1009	1008	1007	1006	1006	1007	1007	1007	1007	1007	1006	1010
28	1006	1006	1005	1005	1005	1004	1003	1003	1003	1003	1003	1002	1002	1000	999	998	998	999	1000	1000	1001	1002	1003	1004	1002
29	1005	1006	1007	1009	1010	1012	1013	1015	1016	1017	1017	1017	1017	1017	1017	1017	1017	1017	1017	1018	1018	1019	1019	1019	1015
30	1018	1018	1018	1018	1018	1018	1018	1018	1019	1019	1018	1017	1016	1014	1013	1012	1011	1011	1011	1011	1011	1011	1011	1010	1015
31	1010	1011	1011	1012	1013	1014	1016	1017	1018	1019	1020	1020	1020	1020	1019	1020	1020	1020	1020	1020	1020	1021	1021	1020	1018
Avg	1018	1018	1018	1018	1018	1018	1018	1019	1019	1020	1020	1019	1018	1018	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018
S D	8	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8
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	1005	1006	1005	1005	1005	1004	1003	1003	1003	1003	1002	1002	1000	999	998	998	998	999	1000	1000	1001	1002	1003	1004	1002
Max	1035	1035	1034	1033	1033	1033	1034	1035	1036	1037	1037	1037	1037	1036	1036	1036	1037	1037	1038	1038	1038	1038	1037	1036	1034
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

January 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	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	12.8	12.8	13.1	13.3	13.1	13.2	12.9	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.8
2	12.6	12.5	12.5	12.5	12.5	12.5	12.5	13	13.8	13.7	13.6	13.6	13.6	13.5	13.5	13.5	13.4	12.8	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13
3	12.6	12.6	12.5	12.5	12.5	12.5	12.5	13.1	13.9	13.8	13.7	13.6	13.5	13.5	13.5	13.5	13.3	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13
4	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.5	13.2	13.5	13.4	13.4	13.3	13.3	13.3	13.3	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.9
5	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7
6	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.8	13.4	13.4	13.4	13.4	13.4	13.3	13.4	13.2	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.9
7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.7	13.6	13.6	13.6	13.5	13.5	13.6	13.1	12.8	12.7	12.7	12.7	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	12.6	12.6	13.1	12.9	12.8	13	13	12.9	12.8	13.4	13.1	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.8
9	12.5	12.5	12.4	12.4	12.4	12.4	12.4	13.1	13.9	13.8	13.7	13.7	13.6	13.6	13.6	13.6	12.9	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13
10	12.6	12.6	12.5	12.5	12.5	12.5	12.4	13	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.8	13.7	12.8	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.1
11	12.6	12.5	12.5	12.5	12.5	12.5	12.4	13	13.9	13.8	13.8	13.7	13.7	13.7	13.7	13.7	13.4	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13
12	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.6	13.1	13.3	13.6	13.6	13.5	13.5	13.5	13.4	13.3	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
13	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.6	13.1	13.5	13.5	13.4	13.4	13.4	13.4	13.4	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.9
14	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.8	13.6	13.5	13.5	13.4	13.4	13.4	13.3	13.3	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
15	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	13.5	13.5	13.4	13.4	13.4	13.3	13.4	13.2	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9
16	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.7	12.7	12.5	12.5	12.6	12.5	12.5	12.5	12.5	12.4	12.4	12.4	12.4	12.4	12.5
17	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.8	13.9	13.9	13.9	13.8	13.8	13.8	13.8	13.9	13.1	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13
18	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13	13.1	13.3	13.1	13	12.8	12.7	12.7	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.7
19	12.5	12.5	12.5	12.5	12.4	12.4	12.4	12.4	13.4	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.3	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9
20	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.2	14	13.9	13.8	13.8	13.7	13.7	13.7	13.8	13.8	12.8	12.7	12.6	12.6	12.6	12.6	12.5	12.5	13.1
21	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.8	13	13.3	13.2	13.3	13.1	12.8	12.7	12.7	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.7
22	12.5	12.5	12.5	12.5	12.5	12.5	12.4	12.4	12.4	12.7	13	13	13	12.9	12.8	12.7	12.5	12.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.6
23	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5	13.4	13.7	13.7	13.7	13.7	13.7	13.8	13.7	13	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.9
24	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.5	13	13.9	13.8	13.7	13.7	13.6	13.6	13.7	13.2	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13
25	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.9	13.3	13.9	13.8	13.7	13.7	13.6	13.6	12.9	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.5	12.9
26	12.5	12.5	12.5	12.5	12.4	12.4	12.4	13.3	14.1	14	14	13.9	13.9	13.9	13.9	13.8	13.9	12.9	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.1
27	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.1	13.8	13.8	13.7	13.6	13.6	13.6	13.5	13.5	13.3	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13
28	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.6	13	13.6	13.7	13.7	13.6	13.3	12.8	12.7	12.7	12.6	12.6	12.6	12.5	12.5	12.5	12.8
29	12.5	12.5	12.5	12.4	12.4	12.4	12.4	12.8	14.1	14	14	14	14	14	14	14	14	12.9	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.1
30	12.5	12.5	12.5	12.5	12.5	12.4	12.4	12.5	13.4	14	13.9	13.8	13.8	13.7	13.7	13.7	13.8	12.9	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13
31	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.2	14	14	13.9	13.9	13.8	13.8	13.8	13.8	13.9	12.9	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.1
Avg	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.7	13.4	13.5	13.5	13.5	13.5	13.5	13.5	13.4	13.2	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.9
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.3	0.5	0.5	0.4	0.3	0.3	0.3	0.4	0.4	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.04	0.04	0.03	0.02	0.02	0.02	0.03	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5	12.5	12.7	12.7	12.5	12.5	12.6	12.5	12.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5
Max	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.3	14.1	14	14	14	14	14	14	14	14	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.1
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	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.