

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

**April 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	3	25	77	127	581	722	699	692	495	264	211	170	80	6	0	0	0	0	0	4151
2	0	0	0	0	0	1	50	238	463	657	797	875	804	813	521	455	283	86	9	0	0	0	0	0	6052
3	0	0	0	0	0	6	79	275	483	637	801	883	872	705	663	507	324	125	16	0	0	0	0	0	6376
4	0	0	0	0	0	5	67	190	238	234	133 ?	422	856	833	611	320	299	112	12	0	0	0	0	0	4331
5	0	0	0	0	0	5	89	284	463	685	845	919	917	867	744	566	351	136	19	0	0	0	0	0	6890
6	0	0	0	0	0	7	93	301	408	637	783	796	796	706	664	561	346	132	14	0	0	0	0	0	6245
7	0	0	0	0	0	4	30	63	148	283	571	423	525	487	667	451	228	69	12	0	0	0	0	0	3959
8	0	0	0	0	0	8	104	320	536	726	869	945	953	890	761	579	364	144	20	0	0	0	0	0	7221
9	0	0	0	0	0	10	107	243	398	651	768	819	526	519	493	436	321	140	22	0	0	0	0	0	5451
10	0	0	0	0	0	13	106	297	505	694	838	906	579	715	615	554	343	109	16	0	0	0	0	0	6291
11	0	0	0	0	0	9	81	177	214	360	410	343	331	466	364	198	78	46	13	0	0	0	0	0	3089
12	0	0	0	0	0	1	25	48	236	220	386	874	930	891	758	577	366	153	26	0	0	0	0	0	5491
13	0	0	0	0	0	14	118	334	547	732	872	948	951	887	756	576	367	150	21	0	0	0	0	0	7272
14	0	0	0	0	0	9	50	72	90	247	531	462	461	594	510	323	236	76	10	0	0	0	0	0	3671
15	0	0	0	0	0	1	6 ?	?	?	?	90	70 ?	167 ?	86 ?	444 ?	484	355	91	3	0	0	0	0	0	1797 ?
16	0	0	0	0	0	16	134	358	573	756	453	696	736	747	517	225	176	66	18	0	0	0	0	0	5471
17	0	0	0	0	0	6	102	349	604	508	694	779	549	368	472	532	280	76	5	0	0	0	0	0	5325
18	0	0	0	0	0	18	121	355	551	633	616	429	242	330	279	193	216	109	23	0	0	0	0	0	4115
19	0	0	0	0	0	16	90	203	465	424	317	265	539	336	176	319	131	84	16	0	0	0	0	0	3380
20	0	0	0	0	0	19	141	340	543	704	857	953	933	901	772	605	400	174	30	0	0	0	0	0	7372
21	0	0	0	0	0	24	150	368	579	762	896	970	970	898	773	593	389	169	30	0	0	0	0	0	7569
22	0	0	0	0	0	24	150	365	574	754	888	951	944	885	754	586	383	168	32	0	0	0	0	0	7456
23	0	0	0	0	0	24	151	365	571	749	878	949	957	897	767	589	382	164	30	0	0	0	0	0	7473
24	0	0	0	0	0	22	140	346	473	698	842	909	829	757	700	544	330	123	30	0	0	0	0	0	6742
25	0	0	0	0	0	32	127	344	546	720	828	911	895	822	743	474	324	161	15	0	0	0	0	0	6943
26	0	0	0	0	0	14	65	105	197	340	573	759	714	677	691	343	231	137	22	0	0	0	0	0	4867
27	0	0	0	0	0	9	79	215	328	404	686	880	771	641	297	181	119	122	36	0	0	0	0	0	4767
28	0	0	0	0	0	23	96	303	447	711	505	331	466	529	299	348	260	98	17	0	0	0	0	0	4435
29	0	0	0	0	0	8	48	306	582	707	820	803	961	757	564	500	339	158	31	0	0	0	0	0	6581
30	0	0	0	0	0	31	177	395	601	782	907	969	805	892	765	432	292	176	34	0	0	0	0	0	7259
Avg	0	0	0	0	0	13	93	263	431	586	673	731	722	680	580	442	289	121	20	0	0	0	0	0	5601
S D	0	0	0	0	0	9	43	105	160	184	229	257	231	215	184	140	87	37	9	0	0	0	0	0	1557
S/A	0	0	0	0	0	0.7	0.47	0.4	0.37	0.31	0.34	0.35	0.32	0.32	0.32	0.32	0.3	0.31	0.46	0	0	0	0	0	0.28
Min	0	0	0	0	0	1	6	48	90	220	90	70	167	86	176	181	78	46	3	0	0	0	0	0	1797
Max	0	0	0	0	0	32	177	395	604	782	907	970	970	901	773	605	400	176	36	0	0	0	0	0	7569
n	0	0	0	0	0	176	353	344	348	347	355	350	357	355	357	360	360	358	211	0	0	0	0	0	4631

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.6% exceed the 15% QC threshold -- 4707 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**

**April 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	5	0	1	392	449	280	345	136	0	2	21	30	0	0	0	0	0	0	1660
2	0	0	0	0	0	0	34	162	669	793	830	834	711	712	401	536	510	120	0	0	0	0	0	0	6313
3	0	0	0	0	0	43	405	696	752	668	811	835	755	465	633	629	634	476	130	0	0	0	0	0	7932
4	0	0	0	0	0	0	30	50	12	3	1	17	692	703	408	101	413	290	4	0	0	0	0	0	2724
5	0	0	0	0	0	8	176	381	458	736	883	898	879	880	855	803	696	481	163	0	0	0	0	0	8300
6	0	0	0	0	0	58	406	672	392	464	574	344	345	339	576	799	678	439	19	0	0	0	0	0	6106
7	0	0	0	0	0	0	1	0	1	8	258	119	166	145	550	349	158	4	18	0	0	0	0	0	1777
8	0	0	0	0	0	77	447	710	824	884	914	927	923	906	875	819	717	500	153	0	0	0	0	0	9677
9	0	0	0	0	0	32	265	290	248	548	464	484	49	75	126	275	456	423	138	0	0	0	0	0	3874
10	0	0	0	0	0	46	300	540	687	766	803	764	308	456	382	626	545	175	6	0	0	0	0	0	6403
11	0	0	0	0	0	7	78	29	3	27	29	13	2	10	25	0	0	0	0	0	0	0	0	0	223
12	0	0	0	0	0	0	0	0	13	38	28	506	866	856	860	818	703	477	164	0	0	0	0	0	5330
13	0	0	0	0	0	91	423	675	789	847	883	896	890	876	840	782	685	481	138	0	0	0	0	0	9295
14	0	0	0	0	0	20	1	0	0	5	168	62	27	140	160	45	78	19	0	0	0	0	0	0	724
15	0	0	0	0	0	0	0	0	0	0	0	0	1	0	182	391	609	201 ?	0	0	0	0	0	0	1385
16	0	0	0	0	0	64	443	701	821	845	98	199	247	331	194	2	16	3	0	0	0	0	0	0	3964
17	0	0	0	0	0	0	249	508	693	278	300	434	141	73	111	588	278	51	0	0	0	0	0	0	3704
18	0	0	0	0	0	58	338	610	683	441	298	32	0	6	0	0	36	19	15	0	0	0	0	0	2537
19	0	0	0	0	0	44	194	171	492	205	33	9	26	16	0	65	2	49	13	0	0	0	0	0	1319
20	0	0	0	0	0	37	384	504	614	652	816	881	842	886	850	817	723	590	226	0	0	0	0	0	8821
21	0	0	0	0	0	129	449	667	793	863	899	909	902	887	868	811	722	535	201	0	0	0	0	0	9633
22	0	0	0	0	0	110	432	645	768	845	886	891	870	854	816	776	691	507	194	0	0	0	0	0	9285
23	0	0	0	0	0	103	417	638	762	829	856	864	868	860	825	771	678	468	124	0	0	0	0	0	9062
24	0	0	0	0	0	20	215	373	321	637	724	723	512	449	599	536	409	184	27	0	0	0	0	0	5730
25	0	0	0	0	0	54	240	527	655	719	691	736	668	639	649	406	286	276	15	0	0	0	0	0	6562
26	0	0	0	0	0	0	0	0	1	2	117	238	196	279	519	98	93	70	0	0	0	0	0	0	1613
27	0	0	0	0	0	0	2	56	87	51	292	521	396	274	60	1	2	111	78	0	0	0	0	0	1931
28	0	0	0	0	0	12	18	269	331	449	146	45	81	115	129 ?	184	274	137	12	0	0	0	0	0	2202
29	0	0	0	0	0	11	1	304	684	596	586	506	658	451	370	477	383	342	106	0	0	0	0	0	5475
30	0	0	0	0	0	143	491	709	820	870	875	841	513	801	757	223	168	394	96	0	0	0	0	0	7703
Avg	0	0	0	0	0	39	215	363	446	482	490	494	463	454	454	424	389	262	68	0	0	0	0	0	5042
S D	0	0	0	0	0	42	185	279	326	334	344	351	342	337	321	317	275	202	76	0	0	0	0	0	3104
S/A	0	0	0	0	0	1.09	0.86	0.77	0.73	0.69	0.7	0.71	0.74	0.74	0.71	0.75	0.71	0.77	1.11	0	0	0	0	0	0.62
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	223
Max	0	0	0	0	0	143	491	710	824	884	914	927	923	906	875	819	723	590	226	0	0	0	0	0	9677
n	0	0	0	0	0	176	360	359	360	360	360	360	360	360	357	360	359	356	210	0	0	0	0	0	4697

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.2% exceed the 15% QC threshold -- 4707 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**

**April 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	4 ?	25	77	127	303	349	428	371	376	264	210	163	73	6	0	0	0	0	0	2775
2	0	0	0	0	0	0	43	155	99	100	109	126	157	202	201	139	87	58	9	0	0	0	0	0	1485
3	0	0	0	0	0	6	26	51	81	147	119	123	170	278	168	123	73	39	10	0	0	0	0	0	1414
4	0	0	0	0	0	6 ?	62	173	232	217	101	411	213	222	291	258	145	50	11	0	0	0	0	0	2392
5	0	0	0	0	0	5	64	156	204	152	103	103	110	104	96	86	71	44	10	0	0	0	0	0	1306
6	0	0	0	0	0	6	33	70	157	248	263	423	424	378	216	82	72	45	13	0	0	0	0	0	2432
7	0	0	0	0	0	5 ?	30	63	148	282	351	323	372	354	228	221	153	69	11	0	0	0	0	0	2609
8	0	0	0	0	0	8 ?	33	61	77	85	91	94	97	96	90	83	68	43	11	0	0	0	0	0	937
9	0	0	0	0	0	10	67	133	248	234	341	361	492	462	397	258	114	53	14	0	0	0	0	0	3184
10	0	0	0	0	0	11	48	96	116	135	147	196	282	298	311	177	115	64	16	0	0	0	0	0	2012
11	0	0	0	0	0	11	65	170	214	336	382	330	331	463	343	198	78	46	13	0	0	0	0	0	2978
12	0	0	0	0	0	1	25	45	232	196	364	380	120	137	96	77	69	52	15	0	0	0	0	0	1808
13	0	0	0	0	0	11	43	75	95	107	112	116	119	115	108	98	79	47	11	0	0	0	0	0	1137
14	0	0	0	0	0	11	50	72	90	247	381	413	449	466	383	299	201	69	10	0	0	0	0	0	3137
15	0	0	0	0	0	1	8	19 ?	27 ?	40 ?	90	53 ?	146	74	203	233	91	48	3	0	0	0	0	0	1039 ?
16	0	0	0	0	0	13	42	66	80	115	367	481	465	420	355	225	171	65	18	0	0	0	0	0	2883
17	0	0	0	0	0	6	38	129	174	295	414	357	409	303	379	171	143	60	5	0	0	0	0	0	2882
18	0	0	0	0	0	15	42	91	123	291	343	402	242	328	279	193	204	105	22	0	0	0	0	0	2677
19	0	0	0	0	0	13	45	134	162	262	281	256	519	324	176	276	130	75	14	0	0	0	0	0	2666
20	0	0	0	0	0	17	49	108	142	179	108	92	96	81	78	64	55	38	11	0	0	0	0	0	1120
21	0	0	0	0	0	15	44	65	75	85	88	93	93	90	77	75	68	46	15	0	0	0	0	0	928
22	0	0	0	0	0	16	45	72	87	94	95	96	101	107	103	92	73	51	17	0	0	0	0	0	1047
23	0	0	0	0	0	17	48	74	89	101	109	117	116	111	106	94	76	51	19	0	0	0	0	0	1130
24	0	0	0	0	0	23	83	173	255	186	189	210	318	337	213	194	140	74	27	0	0	0	0	0	2421
25	0	0	0	0	0	26	63	107	133	156	199	200	245	228	220	197	200	91	14	0	0	0	0	0	2079
26	0	0	0	0	0	15	65	105	197	340	465	527	517	413	267	278	194	118	22	0	0	0	0	0	3521
27	0	0	0	0	0	9	79	188	278	370	407	361	375	387	250	181	118	87	29	0	0	0	0	0	3119
28	0	0	0	0	0	24	93	179	229	355	375	286	388	435	218	241	168	68	17	0	0	0	0	0	3074
29	0	0	0	0	0	8	48	158	147	235	272	286	318	337	271	183	164	74	20	0	0	0	0	0	2522
30	0	0	0	0	0	18	50	68	78	87	102	143	290	149	145	267	212	72	24	0	0	0	0	0	1705
Avg	0	0	0	0	0	11	48	104	146	199	237	260	278	269	218	176	123	63	14	0	0	0	0	0	2147
S D	0	0	0	0	0	7	19	47	66	95	130	141	143	135	98	73	50	19	6	0	0	0	0	0	821
S/A	0	0	0	0	0	0.6	0.38	0.45	0.45	0.48	0.55	0.54	0.52	0.5	0.45	0.41	0.41	0.31	0.43	0	0	0	0	0	0.38
Min	0	0	0	0	0	0	8	19	27	40	88	53	93	74	77	64	55	38	3	0	0	0	0	0	928
Max	0	0	0	0	0	26	93	188	278	370	465	527	519	466	397	299	212	118	29	0	0	0	0	0	3521
n	0	0	0	0	0	158	360	351	355	350	359	356	359	358	359	360	359	359	211	0	0	0	0	0	4654

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.1% exceed the 15% QC threshold -- 4707 total daylight measurements.

Instrument: Eppley PSP    Serial Number: 17880F3    Calibration Factor: 8.067 μV/W/m<sup>2</sup>    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**

**April 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	16.6	16.5	16.2	15.9	15.6	15.5	15.4	15.8	16.8	19	21.4	22.7	23.9	24.5	24.4	24.1	23.7	23.4	22	21.3	20.8	20	19.5	19.4	19.8
2	19.2	18.9	18.7	17.9	17.8	17.8	18	18.9	20.1	21.6	23.2	24.6	25.7	26.8	27.2	27.4	27.2	26.5	25.2	23.7	22.6	22	20.5	19.6	22.1
3	19.4	19	18.2	16.9	16.3	16.3	16.2	18.3	23	24.5	25.4	25.5	25.3	24.5	23.8	23.4	22.3	20.9	18	14.9	13.1	12.3	12.4	13.2	19.3
4	13.8	14.1	14.9	16.2	17.5	18	18.4	19	19.9	20.9	20.9	22.2	24.1	25.9	26.8	26.8	27	26.4	24.9	20.6	15.7	15.5	14.4	13.4	19.9
5	12.6	11.7	10.9	10.3	9.8	9	9.1	10.5	10.7	11.3	12.3	13.2	13.9	14.4	14.7	15	14.5	13.5	11.4	8.9	8.7	7.8	7.6	6.5	11.2
6	6.3	5.5	4.4	2.5	2	2	2.5	4.9	5.9	6.7	8.1	9.2	10.3	10.9	11.6	11.8	11.4	10.2	8.7	7.6	7.6	7.5	7.6	7.8	7.2
7	7.9	7.9	7.9	5.9	2.2	1.8	1.7	1.6	1.6	1.9	3.2	4	4.3	4.8	5	5.9	6.2	6.1	5.9	5.1	3.8	2.9	2.2	1.3	4.2
8	0.8	0.2	0.1	-0.4	-0.7	-1	-0.5	1.2	3.1	4.4	5.1	6.4	7.8	9.1	10.1	10.7	11.2	11.1	10.1	8.8	7.9	6.6	5.1	4.9	5.1
9	3.3	3	3	3.7	3.7	3.2	4.2	5.9	7.2	8.8	9.7	10.3	11.2	11.1	11.6	11.9	12	9.6	7.6	6.8	6.3	6.4	5.5	4.7	7.1
10	5	5	4.7	4.1	3.4	4.1	4.5	7.5	9.4	10.7	11.5	12.4	12.8	12.7	11.1	11.5	11.7	9.9	8.5	7.7	7.5	7.4	7.3	7.5	8.3
11	7.7	7.8	8	8.3	8.5	8.4	8.7	10.1	11.1	12.1	13	13.6	13.1	13.6	13.9	13.6	12.7	12.8	13.2	13.3	13.8	14.3	14.8	15.4	11.7
12	16.2	16.5	17.1	17.6	17.8	17.9	17.8	18.1	18.6	19	18.4	19.7	21.1	22.1	22.6	23.2	23.3	23	21.6	19.9	18.7	18	16.3	13.7	19.1
13	12.4	11.2	10.3	10.2	9.6	8.9	9	9.9	11.4	12.7	13.7	14.4	15.8	16.8	17.4	17.7	17.6	17.4	16.2	14.3	13.5	13	12.2	11.7	13.2
14	10.2	9.1	8.8	8.9	9	9.5	9.9	10.3	10.4	10.5	11.7	12.6	13	13.5	14.2	13.6	13.4	12.8	12.2	12.1	12.6	14.1	14.7	15.1	11.8
15	16.4	17.2	17.5	18.1	18.4	17.7	17.5	17.9	18.3	18.2	17.7	18.2	18.5	18.8	20.4	21.5	22.4	21.1	14.7	13.1	12.8	10.8	9.2	8.4	16.9
16	7.4	6.3	6.3	6.8	6.9	6.9	7.1	8.1	8.9	9.7	9.9	10.3	11.2	12.4	13	12.9	12.8	12.6	11.8	11.3	10.9	11	11.4	11.7	9.9
17	11.7	11.5	11.3	11	10.8	10.4	9.9	10.9	11.6	12	12.6	13.6	14.1	14.4	15.2	16	16.4	15.2	14.3	12.9	12.7	12.3	11.5	11	12.6
18	10.2	9.7	8.9	8.3	7.7	7.5	7.7	9	9.6	10.5	11.3	11.6	10.7	10.6	10.2	9.7	9.6	9.2	8.2	8	7.9	7.8	7.8	7.8	9.2
19	7.8	7.3	7.1	7.1	7.3	6.9	6.7	8	9.6	10.4	10.9	11.2	11.8	12.1	11.9	12.4	11.4	10.5	9.4	8.7	8.2	8.3	8	7.9	9.2
20	8	7.6	7.6	7.9	7.8	7.3	8.2	9.9	11.7	13.7	15.4	16.8	17.8	18.4	18.6	18.8	18.9	18.3	16.1	12.8	11.6	10.7	9.2	8.3	12.6
21	7.6	6.5	6.2	6.6	6.6	6.7	8.2	12.2	15.5	17.4	19.4	21.1	22.4	23.8	24.1	22.8	21.2	20.4	18.6	16.5	15.1	14.8	13.9	12.7	15
22	11.8	11.1	11	10.6	9.9	10.4	11.9	14.2	16.6	18.9	21.6	24.1	25	25.4	25.7	24.6	24.2	23	19.9	19	18.4	17.2	16.8	16.5	17.8
23	16	15.8	15.5	15.1	14.9	14.8	15.7	17.5	19	21.2	23.1	24.3	25.2	25.9	26.6	27	26.6	24.8	22.6	20.9	19.8	19.1	18.6	17.7	20.3
24	16.9	16.6	16.5	16.2	15.9	16.4	17.2	18.3	19.4	21	22.8	24.5	25.9	26.5	27	27.2	26.8	26.1	24.9	23.6	21.8	21.2	20.2	19.8	21.4
25	19.6	19.2	19	18.3	17.2	16.5	17.1	18.9	20.8	22.8	24.1	25.9	27.9	28.8	29.3	29.1	28.9	28.6	26.3	24.4	23.4	22.4	22	21.6	23
26	20.9	20.2	19.4	18.7	16.6	14.2	13.3	12.7	12.9	13.7	15	18	18.9	19.1	19.4	18.6	16.1	15.1	14.3	14.4	15.5	17	19.8	20.5	16.8
27	20.5	20.5	20.5	20.5	20.3	20.4	20.7	21.3	22.8	23.5	24.8	26	26.9	27.2	26.6	25.9	24.5	23.5	23.2	22.9	22.4	21.9	21.3	21.1	22.9
28	21.1	20.6	20.3	20.1	19.9	19.8	19.5	20	20.7	21.7	22.2	20.8	20.4	20.7	20.3	19.5	20	19.7	18.8	17.8	16.8	16.3	16.3	16.3	19.6
29	16.4	16.2	15.7	14.7	13.7	12.9	13.1	15.9	18.5	20.5	21.4	22.1	23.1	22.9	23.1	23.7	24.2	24.3	23.2	20.6	18.9	17.9	16.6	16.3	19
30	15.5	15.4	15.7	15.3	15	14.8	15.2	17.3	20.3	23.5	24.9	25.8	26.7	27.6	28.6	28.6	28.7	28.8	27.3	25.6	24.5	23.5	22.3	21.6	22.2
Avg	12.7	12.3	12	11.8	11.4	11.2	11.5	12.8	14.2	15.4	16.5	17.5	18.3	18.8	19.2	19.2	18.9	18.2	16.6	15.3	14.5	14	13.5	13.1	14.9
S D	5.6	5.8	5.8	5.8	5.9	5.9	5.8	5.6	5.9	6.2	6.4	6.5	6.7	6.8	6.8	6.7	6.6	6.7	6.4	6.1	5.7	5.6	5.7	5.7	5.7
S/A	0.44	0.47	0.48	0.49	0.52	0.53	0.51	0.44	0.42	0.4	0.39	0.37	0.37	0.36	0.36	0.35	0.35	0.37	0.39	0.4	0.4	0.4	0.42	0.43	0.38
Min	0.8	0.2	0.1	-0.4	-0.7	-1	-0.5	1.2	1.6	1.9	3.2	4	4.3	4.8	5	5.9	6.2	6.1	5.9	5.1	3.8	2.9	2.2	1.3	4.2
Max	21.1	20.6	20.5	20.5	20.3	20.4	20.7	21.3	23	24.5	25.4	26	27.9	28.8	29.3	29.1	28.9	28.8	27.3	25.6	24.5	23.5	22.3	21.6	23
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**

**April 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	73.2	79.7	81.9	87	91.4	94.4	97.7	98.9	97.2	90	82.7	79.5	75.2	71.4	70.8	72.2	72.2	74.8	81.3	84.2	82.4	85.6	89.9	92.1	83.6
2	93	94.1	95.3	101	101.2	100.8	100.1	97.3	93.4	86.9	79.9	70.3	60.8	49.2	47.5	47.4	47.8	47.9	53.5	59.2	64.8	66.7	74.2	82.3	75.6
3	82.6	83.8	85.7	88.1	87.1	82.4	82.1	76.2	48.8	40.8	36.4	35	35.4	37.6	39.8	43.1	46.9	56.7	69.8	90.3	100.4	103.9 ?	?	?	66 ?
4	?	?	?	103.3 ?	99.3	100.7	103	101.7	99.1	96.5	98	91.9	75.8	63.7	57.8	55.2	52.6	50.4	53.6	76.1	93.9	79.1	82.8	88	82 ?
5	94	97.5	96	93.5	88.1	91.5	87.7	72.6	70.6	60.2	49.8	45.4	42.6	41.1	37.2	35.4	35	36.6	51.9	79.3	49.4	51.5	50.8	55	63
6	57	60.3	66.9	79.1	79.2	79.4	78	64.3	51	47.6	44.6	42	40.4	38.9	36.9	39.5	42.3	50.4	67	83.8	86.3	85.7	84.9	84	62.1
7	85.1	81.5	83.5	92.6 ?	?	?	104.5 ?	104.3 ?	103.7	100.3	89.6	70.3	66.6	65	68.7	63	55.1	54.3	53.1	52.3	48.5	51.3	54	58.1	73 ?
8	59.8	63.1	64.7	66.7	69.4	72.3	72.1	66.5	55.6	47.7	46.9	45.2	43.1	41.6	39.9	38.7	37.5	37.6	41.4	46.1	48.9	57.1	70.5	82.4	54.8
9	91.5	95	92.3	80.4	79.3	81.5	77.9	69.8	64.9	59.9	54.9	49.7	46.3	45.2	42.4	41.5	39.2	66.9	78.7	85.7	90.1	94.1	97.4	101.3	71.9
10	100.9	100.9	101.1	102.1	104.5 ?	?	103.1 ?	89.3	67.5	55.5	47.6	44.5	44.8	53.2	65.9	62.7	62.6	73.4	77.6	80	81.7	84.9	85.9	85.8	77.2
11	85.3	84.8	85.6	83.2	79.7	81	77.8	74.6	76.6	76.7	74.9	73.6	79.4	79.9	79	81.5	88.9	89.8	89	89.7	88.2	90.5	95.6	97.3	83.4
12	98.4	103.3	104.9	104.1 ?	?	?	?	?	?	103.7	99.6	83.2	67.6	53.4	50.2	41.8	38.9	41.3	39.7	41.9	44.8	47	55.2	82.2	70.3 ?
13	88.8	94.1	98.2	87.6	73.8	74.2	74.3	70.9	62.6	55.7	52	50.3	47.2	43.6	42	40.8	40.4	40	45.1	54	57	58	61.9	64	61.5
14	76.6	101.8	102.8	98.8	98.4	90.6	90.7	89.6	83.9	85.8	69.4	63.3	63.2	62.1	59.9	62.9	64.1	73.7	78.7	82.4	89.4	92.8	94.5	97.3	82.2
15	97.2	95.2	95.6	93.8	90.9	99.1	104.4 ?	?	?	?	?	?	?	?	?	99.9	96.8	96.6	103.6 ?	?	103.4 ?	101.1	103.9	103.2 ?	99 ?
16	103.5	103.1	102.2	93.7	86.7	80.5	74.5	63.1	54.5	50.3	49.7	49.7	48.4	47.3	45.3	44.3	47.4	48.5	52.2	54.6	58.5	59.8	57.8	54.7	63.8
17	54.8	57.9	59.7	62.3	63.7	65	68.1	63.4	61.2	61.1	58.8	56.9	54.7	55.2	52.3	50.9	50.5	56.5	62.4	67.4	70.4	68.4	70.5	71.9	61
18	74.6	75.5	78.7	82	84.8	85.1	85.3	78.7	76.7	75.3	73	72.3	78.3	78.9	81.6	83.6	84.7	86.3	92.9	94.3	94.3	92.6	92.8	92.4	83.1
19	94.6	97.7	99	98.8	98.6	100	101.5	98.1	89.4	82.9	81.9	80.1	79.4	78.9	80.8	79.6	82.8	86.3	90.1	93.7	96.8	97.4	98.2	99.1	91.1
20	99.2	100.3	100.9	100.3	100.6	103.6	102.3	98.6	91.7	80.3	62.5	49.1	40	38	40.9	34.1	31.8	32.7	47	79.5	78.7	80.6	88.9	95.3	74
21	99	101	100.9	94.2	90.8	87.7	82.4	64.8	45.7	46	42.1	38.1	31.8	27.8	26.7	38.7	39.8	46.7	51.2	61.4	69.5	72.2	74.7	82.3	63.1
22	88.1	92.9	94	96	98.3	96.5	87.7	75.4	61.2	58.3	51	42.2	39.1	36.7	39.5	36.9	37.8	41.4	62.9	64.2	62.5	69.4	67.5	71.1	65.4
23	72.3	71.3	66	64.3	62.5	64.2	67.6	67.1	65.5	59.4	53.4	50.6	45.9	39.8	37.8	36.4	39.2	50.5	54.6	58.7	66.7	69.8	70.6	71.6	58.6
24	78.2	84.4	87.9	90.6	92.5	89.2	87.1	83.9	79.3	74.5	69.6	65.3	61.8	60.2	59.7	59.2	60	62.8	67.1	71.9	83	86.6	92.2	92	76.6
25	91.1	91.4	92	95.7	100	103.7	101.9	96.9	90.7	85.2	81.9	75.3	68.2	61.2	57.2	56.4	56.5	57.7	69.8	75.6	75.9	81.4	83.3	83.6	80.5
26	84.5	85.9	90.5	94.4	101.6	?	?	?	?	102.8	99.1	90.2	88.2	89.2	89.1	91.8	99.4	102	104.6 ?	?	?	?	101.4	101.3	95.1 ?
27	102.2	102.6	102.1	100.9	100.8	100.6	101.2	100.4	94.5	91.3	85.9	78.9	74.8	71.8	74.6	76.6	84.6	92.8	94.4	90.8	90.7	94.2	99.4	101.7	92
28	102.5	104.1	104.7	104.6 ?	?	?	?	102.3	94.1	86.8	83.5	92.2	85.1	79.5	79	88.2	82.4	83.3	88.4	89.1	91.2	95	97.3	96.2	91.9 ?
29	83.6	79.6	81	83.5	87	92.4	94	80.6	62.6	53.4	47.6	43.7	42.5	44.4	46.3	48.1	45.9	45.2	49.5	62.9	69.2	73.6	80.3	89.4	66.1
30	100.2	102.8	92	86	86.4	88.9	87	77.9	67.3	52.7	41.4	41.4	40.3	39.7	37	37.6	36.8	37.5	42.9	48.7	52.4	54.7	61.4	62.9	61.5

Avg	86.6	89.2	89.9	90.3	89.3	88.2	88.7	82.5	74.4	71.3	65.8	61	57.5	55	54.7	56.3	56.7	60.7	67.1	72.1	75.5	77.4	80.6	84.1	74.3
S D	13.7	13.6	12.7	11.4	11.9	11.5	12.1	14.3	17.3	19.3	19.3	17.9	17	16.4	17.1	19.5	20.4	20.4	19.4	15.9	17.5	16.6	16	14.7	12.1
S/A	0.16	0.15	0.14	0.13	0.13	0.13	0.14	0.17	0.23	0.27	0.29	0.29	0.3	0.3	0.31	0.35	0.36	0.34	0.29	0.22	0.23	0.21	0.2	0.18	0.16
Min	54.8	57.9	59.7	62.3	62.5	64.2	67.6	63.1	45.7	40.8	36.4	35	31.8	27.8	26.7	34.1	31.8	32.7	39.7	41.9	44.8	47	50.8	54.7	54.8
Max	103.5	104.1	104.9	104.6	104.5	103.7	104.5	104.3	103.7	103.7	99.6	92.2	88.2	89.2	89.1	99.9	99.4	102	104.6	94.3	103.4	103.9	103.9	103.2	99
n	347	348	348	347	326	300	302	317	323	348	348	348	348	348	348	360	360	360	343	336	342	342	348	344	8187

Data Recovery: 0.0% missing; 0.0% untested; 5.2% 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**

**April 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	17.1	16.9	16.7	16.3	16.1	15.9	15.8	16.1	16.9	18.7	22.5	25.4	26.8	27.9	27.7	26.9	26.3	25.6	24	22.5	21.6	20.8	20.2	19.8	21
2	19.6	19.5	19.1	18.6	17.9	17.6	17.6	18.5	20.5	22.9	25.3	27.3	28.9	29.8	30.5	30.6	30.6	29.8	27.4	25	22.9	21.7	21	19.5	23.4
3	18.8	18.5	18	16.9	15.6	14.7	14.6	17	21.6	25.9	28.5	30.2	30.5	29.8	28.7	28.2	27.5	26.1	23.1	18.7	15.3	13.3	12.6	12.8	21.1
4	13.3	13.7	14	14.7	15.6	16.6	17.5	18.6	20	21.3	22.1	22.7	24.7	27	28.8	29.4	29.1	29.3	27.4	25	20.6	17.4	15.7	14.1	20.8
5	12.8	11.8	11	10.2	9.3	8.4	7.5	9.5	13	14.6	16.3	17.5	18.2	18.3	18.4	18.9	18.8	17.8	15.2	11	7.9	6.7	5.8	5.4	12.7
6	4.6	4.2	3.5	2.1	0.7	-0.1	-0.1	3	6.6	8.9	11.5	13.9	15.8	16.9	17.1	17.4	17.2	15.9	12.7	9.2	7.6	7.2	7.1	7.2	8.7
7	7.3	7.5	7.5	7.2	5.4	3.4	2.5	2.2	2.2	2.4	3.4	5.7	6.5	7.4	8	8.9	9.4	8.5	7	5.5	3.9	2.3	1.2	0.3	5.2
8	-0.5	-1	-1.4	-1.7	-2.1	-2.4	-2.2	0.4	3.6	6.4	8.4	9.5	10.4	11.1	12.2	13.4	14	14.1	12.6	9.4	6.9	5.3	3.4	2.2	5.5
9	1.7	1.3	0.9	1.1	1.7	2	2.4	4.8	7.5	10.8	14.1	16.2	16.8	16.4	15.8	15.7	15.6	14.6	11.8	8.3	6.3	5.1	4.3	3.4	8.3
10	3.1	3.1	2.8	2.6	1.9	1.6	2.5	5.2	9.2	13.1	16.1	17.3	18	17.7	16.8	15.9	16.1	14.9	11.7	9	7.5	6.9	6.5	6.4	9.4
11	6.7	6.9	7.1	7.7	8.1	7.8	7.7	9	10.8	12.3	14.1	15.6	15.5	15.5	16.2	16.1	15	14	13.7	13.6	13.6	13.8	14.2	14.9	12.1
12	15.6	16.3	16.6	17.1	17.6	17.7	17.9	18.1	18.4	19.4	19.8	21.6	23.4	24.2	24.9	25.6	26	25.7	24.2	21.3	18.9	17.5	16.5	14.9	20
13	12.8	10.8	9.7	9.1	8.7	8	7.9	10	12.7	15.1	17.1	18.5	19.2	19.8	20.7	21.4	21.4	20.8	19	15.8	13.2	11.8	11.1	10.5	14.4
14	9.8	8.8	8.2	7.8	7.8	8	8.7	9.6	10.2	10.3	11.1	14.3	15.9	16.9	17.8	17.8	16.7	15.5	13.9	13	12.6	12.9	13.8	14.4	12.3
15	14.9	15.9	16.7	17.3	17.9	17.8	17.2	17.4	17.9	18.2	18.2	18.2	18.6	18.9	19.5	21.1	23.5	24.9	21	16.8	14.5	12.9	11.1	9.6	17.5
16	8.6	7.5	6.5	6.1	5.9	6.2	6.6	8.3	10.2	11.7	12.8	12.6	13.4	14.3	15.2	15.2	14.7	14.2	13.3	12.2	11.6	11.1	11.1	11.3	10.9
17	11.5	11.6	11.5	11.2	11.1	10.8	10.4	11.3	13.3	14.9	15.6	16.4	17.4	17.4	17.7	18.2	19.5	18.6	16.5	14.9	13.7	13.1	12.5	11.8	14.2
18	10.8	9.8	8.9	7.9	7	6.6	6.6	8.9	11.3	13.1	14.5	15.4	15.1	14.3	13.7	13	12.3	11.9	10.6	9.2	8.6	8.4	8.1	8	10.6
19	7.8	7.4	6.9	6.7	6.9	6.5	6.2	7.6	10	12.6	13.8	14.3	14.7	15.9	15.6	14.9	15	13.6	12.2	10.4	8.8	8	7.7	7.4	10.5
20	7.7	7.7	7.6	7.6	7.8	7.2	7.1	9.6	12.4	15.2	17.6	19.3	20.5	21	21.8	22.6	22.8	22.2	20.1	16.2	12.7	10.5	8.4	6.8	13.8
21	5.7	5.1	4.6	4.3	4.1	3.8	4.8	9.4	14.8	18.9	22.2	24.4	25.7	26.6	28	28.8	27.4	25.5	23	19.1	15.8	13.8	12.8	11.7	15.8
22	10.3	9.3	8.4	8	7.9	7.6	9	12.8	16.8	20.3	23.6	26.9	29.1	29.5	29.9	30	29	27.9	25.2	20.9	18.7	17.2	15.9	15.3	18.7
23	14.7	14.4	14.2	13.9	13.6	13.5	14.3	17	19.9	22.7	25.4	27.3	28	28.2	28.8	29.7	30.3	29.6	26.9	23.3	20.7	19.2	18.5	17.9	21.3
24	17.1	16.5	16.2	15.8	15.5	15.3	16.2	18.2	20.4	22.3	24.7	26.9	28.4	29.4	30.1	30.8	30.8	29.7	27.6	25.3	23.2	21.7	20.7	19.8	22.6
25	19.3	19.1	18.8	18.2	17.5	16.5	16.6	18.8	22	25.3	28.5	29.8	31	31.9	32.3	32.6	31.9	31.6	30	26.9	24.7	23.2	22.3	21.7	24.6
26	21.2	20.5	19.6	18.8	18	16.5	15.4	14.9	14.7	15.5	17.2	20.3	23.2	24	24.3	24.3	22.2	20.1	17.8	16	15.3	15.6	16.7	18.3	18.8
27	19.2	19.8	20	20.1	20.1	20.1	20.3	21	23.1	24.7	26.3	28.4	29.8	30.5	30.3	29.1	27.7	26	25.1	23.9	22.8	22.1	21.6	21.2	23.9
28	21.1	21	20.7	20.5	20.3	20.3	20.2	20.9	22.9	24.9	27.2	26.6	25.2	24.5	25	22.3	21.5	22.4	21	19.3	17.6	16.3	15.6	15.3	21.4
29	15	15	14.8	14.4	13.5	12.8	12.8	14	18.2	22.4	25.5	26.8	27.3	27.4	26.9	27	27.1	27.2	25.9	22.5	19.2	16.9	15.5	14.6	20.1
30	14	13.9	14	13.9	13.7	13.5	14.4	17.1	20.7	24.5	27.1	28.4	29.1	29.5	30.4	31.2	30.8	30.7	29.9	27.4	25.3	23.8	22.6	21.5	22.8
Avg	12.1	11.8	11.4	11.1	10.8	10.5	10.6	12.3	14.7	17	19	20.6	21.6	22	22.4	22.6	22.3	21.6	19.7	17.1	15.1	13.9	13.2	12.6	16.1
S D	5.9	6.1	6.2	6.2	6.3	6.3	6.3	5.8	5.8	6.1	6.5	6.5	6.7	6.7	6.8	6.7	6.6	6.7	6.6	6.4	6.1	6	6	6	5.8
S/A	0.49	0.51	0.54	0.56	0.58	0.61	0.59	0.47	0.39	0.36	0.34	0.32	0.31	0.3	0.3	0.3	0.3	0.31	0.34	0.37	0.41	0.43	0.45	0.48	0.36
Min	-0.5	-1	-1.4	-1.7	-2.1	-2.4	-2.2	0.4	2.2	2.4	3.4	5.7	6.5	7.4	8	8.9	9.4	8.5	7	5.5	3.9	2.3	1.2	0.3	5.2
Max	21.2	21	20.7	20.5	20.3	20.3	20.3	21	23.1	25.9	28.5	30.2	31	31.9	32.3	32.6	31.9	31.6	30	27.4	25.3	23.8	22.6	21.7	24.6
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.

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

**April 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	1.9	1.5	0.4	1.1	0.9	1	1.4	1.6	1.9	3.2	3.2	4.4	3.1	3.7	3.3	3.1	3.7	2.6	2	2.7	3.4	3.3	3.4	3.7	2.5
2	3.7	3	2.6	2.8	2.5	2.8	3.6	4.5	5.4	4.9	4	3.6	3.1	3.5	3.4	3.2	3.8	3.1	1.4	1.1	1.4	2.1	1.1	1.7	3
3	2.1	2.3	2	1	1.3	1	0.2	0.1	1	2.6	2.8	3.2	3.5	4.1	4.1	3.7	3.7	3.2	3	2.8	2.1	1.8	3.3	3.3	2.4
4	2.7	2.2	2.2	2.2	2.4	3.4	3.7	4.5	5.4	4.6	3.1	4.3	4.9	5.4	5	5.3	4.4	4.6	2.8	3.8	5.1	3.7	2.9	2.1	3.8
5	2.2	2.6	2.1	1.1	0.5	0.2	0.7	1	2.3	3.2	3.4	3	2.9	3.7	3.4	3.6	4.1	3.5	1.6	0.4	1.5	1.1	1.7	1.5	2.1
6	1.7	1.4	0.9	0.6	0.6	0.3	0.2	1.6	2.7	2.9	2.1	1.8	1.4	1.4	1.7	2	2.1	2.9	2.9	1.9	2.1	2.5	2	2	1.8
7	2.2	1.9	1.2	2.9	3.5	3.9	4	3.9	4.7	5.6	4.9	5.3	4.7	4.4	4.1	3.2	2.6	1.3	0.7	1.6	1.6	1.7	1.6	1.6	3
8	1.7	1.6	2.2	2.2	1.7	1.5	2.2	3.2	3.9	3.8	4.9	4.5	4.6	4.3	4.2	4.7	4	3.6	1.5	0.7	0.4	0.1	0	0.2	2.6
9	0.8	0.3	1.1	1.4	1.7	1.2	1.4	1.6	1.7	1	1.1	2	1.6	2.4	3.1	3.3	4.1	3.5	2.8	1.8	1.4	1	0.5	1	1.7
10	0.9	0.6	0.6	0.2	0.1	0.9	0.3	0.4	1.3	1.1	2.1	2.2	2.1	2.9	4.6	4.1	4.2	3.6	3	2.9	2.8	2.8	2.4	2.5	2
11	2.9	2.9	3.1	3.2	3.6	3.3	4.1	4.2	4.7	5.1	5.3	5.6	5	5.3	5.2	4.3	3.5	3.4	3	2.9	4	4.1	4.8	5.3	4.1
12	5.2	4.4	3.8	3.4	2.9	3.6	4.6	3.1	3.5	4.2	3.9	4.4	4.6	5.4	5.7	5.5	5.9	4.6	3.1	1.8	1.6	2	2.1	1.6	3.8
13	0.2	0.8	1.5	2.2	1.8	1.5	1.6	2.6	3.2	3.2	3.1	3.2	2.8	2.6	3.1	3.5	3.7	3	1.2	1	0.8	1	1.2	1.3	2.1
14	0.9	1.8	1.5	0.5	0.1	0.2	0	0.1	0.9	1	2	2.3	1.9	3.1	2.5	3.5	4.1	3.6	3.4	2.9	2.7	2.7	2.9	0.9	1.9
15	1.9	3.2	3.3	3.6	5.5	6.3	6.7	5.2	6.7	5.6	4.2	3.2	4	2.9	4.1	5.2	4.4	4.7	1.2	2.9	3.8	4.1	4.1	3.9	4.2
16	6	6	4.9	5.4	6	6.4	6.4	7.4	8.2	8.1	8	8.2	8.6	7.4	7.2	7.4	6.3	5.9	5.9	4.6	3.7	3.9	4.1	4.1	6.3
17	4.1	4.1	4.5	4.1	3.8	3.5	2.9	4.6	6.1	4.8	6.3	4.2	4.8	3.7	4.5	3.9	3.3	2.7	2.1	2.3	2.7	4.4	4.8	4	4
18	3.6	3.1	1.8	1.5	1.8	1.7	1.9	3.9	5	4.2	3.6	3.3	3.2	3.7	3.9	3.5	3.8	3.8	3.3	2.9	3	2.4	2	2	3
19	1.1	0.3	0.9	1.4	1.7	0.8	0.6	1.6	2.4	2.5	1.9	2.1	3	2.9	2.7	2.8	3.2	3.4	3.7	3.3	1.9	2.2	1.5	1.7	2.1
20	0.9	0.6	0.7	1.4	1.4	1.5	2.2	3.2	3.4	3.7	4.1	3.8	4	4.3	3.8	4	4	4.1	3.2	2.6	1.4	0.4	0.2	0.2	2.5
21	0.2	0.6	1.2	1	0.7	0.2	0.5	0.7	1.4	1.5	2	2	2.3	1.4	1.5	2.9	3.7	3	2.4	1.2	1	1.1	0.8	0.4	1.4
22	0.4	0.1	0.3	0.9	0.2	1	1.3	1.9	2.2	2	1.7	0.8	1.7	2.6	2.5	4.4	3.3	2.8	2.3	1.9	1.9	1.7	1.7	1.6	1.7
23	1.7	1.8	2	1.7	1.9	2	2.1	3	3.1	2.5	3.1	3.9	4.5	5	5	4.3	4	3.5	3.5	3.3	3.3	3.8	4.6	4.1	3.2
24	3.3	3.3	2.9	2.8	2.4	3.2	4.2	4.8	5.2	4	3.9	3.8	3.9	4.1	4.1	4.2	4.1	3.3	2.6	1.6	1.9	2.5	2.1	1.8	3.3
25	2.6	2.6	1.7	1.5	0.7	1.3	1.7	2.3	2.4	2.2	2.6	3	3.6	4.8	5.7	5.8	4.9	3.5	2.9	2.8	2.7	2.7	2.8	2.9	2.9
26	2.7	1.9	1.9	1	1.3	2.5	3.1	3.1	2.7	2.9	2.2	1.4	2.6	3	3.2	3.7	3.5	3.1	3.2	2.4	1.8	1.2	2.1	2.8	2.5
27	3	3.2	3.4	3.4	3.3	3.1	3.5	3.7	4.7	4.3	4.6	5.5	5.3	5.7	5.4	4.8	4.2	2.4	2.4	3.2	3.1	3.2	3.3	3.4	3.8
28	2.9	2.3	0.6	0.2	1.1	2	2.1	2.1	2.6	2.3	2.2	2.8	3.7	2.8	2.7	0.7	2	1.8	1.7	2.3	2.2	1.3	1.6	1.2	2
29	1.7	1.9	2.6	2.3	2.1	1.3	0.7	0.7	1.5	1.2	1.5	1.7	2.7	3.7	3.7	3.5	2.3	1.8	0.4	0.1	0.1	0	0.5	0.6	1.6
30	0.7	1.2	1.9	1.4	1.5	1.5	2.1	1.9	1.6	3.1	4.9	4.7	4.6	4.9	5.4	5.1	4.5	3.8	2.8	2.3	2.2	1.8	1.6	2.2	2.8
Avg	2.2	2.1	2	1.9	2	2.1	2.3	2.8	3.4	3.4	3.4	3.5	3.6	3.8	4	4	3.8	3.3	2.5	2.3	2.3	2.2	2.3	2.2	2.8
SD	1.4	1.3	1.2	1.2	1.5	1.6	1.8	1.7	1.8	1.6	1.5	1.5	1.5	1.3	1.3	1.2	0.9	0.9	1.1	1	1.1	1.2	1.3	1.3	1
S/A	0.64	0.63	0.6	0.64	0.74	0.76	0.76	0.63	0.55	0.48	0.45	0.44	0.4	0.34	0.32	0.31	0.24	0.27	0.42	0.45	0.5	0.55	0.6	0.6	0.37
Min	0.2	0.1	0.3	0.2	0.1	0.2	0	0.1	0.9	1	1.1	0.8	1.4	1.4	1.5	0.7	2	1.3	0.4	0.1	0.1	0	0	0.2	1.4
Max	6	6	4.9	5.4	6	6.4	6.7	7.4	8.2	8.1	8	8.2	8.6	7.4	7.2	7.4	6.3	5.9	5.9	4.6	5.1	4.4	4.8	5.3	6.3
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**

**April 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	264	291	296	281	266	253	249	262	273	285	306	309	259	262	242	243	250	245	229	228	238	237	244	251	259
2	256	258	258	270	260	268	275	286	298	309	311	307	297	299	308	311	301	311	292	267	273	278	249	268	288
3	281	302	326	332	359	20	357	307	101	111	116	119	121	136	155	152	162	148	154	144	140	139	148	152	140
4	147	145	151	176	198	200	206	214	211	224	270	284	277	292	296	315	317	319	314	30	61	55	42	28	273
5	38	52	57	30	28	17	26	18	323	327	344	1	338	318	331	319	325	335	13	50	348	350	358	341	348
6	9	10	351	324	340	355	356	30	27	32	41	314	281	321	318	143	236	175	161	139	146	151	162	168	93
7	168	179	179	331	335	334	343	344	348	353	358	0	353	348	344	349	347	9	352	336	327	327	324	312	344
8	315	295	312	317	309	299	305	322	334	331	313	309	312	312	307	298	313	309	345	356	328	325	88	34	314
9	33	20	29	37	48	38	55	77	91	150	193	306	314	305	311	307	302	116	127	125	135	175	127	86	31
10	81	91	95	74	109	78	56	87	96	71	34	34	73	143	147	141	149	143	126	131	135	137	144	138	124
11	140	135	127	126	126	126	123	127	129	133	134	139	137	139	142	142	134	135	141	148	154	164	172	174	140
12	178	189	197	205	220	216	210	215	269	298	319	322	310	303	293	293	296	303	302	303	284	329	15	51	274
13	28	323	313	319	332	331	332	343	349	347	352	333	343	345	330	330	314	333	330	304	291	285	280	305	331
14	47	102	93	101	77	98	82	126	149	201	168	133	183	176	160	155	163	161	164	175	166	175	173	168	159
15	200	208	220	218	207	208	210	216	208	214	205	192	194	202	212	235	233	266	318	354	5	355	348	344	226
16	333	327	317	318	315	317	313	317	323	329	328	328	331	325	325	330	350	347	337	341	327	316	317	329	327
17	338	338	346	343	348	349	349	10	18	14	26	15	15	358	359	12	4	44	56	64	30	16	19	25	9
18	24	20	17	14	10	7	22	36	38	47	59	67	99	97	97	98	95	101	100	100	99	92	84	84	67
19	53	359	29	49	57	51	334	18	50	69	88	78	96	84	89	86	98	95	95	94	76	82	78	80	78
20	22	355	10	29	19	33	49	50	53	67	62	63	50	88	96	69	63	67	97	116	120	113	358	49	66
21	38	314	326	342	350	357	2	356	19	3	25	49	67	90	53	162	175	177	153	174	214	231	238	253	112
22	247	110	171	201	237	264	269	297	313	315	336	331	183	166	203	172	179	166	163	184	206	226	233	237	210
23	257	258	264	260	261	257	263	269	281	278	260	265	264	271	253	239	238	232	235	234	239	245	251	252	254
24	254	254	250	248	257	269	275	278	286	284	289	275	273	269	262	264	264	269	274	244	230	250	251	257	267
25	274	282	269	267	243	242	257	270	266	247	229	250	244	263	272	266	268	266	234	240	239	252	249	246	257
26	250	243	244	52	69	88	87	83	95	93	95	71	107	106	116	114	104	111	120	137	146	170	231	233	117
27	231	237	234	236	234	232	236	242	246	250	241	237	234	237	236	245	254	250	233	237	243	246	244	255	240
28	267	282	318	256	280	303	319	335	39	57	59	82	75	83	87	125	162	164	189	195	192	216	230	257	101
29	283	296	315	329	341	337	351	41	82	65	328	317	322	308	307	308	338	346	345	241	254	246	173	202	323
30	263	266	283	276	272	280	307	314	300	297	303	293	296	286	272	276	288	284	273	271	262	255	247	270	283
Avg	276	278	286	296	295	283	283	311	327	330	336	326	312	292	281	273	275	266	172	170	192	243	248	258	290
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**

**April 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	3.1	2.4	1.1	1.8	1.6	1.8	2.4	2.8	3.1	5.1	5.8	7	5	6.3	5.7	5.3	6	4.3	3.4	4.6	5.8	5.6	6.1	5.9	4.2
2	6.1	5	4.4	4.7	4.3	4.6	5.7	7.1	8.4	8.2	6.9	6.5	5.7	6	6.2	5.9	6.3	5	2.2	1.9	2.1	2.8	1.9	2.7	5
3	3.1	3.3	3.4	1.8	2.1	1.8	0.7	0.5	2.4	4.3	4.9	5.6	5.6	6.6	6.3	6	5.7	5.3	4.8	4.9	3.5	3.3	5.3	5.5	4
4	4.6	3.7	3.6	3.7	4.1	5.4	6.5	7.3	8.7	7.9	5.3	7.1	8.1	9.2	8.6	8.5	7.8	7.8	4.7	6.5	8.7	6.9	5.2	4.2	6.4
5	4	4.5	3.9	2.5	1.5	0.7	1.5	2.6	4.6	6	6.5	6.1	6.1	7.2	6.3	6.8	7.6	6.9	3.7	1.3	3.1	2.3	3.9	3	4.3
6	3.7	3.2	2	1.3	1.6	1.2	1	3.5	5.6	6.3	4.3	4.1	3.3	3.2	4.3	3.9	3.8	4.9	4.9	3.5	3.5	4.2	3.7	3.7	3.5
7	4	3.4	2.1	6.2	7.4	7.5	8.1	8	9.7	10.9	9.9	9.9	9.3	8.7	8.4	6.4	6	3.3	2	3.6	3.2	3.2	3.1	2.8	6.1
8	3	2.5	3.7	3.6	2.8	2.5	3.5	5.8	7.4	7.2	8.7	7.9	8.7	7.6	7.7	8	6.8	6.2	3.5	2	1	0.3	0.2	0.8	4.6
9	1.9	1.1	2.1	2.8	3.1	2.3	2.7	3.1	3.4	2.4	2.5	4.2	3.8	4.4	6.1	6.2	6.5	6	5	3.3	2.7	1.8	1.1	1.8	3.4
10	1.4	1.4	1.2	0.5	0.3	1.3	0.7	1	2.7	2.5	4.7	4.6	4.4	5.4	7.1	6.5	6.8	5.8	5.3	5	4.8	4.7	4.4	4.4	3.6
11	5.1	4.9	5.3	5.3	5.8	5.5	6.5	7.2	7.9	8.8	8.6	8.9	8.3	8.9	8.7	7.4	6.3	5.8	5.2	5	6.4	6.8	7.8	8.3	6.9
12	8.4	7.3	6.7	6	5.2	6.4	7.4	5.4	5.8	7.3	7.2	7.8	7.9	9.1	9.4	9.2	9.6	7.5	5	2.9	2.4	3.8	4.1	3.2	6.5
13	0.8	1.5	2.4	3.8	4	3.1	3.4	6	6.4	6.4	5.9	6.6	5.9	5.4	5.5	6.9	6.6	6.1	2.7	1.7	1.3	1.7	1.8	2.1	4.1
14	1.8	3.4	2.8	1.3	0.3	0.7	0.1	0.6	2.2	2.1	3.6	4	3.9	4.9	4.3	5.5	6.5	6.2	5.6	5.1	4.7	5	4.6	2.3	3.4
15	3.6	5.8	5.8	6.7	9.6	10.6	11.5	8.7	11.4	9.2	7	5.6	7	5.6	7.5	9	7.6	8.9	2.7	6	8	8.4	9.3	8.2	7.6
16	12	11	9.1	9.8	10	11.3	10.3	12.9	15.3	15.2	14.6	15.3	15.8	14.4	13.5	14	12.4	11.3	11.7	8.8	6.8	6.7	7.3	8.4	11.6
17	8.9	7.5	9.3	7.7	8.3	7.3	6.1	9.5	11.7	9.9	12.1	9.2	9.3	7.5	9.3	7.7	6.7	4.9	3.8	4.2	5.6	8.6	8.8	7.2	8
18	6.6	6.3	3.8	3	3.9	3.5	4	7.4	8.7	7.6	6.7	5.9	5.5	6.2	6.5	6.1	6.1	6.5	5.2	4.8	5	4.3	3.6	3.9	5.5
19	2.3	0.9	2.1	2.8	3	1.8	1.6	3.5	4.5	4.4	3.6	4	5.1	5.6	4.7	4.9	5.8	5.8	6.3	5.6	3.4	4.1	3	3.2	3.8
20	2.1	1.7	1.8	2.7	2.9	2.8	4	5.5	5.9	6.4	7	6.9	7.4	7.1	6.7	7.3	7.2	7.3	5.1	4.3	2.2	0.6	0.6	0.6	4.4
21	0.6	1	2	1.9	1.4	0.7	1.1	1.9	3	3.5	4.3	4.4	5.1	3.5	3.4	5	5.2	4.6	3.8	2.1	1.7	2.3	1.9	1.1	2.7
22	0.9	0.2	0.8	1.4	0.9	1.5	2.2	3.3	4	3.6	3.6	2.4	3.5	4.6	4.3	6.7	5.3	4.3	3.7	3	3.1	3	2.8	3	3
23	2.7	2.9	3.2	2.7	3	3.4	3.7	4.9	4.9	4.6	5.3	6.6	7.3	8.6	8.3	7.4	6.8	6	6.1	5.7	5.5	6.5	7.7	6.6	5.4
24	5.4	5.5	5	4.4	4.1	5.3	6.7	7.6	8.2	6.6	6.5	6.2	6.2	6.4	7.1	7.2	6.5	5.2	4.3	2.6	3.3	4.2	3.4	3	5.4
25	4	4	2.7	2.5	1.3	2.4	2.8	3.8	4	3.8	4.4	5	6	7.6	8.8	9.5	8	5.5	5	4.8	4.5	4.5	4.6	4.6	4.8
26	4.3	3.1	3.3	2	2.6	4.3	5.2	5.1	4.4	4.7	3.9	3	4.5	4.8	5.1	5.9	5.7	5.3	4.9	4.2	3.2	2.1	4.1	4.9	4.2
27	5.4	5.6	6.1	6.2	5.5	5.4	5.9	6.4	7.7	7.5	8	9.2	9.5	10.1	9.3	8.3	6.9	4.2	4.3	5.7	5.6	5.3	5.1	5.8	6.6
28	4.8	4	1.6	0.8	2	3.5	3.7	4	5	4.2	4	4.8	6.3	4.8	4.7	1.9	3.2	2.9	2.5	3.3	3.2	2.4	2.7	2	3.4
29	2.6	2.9	4.1	4.3	4	2.5	1.4	1.9	3	2.5	3.3	3.4	5.4	6.6	5.9	6.3	5.3	4.1	1.3	0.5	0.4	0.1	1.1	1.3	3.1
30	1.4	1.8	2.6	1.9	2.3	2	3.2	3.2	2.7	5.2	8.2	7.7	7.6	8.3	8.5	8.4	7.5	6.3	4.5	3.8	3.4	2.9	2.5	3.6	4.6
Avg	3.9	3.7	3.6	3.5	3.6	3.8	4.1	5	6.1	6.1	6.2	6.3	6.6	6.8	6.9	6.9	6.6	5.8	4.4	4	3.9	3.9	4.1	3.9	5
S/D	2.6	2.3	2.1	2.2	2.5	2.7	2.9	2.9	3.2	2.9	2.7	2.6	2.5	2.3	2.1	2.1	1.6	1.7	1.9	1.8	2	2.2	2.4	2.2	1.9
S/A	0.65	0.63	0.6	0.63	0.7	0.73	0.7	0.57	0.52	0.47	0.43	0.41	0.38	0.33	0.3	0.3	0.25	0.29	0.42	0.44	0.51	0.56	0.59	0.57	0.37
Min	0.6	0.2	0.8	0.5	0.3	0.7	0.1	0.5	2.2	2.1	2.5	2.4	3.3	3.2	3.4	1.9	3.2	2.9	1.3	0.5	0.4	0.1	0.2	0.6	2.7
Max	12	11	9.3	9.8	10	11.3	11.5	12.9	15.3	15.2	14.6	15.3	15.8	14.4	13.5	14	12.4	11.3	11.7	8.8	8.7	8.6	9.3	8.4	11.6
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: 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**

**April 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	1017	1017	1017	1017	1017	1018	1018	1018	1019	1019	1018	1018	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1015	1015	1017
2	1015	1014	1014	1014	1014	1014	1015	1015	1015	1015	1014	1014	1013	1013	1013	1012	1012	1012	1013	1013	1014	1014	1014	1014	1014
3	1014	1014	1014	1015	1015	1016	1016	1017	1017	1018	1018	1018	1017	1016	1016	1015	1015	1014	1014	1014	1014	1014	1013	1013	1015
4	1012	1011	1010	1009	1008	1007	1007	1006	1005	1005	1005	1003	1002	1001	999	999	999	999	999	1001	1003	1004	1004	1005	1004
5	1005	1005	1005	1006	1006	1007	1008	1008	1009	1009	1009	1008	1008	1007	1007	1006	1007	1008	1008	1009	1010	1010	1010	1010	1008
6	1010	1010	1010	1010	1010	1011	1011	1012	1012	1011	1011	1010	1009	1008	1007	1006	1005	1005	1005	1005	1005	1005	1004	1003	1008
7	1002	1001	1000	999	1000	1001	1001	1002	1003	1004	1005	1006	1006	1006	1007	1007	1007	1008	1009	1011	1012	1013	1013	1013	1006
8	1013	1014	1014	1014	1015	1015	1016	1016	1016	1016	1016	1015	1014	1014	1013	1013	1013	1013	1013	1014	1015	1015	1015	1015	1014
9	1016	1016	1016	1016	1016	1017	1017	1018	1018	1018	1017	1016	1016	1015	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1016
10	1015	1015	1015	1016	1016	1016	1017	1018	1018	1018	1018	1017	1016	1016	1016	1016	1016	1016	1016	1017	1018	1018	1018	1018	1017
11	1018	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1015	1015	1014	1013	1012	1012	1012	1011	1011	1010	1009	1008	1014
12	1006	1005	1004	1004	1004	1004	1004	1003	1003	1003	1004	1003	1003	1003	1002	1002	1002	1003	1004	1005	1006	1007	1007	1009	1004
13	1009	1010	1011	1011	1012	1013	1014	1015	1015	1015	1015	1015	1015	1014	1014	1014	1014	1014	1014	1015	1015	1016	1016	1015	1014
14	1015	1015	1016	1016	1017	1017	1018	1018	1018	1019	1019	1018	1017	1016	1015	1014	1013	1013	1013	1012	1012	1011	1010	1009	1015
15	1007	1006	1005	1003	1002	1001	1000	1000	997	997	995	993	991	989	985	983	982	980	981	982	982	984	985	986	992
16	988	989	990	990	991	992	993	993	992	993	994	994	994	994	994	994	995	996	997	998	998	998	997	997	994
17	997	997	997	997	997	998	999	999	1000	1001	1001	1001	1001	1001	1000	1000	1001	1000	1001	1002	1003	1003	1003	1003	1000
18	1003	1002	1003	1003	1003	1003	1004	1005	1005	1005	1006	1006	1006	1007	1006	1007	1007	1007	1008	1009	1009	1009	1009	1009	1006
19	1009	1008	1008	1008	1008	1008	1009	1010	1010	1011	1011	1010	1010	1010	1010	1010	1010	1011	1012	1012	1013	1013	1013	1013	1010
20	1014	1014	1014	1014	1015	1015	1016	1016	1017	1017	1017	1017	1016	1016	1016	1016	1016	1017	1017	1017	1018	1018	1018	1018	1016
21	1018	1018	1018	1018	1019	1019	1020	1021	1021	1021	1021	1021	1021	1020	1020	1019	1019	1019	1019	1019	1019	1020	1020	1020	1020
22	1020	1020	1020	1020	1020	1020	1021	1021	1022	1022	1022	1022	1022	1022	1021	1021	1021	1021	1021	1021	1022	1022	1022	1022	1021
23	1021	1021	1021	1021	1022	1022	1023	1023	1023	1023	1023	1022	1021	1020	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1020
24	1017	1017	1017	1016	1016	1016	1016	1017	1016	1016	1016	1016	1015	1015	1014	1013	1013	1013	1013	1013	1014	1014	1014	1014	1015
25	1014	1014	1014	1014	1013	1014	1014	1014	1014	1014	1014	1013	1013	1011	1010	1010	1010	1010	1010	1011	1011	1012	1012	1012	1013
26	1012	1012	1012	1013	1013	1014	1015	1016	1016	1017	1017	1017	1017	1016	1015	1014	1014	1013	1013	1013	1013	1013	1013	1012	1014
27	1012	1012	1011	1011	1011	1011	1012	1012	1012	1011	1011	1010	1009	1008	1007	1007	1007	1007	1007	1007	1008	1008	1008	1007	1009
28	1007	1007	1007	1007	1007	1008	1008	1008	1009	1009	1009	1009	1009	1009	1008	1008	1008	1008	1009	1009	1010	1010	1010	1010	1008
29	1009	1009	1009	1009	1010	1011	1012	1012	1012	1013	1013	1012	1012	1011	1011	1010	1010	1011	1011	1012	1013	1013	1013	1013	1011
30	1013	1013	1013	1012	1012	1013	1014	1014	1014	1014	1014	1013	1012	1011	1010	1009	1009	1009	1010	1010	1011	1011	1011	1012	1012
Avg	1011	1011	1011	1011	1011	1011	1012	1012	1012	1012	1012	1012	1011	1011	1010	1010	1009	1010	1010	1010	1011	1011	1011	1011	1011
SD	7	7	7	7	7	7	7	7	7	7	7	7	7	7	8	8	8	8	8	8	8	7	7	7	7
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	
Min	988	989	990	990	991	992	993	993	992	993	994	993	991	989	985	983	982	980	981	982	982	984	985	986	992
Max	1021	1021	1021	1021	1022	1022	1023	1023	1023	1023	1023	1022	1022	1022	1021	1021	1021	1021	1021	1021	1022	1022	1022	1022	1021
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**

**April 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	12.6	12.7	12.9	13.4	13.3	13.3	13.3	13.2	13.3	13.3	13.3	13	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	12.6	12.6	13.3	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.2	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
3	12.7	12.6	12.6	12.6	12.6	12.6	13	13.5	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.3	13.3	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.9
4	12.6	12.6	12.6	12.6	12.6	12.6	12.7	13.2	13.4	13.3	13	13.4	13.3	13.3	13.2	13.2	13.2	12.9	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.9
5	12.6	12.6	12.6	12.6	12.5	12.5	12.9	13.7	13.6	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13.5	13	12.7	12.7	12.7	12.6	12.6	12.6	13	
6	12.6	12.6	12.5	12.5	12.5	12.4	13.2	13.9	13.8	13.7	13.6	13.6	13.6	13.6	13.5	13.5	13.6	13	12.8	12.7	12.7	12.7	12.6	12.6	13.1	
7	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.6	13.3	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.8	13.2	12.8	12.7	12.7	12.7	12.6	12.6	13.1	
8	12.6	12.6	12.5	12.5	12.4	12.4	13.3	13.9	13.9	13.8	13.8	13.7	13.7	13.7	13.7	13.7	13.6	13	12.8	12.7	12.7	12.7	12.6	12.6	13.1	
9	12.6	12.6	12.6	12.5	12.5	12.4	13.1	13.8	13.8	13.7	13.6	13.5	13.6	13.6	13.6	13.6	13.6	13.2	12.8	12.7	12.7	12.7	12.6	12.6	13.1	
10	12.6	12.6	12.6	12.5	12.5	12.5	13	13.8	13.7	13.6	13.5	13.5	13.5	13.5	13.6	13.6	13.6	13.2	12.8	12.7	12.7	12.7	12.7	12.6	13.1	
11	12.6	12.6	12.6	12.6	12.5	12.5	12.8	13.3	13.6	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13	
12	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	13.2	13.2	13.4	13.4	13.4	13.3	13.3	13.3	13.3	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
13	12.6	12.6	12.6	12.6	12.5	12.5	13.2	13.7	13.6	13.6	13.5	13.5	13.5	13.5	13.4	13.4	13.5	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
14	12.6	12.6	12.6	12.6	12.5	12.5	12.6	12.7	12.8	13.7	13.7	13.6	13.6	13.5	13.5	13.6	13.6	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
15	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	12.6	13	12.9	13.1	13.4	13.2	12.9	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.8
16	12.6	12.6	12.5	12.5	12.5	12.5	13.2	13.7	13.7	13.7	13.7	13.7	13.6	13.6	13.6	13.6	13.6	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.1
17	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.6	13.6	13.6	13.6	13.6	13.5	13.5	13.5	13.5	13.5	13	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13
18	12.6	12.6	12.6	12.6	12.5	12.5	13.1	13.7	13.7	13.6	13.6	13.6	13.6	13.7	13.7	13.7	13.6	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.1
19	12.6	12.6	12.6	12.6	12.5	12.5	12.9	13.7	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.6	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.6	13.1
20	12.6	12.6	12.6	12.6	12.5	12.5	13.2	13.7	13.6	13.5	13.5	13.5	13.5	13.4	13.4	13.4	13.4	12.8	12.8	12.7	12.7	12.7	12.6	12.6	13	
21	12.6	12.6	12.5	12.5	12.5	12.5	13.3	13.7	13.5	13.4	13.3	13.3	13.3	13.3	13.2	13.2	13.2	12.8	12.8	12.7	12.7	12.7	12.6	12.6	13	
22	12.6	12.6	12.6	12.5	12.5	12.5	13.2	13.6	13.5	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.2	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
23	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.5	13.4	13.3	13.3	13.2	13.3	13.2	13.2	13.2	13.2	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
24	12.6	12.6	12.6	12.6	12.6	12.6	13	13.4	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
25	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.1	13.2	13.2	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
26	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.4	13.5	13.5	13.4	13.4	13.3	13.3	13.4	13.4	13.3	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13
27	12.7	12.6	12.6	12.6	12.6	12.6	12.7	13	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
28	12.7	12.7	12.6	12.6	12.6	12.6	12.8	13.3	13.3	13.3	13.2	13.3	13.3	13.3	13.2	13.4	13.4	13	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13
29	12.6	12.6	12.6	12.6	12.5	12.5	12.6	13.3	13.4	13.3	13.2	13.3	13.3	13.3	13.3	13.3	13.3	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
30	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.5	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
Avg	12.6	12.6	12.6	12.6	12.5	12.5	12.9	13.4	13.4	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
S D	0	0	0	0	0	0.1	0.3	0.4	0.3	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0	0	0	0	0	0	0	0	0.1
S/A	0	0	0	0	0	0	0.02	0.03	0.02	0.02	0.02	0.02	0.01	0.02	0.01	0.01	0.01	0.01	0	0	0	0	0	0	0	0.01
Min	12.6	12.6	12.5	12.5	12.4	12.4	12.5	12.6	12.6	12.6	12.7	12.6	13	12.9	13.1	13.2	13.1	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.8
Max	12.7	12.7	12.6	12.6	12.6	12.6	13.3	13.9	13.9	13.9	13.9	13.9	13.8	13.8	13.8	13.8	13.8	13.6	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.1
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	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.