

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

**May 2004**

**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	30	190	269	514	568	708	549	316	512	293	249	133	60	8	0	0	0	0	0	4399
2	0	0	0	0	0	8	59	236	342	346	636	830	739	559	159	88 ?	?	62 ?	21	0	0	0	0	0	4085 ?
3	0	0	0	0	0	2	23	43	54 ?	58 ?	68 ?	153	182	131	78	69	52 ?	65	5	0	0	0	0	0	983 ?
4	0	0	0	0	0	41	188	394	610	822	842	951	962	832	884	662	441	210	41	0	0	0	0	0	7878
5	0	0	0	0	0	24	107	84	258	253	304	394	953	826	763	650	413	204	41	0	0	0	0	0	5273
6	0	0	0	0	0	42	203	421	633	809	948	1013	1008	939	804	626	432	215	42	0	0	0	0	0	8135
7	0	0	0	0	0	39	190	398	604	775	905	965	968	902	770	591	390	189	40	0	0	0	0	0	7725
8	0	0	0	0	0	40	180	306	400	739	892	962	964	898	769	589	260	155	39	0	0	0	0	0	7194
9	0	0	0	0	0	23	93	182	496	677	643	918	943	879	749	571	365	176	36	0	0	0	0	0	6751
10	0	0	0	0	0	41	199	406	615	794	925	999	1007	944	813	632	415	188	39	0	0	0	0	0	8016
11	0	0	0	0	0	46	211	420	611	768	902	978	995	949	840	659	451	191	49	0	0	0	0	0	8070
12	0	0	0	0	0	45	202	413	595	730	996	991	850	870	789	530	318	196	38	0	0	0	0	0	7565
13	0	0	0	0	0	55	213	265	476	469	685	814	898	799	755	417	337	187	36	0	0	0	0	0	6407
14	0	0	0	0	0	45	190	383	624	810	897	990	991	921	737	580	327	139	42	0	0	0	0	0	7677
15	0	0	0	0	1	39	206	393	466	664	854	980	1002	931	716	515	425	216	47	0	0	0	0	0	7456
16	0	0	0	0	2	22	155	276	492	620	786	808	942	973	816	639	430	184	14	0	0	0	0	0	7159
17	0	0	0	0	2	56	231	435	529	680	740	859	785	707	589	517	424	129	35	0	0	0	0	0	6720
18	0	0	0	0	3	61	249	426	650	796	857	959	987	936	825	603	375	177	44	0	0	0	0	0	7947
19	0	0	0	0	3	48	192	350	605	773	901	830	805	927	192 ?	95 ?	95	82	17	0	0	0	0	0	5915
20	0	0	0	0	3	33	125	309	383	494	427	460	872	664	706	497	309	158	28	2	0	0	0	0	5471
21	0	0	0	0	2	30	159	335	509	771	867	824	938	630	518	377	345	190	43	0	0	0	0	0	6540
22	0	0	0	0	1	23	215	428	616	774	890	948	945	887	793	169	104	41 ?	8 ?	2	0	0	0	0	6843
23	0	0	0	0	3	63	188	209	368	681	822	945	958	892	759	599	398	133	12	0	0	0	0	0	7030
24	0	0	0	0	3	50	132	366	456	665	865	941	928	916	800	606	405	221	54	2	0	0	0	0	7411
25	0	0	0	0	4	54	211	409	604	754	792	881	924	405	733	451	333	216	54	2	0	0	0	0	6827
26	0	0	0	0	1	47	193	279	489	646	618	937	1001	838	474	570	222	107	26	1	0	0	0	0	6448
27	0	0	0	0	4	46	176	287	582	759	860	995	927	869	688	662	435	244	63	1	0	0	0	0	7598
28	0	0	0	0	2	40	232	298	451	794	831	879	617	797	651	270	388	93	21	2	0	0	0	0	6366
29	0	0	0	0	4	63	235	426	528	788	735	773	1026	880	832	665	465	257	72	1	0	0	0	0	7751
30	0	0	0	0	5	60	132	150	101	250	378	162	465	585	423	306	93	72	40	5	0	0	0	0	3227
31	0	0	0	0	2	28	172	360	471	452	496	618	416	404	432	392	243	161	45	13	0	0	0	0	4707
Avg	0	0	0	0	1	40	176	321	488	645	744	816	849	781	650	479	327	159	36	1	0	0	0	0	6502
S/D	0	0	0	0	2	15	52	105	146	195	213	236	219	202	220	187	122	60	16	3	0	0	0	0	1623
S/A	0	0	0	0	1.13	0.38	0.29	0.33	0.3	0.3	0.29	0.26	0.26	0.34	0.39	0.37	0.38	0.46	2.56	0	0	0	0	0	0.25
Min	0	0	0	0	0	2	23	43	54	58	68	153	182	131	78	69	52	41	5	0	0	0	0	0	983
Max	0	0	0	0	5	63	249	435	650	822	996	1013	1026	973	884	665	465	257	72	13	0	0	0	0	8135
n	0	0	0	0	27	361	372	372	366	360	364	372	372	371	365	357	357	362	353	23	0	0	0	0	5154

Daylight Data Recovery: 0.0% missing; 1.5% exceed the 15% QC threshold -- 5231 total daylight measurements.

Instrument: Eppley PSP    Serial Number: 31256F3    Calibration Factor: 7.561  $\mu\text{V}/\text{W}/\text{m}^2$     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**

**May 2004**

**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	36	237	20	352	218	223	35	2	40	1	1	0	0	0	0	0	0	0	0	1164
2	0	0	0	0	0	0	1	38	63	20	246	440	284	201	0	0	0	1	1	0	0	0	0	0	1296
3	0	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	3
4	0	0	0	0	0	132	508	687	739	827	635	709	715	581	787	741	660	532	202	0	0	0	0	0	8456
5	0	0	0	0	0	22	7	3	30	3	3	44	594	532	697	726	660	467	136	0	0	0	0	0	3923
6	0	0	0	0	0	153	490	697	805	862	896	900	889	866	821	779	725	558	186	0	0	0	0	0	9627
7	0	0	0	0	0	116	410	609	722	777	808	814	818	803	755	685	565	382	123	0	0	0	0	0	8388
8	0	0	0	0	0	71	264	246	204	572	693	711	709	689	652	509	8	93	42	0	0	0	0	0	5463
9	0	0	0	0	0	0	4	2	225	313	211	578	677	642	598	522	412	264	70	0	0	0	0	0	4520
10	0	0	0	0	0	133	450	637	741	804	836	861	881	881	851	788	656	392	137	0	0	0	0	0	9048
11	0	0	0	0	0	152	492	636	613	576	638	694	788	807	770	777	714	396	169	0	0	0	0	0	8223
12	0	0	0	0	0	116	395	560	509	534	784	753	542	624	712	483	318	362	83	0	0	0	0	0	6775
13	0	0	0	0	0	57	156	111	185	33	331	434	509	544	621	298	401	277	45	0	0	0	0	0	4001
14	0	0	0	0	0	87	282	455	600	716	700	808	793	698	618	615	420	180	92	0	0	0	0	0	7063
15	0	0	0	0	0	59	386	412	298	422	616	809	859	815	639	493	623	451	136	0	0	0	0	0	7020
16	0	0	0	0	0	2	173	81	148	286	431	338	547	799	788	749	627	315	0	0	0	0	0	0	5283
17	0	0	0	0	0	152	458	581	297	333	319	393	320	203	181	261	467	85	3	0	0	0	0	0	4053
18	0	0	0	0	0	165	479	639	720	703	678	743	785	769	774	604	419	234	100	0	0	0	0	0	7812
19	0	0	0	0	0	73	245	314	572	654	673	496	418	594	22 ?	0	0	0	0	0	0	0	0	0	4060
20	0	0	0	0	0	0	19	201	88	98	5	25	336	229	338	227	142	37	0	0	0	0	0	0	1746
21	0	0	0	0	0	0	49	125	210	655	641	428	540	239	177	137	174	112	7	0	0	0	0	0	3492
22	0	0	0	0	0	0	304	550	634	671	668	641	602	624	577	19 ?	4	0	0	0	0	0	0	0	5294
23	0	0	0	0	0	82	134	5	34	342	448	603	641	615	564	521	410	107	0	0	0	0	0	0	4505
24	0	0	0	0	0	26	12	211	175	299	507	531	591	720	711	589	488	327	110	0	0	0	0	0	5297
25	0	0	0	0	0	105	337	499	571	555	328	454	528	116	494	272	310	327	107	0	0	0	0	0	5002
26	0	0	0	0	0	72	149	84	227	332	276	685	761	503	29	345	75	14	0	0	0	0	0	0	3551
27	0	0	0	0	0	20	110	268	516	667	557	837	711	640	547	784	587	546	279	0	0	0	0	0	7070
28	0	0	0	0	0	64	320	148	216	674	544	369	163	452	502	49	443	4	0	0	0	0	0	0	3947
29	0	0	0	0	4	188	476	573	262	658	379	360	780	658	828	798	728	597	300	0	0	0	0	0	7589
30	0	0	0	0	2	35	5	3	0	4	6	0 ?	22	102	17	2	0	0	0	0	0	0	0	0	198
31	0	0	0	0	0	0	74	257	192	58	43	82	8	7	28	86	60	29	39	0	0	0	0	0	966
Avg	0	0	0	0	0	68	239	311	353	441	456	502	542	516	487	415	358	229	76	0	0	0	0	0	4995
S D	0	0	0	0	1	59	182	251	256	283	271	284	276	277	306	297	265	202	86	0	0	0	0	0	2681
S/A	0	0	0	0	4.21	0.87	0.76	0.81	0.73	0.64	0.6	0.57	0.51	0.54	0.63	0.72	0.74	0.88	1.13	5.57	0	0	0	0	0.54
Min	0	0	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	3
Max	0	0	0	0	4	188	508	697	805	862	896	900	889	881	851	798	728	597	300	0	0	0	0	0	9627
n	0	0	0	0	27	361	372	372	371	372	371	369	372	372	368	368	370	372	356	23	0	0	0	0	5216

Daylight Data Recovery: 0.0% missing; 0.3% exceed the 15% QC threshold -- 5231 total daylight measurements.

Instrument: Eppley NIP    Serial Number: 25521E6    Calibration Factor: 8.034  $\mu\text{V}/\text{W}/\text{m}^2$     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**

**May 2004**

**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	26	119	230	239	360	460	492	310	458	286	245	133	57	8	0	0	0	0	0	3423
2	0	0	0	0	0	8	59	219	299	331	400	378	436	355	159	69 ?	?	56 ?	21	0	0	0	0	0	2790 ?
3	0	0	0	0	0	2	23	43	47	48 ?	55	153	182	131	78	69	47	61	5	0	0	0	0	0	942
4	0	0	0	0	0	25	71	101	123	146	240	238	252	282	249	166	129	65	20	0	0	0	0	0	2106
5	0	0	0	0	0	25	106	83	234	253	303	344	339	292	183	170	96	75	23	0	0	0	0	0	2526
6	0	0	0	0	0	26	69	92	101	105	107	111	114	123	129	112	86	61	22	0	0	0	0	0	1259
7	0	0	0	0	0	25	77	107	121	134	139	143	143	141	146	135	118	82	27	0	0	0	0	0	1538
8	0	0	0	0	0	30	98	186	232	235	211	216	225	229	219	233	250	130	33	0	0	0	0	0	2528
9	0	0	0	0	0	25	91	175	313	376	395	301	250	266	251	223	169	102	29	0	0	0	0	0	2965
10	0	0	0	0	0	25	75	102	118	124	128	114	105	102	100	89	73	23	0	0	0	0	0	0	1301
11	0	0	0	0	0	27	74	112	179	241	241	236	187	176	190	128	94	68	28	0	0	0	0	0	1980
12	0	0	0	0	0	31	89	138	244	268	238	218	275	261	188	196	154	91	28	0	0	0	0	0	2419
13	0	0	0	0	0	53	163	187	322	411	337	325	341	271	222	209	137	81	28	0	0	0	0	0	3087
14	0	0	0	0	0	29	93	117	163	163	177	143	155	207	175	119	86	62	28	0	0	0	0	0	1717
15	0	0	0	0	?	27	78	155	194	239	208	129	111	122	139	138	91	66	25	0	0	0	0	0	1722
16	0	0	0	0	?	20	85	201	304	281	279	375	322	171	125	106	96	72	12	0	0	0	0	0	2449
17	0	0	0	0	?	28	70	122	244	275	328	363	375	430	358	280	152	85	30	0	0	0	0	0	3139
18	0	0	0	0	?	29	68	87	121	161	160	161	154	160	139	155	137	96	26	0	0	0	0	0	1653
19	0	0	0	0	2	34	102	147	163	173	196	249	303	299	115 ?	55 ?	94	80	16	0	0	0	0	0	2027
20	0	0	0	0	3	33	122	219	307	371	388	400	449	393	365	315	214	139	27	2	0	0	0	0	3747
21	0	0	0	0	2	29	130	251	316	199	228	332	339	352	336	261	240	148	40	0	0	0	0	0	3203
22	0	0	0	0	2 ?	23	95	135	166	204	246	289	320	278	291	156	103	32	8 ?	2	0	0	0	0	2348
23	0	0	0	0	4 ?	50	148	204	329	361	364	317	296	292	272	234	185	91	12	0	0	0	0	0	3159
24	0	0	0	0	4 ?	47	125	245	287	334	285	291	219	162	145	148	120	97	33	1	0	0	0	0	2543
25	0	0	0	0	5 ?	39	103	150	191	231	361	308	295	240	248	209	149	98	34	1	0	0	0	0	2660
26	0	0	0	0	0	34	141	217	288	306	319	193	181	255	370	251	149	89	23	0	0	0	0	0	2815
27	0	0	0	0	5 ?	44	157	160	226	169	301	135	185	229	197	103	120	67	25	1	0	0	0	0	2124
28	0	0	0	0	1	29	134	224	285	216	297	460	428	330	204	229	152	92	21	2	30	0	0	0	3103
29	0	0	0	0	4	36	85	129	319	221	344	377	212	223	113	97	82	61	30	1	0	0	0	0	2335
30	0	0	0	0	5	56	131	149	100	246	372	161	438	467	354	276	87	64	37	4	0	0	0	0	2948
31	0	0	0	0	1	27	147	232	332	373	408	459	370	329	343	257	183	137	40	14 ?	0	0	0	0	3652
Avg	0	0	0	0	1	30	101	159	223	244	275	272	268	259	216	175	131	83	25	1	0	0	0	0	2458
S/D	0	0	0	0	2	11	33	55	83	92	99	111	102	99	88	71	48	27	9	3	0	0	0	0	718
S/A	0	0	0	0	1.3	0.37	0.33	0.35	0.37	0.38	0.36	0.41	0.38	0.38	0.41	0.41	0.37	0.32	0.36	2.84	0	0	0	0	0.29
Min	0	0	0	0	0	2	23	43	47	48	55	111	111	105	78	55	47	32	5	0	0	0	0	0	942
Max	0	0	0	0	5	56	163	251	332	411	460	492	449	467	370	315	250	148	40	14	0	0	0	0	3747
n	0	0	0	0	18	353	372	372	370	368	371	372	372	372	366	366	360	368	353	22	0	0	0	0	5175

Daylight Data Recovery: 0.0% missing; 1.1% exceed the 15% QC threshold -- 5231 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**

**May 2004**

**Dry Bulb Temperature (Tower)**  
**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	17.7	17.4	17.3	17.4	17.6	18	18.9	20.4	21.5	22.4	23.5	24	23.8	24.1	23.5	23	22.5	22.4	21.5	21.3	21.1	20.8	20.6	20	20.9
2	19.7	19.4	19.3	19.1	19.2	19.5	20.1	21.1	22.1	23	24.2	25.1	25.8	25.1	23.7	22.3	19	19.2	20.2	22.2	22.4	22.4	21.8	21.2	21.5
3	19.4	18.8	18.7	18.9	18.9	18.5	18.3	18.6	17.3	13.9	13.5	13.7	14.2	14.7	14.1	14	13.3	11.8	10.8	10.3	10	9.4	8.8	8.4	14.5
4	8.2	8.1	7.8	7.7	7.7	7.9	9	10.8	12.1	13	13.6	14.4	15	15.6	15.7	16.7	16.7	16.6	15.5	13.5	12.8	12.3	12	11.8	12.3
5	12.1	12.1	12	12	11.7	11.6	12.6	13.6	14	15.6	16.7	17.7	20.1	21.2	21.9	22.5	22.6	22.4	21.3	20.1	18.9	17.6	17.3	16.8	16.8
6	16.3	16	15.7	15.2	15.2	14.7	15.5	17.5	19.4	21	22.1	23	23.7	22.9	22.6	22.7	22.4	21.7	19.9	18.2	17.6	17.3	17.3	16.8	18.9
7	16.5	16.4	16.5	16.8	17	17.1	18.5	20.6	22.2	23.8	25.6	27.5	29	30.1	30.9	31	31	30.7	29.4	27.3	25.6	23.6	22.3	21.2	23.8
8	20	19.3	18.9	18.6	18.7	19.1	19.1	18.4	17.7	18.1	18.4	18.3	18.2	18.3	18	17.7	16.7	15.9	15.2	14.6	14.6	14.5	14.3	14.6	17.4
9	14.6	14.8	14.7	14.8	14.7	14.6	15.6	17	18.2	20.6	22.4	24.4	25.6	26.8	27.7	28.6	28.7	28.2	27.2	25.1	24.3	24	23.3	22.4	21.6
10	21.6	20.9	20.4	19.8	19.3	19.1	19.9	21.3	22.9	24.4	25.8	26.4	27.3	28.3	29	29.3	29.5	28.5	26.9	25	23.9	22.8	21.7	20.8	24
11	20.3	19.8	19.4	19	18.6	18.5	19.6	21.1	22.4	23.7	25.2	26.2	27.4	28	28.8	28.9	28.4	27.9	27.1	25	23.8	22.9	22.2	21.9	23.6
12	21.4	20.8	20.3	19.9	19.7	19.8	20.9	22.4	23.5	24.6	26.1	27	27.5	28.1	28.8	28.9	28.1	27.3	25.9	24.7	23.7	22.4	21.9	21.9	24
13	21.4	21	20.5	20.2	19.9	20.1	21.4	22.3	23.1	24	25.3	26.2	25.9	27.2	28.4	28.2	27.5	26.5	24.7	23.5	23.3	23	22.5	22.1	23.7
14	21.8	21.3	21	20.7	20.2	20.1	21	22.4	23.7	24.8	25.6	26.4	27.3	27.9	28.3	28.6	28.4	27.6	26.6	25.2	24.1	23.3	22.6	22.1	24.2
15	21.7	21.3	21	20.6	20.3	20.1	21.1	22.6	23.3	24.4	25.5	26.4	27.4	28.1	28.8	28.7	28.2	27.5	26	24.9	24.1	23.3	22.8	22.3	24.2
16	21.9	21.6	21.3	21.2	20.8	20.4	20.8	22.1	23.3	24.2	25.3	26.6	27.2	28	28.4	28.6	28	26.4	25.3	24.5	23.7	22.9	22.5	21.9	24
17	21.3	20.8	20.3	20.1	19.7	19.7	21.1	22.7	23.8	24.7	26	26.7	27.6	27.9	26.3	25.6	25.9	25.4	24.6	23.8	23.2	22.6	21.9	21.8	23.5
18	21.4	20.9	20.4	20.1	20	19.8	20.7	22.3	23.7	24.8	25.6	26.6	27.5	27.9	28.5	28.7	28.1	26.9	25.9	24.7	23.9	23.4	22.9	22.4	24
19	21.8	21.2	20.8	20.6	20.4	20.5	21.3	22.4	24	25.4	26.6	27.7	28.5	29.2	26.8	22.7	21.9	22.4	22.7	22.6	21.9	21.5	21.5	21.5	23.2
20	21.3	21.1	20.9	20.6	20.2	19.9	20.4	21.6	23	23.7	23.9	23.9	24.3	24.5	24.9	25	24.8	23.4	21.5	20.4	20.3	20	19.7	19.9	22
21	20.1	20.2	20.6	21.1	21.5	21.6	22.3	23.9	24.7	26.2	28.3	29.7	30.7	30.9	31.4	31.6	31.9	31.6	30.6	29.3	27.9	27	26.2	25.5	26.5
22	25.2	24.6	20.9	21	21.1	20.7	21.5	23.5	25.4	26.9	28.2	29.4	30.5	31	32.2	27.8	26	25.6	25.4	25.2	24.7	24.1	23.7	23.5	25.3
23	23.6	23.8	23.9	23.3	22.9	22.7	23.4	23.8	24.5	26	27.2	28.6	29.4	30.3	31.1	31.4	31.3	30.5	26.6	23.8	22.1	22.3	21.9	21.5	25.7
24	21.4	21.3	21.2	21.2	21.1	21.3	21.9	22.9	24.1	24.7	26.1	27.4	28.3	29.3	30.2	30.4	30.2	29.7	28.9	27.6	26.6	25.6	24.8	24.3	25.4
25	23.8	23.3	23	22.9	22.8	22.8	23.5	24.7	26.4	27.9	29.5	30.9	32	31.4	32.2	29.9	31.8	31.3	29.5	27.6	26.9	26.5	26.1	25.9	27.2
26	25.6	25	24.5	24.1	23.8	23.7	24.6	25.7	27.2	28.7	30.2	30.9	32	32.5	32.1	32.4	31.9	31	29.8	28.5	27.8	26.3	20.4	19.7	27.4
27	19.9	19.7	19.6	19.9	19.9	20.1	20.9	21.7	23.6	25.3	26.7	26.8	28	28.8	29.4	30.4	29.9	29.3	28.5	26.6	24.8	24.1	24	24.1	24.7
28	24.4	24.9	25.2	25.3	25.2	24.8	25.5	25.9	26	27.4	28.8	29.6	29.8	30.2	30.7	29.3	29.6	28.6	26.7	25.3	23.5	22.6	22	21.8	26.4
29	21.2	21.8	21	20.1	19.6	19.6	20.7	21.5	22.1	22.7	23.2	23.2	23.5	24	23.7	23.3	23	22.3	21.1	19.9	19.4	19.3	19	18.9	21.4
30	17.9	17	17.3	17.3	17.4	18	19.2	20.5	21	21.8	22.4	21.9	22	24	24	24	23	22.2	22.7	22.3	21.8	21.7	21.5	21.5	20.9
31	21.2	21.2	21.7	22	22	22.3	22.9	24.3	25.8	27.1	27.7	28.4	28.6	28.6	29.1	29.3	29.1	28.9	28.1	27.2	26.4	25.8	25.1	24.5	25.7
Avg	20.2	19.9	19.6	19.4	19.3	19.3	20.1	21.3	22.3	23.4	24.5	25.3	26.1	26.6	26.8	26.5	26.1	25.5	24.4	23.2	22.4	21.8	21.1	20.7	22.7
S D	3.7	3.6	3.5	3.5	3.4	3.4	3.3	3.2	3.4	3.8	4.1	4.3	4.4	4.4	4.7	4.6	4.9	4.9	4.6	4.4	4.1	4	3.8	3.7	3.6
S/A	0.18	0.18	0.18	0.18	0.18	0.18	0.16	0.15	0.15	0.16	0.17	0.17	0.17	0.16	0.17	0.17	0.19	0.19	0.19	0.19	0.18	0.18	0.18	0.18	0.16
Min	8.2	8.1	7.8	7.7	7.7	7.9	9	10.8	12.1	13	13.5	13.7	14.2	14.7	14.1	14	13.3	11.8	10.8	10.3	10	9.4	8.8	8.4	12.3
Max	25.6	25	25.2	25.3	25.2	24.8	25.5	25.9	27.2	28.7	30.2	30.9	32	32.5	32.2	32.4	31.9	31.6	30.6	29.3	27.9	27	26.2	25.9	27.4
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% 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**

**May 2004**

**Relative Humidity (Tower)**  
**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	99.2	100	101.6	103.3	103.8	103.2	101.3	96	90	86.4	80.3	78.2	80.1	76.5	80.9	86.7	91.4	92.4	97.4	98.9	101.1	101.6	103.9	103.4	94.1
2	102.6	102.2	103.4	104.8 ?	?	?	104.9 ?	103.1	99.6	96.3	92.1	88.1	85.9	87.2	95.9	101.9	103	?	104.5 ?	100.5	99.1	99.2	102.1	101.3	98.9 ?
3	101.4	103.4	104	103.2	102.9	104.4 ?	?	?	104.7 ?	?	?	?	?	104.6	104.5	104.1	104.3	104.6	104	101.3	100.9	102.6	104.6	105 ?	103.6 ?
4	?	?	?	?	?	104.4	100.2	87.3	74.1	65.2	62.6	57.6	55.7	55.6	52.8	48.2	49	51.4	62.4	81.9	87.3	91.2	94.1	96.2	72.5 ?
5	96	96.4	96	93	94.5	95.3	93.5	89.1	86.4	77.4	74	72	60.9	55.3	52.2	51.9	51.9	54.9	62	66.3	78.4	94.2	94.1	95.8	78.4
6	98.3	98.3	98.7	100.3	98.9	100.5	97.1	85.8	75.4	62.3	52.7	52.5	51.9	57.2	60.2	61.7	61.4	63.3	75.5	81.5	86.4	89.9	86	91	78.6
7	95.1	98.2	100.8	101.3	100.3	100.1	95.7	86.5	80	77.4	72.2	68.2	63.3	57.2	54	53.9	54	52.7	60.5	68.1	75.6	87.5	95.6	87	78.6
8	86.5	91	92.2	94.4	94.4	92.8	90.4	74.7	78.9	78.2	74.5	75	76	75.9	76.8	78.6	82.7	86.6	91.1	94.8	95.9	96.9	98.1	98.4	86.4
9	98.8	98.9	99.1	99.4	99.2	100.4	99.5	99.1	100.4	95.2	89.2	82.4	78.1	73	74.4	71.2	71.6	71.5	78.1	85.4	88.5	88.7	82.4	80.4	87.7
10	84.4	86.9	90.4	93.4	95.3	95.9	92.5	86	78.8	72.9	69	64.4	56.2	46.7	42.7	44.6	44.1	50.2	58.5	73.9	81	82.8	87.1	91.8	73.7
11	93.5	95.3	97.4	99.5	101	101.2	97.2	91.2	84.5	75.9	70.6	67.4	64	55.3	43.2	39.8	42.3	52.3	59	75.8	83.8	88.2	92.7	92.9	77.7
12	94	96.8	98.6	100.2	102	103	100.9	96.8	92.1	84.8	73.2	66.9	65.1	59.6	56.5	56.9	62.5	69.3	78.3	84	85.5	89.7	94.4	96.9	83.7
13	99.1	101.1	102.4	103.2	104.1	103.9	100.7	97	93.6	88.6	79.4	74.2	77.9	69.4	63.9	66.6	70.8	77.2	83.8	89.4	92.2	94.7	96.9	96.7	88.6
14	95	96.9	97.7	99.1	101.2	102	100	94.4	87.1	78.5	74	68.3	63.7	61.6	60.5	59.2	59.6	64.6	72.4	75.2	78.2	83.7	88.2	88.7	81.2
15	92	95.9	97.7	99.9	100.6	101	98.3	93.2	88.6	80.8	75.1	67.5	60.3	56.9	53.4	55	64.3	64	69.3	78	83.8	88.1	90.5	93.7	81.2
16	95.7	96.6	97.6	98	98.6	100.6	100.2	95.7	87.9	78	72.3	66.8	66.4	57.8	50.6	52.7	58.8	70.9	75.7	77	80.7	87.5	92.8	96.3	81.5
17	98.6	99.9	100.4	101.2	103.1	104.3	100.5	91.3	83.7	77.5	71	67.4	58.7	53.8	69.7	74.8	75.8	76	77.8	82.7	84.3	88.7	94.2	95.5	84.6
18	96.9	99.2	100.8	102.7	103.6	104.4	102.3	95.1	83.3	75	69.9	66.2	61.1	57.7	54	54.8	60.5	69.9	72.1	77.8	79.5	82.4	83.9	85.8	80.8
19	90.5	94.5	95.9	97.9	100	99.9	96.9	92.8	84.7	79.4	74.5	70.7	67.9	64.8	73.7	95.9	99	98.2	98.2	99.1	102.7	104.8	105 ?	104.9	91.3
20	?	?	?	?	?	?	?	101.1 ?	96.5	92.3	92.4	92.1	91.3	90.4	87.6	87.6	88.2	93.9	98.5	101.5	102.3	102.5	103.6	103.8	95.6 ?
21	104.4	104.6	104.8	104.5	104.8 ?	?	104.1 ?	99.8	95.9	90.1	81.8	76	73.5	71.7	70.1	63	63.6	64.6	66	71.2	78.1	85.9	92.9	95.6	85.5
22	96.6	94.4	102.2	103.5	103.2	104.4	103.6 ?	98.1	88.8	82.1	78.5	74.5	69.3	67.1	63.4	86.9	86.3	84	86.6	88.5	90.8	91.8	95.9	99.2	89.2
23	99	96.4	97.9	98.1	98.6	100.4	97.6	96.7	95.5	90.3	85.9	81	76.2	72.5	69.9	68.1	66.5	71.2	81.9	85.9	95.3	93	96.4	98.3	88
24	99.3	99	98.4	99.2	100.2	101.3	100.7	98.5	95.6	93.1	88.5	83.9	80.7	74.6	69.3	67.9	65.1	66.5	70.8	74.8	83.8	95.4	96.1	97.8	87.5
25	98.8	100.4	100.2	99.8	99.3	98.1	95.6	91.8	86.1	80.1	74.3	66.7	61.9	62.7	60.1	74.4	65.5	67	77.8	89.2	93.1	97.2	98.7	98	84.9
26	97.5	97.5	98.9	99.6	99.5	98.9	96	90.5	82.7	75.5	68.6	62.4	53.9	50.9	54.2	51.8	54.4	57.2	62.9	70.8	76.4	85.8	104.1 ?	?	77.8
27	?	?	?	104.8	104.9 ?	?	103.9	101.1	92.1	82.6	76.1	74	68.9	65.9	64.2	54.6	57.9	67.4	66.1	73.6	84.7	86.9	89.3	96.6	80.8 ?
28	93.8	88.9	91.9	90.6	87	86.2	82.4	79.2	78.2	74.3	70.1	67.3	64.5	63.2	59.5	68	61.8	57.5	74.1	76.9	86.1	90.8	91.9	92.1	78.2
29	94.9	91.2	95.5	99.5	101.1	100.6	93	80.1	71.9	68.5	67.6	70.9	68.5	65.7	66.4	67.8	67.7	68.7	71.8	78.1	81.5	80.9	85.9	81.2	80
30	86.2	92.6	85.7	86.7	85.7	82.5	76.9	75.3	68.4	64.4	67.4	75.2	82.7	71.6	75.7	80.8	88.6	96.4	92.2	92.3	95.1	97	98.8	100.7	84.1
31	102.9	104.1	104.5	104.4	104.8	104.2	101.8	98.4	93.8	88.8	85.8	84.3	83	83.1	79.7	75.2	76.6	72.4	74.8	79	81	83.5	86.2	88.1	89.2
Avg	96.1	97.2	98.4	99.5	99.7	99.8	97.5	92.2	87.1	80.4	75.5	72.1	68.9	66.6	65.8	67.9	69.3	71.2	77.6	83	87.5	91.4	94.4	95.1	84.6
S D	4.9	4.4	4.4	4.4	4.8	5.4	6.2	7.6	8.8	9	8.8	8.7	10.3	12.7	14.3	16.6	16.6	14.8	13.4	10.3	8.2	6.5	6.4	6.3	7.1
S/A	0.05	0.04	0.04	0.04	0.05	0.06	0.06	0.08	0.1	0.11	0.12	0.12	0.15	0.19	0.22	0.24	0.24	0.21	0.17	0.12	0.09	0.07	0.07	0.07	0.08
Min	84.4	86.9	85.7	86.7	85.7	82.5	76.9	74.7	68.4	62.3	52.7	52.5	51.9	46.7	42.7	39.8	42.3	50.2	58.5	66.3	75.6	80.9	82.4	80.4	72.5
Max	104.4	104.6	104.8	104.8	104.9	104.4	104.9	103.1	104.7	96.3	92.4	92.1	91.3	104.6	104.5	104.1	104.3	104.6	104.5	101.5	102.7	104.8	105	105	103.6
n	336	336	336	340	324	317	332	353	362	360	360	360	360	370	372	372	372	372	360	365	372	370	359	349	8509

Data Recovery: 0.0% missing; 4.7% 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**

**May 2004**

**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	16.8	16.3	16	16	16.2	16.7	17.5	19.5	21.5	23.8	25.2	26.5	26.7	26.5	26.5	25.7	24.7	23.7	22.5	21.5	21.3	21.1	20.7	20.4	21.4
2	19.8	19.4	19.1	19.1	19.1	19.2	19.5	20.3	21.9	23.6	25	26.8	28.1	28.4	26.8	24.7	22	20	19.8	20.3	21	21.7	21.8	21.4	22
3	20.3	19.2	18.7	18.5	18.5	18.4	18.4	18.5	18.8	17	15.1	14.5	14.6	15	15	14.8	14.6	13.8	12.5	11.4	10.7	9.7	8.8	8.2	15.2
4	7.7	7.4	7.1	6.8	6.6	6.5	7.3	9.5	12.3	14.3	16	17.2	18.2	18.7	19.1	19.8	20.5	20.2	18.5	15.2	12.7	11.5	10.8	10.3	13.1
5	9.9	10.1	10.1	10.1	10.1	10.2	11	12.5	13.4	15.1	16.7	17.9	19.9	22	23.2	24.3	25.1	24.8	23.7	21.4	19.4	17.8	16.7	16.2	16.7
6	15.7	15.3	14.9	14.6	14.3	13.9	14.5	16.7	19.6	22.1	24.4	25.7	26.6	26.6	26.3	26.4	26.5	25.9	24	20.6	18.1	17	16.2	15.8	20.1
7	15.5	15.2	15	15.2	15.5	15.6	16.7	19.6	22.6	25.2	27.5	29.7	31.2	32.2	33.3	34.1	34.4	33.8	32.3	29.3	26.6	24.4	22.6	21.5	24.5
8	20.5	19.5	18.8	18.2	17.9	18.1	19	19.9	19.9	20.4	21.5	22.1	21.9	21.7	21.8	21.8	21.2	19.5	17.8	16	15.1	14.9	14.5	14.5	19
9	14.8	15	14.9	14.9	15	14.6	14.9	16.5	18.7	21.8	24.6	26.7	28.5	29.4	30.5	31.6	32.1	31.6	30	27.5	25.1	23.9	23.3	22.5	22.9
10	21.7	21	20.3	19.7	19.1	18.6	19.2	21.2	23.5	25.8	27.7	29.2	29.4	29.8	30.7	31.7	32.4	31.9	30	26.9	24.6	23.2	22.1	21	25
11	20	19.5	19	18.5	18.1	17.7	18.6	20.8	23	24.9	26.5	28.3	29.3	30	30.9	31.9	31.7	30.9	29.5	27	24.7	23.3	22.1	21.5	24.5
12	21	20.5	19.9	19.4	19.1	19	19.9	22.2	24.5	26.4	28.3	30	30.6	30.8	31.5	32.3	32.1	30.7	29.1	26.6	24.9	23.4	22	21.2	25.2
13	20.9	20.5	20	19.6	19.4	19.3	20.2	22.2	23.8	25.6	27.2	28.7	29.4	29.6	30.9	31.8	31.3	30.4	28.4	25.5	23.7	22.8	22.3	21.7	24.8
14	21.3	20.9	20.5	20.3	19.9	19.4	20.1	22.1	24.5	26.8	28.5	29.6	29.9	30.3	31.2	31.9	31.9	31	29.1	27.1	25	23.6	22.6	21.9	25.4
15	21.3	20.9	20.6	20.1	19.9	19.7	20.3	22.4	24.5	25.9	27.6	28.7	29.3	29.7	30.6	31.3	31.5	31.1	29.5	26.8	24.8	23.6	22.8	22.5	25.2
16	22	21.5	21.1	20.7	20.8	20.3	20.3	21.8	23.6	25.5	27	28.8	30.2	31	31.6	32.2	32.4	31.2	28.4	25.8	24.3	23.2	22.3	21.6	25.3
17	20.8	20.2	19.6	19.3	19	18.8	19.7	22.3	24.9	26.7	28.8	30.5	31.6	32	31.6	29.7	29.3	28.8	26.8	25	23.6	22.7	21.7	20.9	24.8
18	20.6	20	19.5	19.1	19	19	19.8	22.2	24.7	26.8	28.4	29.3	29.9	30.2	31	31.9	32	30.8	28.9	26.4	24.5	23.4	22.8	22.2	25.1
19	21.7	21.2	20.6	20.2	20	19.9	20.6	22.2	24.4	26.7	28.7	30	30.7	31.5	31.4	27.1	23.5	22.1	21.9	22.1	22	21.5	21.2	21.1	23.8
20	21	20.9	20.8	20.6	20.2	19.8	20.1	21.2	23.7	25.9	27.3	27.5	27.8	28.3	29	29.6	29.5	28	25.4	22.9	21.5	20.9	20	19.6	23.8
21	19.9	20.2	20.4	20.7	21.2	21.5	22	23.8	26	28.3	31.1	33.2	34.5	35	34.8	35.3	35.1	34.7	33.4	31.2	29.2	27.6	26.6	25.8	28
22	25.2	25	23.9	21.8	21.1	20.8	20.9	22.8	26.2	29.4	31.5	33.2	34.4	35	36	35.8	30.8	28.2	26.7	25.9	25.2	24.6	23.9	23.5	27.2
23	23.2	23.2	23.3	23.3	22.9	22.6	23.3	24.4	25.2	26.8	29	30.8	32	32.6	33.6	34.5	34.8	34.1	31.5	27.7	24.3	22.4	22.2	22	27.1
24	21.7	21.4	21.1	21	20.9	21	21.6	22.9	25.1	26.5	28.2	29.9	31.1	31.7	32.6	33.5	33.5	32.7	31.5	29.5	27.6	26.3	25.5	24.7	26.7
25	24.1	23.5	23	22.7	22.5	22.4	23.3	25.2	27.5	30.1	32.4	34.7	36.1	36.3	35.6	35.6	35.1	34.9	33.7	30.7	28.2	26.9	26.1	25.8	29
26	25.7	25.2	24.6	24.1	23.6	23.3	24.1	25.7	27.4	29.8	32.4	33.5	34.8	35.4	35.6	35.4	35.1	33.7	32.1	30.2	28.6	27.8	24.8	21.9	28.9
27	20.6	20.1	19.8	19.7	19.7	19.8	20.3	21.3	23.8	26.9	29.9	31.5	31.5	31.7	32.5	33.4	34	33.5	32.5	29.6	26.1	23.9	23	23.1	26.2
28	23.4	23.8	24.4	24.8	25	24.9	25.2	26.7	27.5	28.6	30.5	31.8	32.5	32.6	33.1	32.7	32.1	31.8	29.6	27.5	25.5	23.6	22.3	21.6	27.6
29	21.1	20.9	20.9	20.2	19.4	18.8	19.8	21.9	23.7	25.1	26.2	26.9	27.2	27.5	27.9	28	27.8	27.1	25.3	22.4	20	18.9	18.4	18	23.1
30	17.6	16.2	15.4	15.4	15.4	15.8	17.1	19.1	20.7	21.8	23.1	24.1	22.4	24.3	26	26.5	26	23.7	22.5	22.5	22.1	21.9	21.6	21.3	20.9
31	21.2	21	21.1	21.7	22	22.2	22.8	24.6	27	28.5	29.7	30.5	31.1	31.1	31.2	31.5	31.3	30.8	29.9	28.7	27.5	26.5	25.7	25	26.8
Avg	19.9	19.5	19.2	18.9	18.7	18.6	19.3	21	23	24.9	26.7	28	28.7	29.3	29.7	29.9	29.5	28.6	27	24.9	23.2	22.1	21.2	20.6	23.9
S D	3.9	3.9	3.9	3.8	3.7	3.7	3.6	3.6	3.6	3.9	4.4	4.7	4.9	4.8	4.8	5	5.1	5.3	5.1	4.7	4.4	4.2	4.1	4	3.8
S/A	0.2	0.2	0.2	0.2	0.2	0.2	0.19	0.17	0.16	0.16	0.16	0.17	0.17	0.16	0.16	0.17	0.17	0.18	0.19	0.19	0.19	0.19	0.19	0.19	0.16
Min	7.7	7.4	7.1	6.8	6.6	6.5	7.3	9.5	12.3	14.3	15.1	14.5	14.6	15	15	14.8	14.6	13.8	12.5	11.4	10.7	9.7	8.8	8.2	13.1
Max	25.7	25.2	24.6	24.8	25	24.9	25.2	26.7	27.5	30.1	32.4	34.7	36.1	36.3	36	35.8	35.1	34.9	33.7	31.2	29.2	27.8	26.6	25.8	29
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% 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**

**May 2004**

**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	1.3	1	0.9	0.8	1.1	1.5	1.9	2.8	3.8	4.7	4.4	4.3	3.7	4.4	4.6	5.1	5	4.8	3.7	3.1	2.8	3.9	3.8	3.6	3.2
2	3.2	2.4	2.4	1.9	1.9	1.7	2.4	3.6	4.2	4.7	4.4	5.2	5.8	6.7	4.5	4	3.9	3.2	3.2	5	5.3	5.7	4.2	3.4	3.9
3	1.7	1.5	1.9	2.1	2.1	2.2	2.5	1.3	1.7	3.2	2.9	3	2.6	1.5	2.2	1.9	2.4	2.8	2.7	3	1.9	1.3	1.5	1.4	2.1
4	0.5	0.2	0.6	0.5	0.4	0.3	0.4	1.9	4.3	3.4	2.8	1.9	2.2	2.3	3.4	2.2	2.2	2	1.1	1.4	1.3	1.6	1.4	1.1	1.6
5	1.6	1.4	1.7	1.7	2	1.6	1.9	2.5	2.5	2.5	3	2.5	3.9	4.9	5	4.2	4.1	2.9	2	1.4	1.7	1.8	2.5	2.8	2.6
6	2.3	2	2.4	2	1.9	1.7	1.7	2.3	2.8	2.6	3.2	2.7	2.8	3.7	3.5	3.1	3	2.3	2.2	2.1	2.6	1.9	1.7	1.9	2.4
7	1.4	1	1.4	1.9	1.4	1.2	1.8	2.5	2.9	2.8	2.4	2.1	2.3	2.7	2.9	2.9	2.8	2.3	0.9	0.7	0.9	0.4	0.7	2.9	1.9
8	2.3	2.3	1.9	2	2.2	2.7	3.5	5	4.8	5	4.7	5	4.4	4.5	5	4.7	4.3	3.8	2.9	2.4	2	1.8	1.9	1.4	3.4
9	1.2	0.1	0.2	0.8	0.4	0.5	0.5	0.8	1.5	2.4	1.8	2.2	2.6	3	3.3	2.8	2.9	2.3	1.4	2.2	2	2.7	2.7	2.9	1.8
10	3.2	2.9	3.1	2.6	1.9	2.3	3.1	3.5	3.4	3.6	3.2	4	3.3	3.4	3.6	3.7	2.9	2.4	1.5	2.3	2.9	3.4	3.5	2.9	3
11	3	3	2.8	2.3	2.1	2.1	2.9	3.9	4.6	4.7	3.7	3.8	3.5	4	4.1	3.9	4	2.4	1.3	2.4	2.8	2.4	2.7	2.8	3.1
12	2.6	2.4	2	1.9	2.1	2.1	2.6	3.6	3.9	3.9	3.9	3.8	3.3	3.9	3.7	3.3	3.6	3.6	2.9	3.1	2.7	1.5	1.6	2.1	2.9
13	1.5	1.5	1.4	1.4	1.2	1.3	2	2.3	3.1	2.9	2.9	3.2	4.1	2.9	2.9	2.9	3.4	3.7	3.3	1.9	1.8	2.1	1.9	2	2.4
14	2	1.9	1.8	1.9	1.5	1.3	2.5	3.4	3.8	4	3.3	3.9	3.8	3.8	3.6	3.6	3	2.4	2.1	2.8	2.7	2.4	2.6	2.6	2.8
15	2.6	2.6	2.1	2	2.6	2	2.5	3.3	4.3	3.8	3.9	4.3	4.6	4.4	4	3.9	3.9	3.8	3.5	2.7	3.1	3	3.6	3.3	3.3
16	2.8	2.4	2.1	2.5	2.4	1.5	1.8	3	3.7	3.8	2.9	2.7	2.7	3.1	3.3	3.2	3.1	3.9	2.7	3	2.5	2.2	1.8	1.4	2.7
17	1.2	0.9	1.1	1.2	0.8	0.6	1.6	2.6	2.8	2	1.9	1.8	1.7	2.2	4.8	4.8	4.2	3.1	2.9	2.4	2.5	1.7	1.2	1.7	2.2
18	1.2	1	0.8	0.9	1.3	1.3	1.6	2.7	3.7	3.9	3.6	3.3	4	4.5	3.9	3.9	4	4.1	3.5	2.2	2.4	2.6	3	3.5	2.8
19	3.2	2.9	2.8	2.7	2.7	2.8	3.5	4.1	4.5	4.1	4.2	4.2	4.3	4.3	3.3	1.6	3.2	1.1	1.8	1.1	0.7	0.6	0.9	0.9	2.7
20	0.7	1.6	1.7	0.7	0.1	0	0.2	0.5	1.4	1.8	2.3	2.3	2.9	2.4	2.2	2.3	1.9	2.6	2.6	2.6	2	1.8	1.1	1.2	1.6
21	1.7	1.9	1.3	1.4	1.5	1.7	1.7	1.6	2.2	1.9	1.4	1.6	2	2.3	2.6	2.6	2.2	2.2	1.8	1.1	0.8	0.7	1.1	1	1.7
22	1.5	3.8	3.4	1.6	1.1	1.6	2.3	2.2	2	2	2.1	1.9	1.8	2	1.4	4.4	3	1.6	0.6	1.9	1.9	1.2	1.9	1.5	2
23	2.2	2.5	2.4	2.7	2.6	2.7	3.3	3.6	3.6	4.1	4	4.2	4.3	4.3	3.8	3.9	3.9	3.5	5.7	5.2	3.7	3	3	3.1	3.5
24	2.8	3	3.2	3	3.1	3.1	4	4	4	4.6	4.1	4.1	4	4.4	4.3	4.4	5.2	4.6	2.8	2.3	2.3	3.2	3.5	2.9	3.6
25	2.3	2.2	2.2	2	2.1	2.6	3.2	3.4	3.1	2.4	1.8	1.8	2	2.4	2.9	2.7	2.6	2.1	2.3	2.4	1.7	1.7	1.8	1.9	2.3
26	1.7	1.6	1.4	1.2	1.2	1.4	2.3	3.3	3.6	2.9	2.9	2.3	3.4	3.6	3.5	4.3	3.2	1.9	1.5	0.8	1	2.8	3.8	1	2.4
27	0.3	0.4	1.7	1.7	1.6	1.8	2.6	3.1	2.2	1.3	1.3	2.3	3	3.1	2.5	3.1	2.9	1.1	0.8	0.1	0.1	0.4	1.2	1.4	1.7
28	1.4	1.6	2	2.8	3.1	2.9	3.9	5.1	4.9	5.1	5.5	5.3	5.8	5	5.2	3.2	4	3.9	2.9	3.1	1.9	1.4	1.3	1.5	3.5
29	1.7	1.9	1.7	0.8	0.7	1.1	2.8	3.7	3.3	3.7	3.3	3.2	3.2	2.8	3.4	3.5	3	2.7	2.8	2.2	2.7	2.6	2.4	1.7	2.5
30	0.5	0.4	1	0.5	0.7	0.6	1.3	2.1	2.2	2.4	3.5	2.4	2.4	4	3.7	3.2	2.6	1.6	2.3	2.8	2.7	2.8	2.2	1.7	2.1
31	1.1	1.2	2	1.2	1.6	2.3	1.8	2	3	2.6	4.4	4.5	3.9	4.2	4.5	5.7	4.3	4.3	4	3.3	3.2	3.4	3.5	3.1	3.1
Avg	1.8	1.8	1.8	1.7	1.7	1.7	2.3	2.9	3.3	3.3	3.2	3.2	3.4	3.6	3.6	3.5	3.4	2.9	2.4	2.4	2.2	2.2	2.3	2.2	2.6
S D	0.8	0.9	0.8	0.7	0.8	0.8	0.9	1.1	1	1	1	1.1	1.1	1.1	0.9	0.9	0.8	1	1.1	1.1	1	1.1	1	0.9	0.6
S/A	0.46	0.51	0.41	0.42	0.48	0.47	0.42	0.37	0.3	0.31	0.32	0.34	0.31	0.31	0.25	0.27	0.24	0.35	0.44	0.46	0.45	0.5	0.44	0.4	0.25
Min	0.3	0.1	0.2	0.5	0.1	0	0.2	0.5	1.4	1.3	1.3	1.6	1.7	1.5	1.4	1.6	1.9	1.1	0.6	0.1	0.1	0.4	0.7	0.9	1.6
Max	3.2	3.8	3.4	3	3.1	3.1	4	5.1	4.9	5.1	5.5	5.3	5.8	6.7	5.2	5.7	5.2	4.8	5.7	5.2	5.3	5.7	4.2	3.6	3.9
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% 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.

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

**May 2004**

**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	167	174	168	176	166	160	174	178	174	172	171	176	165	169	151	135	142	162	164	159	151	149	136	171	161
2	198	192	185	186	188	196	202	203	212	214	199	192	183	201	195	201	211	158	140	171	183	189	196	212	193
3	193	171	168	184	191	189	189	197	2	37	27	50	68	34	344	338	320	313	298	306	306	290	294	292	321
4	280	269	282	282	291	294	300	339	0	3	342	339	274	265	235	266	234	251	159	103	123	134	142	156	293
5	189	212	206	204	213	206	205	216	208	202	201	203	211	225	221	221	228	230	216	212	172	180	192	197	210
6	205	217	229	245	266	276	298	345	32	42	76	79	79	114	127	130	131	123	114	120	130	153	160	170	125
7	172	175	186	197	195	198	204	219	235	238	238	227	221	226	232	224	228	242	238	238	344	56	359	47	222
8	60	65	55	74	61	25	32	55	64	65	63	57	53	57	62	62	61	59	57	47	53	39	37	28	56
9	358	18	332	337	288	260	292	301	255	262	217	173	196	210	186	214	202	221	175	165	181	200	201	212	209
10	223	225	226	229	223	226	234	236	243	233	216	232	231	223	219	209	196	205	210	191	198	206	210	207	220
11	218	223	224	220	225	226	229	242	242	230	227	220	221	208	214	223	236	231	165	178	186	194	199	200	219
12	202	203	217	211	215	210	215	231	224	223	214	214	204	189	196	196	200	195	186	183	214	205	208	204	207
13	211	203	200	206	206	203	208	218	226	235	228	234	228	208	207	182	150	131	170	173	178	186	189	195	199
14	206	210	207	215	214	209	219	222	227	222	214	210	209	202	201	204	201	190	186	176	174	185	188	199	205
15	205	207	211	214	226	216	228	230	242	240	231	230	218	225	211	204	192	189	193	189	191	195	201	205	213
16	205	214	202	220	235	219	203	235	246	236	238	221	193	187	173	188	162	134	148	166	167	167	169	196	197
17	214	217	217	203	209	210	208	234	236	237	218	179	218	180	138	135	134	144	154	156	163	174	185	183	177
18	194	202	189	213	221	232	226	245	224	226	221	210	208	179	191	188	188	178	191	191	189	192	200	206	202
19	213	220	214	214	215	209	216	227	232	225	222	228	218	221	251	306	246	183	218	197	193	213	201	212	223
20	244	246	256	265	270	298	307	316	46	43	58	45	21	27	39	61	34	70	70	82	100	54	75	112	52
21	126	111	113	132	166	170	165	222	245	260	273	227	191	219	203	181	217	221	233	220	200	208	211	223	201
22	208	278	337	34	53	209	222	218	221	253	264	255	265	239	236	131	159	189	250	139	152	205	199	170	216
23	195	205	213	213	213	214	223	228	240	244	237	223	225	232	222	218	228	209	211	222	268	201	216	227	223
24	221	224	216	215	222	230	232	228	231	221	207	204	201	206	209	217	229	230	220	213	204	199	202	215	217
25	209	217	219	213	227	230	240	243	264	255	245	224	217	257	229	89	210	189	166	169	176	187	200	203	217
26	209	215	211	211	214	222	228	241	264	261	278	293	265	261	249	254	260	248	220	211	202	273	318	230	253
27	70	245	241	259	263	270	276	277	291	285	266	235	265	254	248	286	268	349	270	232	76	98	150	146	264
28	163	162	164	199	217	215	220	230	243	240	254	256	264	253	263	295	276	291	309	299	288	278	280	272	252
29	257	276	299	294	304	322	4	10	20	1	12	33	43	51	57	71	73	83	86	83	80	86	98	112	43
30	176	167	157	131	107	106	110	130	130	125	140	139	134	172	182	184	183	166	164	167	178	178	185	201	160
31	210	201	198	220	198	216	214	205	206	203	228	226	203	215	214	237	245	249	242	242	249	265	270	272	230
Avg	203	212	213	212	215	218	223	232	238	234	224	215	213	210	204	196	204	193	185	181	183	190	198	201	210
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% 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**

**May 2004**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	2	1.7	1.5	1.5	1.7	2.4	2.9	4.6	6	6.9	6.5	6.7	5.6	7	6.9	7.5	7.4	7.5	5.5	4.9	4.4	5.9	5.9	5.6	4.9
2	5.3	4.2	4.3	3.3	3.7	3.2	3.9	6	6.7	6.9	6.8	7.8	9.1	10.5	6.6	6.1	6.3	5	5	7.8	9	9.1	6.3	5.6	6.2
3	3.2	3	3.4	4	4	4.1	4.3	2.8	3	5.4	4.8	4.9	4.1	3	4	3.9	4.9	5.2	6	6.2	4.4	3.3	3.8	3.3	4.1
4	1.5	0.8	1.8	1.7	1.3	1.2	1.5	4	6.7	5.6	4.9	3.9	4.1	4.4	5.5	3.8	3.7	3.3	2.1	2.3	2.1	2.2	2	1.6	3
5	2.4	1.9	2.4	2.5	3	2.4	2.7	3.7	3.7	3.9	4.7	4	5.9	7.5	7.7	6.1	6.3	4.6	2.9	2.1	2.5	2.8	3.6	4	3.9
6	3.1	3	3.4	2.8	2.8	2.7	3.2	3.8	4.3	4.1	4.6	4.2	4.2	5	5.1	5.1	4.1	3.3	3.3	3	3.5	2.8	2.5	2.8	3.6
7	2.1	1.6	2.4	2.7	2.3	1.9	2.7	3.9	4.4	4.1	3.8	3.6	3.8	4.4	4.5	4.4	4.1	3.6	1.5	0.9	1.5	0.8	1.5	4.9	3
8	3.5	3.3	3	2.8	3.3	4.1	5.6	7.9	7.6	8.1	7.2	7.6	7	7.2	7.9	7.1	6.5	6	4.6	3.8	3.2	2.9	3.3	2.4	5.3
9	1.9	0.4	0.7	1.7	0.8	1.1	1.1	1.7	2.6	4.2	2.9	3.4	4.1	4.4	5	4.2	4.3	3.5	2.3	3.2	3.2	4.1	4	4.5	2.9
10	4.7	4.3	4.4	3.6	2.9	3.3	4.7	5	5.1	5.3	4.7	6.1	5.2	5.4	5.3	5.8	4.8	3.8	2.4	3.6	4.5	5	5	4.2	4.6
11	4.6	4.3	4.1	3.6	3	3	4.4	5.9	6.7	7.1	5.7	5.7	5.5	6.2	5.9	6.2	5.8	3.5	2	4.1	4.5	3.7	4	4.5	4.7
12	4.3	3.7	3.1	2.8	3.2	3	4.1	5.4	5.8	5.7	5.9	5.8	5.2	5.9	5.9	5.2	5.8	5.8	4.6	5	4	2.3	2.4	3.1	4.5
13	2.3	2.3	2.1	2.1	1.7	1.9	3	3.6	4.5	4.5	4.6	5.2	6	4.9	4.5	4.7	5.1	5.1	5	3	2.9	3.5	3.3	3.1	3.7
14	3	2.8	2.6	2.7	2.3	1.9	3.8	5.2	6	6.2	5.2	6.1	6	5.9	5.9	5.6	4.7	3.7	3.4	4.4	4.2	4.1	4.1	4.1	4.3
15	3.9	4.1	3.4	3	3.8	3.2	3.8	5.4	6.2	5.8	6	6.6	6.7	6.9	6	6	6.3	6.1	5.4	4.4	5.1	4.6	5.6	4.8	5.1
16	4.4	3.9	3.1	3.7	3.5	2.3	2.8	4.6	5.6	5.5	5	4.4	4.5	5	5.3	5.1	4.9	5.7	4	4.6	3.9	3.5	2.8	2.2	4.2
17	1.8	1.5	1.7	1.8	1.2	1	2.4	3.8	4	3.5	3.5	3.2	2.9	3.7	6.8	6.8	6.2	4.5	4.5	3.8	3.7	2.7	2.2	2.8	3.3
18	2.1	1.6	1.5	1.4	1.9	1.9	2.5	4	5.5	5.7	5.5	5	6.3	6.8	6.2	7	6.5	6.8	5.7	3.7	3.9	4.1	4.8	5.3	4.4
19	5	4.4	4.2	4.1	4.1	4.1	5.4	6.4	7.2	6.4	6.5	6.7	6.8	6.7	5.4	3.2	5.2	1.9	2.5	2	1.5	1.2	1.7	1.5	4.3
20	1.1	2.5	2.7	1.4	0.3	0.3	0.8	1.4	2.5	3	3.4	3.5	4.5	3.7	3.8	3.4	3.2	4	4	3.9	3.1	2.9	1.9	1.9	2.6
21	2.6	2.8	1.9	2.1	2.4	2.8	2.9	2.8	3.5	3.3	2.9	2.9	3.5	3.7	4.2	4.2	3.9	3.5	2.9	1.7	1.6	1.4	1.8	1.6	2.8
22	2.4	7.3	6	3	1.9	2.7	3.8	3.9	3.6	3.7	4.1	3.6	3.8	3.7	3	7.3	5	2.7	1.4	3.1	3.1	2	3	2.7	3.6
23	3.8	4.1	3.8	4.5	3.9	4.4	5.6	5.5	5.8	6.5	6.6	6.6	7	6.9	6.4	6.2	6.4	6.1	9.7	8.4	6.4	5.3	4.7	4.8	5.8
24	4.5	4.7	5.1	4.7	5.1	4.8	6.5	6.3	6.6	7.2	6.6	7.1	7	7.5	7.1	7.2	9	8.1	4.8	3.7	4	5.1	5.8	4.9	6
25	3.9	3.6	3.4	3.4	3.1	3.9	5	5.6	5.5	4.3	3.2	3.4	3.6	4.3	5.1	4.4	4.4	3.7	4	3.8	3.3	3.2	3.2	3.5	3.9
26	3	2.6	2.4	2	2.1	2.3	3.6	5.4	6.4	5.3	5.9	4.7	6.4	6.8	6.2	6.8	5.7	3.3	2.7	1.6	1.9	5.6	7	2.4	4.2
27	0.9	0.9	2.8	3	3.1	3.4	4.9	5.9	4.4	2.8	2.8	4	5.6	5.8	4.5	6	5.3	2.6	1.8	0.5	0.4	0.9	1.9	2.2	3.2
28	2.4	2.7	3.4	5.1	5.4	4.8	6.6	8.4	8	8.4	9.2	9.3	10.6	8.3	8.7	6.8	7.8	7.7	6.1	6.5	3.6	2.6	2.4	2.6	6.1
29	2.5	3.1	3.3	2	1.6	2.2	5	6.4	6	6.1	5.9	6	5.5	5.1	5.7	5.9	5.1	4.5	4.5	3.5	4.6	4.4	3.6	3	4.4
30	0.9	1	1.5	0.9	1.2	1.1	2.2	3.4	3.7	3.8	5.5	4.3	4.1	7.2	6.6	6.1	4.4	3	4.2	4.9	5	5.2	4.3	3.1	3.6
31	2	2.2	3.5	2.3	3	3.8	3.3	3.5	4.9	4.4	7.2	7.5	6.8	7.2	7.7	9.2	7.4	7.5	6.8	5.6	5.4	5.8	5.9	5.7	5.4
Avg	2.9	2.9	3	2.8	2.7	2.8	3.7	4.7	5.2	5.3	5.2	5.3	5.5	5.8	5.8	5.7	5.5	4.7	4	3.9	3.7	3.6	3.7	3.5	4.3
SD	1.2	1.4	1.2	1.1	1.2	1.2	1.4	1.6	1.5	1.5	1.5	1.6	1.7	1.7	1.3	1.4	1.3	1.7	1.8	1.8	1.6	1.8	1.5	1.3	1
S/A	0.42	0.49	0.38	0.38	0.45	0.43	0.39	0.34	0.28	0.28	0.29	0.31	0.3	0.29	0.23	0.24	0.24	0.35	0.45	0.47	0.44	0.48	0.42	0.37	0.24
Min	0.9	0.4	0.7	0.9	0.3	0.3	0.8	1.4	2.5	2.8	2.8	2.9	2.9	3	3	3.2	3.2	1.9	1.4	0.5	0.4	0.8	1.5	1.5	2.6
Max	5.3	7.3	6	5.1	5.4	4.8	6.6	8.4	8	8.4	9.2	9.3	10.6	10.5	8.7	9.2	9	8.1	9.7	8.4	9	9.1	7	5.7	6.2
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% 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**

**May 2004**

**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	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1019	1019	1018	1017	1017	1016	1016	1016	1016	1016	1015	1015	1014	1018
2	1014	1014	1013	1013	1013	1013	1013	1014	1014	1014	1014	1013	1012	1012	1012	1012	1012	1011	1011	1011	1012	1012	1012	1012	1013
3	1011	1011	1010	1010	1010	1010	1011	1011	1011	1011	1011	1010	1009	1009	1008	1008	1009	1009	1011	1012	1013	1013	1013	1014	1011
4	1014	1014	1014	1015	1016	1017	1018	1018	1018	1019	1019	1018	1018	1018	1017	1017	1016	1016	1017	1017	1018	1017	1017	1017	1017
5	1017	1017	1017	1016	1017	1017	1017	1017	1017	1017	1017	1016	1015	1014	1013	1013	1012	1013	1013	1013	1014	1014	1014	1014	1015
6	1014	1014	1014	1014	1015	1016	1017	1017	1018	1019	1019	1019	1019	1018	1018	1017	1017	1017	1018	1018	1018	1018	1018	1018	1017
7	1018	1018	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018	1017	1017	1016	1016	1016	1016	1016	1016	1017	1017	1017	1018	1017
8	1018	1018	1018	1019	1019	1020	1021	1022	1023	1023	1024	1024	1024	1024	1024	1023	1023	1022	1022	1022	1022	1022	1022	1022	1022
9	1021	1020	1020	1020	1020	1021	1021	1022	1022	1022	1021	1021	1020	1019	1019	1018	1018	1018	1018	1018	1018	1019	1019	1019	1020
10	1019	1018	1019	1019	1020	1020	1021	1021	1021	1021	1021	1021	1020	1020	1019	1019	1019	1019	1019	1019	1020	1020	1020	1021	1020
11	1020	1020	1020	1020	1021	1021	1021	1022	1022	1022	1021	1021	1021	1021	1020	1020	1020	1020	1020	1020	1021	1021	1022	1022	1021
12	1022	1022	1022	1022	1022	1023	1023	1024	1024	1024	1023	1023	1022	1022	1021	1020	1020	1020	1021	1021	1022	1022	1022	1022	1022
13	1022	1022	1022	1022	1022	1022	1023	1023	1024	1024	1023	1023	1023	1022	1022	1021	1021	1021	1021	1021	1021	1022	1022	1022	1022
14	1022	1022	1022	1022	1022	1023	1023	1024	1024	1024	1024	1023	1023	1022	1022	1021	1021	1021	1021	1021	1021	1021	1022	1022	1022
15	1022	1022	1022	1022	1022	1023	1023	1023	1023	1023	1023	1023	1022	1021	1021	1020	1020	1020	1020	1021	1021	1022	1022	1023	1022
16	1023	1022	1022	1023	1023	1024	1024	1024	1025	1025	1025	1024	1024	1023	1023	1022	1022	1022	1023	1023	1024	1024	1024	1025	1023
17	1025	1025	1025	1025	1025	1025	1026	1027	1027	1027	1027	1027	1026	1026	1025	1025	1025	1024	1024	1025	1025	1025	1025	1025	1025
18	1025	1024	1024	1024	1024	1025	1025	1025	1025	1025	1025	1024	1023	1022	1021	1020	1020	1020	1020	1020	1020	1021	1021	1020	1023
19	1020	1020	1020	1019	1019	1019	1019	1020	1020	1019	1019	1019	1018	1018	1017	1017	1017	1017	1017	1018	1018	1019	1019	1019	1019
20	1018	1018	1018	1018	1019	1019	1020	1020	1020	1021	1021	1022	1021	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020
21	1020	1019	1018	1018	1018	1018	1018	1019	1019	1018	1018	1017	1016	1016	1015	1015	1014	1014	1014	1014	1014	1015	1014	1014	1016
22	1014	1014	1015	1014	1013	1013	1014	1014	1015	1015	1015	1015	1014	1014	1013	1013	1012	1012	1012	1013	1013	1013	1014	1013	1014
23	1013	1012	1012	1012	1012	1013	1013	1013	1014	1014	1014	1014	1013	1013	1012	1012	1011	1011	1011	1011	1012	1012	1013	1013	1012
24	1012	1012	1012	1012	1013	1013	1014	1014	1014	1014	1013	1013	1012	1012	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1012
25	1011	1011	1011	1011	1011	1011	1011	1012	1012	1011	1011	1011	1011	1010	1010	1009	1009	1009	1009	1009	1009	1009	1009	1009	1010
26	1009	1008	1008	1008	1008	1008	1008	1008	1008	1007	1007	1007	1007	1006	1005	1005	1005	1005	1005	1005	1005	1005	1005	1006	1007
27	1005	1005	1004	1004	1005	1006	1007	1008	1007	1007	1007	1007	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006
28	1005	1005	1004	1003	1003	1003	1003	1003	1003	1003	1003	1003	1003	1002	1002	1003	1003	1004	1005	1006	1006	1007	1007	1007	1004
29	1008	1007	1008	1008	1009	1010	1011	1012	1013	1013	1013	1014	1014	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1013
30	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1014	1013	1012	1012	1012	1011	1011	1010	1011	1011	1010	1010	1013
31	1009	1008	1007	1007	1007	1006	1006	1006	1005	1005	1004	1003	1002	1001	1000	1000	1000	1000	1001	1001	1002	1002	1003	1003	1004
Avg	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1017	1016	1016	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016
S/D	6	6	6	6	6	6	6	6	6	6	6	6	6	7	6	6	6	6	6	6	6	6	6	6	6
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	1005	1004	1003	1003	1003	1003	1003	1003	1003	1003	1003	1002	1001	1000	1000	1000	1000	1001	1001	1002	1002	1003	1003	1004
Max	1025	1025	1025	1025	1025	1025	1026	1027	1027	1027	1027	1027	1026	1026	1025	1025	1025	1024	1024	1025	1025	1025	1025	1025	1025
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% 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**

**May 2004**

**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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
2	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
3	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
4	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
6	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
7	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
8	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
10	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
11	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
12	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
15	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
16	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
17	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
18	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
19	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
20	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
21	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	13.1 *	13.1	13.1	13	12.9	12.9	12.8	12.8	12.8	12.8	12.9 *
22	12.8	12.8	12.8	12.8	12.7	12.7	13.2	13.4	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13	12.9	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13	
23	12.7	12.7	12.7	12.7	12.7	12.8	13.2	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.1	13.1	13	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13	
24	12.8	12.8	12.7	12.7	12.7	12.7	13.1	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.1	13.2	13.1	13	12.9	12.9	12.9	12.9	12.8	12.8	13	
25	12.8	12.8	12.8	12.7	12.7	12.8	13.2	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13	
26	12.8	12.8	12.7	12.7	12.7	12.7	13.2	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13	
27	12.8	12.7	12.7	12.7	12.7	12.7	13.3	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.1	13.1	13	12.9	12.9	12.9	12.9	12.8	12.8	12.8	13	
28	12.8	12.8	12.8	12.8	12.7	12.7	13.1	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.1	13.1	13.2	13.1	12.9	12.9	12.9	12.8	12.8	12.8	13	
29	12.8	12.8	12.7	12.7	12.7	12.7	13.2	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.1	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13	
30	12.8	12.8	12.8	12.7	12.7	12.8	13.1	13.4	13.2	13.4	13.4	13.3	13.4	13.3	13.3	13.3	13.2	13.1	12.9	12.9	12.9	12.9	12.9	12.9	13.1	
31	12.8	12.8	12.8	12.8	12.7	12.7	13.1	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13	12.9	12.9	12.9	12.9	12.8	12.8	13	
Avg	12.8	12.8	12.8	12.7	12.7	12.7	13.2	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.1	13.1	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13 *	
S D	0	0	0	0	0	0	0.1	0	0	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0	0	
S/A	0	0	0	0	0	0	0.01	0	0	0	0.01	0.01	0.01	0.01	0.01	0	0.01	0	0	0	0	0	0	0	0	
Min	12.7	12.7	12.7	12.7	12.7	12.7	13.1	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13	12.9	12.9	12.9	12.8	12.8	12.8	12.8	12.8	13	
Max	12.8	12.8	12.8	12.8	12.7	12.8	13.3	13.4	13.3	13.4	13.4	13.3	13.4	13.3	13.3	13.3	13.3	13.2	13	12.9	12.9	12.9	12.9	12.9	13.1	
n	120	120	120	120	120	120	120	120	120	120	120	120	120	120	120	128	132	132	132	132	132	132	132	132	2880	

Data Recovery: 66.6% missing; 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.

Prepared by: Afshin M. Andreas, NREL