

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

March 2006

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	12	93	140	292	447	674	733	689	511	202	141	50	0	0	0	0	0	0	3983
2	0	0	0	0	0	0	13	102	259	436	617	726	718	621	582	397	202	46	0	0	0	0	0	0	4718
3	0	0	0	0	0	0	12	129	282	489	681	766	795	748	637	460	251	59	0	0	0	0	0	0	5310
4	0	0	0	0	0	0	17	149	361	554	704	792	815	767	647	473	261	64	0	0	0	0	0	0	5603
5	0	0	0	0	0	0	20	152	367	563	715	805	827	776	657	479	264	63	0	0	0	0	0	0	5688
6	0	0	0	0	0	0	13	42	50	67	96	91	105	77	99	42	25 ?	6	0	0	0	0	0	0	714
7	0	0	0	0	0	0	20	147	335	448	425	627	787	771	652	479	265	70	0	0	0	0	0	0	5025
8	0	0	0	0	0	0	24	164	349	533	625	784	867	713	636	457	197	80	0	0	0	0	0	0	5429
9	0	0	0	0	0	0	20	168	277	386	530	532	749	653	452	333	207	51	2	0	0	0	0	0	4359
10	0	0	0	0	0	0	4	43	196	387	450	448	536	303	314	463	252	60	4	0	0	0	0	0	3458
11	0	0	0	0	0	0	21	107	342	550	715	796	813	753	640	475	263	69	2	0	0	0	0	0	5547
12	0	0	0	0	0	0	16	74	286	518	670	761	772	550	630	444	236	61	3	0	0	0	0	0	5023
13	0	0	0	0	0	0	28	106	325	528	682	768	782	632	553	445	243	63	3	0	0	0	0	0	5159
14	0	0	0	0	0	0	25	141	248	227	224	261 ?	139	195	446	513	292	87	4	0	0	0	0	0	2803
15	0	0	0	0	0	0	38	198	420	616	759	784	821	812	692	514	298	91	6	0	0	0	0	0	6049
16	0	0	0	0	0	0	27	102	160	412	733	867	872	812	681	500	283	84	3	0	0	0	0	0	5536
17	0	0	0	0	0	0	13	72	79	330	758	816	836	786	667	493	278	64	9	0	0	0	0	0	5200
18	0	0	0	0	0	0	40	209	451	630	788	878	900	844	713	532	314	98	4	0	0	0	0	0	6402
19	0	0	0	0	0	0	45	219	451	642	792	883	848	801	640	535	299	96	7	0	0	0	0	0	6259
20	0	0	0	0	0	0	43	195	444	619	785	750	725	406	234	146	94	45	4	0	0	0	0	0	4490
21	0	0	0	0	0	0	4	27	66	78	69	83	75 ?	64 ?	72	60	28 ?	7 ?	1	0	0	0	0	0	635 ?
22	0	0	0	0	0	0	45	214	407	649	802	897	909	847	716	532	313	104	8	0	0	0	0	0	6443
23	0	0	0	0	0	0	51	237	409	605	783	836	782	786	574	363	209	84	6	0	0	0	0	0	5724
24	0	0	0	0	0	0	6	30 ?	41	?	?	?	61 ?	83	142	138	94	38	7	0	0	0	0	0	642 ?
25	0	0	0	0	0	0	14	88	383	559	461	276	361	252	242	213	168	69	5	0	0	0	0	0	3091
26	0	0	0	0	0	0	54	242	463	657	806	822	777	337	491	331	194	67	10	0	0	0	0	0	5251
27	0	0	0	0	0	2	59	256	483	677	819	899	916	860	736	551	329	116	12	0	0	0	0	0	6716
28	0	0	0	0	0	2	68	215	197	598	574	854	885	766	688	511	263	36	7	0	0	0	0	0	5663
29	0	0	0	0	0	2	57	239	447	628	706	226	315	476	627	458	276	103	11	0	0	0	0	0	4573
30	0	0	0	0	0	5	41	173	406	643	812	893	914	855	730	570	341	127	16	0	0	0	0	0	6528
31	0	0	0	0	0	3	68	254	462	648	776	857	863	810	677	507	283	61	13	0	0	0	0	0	6283
Avg	0	0	0	0	0	0	30	148	309	499	627	682	687	608	541	407	231	68	5	0	0	0	0	0	4784
S D	0	0	0	0	0	1	19	70	135	165	207	249	270	259	196	150	82	28	4	0	0	0	0	0	1676
S/A	0	0	0	0	0	2.53	0.64	0.48	0.44	0.33	0.33	0.37	0.39	0.43	0.36	0.37	0.35	0.41	0.95	0	0	0	0	0	0.35
Min	0	0	0	0	0	0	4	27	41	67	69	83	61	64	72	42	25	6	0	0	0	0	0	0	635
Max	0	0	0	0	0	5	68	256	483	677	819	899	916	860	736	570	341	127	16	0	0	0	0	0	6716
n	0	0	0	0	0	6	284	369	368	359	360	350	362	368	371	370	363	365	59	0	0	0	0	0	4355

Daylight Data Recovery: 0.0% missing; 0.0% untested; 1.9% exceed the 15% QC threshold -- 4440 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

March 2006

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	2	41	12	30	114	576	775	775	417	7	9	8	0	0	0	0	0	0	2765
2	0	0	0	0	0	0	0	126	271	420	667	723	648	441	650	547	348	87	0	0	0	0	0	0	4928
3	0	0	0	0	0	0	24	377	294	622	846	869	899	908	903	838	712	360	0	0	0	0	0	0	7652
4	0	0	0	0	0	0	231	637	835	918	961	979	981	971	933	871	736	360	0	0	0	0	0	0	9414
5	0	0	0	0	0	0	215	618	824	919	967	991	996	986	954	893	754	347	0	0	0	0	0	0	9464
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	26	467	549	381	133	312	843	937	910	849	723	410	0	0	0	0	0	0	6538
8	0	0	0	0	0	0	229	622	606	637	547	861	861	689	854	778	280	148	0	0	0	0	0	0	7114
9	0	0	0	0	0	0	50	277	146	132	228	214	622	428	167	137	153	30	0	0	0	0	0	0	2585
10	0	0	0	0	0	0	0	0	19	163	127	97	124	19	108	674	539	180	0	0	0	0	0	0	2051
11	0	0	0	0	0	0	24	168	518	756	875	894	886	843	826	796	662	286	0	0	0	0	0	0	7534
12	0	0	0	0	0	0	0	0	238	601	674	723	650	358	735	632	462	156	0	0	0	0	0	0	5230
13	0	0	0	0	0	0	24	50	370	591	697	742	731	441	469	611	495	189	0	0	0	0	0	0	5411
14	0	0	0	0	0	0	41	211	112	3	1	7	1	3	225	837	719	433	57	0	0	0	0	0	2651
15	0	0	0	0	0	0	313	685	845	905	900	748	800	922	900	848	722	432	64	0	0	0	0	0	9086
16	0	0	0	0	0	0	12	5	2	284	536	878	908	918	880	803	652	370	38	0	0	0	0	0	6287
17	0	0	0	0	0	0	1	0	0	132	762	760	843	833	793	692	498	21	0	0	0	0	0	0	5335
18	0	0	0	0	0	0	210	657	822	882	963	988	997	983	949	900	799	513	121	0	0	0	0	0	9785
19	0	0	0	0	0	0	331	715	864	915	935	990	805	769	731	884	647	309	0	0	0	0	0	0	8895
20	0	0	0	0	0	0	318	520	857	875	941	538	392	34	1	0	0	0	0	0	0	0	0	0	4478
21	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
22	0	0	0	0	0	0	188	609	821 ?	876	929	970	966	947	909	845	730	486	131	0	0	0	0	0	9406
23	0	0	0	0	0	0	299	660	540	608	872	797	598	674	400	140	47	82	8	0	0	0	0	0	5726
24	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	1
25	0	0	0	0	0	0	0	0	457	478	180	29	75	12	3	11	55	49	0	0	0	0	0	0	1348
26	0	0	0	0	0	0	267	621	780	857	892	757	606	44	276	184	141	55	75	0	0	0	0	0	5557
27	0	0	0	0	0	0	335	699	845	920	947	954	960	954	932	878	763	494	139	0	0	0	0	0	9820
28	0	0	0	0	0	0	177	213	18	354	103	605	852	707	719	642	384	1	0	0	0	0	0	0	4775
29	0	0	0	0	0	0	211	536	679	729	578	49	6	68	473	450	444	314	45	0	0	0	0	0	4581
30	0	0	0	0	0	0	1	8	581	879	909	914	929	884	874	847	760	543	204	0	0	0	0	0	8333
31	0	0	0	0	0	3	251	549	688	733	716	732	725	710	674	621	436	68	16	0	0	0	0	0	6924
Avg	0	0	0	0	0	0	122	325	438	536	581	603	628	557	570	555	441	217	29	0	0	0	0	0	5602
S D	0	0	0	0	0	0	129	285	336	339	368	365	356	387	354	346	291	187	53	0	0	0	0	0	3041
S/A	0	0	0	0	0	5.06	1.06	0.88	0.77	0.63	0.63	0.6	0.57	0.7	0.62	0.62	0.66	0.86	1.82	0	0	0	0	0	0.54
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	3	335	715	864	920	967	991	997	986	954	900	799	543	204	0	0	0	0	0	9820
n	0	0	0	0	0	6	285	372	368	371	372	368	372	372	372	372	372	370	59	0	0	0	0	0	4431

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.2% exceed the 15% QC threshold -- 4440 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

March 2006

Diffuse Solar Radiation (Shadow Band) on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	12	85	137	277	364	246	153	141	227	193	138	49	0	0	0	0	0	0	2021
2	0	0	0	0	0	0	13	74	151	206	169	187	215	303	183	137	98	35	0	0	0	0	0	0	1770
3	0	0	0	0	0	0	12	56	165	141	112	118	110	94	77	64	47	18	0	0	0	0	0	0	1012
4	0	0	0	0	0	0	12	35	52	60	64	66	67	67	66	59	47	21	0	0	0	0	0	0	616
5	0	0	0	0	0	0	14	37	54	61	64	64	64	60	58	51	42	19	0	0	0	0	0	0	589
6	0	0	0	0	0	0	15	42	50	67	96	91	105	77	99	40	22	6	0	0	0	0	0	0	711
7	0	0	0	0	0	0	21	53	130	225	329	384	125	80	72	61	46	20	0	0	0	0	0	0	1547
8	0	0	0	0	0	0	15	45	107	165	229	120	182	172	87	76	99	59	0	0	0	0	0	0	1357
9	0	0	0	0	0	0	18	112	223	306	358	351	241	312	335	258	157	46	2	0	0	0	0	0	2718
10	0	0	0	0	0	0	4	43	190	283	354	373	435	288	247	122	85	31	4	0	0	0	0	0	2459
11	0	0	0	0	0	0	19	74	123	104	88	90	95	105	93	72	57	27	2	0	0	0	0	0	951
12	0	0	0	0	0	0	18	74	167	161	178	181	235	273	138	116	87	37	3	0	0	0	0	0	1669
13	0	0	0	0	0	0	25	93	153	168	172	170	179	275	229	130	83	33	3	0	0	0	0	0	1714
14	0	0	0	0	0	0	23	90	201	227	224	189 ?	139	195	298	75	52	26	3	0	0	0	0	0	1741
15	0	0	0	0	0	0	17	42	59	75	102	177	158	96	84	71	57	30	5	0	0	0	0	0	973
16	0	0	0	0	0	0	27	102	160	217	279	145	116	97	85	79	64	30	2	0	0	0	0	0	1404
17	0	0	0	0	0	0	14	72	79	242	196	187	134	128	124	123	101	61	8	0	0	0	0	0	1469
18	0	0	0	0	0	0	20	50	78	80	68	68	69	69	66	56	43	23	2	0	0	0	0	0	691
19	0	0	0	0	0	0	18	44	57	72	86	70	163	180	127	66	67	41	6	0	0	0	0	0	994
20	0	0	0	0	0	0	16	66	53	68	70	286	378	381	234	146	94	45	4	0	0	0	0	0	1842
21	0	0	0	0	0	0	4	27	66	78	69	77	62	60	70	60	25	8	1	0	0	0	0	0	605
22	0	0	0	0	0	0	27	65	80 ?	96	92	87	88	88	83	73	56	29	4	0	0	0	0	0	871
23	0	0	0	0	0	0	22	57	145	197	110	156	249	227	273	273	190	73	6	0	0	0	0	0	1979
24	0	0	0	0	0	0	7	26	38	38	41	39	58	83	142	138	94	38	7	0	0	0	0	0	748
25	0	0	0	0	0	0	15	88	150	253	314	215	286	244	242	208	153	58	4	0	0	0	0	0	2230
26	0	0	0	0	0	0	25	65	85	97	112	175	253	302	295	225	140	57	7	0	0	0	0	0	1837
27	0	0	0	0	0	?	23	54	65	68	76	81	82	77	71	61	49	33	8	0	0	0	0	0	748
28	0	0	0	0	0	?	46	153	191	350	465	304	142	176	168	146	110	36	7	0	0	0	0	0	2293
29	0	0	0	0	0	2	32	78	108	144	255	185	313	415	280	197	116	49	8	0	0	0	0	0	2181
30	0	0	0	0	0	?	41	172	152	84	92	102	99	120	97	93	59	34	9	0	0	0	0	0	1153
31	0	0	0	0	0	4 ?	36	85	118	157	207	225	223	220	189	153	113	46	12	0	0	0	0	0	1789
Avg	0	0	0	0	0	0	20	70	116	154	175	168	168	174	156	117	84	36	4	0	0	0	0	0	1441
S D	0	0	0	0	0	1	10	33	52	86	114	95	95	103	86	64	42	16	3	0	0	0	0	0	616
S/A	0	0	0	0	0	4.02	0.49	0.48	0.45	0.56	0.65	0.56	0.57	0.59	0.55	0.55	0.5	0.44	0.88	0	0	0	0	0	0.43
Min	0	0	0	0	0	0	4	26	38	38	41	39	58	60	58	40	22	6	0	0	0	0	0	0	589
Max	0	0	0	0	0	4	46	172	223	350	465	384	435	415	335	273	190	73	12	0	0	0	0	0	2718
n	0	0	0	0	0	2	271	372	368	370	372	369	372	371	372	372	372	368	59	0	0	0	0	0	4410

Daylight Data Recovery: 0.0% missing; 0.0% untested; 0.7% exceed the 15% QC threshold -- 4440 total daylight measurements.

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

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

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

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

March 2006

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	4.5	4.6	4.5	4.5	5.1	5	5.7	6.2	7.1	7.7	8.6	9.7	11.1	11.6	11.7	10.9	10	8.7	7.7	6.8	6.4	6	6	6.1	7.3
2	6.6	7.2	7.6	7.5	7.5	7.7	7.7	9.1	13.6	17	18.9	20.8	22.4	23.3	24.5	25.3	25.3	24.2	23.1	22.1	20.6	13	11.4	9.6	15.7
3	7.4	6.4	5.5	4.7	4	3.4	2.9	3	3.9	4.9	6.4	7.1	8.5	9.4	10.2	10.6	10.6	9.9	8.1	7	6.2	5.3	5.1	4.2	6.4
4	3.6	2.7	1.8	1	-0.4	-1.4	-1.8	-1	1.4	2.9	4.5	6	7.7	9	10.2	11	11.2	10.8	9.1	8	7.1	6	5.9	5.7	5
5	4.8	4.3	3.8	3.6	3.2	2.9	2.7	3.3	4.5	5.3	6.6	8.1	9.6	11.1	11.7	12.2	12.2	11.6	9.9	8.6	7.6	7	6.3	6.4	7
6	6.2	6.3	6.6	8.3	6.4	6.2	6	6.2	6.5	5.8	5.6	5.6	5.1	4.4	4.1	3.4	3.1	3	3	3	3	3.1	2.9	2.3	4.8
7	2.1	1.8	1.3	1.7	2	1.5	2	2.9	4.4	5.3	6.5	6.4	6.6	7.7	8.3	8.6	8.4	7.6	6	5	4.1	3.6	2.5	1.3	4.5
8	0.4	0	-0.4	-0.5	-0.6	-0.9	-0.9	0.7	3.6	6.3	8	9.9	10.7	11.5	12.2	12.4	12.4	11.8	9.6	8.5	8.2	8.1	8.5	8.8	6.2
9	8.8	8.8	8.8	8.3	8.7	8.4	8	9.3	11.5	13.1	15.1	16.4	18.5	19.5	20	20.4	20	18.8	17.7	17	16.4	15.9	15.9	15.7	14.2
10	15.5	15.8	16	16.3	16.6	16.8	17.1	17.4	18.5	20.1	21.1	22	22.7	22.3	22.1	23	22.6	21.7	20.5	19.5	19	18.5	18.3	17.7	19.2
11	16.8	16	15.2	14.1	13.8	14	13.9	13.9	15.2	17.5	19.5	20.9	21.3	21	20.2	19.6	18.5	17.3	15.8	14.3	13.2	12.7	12.7	13.1	16.3
12	13.3	13.6	13.4	14.1	14.7	14.7	14.9	15.6	17	20.5	21.6	23.3	24.5	25.1	26.3	26.3	26.2	25.4	23.8	21.7	20.7	19.7	19.2	18.8	19.8
13	18.3	17.8	17.3	16.9	16.7	16.6	16.6	17.4	18.9	20.6	21.9	23.3	24.9	25.8	26.4	26.5	25.9	24.8	22.3	20.9	20	19.3	19.2	19.1	20.7
14	18.7	18.5	18.4	18.1	18	18	18.1	18.8	20.3	21.5	21.9	19.6	18	16.9	18.7	20.8	19.8	18.2	16.4	15.2	13.8	12.8	11.8	10.6	17.6
15	9.7	8.9	7.9	7.5	7.1	7.1	6.5	7.6	8.7	9.3	10	10.9	11.8	12.5	13.4	13.9	14.1	13.7	12.5	11.4	10.7	9.5	8.7	8	10
16	8	7	5.9	5.3	4.4	3.9	4.2	5.7	8	9.4	11.1	13.2	14.2	14.5	15.6	16.5	17.2	16.8	14	11.6	10.9	10.2	9.5	9.8	10.3
17	9.4	9.3	10.2	10.5	9.9	9.5	9.3	9.5	10.3	11.5	13.1	12.3	12.4	12.2	11.9	11.5	10.3	9	8.1	7.4	6.9	6.6	6.4	5.4	9.7
18	4.5	3.5	3.3	4.2	4.2	3.2	3	4.8	6	6.9	7.5	8.6	9.7	10.2	11	11.6	11.8	11.3	8.3	6.2	5.6	5.1	5.4	4.1	6.7
19	2.8	1.9	2.1	2.4	2.3	1.8	1.7	3.1	4.7	6.3	7.7	8.8	9.5	10.3	10.9	11.4	11.4	11.1	9.6	8.8	8.5	7.7	6.7	6.6	6.6
20	6.3	5.6	5.1	5.6	4.9	4.4	3.8	5.3	8.2	9.4	10.4	11.3	12.6	12.5	12.3	12.3	12.1	11.7	11.2	10.9	10.4	8.8	7.6	5.5	8.7
21	5	4.8	4.7	4.6	4.4	4.3	4.3	4.6	4.6	4.6	4.7	4.6	4.5	5	5.1	4.7	4.2	3.5	2.6	2.1	1.9	1.9	2.1	2.2	4
22	1.7	1.2	0.7	0.7	0.9	0.9	0.9	1.5	2.6	4	4.8	5.5	6.4	7.3	8.5	9.2	9.8	9.6	8.3	7.1	5.7	4.3	4.2	4.4	4.6
23	3.9	3.5	3.2	2.9	1.9	1.9	2.2	3.9	5.5	6.4	7.8	8.9	9.6	10.3	11.2	10.7	8.2	7.6	6.8	6.1	5.9	6	5.9	5.6	6.1
24	5.6	4.6	4.1	4.3	4.8	4.8	4.6	4.7	4.9	4.7	4.8	4.4	3.4	3.3	3.5	4.1	4.6	5.1	5.2	5.2	5.5	5.7	6	6.2	4.8
25	6.2	6.4	5.8	5.1	4.8	4.6	4.4	4.6	6.4	8.4	9.1	8.6	8.3	8.4	8.6	8.6	8.1	7.5	7	6.4	5.6	5.3	4.9	4.7	6.6
26	4.9	4	3	2.3	1.8	1.7	1.5	3.2	5.8	7.2	8.5	9.9	10.5	10.1	10.5	10.5	10.1	9.7	8.6	7.2	6.5	6.1	5.6	5	6.4
27	4.4	3.6	3	2.8	2.1	2.1	2.6	4.6	7.4	8.8	10.1	11.2	12.4	13	13.9	14.8	14.7	10.6	9.2	8	7.4	7.2	6.6	6.3	7.8
28	6.1	5.8	5.9	5.8	5.3	5.3	5.7	7.4	9.2	11.4	13.3	14.8	15.7	16.4	17.1	17.2	16.8	15.8	14.9	14	13.2	13	12.9	12.4	11.5
29	12.1	12.2	11.9	11.3	10.4	9.4	8.8	10.3	12.4	14.6	16.1	16.4	14.8	14.6	15.6	15.5	14.6	13.6	12.1	10.9	9.8	8.9	7.9	7.1	12.1
30	6.1	5.5	5	5	4.8	4.4	4.7	5.3	7.3	11	14.3	15.8	16.9	16.8	17.1	16.9	16.2	14.8	12.8	11.1	10.1	9.4	9.1	9.1	10.4
31	8.9	8.6	8.6	7.8	7.1	6.6	7.1	9.7	13.4	16.7	19	21.1	22.3	22.6	22.7	22	22.1	21.2	18.9	17.9	17.5	16.9	16.5	16.2	15.5
Avg	7.5	7.1	6.8	6.7	6.3	6.1	6.1	7	8.8	10.3	11.6	12.4	13.1	13.5	14	14.3	14	13.1	11.7	10.6	9.9	9.1	8.8	8.3	9.9
S D	4.8	4.9	5	5	5.1	5.2	5.2	5.1	5.1	5.6	5.8	6	6.2	6.1	6.2	6.3	6.1	5.7	5.5	5.4	4.9	4.9	4.9	4.9	5.1
S/A	0.64	0.69	0.74	0.74	0.8	0.85	0.86	0.72	0.58	0.54	0.5	0.48	0.47	0.45	0.44	0.44	0.45	0.46	0.49	0.52	0.54	0.54	0.56	0.59	0.51
Min	0.4	0	-0.4	-0.5	-0.6	-1.4	-1.8	-1	1.4	2.9	4.5	4.4	3.4	3.3	3.5	3.4	3.1	3	2.6	2.1	1.9	1.9	2.1	1.3	4
Max	18.7	18.5	18.4	18.1	18	18	18.1	18.8	20.3	21.5	21.9	23.3	24.9	25.8	26.4	26.5	26.2	25.4	23.8	22.1	20.7	19.7	19.2	19.1	20.7
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

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

March 2006

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	101.8	102	102.9	103.3	99.5	101.1	89.7	85.4	78.4	71.8	65	56.4	55.2	54.6	55	54	53.8	63.6	78	86.6	92	95.8	98.2	100.1	81
2	101.7	102.4	102	103	104.2	104.6 ?	?	102.2 ?	93	79.4	72.1	65.8	59.8	56	51.9	52.3	53.5	58.5	63.5	67.3	69.8	72.3	72.9	78.5	77.7
3	86.6	89.7	88.7	92	94.5	91.9	92.5	89.3	82.6	73	56.6	52.9	48.4	43.1	38	35.1	34.6	37	44.3	45.4	45.7	48	46.8	49.7	62.8
4	48.7	50.7	54.8	59.4	66.6	71.2	72.8	70.3	62	53.9	48.4	44	39.9	35.8	33.2	32.5	31.9	32.8	37.2	39	41.5	44.9	45	47.3	48.5
5	54.2	57.9	59.3	59.6	60.6	60.8	61	59.8	54	50.4	45.9	38.4	34.9	30.8	30.8	31	32.3	34.2	39.5	45.1	50.9	60.7	81.4	79.5	50.6
6	85.8	86	80.4	61.3	72.4	73.5	74.7	74.7	76.2	91.7	97.1	98.6	100.8	103.1	104.2	104.9 ?	104.5	104.8 ?	104.5	103	102.8	102.8	102.7	103.8 ?	92.3
7	?	104.6	?	104.5 ?	103.3	104.4	102.2	98.9	94.3	90.2	74.3	72.7	65.1	56.6	52.5	47.8	50.3	52.5	55.7	58.5	63.8	67.2	72.8	78.6	75.9 ?
8	83.7	86.2	89.1	91	92.5	93.1	91.5	84.7	73.3	59.4	46.9	40.5	39.1	38	39.4	40.4	40.9	43.2	52.9	70.1	74.2	74.9	73.5	73.8	66.3
9	76.2	74.1	72.1	76.6	79.5	84.3	90.8	89.8	84.9	81.3	73.3	67.7	59.1	55.7	53.9	51.1	50.8	62.1	75.6	82.9	90.3	94.1	94.3	93	75.6
10	95.8	94.5	94.3	95	95.4	95.9	95.4	95.2	93.2	86.8	80.8	75.4	72.9	74.9	75.5	71.7	72.9	77.5	82.8	87.4	89.6	92.4	94.4	96.4	86.9
11	99.1	101.6	104.1	?	?	?	?	?	?	94.5	66.9	60.5	67.1	71.1	68.4	60.4	59.6	63.5	69.2	82	93	97.8	100.2	102.2	81.2 ?
12	103.6	104.6 ?	?	?	?	?	?	?	?	95.4	89.7	81.9	76	72.1	61.7	61.6	62.4	64.7	70.4	85.7	90.4	93.8	95.5	96.8	82.7 ?
13	98.5	100.4	102.9	104.6 ?	?	?	?	104.5 ?	100.8	93.6	87.3	80	73.6	69.6	67	65.1	66	67.4	82.3	85.1	87.1	89.5	92.9	94.9	86.3 ?
14	96.3	96.8	96.8	97.9	98.5	98	97	94.8	89.3	86	84.6	77.2	65.3	51.4	43.1	26.6	23.8	22.3	24.9	25.9	29	29.5	30	32.5	63.2
15	34.4	36.5	39.8	41.9	44.1	45.4	49.2	46.6	38	32.5	31.2	31.1	30.7	29.6	28.9	27.8	27.7	29.7	32.9	35.7	36.5	39.9	42	44.2	36.5
16	43.8	48.1	53.5	56.5	58.5	67.3	64.2	66.8	70.2	67	54.2	48.5	36.7	30.3	30	29.4	27.1	30.2	47.8	70.2	80.1	85.1	89.9	91	56.1
17	90.9	89	79.9	77.5	81.3	83	86.4	80.7	91.3	93.1	73.5	69.4	56.3	59.4	59.8	69	74.3	82.5	86.2	90.2	92.6	94.2	97	99.2	81.5
18	101.2	103.7	104.2	97.6	88.5	87.2	79.5	60.9	46.9	38.4	36.9	30.7	23.6	21.8	22	20.5	18.9	21.9	45.3	62.7	66.4	68	68.1	77	58
19	81.7	84.5	78.3	60.3	51.6	50.2	50.7	48.6	44.1	36.6	33.1	30.4	29.3	28.7	28.2	28	27.6	28.3	32.8	35.6	37.2	40.3	45.2	48.5	44.2
20	50.8	52.7	50.8	59	70	75.4	77	68.6	53.8	45.9	40.5	37.4	34.7	33.2	33.1	32.5	32.6	34.7	38.4	38.9	49.8	78.2	79.8	98.6	52.8
21	103.2	104.4 ?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	104.9 ?	104.8	104.9 ?	?	104.8 ?	?	?	?	104.5 ?
22	?	?	?	?	?	103.7 ?	100.9	96.2	85.3	76	63.6	55.1	53.1	51.7	49.6	47.9	46	44.6	50	58.6	67	78.5	84.9	89.8	68.6 ?
23	88.1	80.2	75.5	75.8	79.8	79.6	77.7	70.8	63	59.9	54.5	51.1	51.2	47.6	45.3	52.9	69.4	68.6	74.1	77	79.9	81.4	82.7	86	69.7
24	86.4	91.1	95.3	95.9	94.9	92.9	92.3	93.9	97.5	98.7	100.6	101.7	103.3	104.6	104.2	103.2	102.3	102.1	102.8	102.9	97.4	94.3	89.4	84.4	97.2
25	84.2	80.6	85.1	93.4	93.8	94.6	95.7	95.8	89.6	80.6	76.5	82.1	85.1	84.1	80.7	79.2	81.7	82	89.9	98	100.1	100.2	100.5	100.9	88.9
26	99.4	101.8	103.8	103.3	102.3	98.9	97.4	89	74.7	65	58.5	51.7	45.7	45.5	44.6	45	46.3	46.7	51.7	60	63.3	64.1	66.6	69.7	70.6
27	72.2	75.2	77.8	80	83.2	83.5	83.1	77.9	68.6	58.2	51.8	48.5	43.7	41.3	37.3	34.7	37.3	65.3	73.3	81.5	89.4	92.7	96.5	100.1	68.9
28	102.3	103.6	98	92.8	94.5	95	93.4	85.8	79.4	70.5	59	49.9	48.2	47.4	46.3	45.1	47.7	54.6	60.5	68.5	76.8	79.5	80	84.2	73.5
29	84.9	79.3	78	80.6	84.3	88.8	93.2	89.6	83.8	78.3	69.7	66.3	74.5	76.6	72.9	70.8	73.6	78.5	87.2	95.3	100.4	103.2	104.5 ?	?	83.2
30	?	?	?	?	?	?	?	?	?	93.6 ?	76	57	43.6	39.7	38.7	37.4	37.5	46.8	53	63.3	77.8	85.3	90.7	95.3	62.4 ?
31	100.3	102.6	104	104.2	103.9	103.6	101.3	94.9	85.5	72.2	59.8	45.9	39.5	42.4	43.5	47.7	49.4	56.8	77.9	84	79.7	72.5	70.1	76.1	75.7
Avg	84.1	85.7	83.5	83.3	83.9	85.7	84.4	82.1	76.1	72.5	64.3	59	55.2	53.2	51.3	50.2	53	56.8	64.2	69.6	74.8	77.4	79.6	81.8	71.7
S D	20	19.6	19.1	18.9	17.2	16.4	15.2	15.9	17.2	19.1	18.3	19	20.2	21.1	20.8	21.2	23.7	23.5	22.4	21.7	21.7	20.5	20.4	19.9	15.9
S/A	0.24	0.23	0.23	0.23	0.21	0.19	0.18	0.19	0.23	0.26	0.28	0.32	0.37	0.4	0.41	0.42	0.45	0.41	0.35	0.31	0.29	0.26	0.26	0.24	0.22
Min	34.4	36.5	39.8	41.9	44.1	45.4	49.2	46.6	38	32.5	31.2	30.4	23.6	21.8	22	20.5	18.9	21.9	24.9	25.9	29	29.5	30	32.5	36.5
Max	103.6	104.6	104.2	104.6	104.2	104.6	102.2	104.5	100.8	98.7	100.6	101.7	103.3	104.6	104.2	104.9	104.9	104.8	104.9	103	104.8	103.2	104.5	103.8	104.5
n	336	337	311	298	300	301	300	310	324	353	360	360	360	359	360	354	362	366	362	360	364	360	353	345	8197

Data Recovery: 0.0% missing; 0.0% untested; 8.2% 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

March 2006

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	3.6	3.7	3.7	3.6	4.2	4.4	4.5	5	6.5	7.9	9.8	12.1	14.7	15.7	16.1	15.4	13.6	12	10	8.1	6.7	5.9	5.7	5.6	8.3
2	5.5	5.8	6.4	6.7	6.7	7.2	7.4	7.6	10.2	14.7	18.4	21.3	23.9	25.1	26	26.9	27.3	26.5	24.7	23.1	21.8	18.9	14.6	12.3	16.2
3	10.1	7.8	6.2	5	4.1	3.3	2.6	2.5	4.1	6	8.3	10.1	11.6	12.7	13.2	13.8	13.9	13.1	10.4	7.4	5.2	3.8	3.2	3	7.6
4	2.6	2.2	1.4	0.3	-0.7	-1.9	-3	-2.4	0.6	3.9	6.5	8.8	10.6	11.7	12.5	13.4	13.8	13.5	11	8.1	6.3	4.9	4	3.8	5.5
5	3.8	3.4	2.9	2.4	2.2	1.8	1.4	2.1	4.6	7	9.1	11.1	12.8	14.1	14.9	15.4	15.8	14.9	11.8	8.1	5.9	5.6	5.6	5.7	7.6
6	5.2	5.4	5.7	6.5	7.2	6.6	6.1	5.9	6.4	6.4	6	5.9	5.8	5.5	5.1	4.7	4	3.6	3.3	3.1	2.9	2.9	2.9	2.1	5
7	1.5	1.2	0.8	0.9	1.2	1.2	1.2	1.9	4.2	6.2	8	9.4	9.8	10.4	11.1	11.6	11.8	11.1	8.4	5.3	3.4	2.2	0.8	-0.5	5.1
8	-1.4	-2	-2.6	-2.9	-2.9	-2.9	-3	-1.8	2.1	6.4	10.2	13.1	15.6	16.5	16.5	16.5	16.3	14.8	12.4	9.8	8.9	8.6	8.6	8.7	6.9
9	8.8	8.6	8.5	7.9	7.9	7.8	7.2	7.6	10.3	12.6	15.1	17.5	19.2	21.1	22	22.2	22.1	21.1	19.2	17.7	16.8	16	15.6	15.6	14.5
10	15.5	15.4	15.5	15.6	15.9	16.2	16.5	17.1	17.9	19.7	21.9	23.3	24.2	24.7	24.1	24.5	25.2	24.6	22.5	20.6	19.3	18.6	17.9	17.5	19.8
11	16.9	16.1	15.4	14.5	13.8	13.6	13.6	13.8	15.1	17.9	21.2	23.7	25.3	25.6	25	24.3	23.5	21.9	18.8	16.2	14.5	13.3	12.8	12.9	17.9
12	13.1	13.3	13.5	13.7	14.3	14.8	15	15.4	16.5	19.9	23.1	25.2	27	27.9	28.6	29.3	29.3	28.5	26.1	23.6	21.9	20.6	19.6	18.9	20.8
13	18.4	17.9	17.5	17	16.7	16.5	16.4	16.7	18.1	20.9	23.6	25.4	27	28.3	29	29.4	29.5	28.4	25.6	22.8	21.2	20	19.4	19.1	21.9
14	18.9	18.6	18.2	18	17.8	17.7	17.6	18.2	19.9	21.5	22.4	22.6	19.2	18.8	19.2	21	22.4	21.6	18.9	16	14.1	12.5	11.4	10.1	18.2
15	8.9	7.8	7	6.2	5.8	5.6	5.5	6.6	9	11	12.5	13.6	14.4	14.9	15.3	16	16.4	16.1	14.3	11.9	10.2	8.8	7.4	6.4	10.5
16	5.9	5.5	4.4	3.8	3.5	2.9	2.5	3.4	5.5	8.2	12.1	16.2	18.8	18.7	18.3	18.8	19.4	19.3	16.9	13.3	10.8	9.4	8.4	8.1	10.6
17	7.8	7.5	8.1	8.9	9	8.2	8.1	8.7	9.8	10.8	13.5	16.2	16.4	16.4	16.1	15.9	15.4	13.4	10.7	8.7	7.1	5.9	5.1	4.4	10.5
18	3.4	3	2.4	2	2.6	2.5	1.5	2.7	6.1	8.8	10.7	12.2	13.3	13.5	13.9	14.6	15.1	14.7	12.1	7.8	5.3	3.7	2.9	2.3	7.4
19	1.2	0	-0.7	-0.4	0.2	0.1	-0.2	1.4	4.5	7.3	9.8	12	13.3	13.9	14.3	14.6	14.7	14	11.5	9	7.7	6.8	5.7	5.1	6.9
20	4.9	4.7	3.8	3.4	3.7	3.1	2.1	3.4	7.1	11.3	13.9	15.7	16.6	17	15.8	14.6	13.9	13.1	12.1	11.2	10.7	10.1	8.8	6.8	9.5
21	5.7	5.2	5	4.9	4.8	4.7	4.5	4.6	4.9	5	5.2	5.3	5.2	5.3	5.6	5.6	5.2	4.6	3.8	3.1	2.6	2.1	2.1	2.2	4.5
22	2.3	2.1	1.6	1.2	1	0.9	0.8	1.3	3.3	5.5	7.6	8.9	9.7	10.3	11.1	12.3	13.2	13.1	10.9	7.3	4.4	2.5	1.3	1.3	5.6
23	1.4	1.7	1.6	1.4	0.7	0	0.1	2.1	5.5	8	10.6	13.2	14.5	14.7	15.2	15.5	13.8	11	9.1	7.2	6	5.7	5.6	5.1	7.1
24	4.7	4.1	3.3	3.5	3.9	4.4	4.6	4.7	5	4.9	4.7	4.7	4.2	3.9	3.9	4.2	4.5	4.8	4.9	4.9	4.9	4.8	5	5.5	4.5
25	5.7	5.9	6	5.6	5	4.7	4.5	4.5	5.6	9.1	11.8	12.3	10.9	10.8	10.9	11.1	10.5	9.8	8.4	7.5	6.7	5.8	5	4.4	7.6
26	4.4	4.2	3.1	2.2	1.3	0.6	0.3	1.8	5.2	8.5	10.9	13.1	14.4	14.2	13.3	13.8	13.2	12.1	10.2	7.6	5.9	5	4.4	3.8	7.2
27	3.3	2.7	2.1	1.4	0.8	0.3	0.4	2.7	6.6	9.9	12.5	14.6	16.1	16.6	17	17.9	18.9	17.6	13.5	9.7	7.6	6.5	5.8	5.1	8.7
28	4.7	4.3	3.9	3.7	3.5	3.4	3.6	5.6	8.3	10.5	14	16.3	17.8	18.6	19.2	19.9	20.1	18.8	16.8	15.4	14.3	13.4	13.1	12.8	11.8
29	12.2	11.9	11.4	10.9	10.2	9.3	8.6	9.6	12.6	16.1	19	20.6	19.2	18.2	18.7	19.6	19.1	18	15.4	12.2	10.3	9.1	8	6.9	13.6
30	6.5	6.1	5.6	5.4	5.4	5.2	5.1	5.7	7.8	11.8	16.1	19.4	20.8	20.9	20.8	21.3	21	19.7	16.9	13	10.5	8.8	7.8	7.5	12
31	7.4	7.3	7.1	7.1	6.6	5.9	5.6	7.5	11.9	16.6	20	22.9	25	25.8	26.3	26.3	25.9	24.6	21.9	19.3	17.9	17	16.4	16	16.2
Avg	6.9	6.5	6.1	5.8	5.7	5.4	5.2	6	8.2	10.8	13.2	15	16	16.5	16.7	17.1	17.1	16.1	14	11.6	10.1	9	8.2	7.7	10.6
S D	5.2	5.2	5.3	5.3	5.3	5.4	5.6	5.4	4.9	5.2	5.6	5.9	6.2	6.4	6.4	6.5	6.6	6.5	6.1	5.9	5.8	5.6	5.4	5.4	5.2
S/A	0.76	0.8	0.87	0.91	0.94	1	1.07	0.89	0.6	0.48	0.42	0.39	0.39	0.38	0.38	0.38	0.39	0.4	0.44	0.51	0.58	0.63	0.66	0.7	0.49
Min	-1.4	-2	-2.6	-2.9	-2.9	-2.9	-3	-2.4	0.6	3.9	4.7	4.7	4.2	3.9	3.9	4.2	4	3.6	3.3	3.1	2.6	2.1	0.8	-0.5	4.5
Max	18.9	18.6	18.2	18	17.8	17.7	17.6	18.2	19.9	21.5	23.6	25.4	27	28.3	29	29.4	29.5	28.5	26.1	23.6	21.9	20.6	19.6	19.1	21.9
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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

March 2006

Wind Speed
Hourly and Daily Averages
Instrument: NRG MAX-40
Meters per Second

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	1.1	1.1	0.2	0.6	2.8	3.1	2.4	1.9	3.1	3.3	3	2.7	2.8	2.8	3.2	3.1	3.3	3.1	2.1	1.6	1.2	1.1	1.2	1.7	2.2
2	1.3	1.8	1.4	0.8	1.2	1.1	0.9	2	2.8	5	6.2	5.1	5.6	6.5	6.9	6.9	7.6	5.6	4.6	3.8	2.9	5.8	5.1	6.1	4
3	4.2	3.5	3.6	3.3	3.1	3	3.2	3	3.8	4.8	4.6	3.9	3.7	3.6	3.4	3.6	3.1	2.3	2.3	1.3	1	1.4	2.7	2.8	3.1
4	3.6	3.7	2.5	2.6	2.3	1.6	1.5	1.6	2.9	3.7	3.7	3.4	3.5	4.1	3.7	4.1	3.9	2.9	1.9	1.4	1.7	1.4	2	3.1	2.8
5	2.8	2.9	2.8	3.4	3.2	2.7	2.5	1.7	3.9	3.8	3.4	3.1	2.4	2.3	3	2.5	2.8	1.9	0.3	0.2	0.3	0.2	0.7	0.8	2.2
6	0.5	0.2	1.6	1	1.5	0.8	0.2	0.1	0.6	1	1.2	1.8	2.1	3	3.1	3.1	2.3	2.5	1.6	1.4	0.7	1.1	0.8	1.2	1.4
7	2.2	0.9	0.5	1.3	1.2	1.4	1.4	2.5	3.9	4.2	4.4	5.6	5.2	5	4.8	4.9	4.1	2.9	1.9	1.5	1.4	0.7	0.5	0.7	2.6
8	0.7	0.7	0.6	1	1.1	1.1	0.8	1	1.1	1.4	1.2	1	1.9	2	2.4	2.7	2.5	2.1	2	2.7	3.7	3.7	3.4	2.3	1.8
9	2.4	2.6	2.3	1.9	2	1.9	2.1	2.5	3.4	3.6	4	4.5	5.4	5.3	5	5	5.1	5.3	5.1	4.8	4	3.6	3.8	4	3.7
10	4.1	4.1	3.9	4.6	4.4	4.2	4	3.3	4.5	6.1	7	7.5	9	8.1	7.7	8.4	7	5.2	3.7	2.7	2.9	2.9	3	2.5	5
11	2.5	2.4	1.7	1.4	1.7	1.3	1	1	1.6	2	3.6	3.2	3.5	4.1	4.3	4	3.8	2.9	2.6	2.5	1.9	1.9	1.8	2.7	2.5
12	2.1	2.4	2.1	2	2.1	1.7	1.9	2.1	2.5	4.4	5.4	4.8	5.1	4.6	5.1	5.1	3.9	2.4	2	3.3	3.5	3.3	3	2.9	3.2
13	2.6	2.4	2.1	2.2	1.9	1.7	1.6	2.6	3.9	5.1	5.5	5.4	5	5.2	5.2	5.5	4.9	4.4	4.1	4.7	4.8	4.7	5.4	5.4	4
14	4.7	4.3	4.1	3.9	3.9	3.4	3.8	4.4	5.1	6.3	7.1	5.3	4.4	4.3	5.1	6.3	5.7	5.5	3.9	3.6	3.2	3.2	3	2.5	4.5
15	2.3	2.5	2.3	2.8	3.2	4.1	3.5	4.5	5.4	5.9	6.2	5.9	6.1	6.2	6.3	5.6	6	5.5	3.4	2.3	2.2	1	1.3	1.6	4
16	1.5	1.1	1.3	0.8	0.5	0.2	0.1	0.2	0.8	2.4	2	1.6	3	4.4	4.2	4	3.3	2.1	1.5	1.1	1.3	0.9	0.2	1	1.6
17	0.4	0.9	0.7	1.1	0.7	0.7	1.3	1.6	2.3	2.8	4.8	5.3	5.3	5.2	5.2	4.4	4.4	3.5	3	2.2	1.5	1.2	0.9	0.1	2.5
18	0.5	0.9	1	1.7	1.4	0.9	1.3	2	3.4	3.7	3.3	3.4	3.6	4.1	3.7	3	2.9	2	1.7	1.7	1	1.1	1.1	0.5	2.1
19	0.4	0.7	1.6	2.5	2.4	2.1	1.4	2.4	4.4	4.3	3.3	3	3	3.2	3.2	3.5	3.7	3.3	1.9	2.1	2.2	1.6	1.8	2.2	2.5
20	2.2	2.3	1.4	3	2.2	1.2	0.1	0.9	1	2	1.9	2.8	2.2	3.1	4	3.3	2.7	2.2	0.9	0.9	1.3	2.9	1.2	1.5	2
21	0.1	0.1	0.3	1.3	1.5	1.7	1.7	2.4	3.9	4.3	4.2	4.4	3.6	3.4	3.7	4.4	3.8	4.2	4.2	3	1.9	1	0.5	1.3	2.5
22	1.9	2.1	1.9	1.7	1.1	2.3	2.7	3.4	5	4.4	4.4	4.6	4.1	3.6	3.3	2.8	2.3	2.3	1	0.2	0	0	0.8	0.8	2.4
23	1.6	1.8	1.9	1.2	1.1	1.7	0.9	1.5	2.9	2.9	1.8	1.7	2.2	1.9	1.5	2.4	4.2	3.3	2.5	2.2	2.4	2.6	2.3	1.4	2.1
24	1.1	0.5	0.6	0.4	1	1	1.2	0.9	2.5	3	2.2	3.2	3.2	3.1	3.4	3.5	2.4	2.1	1.2	1.2	2.4	2.5	1.8	1	1.9
25	1.9	2	1.3	1.3	1.4	1	1	1.3	1.7	2.8	2.8	2.2	2.3	2.2	2.2	3.3	2.6	2.5	2	0.7	1.1	1.4	2.2	2.3	1.9
26	2.3	2.4	1.9	2.1	1.4	1.7	1.8	1.9	2.7	3.5	3.1	2.4	3.9	3.4	3.5	3.9	3.2	2.8	1.7	1.4	1.7	1.7	1.7	1.9	2.4
27	1.7	1.8	1.7	1	1.3	1.5	1.3	1.8	3.5	3.5	3	2.4	2.5	3	2.9	2.2	1.8	3.3	2.3	2.3	2.2	2.1	1.6	1.7	2.2
28	1	0.7	1.1	1.3	1.1	1.3	1.8	2.6	2.6	3.5	5.4	5.8	5.4	5.3	5.2	4.9	4.2	2.4	2.1	2.6	2.1	1.3	0.5	1	2.7
29	1.1	2.1	2.7	1.9	2.1	2.1	1.5	1.5	1.6	1.8	2.3	2.4	4.2	3.8	3.5	3.4	3.1	2.9	2	1.6	1.8	1.5	0.5	0.4	2.1
30	0.4	0.1	0.1	0.1	0.1	0	0.2	0.1	0.4	1.1	1.7	2.3	3	3.7	3.2	3.4	3.9	3.1	2.5	2.2	1.4	1.3	1.5	1.5	1.5
31	1.3	0.8	1.3	0.9	0.8	1.1	0.1	1	1.3	3	3.1	3.1	3	3.7	4	4.1	3.2	3.5	3.7	3.1	3.4	3.5	3.5	3.7	2.5
Avg	1.8	1.8	1.7	1.8	1.8	1.7	1.6	1.9	2.8	3.5	3.7	3.7	3.9	4	4.1	4.1	3.8	3.2	2.4	2.1	2	2	1.9	2	2.6
S D	1.2	1.2	1	1.1	1	1	1.1	1.1	1.4	1.4	1.6	1.6	1.5	1.4	1.3	1.4	1.4	1.2	1.1	1.1	1.1	1.3	1.3	1.4	0.9
S/A	0.65	0.65	0.6	0.6	0.55	0.58	0.67	0.57	0.48	0.39	0.44	0.42	0.39	0.34	0.33	0.34	0.36	0.36	0.47	0.53	0.55	0.65	0.69	0.69	0.34
Min	0.1	0.1	0.1	0.1	0.1	0	0.1	0.1	0.4	1	1.2	1	1.9	1.9	1.5	2.2	1.8	1.9	0.3	0.2	0	0	0.2	0.1	1.4
Max	4.7	4.3	4.1	4.6	4.4	4.2	4	4.5	5.4	6.3	7.1	7.5	9	8.1	7.7	8.4	7.6	5.6	5.1	4.8	4.8	5.8	5.4	6.1	5
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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

March 2006

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	51	53	108	212	4	36	64	61	62	63	67	74	95	96	96	100	86	90	98	90	74	57	65	61	73
2	69	72	82	95	106	108	125	181	195	216	225	209	220	218	221	235	239	230	228	231	281	359	3	350	232
3	1	12	1	354	358	355	6	1	353	342	314	322	312	309	301	297	300	301	342	308	286	307	315	313	332
4	316	315	304	293	290	282	283	288	301	307	314	307	289	285	277	274	274	280	282	278	269	291	320	323	295
5	320	312	311	314	310	307	307	302	311	318	317	324	290	298	283	294	277	269	264	209	170	32	121	159	305
6	157	115	258	302	46	264	294	272	119	28	52	49	37	29	35	31	16	351	350	334	303	315	335	20	13
7	6	332	288	335	283	291	302	322	330	337	342	343	338	351	1	344	357	14	15	358	356	357	295	283	343
8	284	296	288	292	285	281	292	295	309	348	299	353	263	232	210	179	186	165	140	145	156	159	169	191	200
9	181	191	194	186	194	189	182	185	191	195	191	195	188	181	180	182	181	181	183	184	182	176	181	178	185
10	179	178	179	179	182	180	188	188	191	194	197	210	216	219	217	217	217	215	220	212	221	215	220	220	204
11	221	219	216	202	221	227	245	253	267	360	58	58	58	73	73	83	94	77	90	96	91	81	91	100	88
12	119	119	118	151	174	178	178	192	202	222	218	214	220	237	210	215	207	196	182	179	185	188	196	198	198
13	203	208	199	198	200	205	198	213	216	221	213	213	209	201	198	191	191	190	183	181	182	189	195	198	199
14	200	203	195	200	200	202	198	203	211	222	233	271	280	273	270	271	288	289	282	280	290	283	278	274	246
15	271	273	269	266	265	263	265	270	289	290	288	286	274	277	270	271	265	263	261	253	253	274	250	238	272
16	256	262	259	310	240	170	327	311	54	84	145	198	255	244	247	253	255	234	133	120	121	129	154	162	229
17	196	198	183	169	188	174	349	353	62	49	45	29	31	28	32	42	45	54	49	47	47	31	13	348	40
18	264	272	289	300	285	289	305	315	329	320	320	318	300	296	274	295	296	294	128	116	151	147	82	302	302
19	294	266	301	315	319	313	318	348	344	334	303	292	282	268	264	260	262	264	243	240	246	232	218	227	285
20	233	284	308	358	27	23	11	43	35	350	312	282	257	252	255	268	274	261	274	292	22	55	331	344	301
21	343	279	67	27	29	41	34	38	48	51	49	53	45	36	32	34	18	359	345	340	359	324	314	294	26
22	292	292	297	299	292	290	300	308	318	316	326	325	327	312	303	295	296	286	284	285	126	49	12	310	
23	357	333	323	322	311	321	316	325	336	337	330	321	264	269	253	121	91	89	81	76	92	93	86	98	23
24	105	228	306	323	353	349	1	85	73	70	18	19	21	26	35	35	41	32	7	10	358	347	341	321	23
25	330	328	292	286	288	289	281	287	311	343	10	358	11	34	31	21	8	14	18	302	266	265	274	268	337
26	276	278	277	284	287	288	287	293	304	320	314	315	288	293	294	285	295	294	289	266	261	260	267	266	290
27	272	274	285	285	283	290	287	296	317	323	325	318	291	288	296	297	255	118	124	124	124	136	149	156	288
28	166	194	205	208	202	201	208	218	222	215	225	209	213	206	213	205	193	183	160	165	164	200	192	108	203
29	203	221	235	237	252	271	288	318	313	348	29	51	43	40	46	43	42	48	48	46	46	38	10	339	21
30	341	271	26	261	317	331	2	332	30	52	61	80	88	101	96	94	88	83	81	103	118	144	120	123	92
31	116	136	125	248	252	271	292	239	203	235	223	198	180	181	172	142	154	166	162	167	175	183	191	191	181
Avg	256	258	256	269	271	271	273	278	301	303	288	291	274	267	257	256	256	247	184	183	190	190	220	233	270
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: NRG Vane Serial Number: 0 Calibration Factor: 0.1408 deg/mV Calibration Date: 06/1995

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

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

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

March 2006

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	1.8	0.6	1.1	4.7	5.3	4	3.2	5.2	5.5	4.8	4.5	4.5	4.3	5	4.9	5	4.9	3.3	2.7	2.1	1.9	2	2.8	3.6
2	2.3	3.3	2.8	1.7	2	2	1.5	3.2	4.7	8.1	9.8	8.3	8.8	11.1	11.3	11.3	12	8.5	7.2	5.9	4.8	10.1	8.5	10	6.6
3	7.5	6.3	6.2	5.5	5.9	5.2	5.6	5.5	6.9	8.8	8.8	7.1	7.7	7.3	6.9	7.1	6.1	4.7	3.9	2.6	1.9	2.7	5	5.2	5.9
4	7.3	6.9	5.1	5.2	4.5	3.4	3	3.7	6	7.7	7.3	6.6	7.5	7.7	6.9	7.9	7.7	6	3.5	2.5	2.6	2.5	3.6	5.4	5.4
5	5.3	5.6	5.7	6.6	6.1	5.4	5	4.2	7.1	6.8	6.1	5.6	5.1	5	6	5.3	5.3	3.7	0.8	0.5	0.8	0.5	1.4	1.5	4.4
6	1.2	0.6	2.6	2.1	2.5	1.5	0.8	0.6	1.3	1.8	2.3	3.2	3.6	4.7	5.3	5.6	4.4	4.5	3.6	3.3	2.3	2.8	2.1	2.8	2.7
7	4.3	2.2	1.6	2.8	3	3.5	3.8	5.3	6.8	7	7.6	9.6	9.1	8.4	8.6	8.3	7.4	5.3	3.1	2.5	2.2	1.4	1	1.4	4.8
8	1.4	1.4	1.3	1.7	2	2.2	1.7	2.1	2.6	2.7	3	2.6	4.2	3.9	4.4	4.3	4.3	3.7	3.1	4.3	6.2	6.5	5.6	4.1	3.3
9	4.1	4.6	3.9	3.3	3.4	3.2	3.5	4.4	5.9	6	6.6	7.3	8.8	9	8.5	8.4	9	9.1	8.5	7.7	6.7	6.3	7	6.6	6.3
10	6.8	7.1	6.4	7.6	7.5	7.4	7.1	5.8	7.5	10	11.7	12.6	14.1	13.6	12.3	13.3	11.5	8.6	6	4.4	4.4	4.6	5	4.1	8.3
11	3.5	3.6	2.6	2.2	2.8	2.2	1.7	1.8	3.1	3.9	6.1	5.2	5.7	6.6	7	6.6	5.9	4.6	4.1	4	3.3	3	2.9	4.1	4
12	3.5	3.8	3.1	3.3	3.4	3.1	3.1	3.7	4.3	7.6	8.4	7.8	8.3	7.5	8.5	8.1	6.4	4.1	3.5	5.6	5.8	5.6	5.5	4.7	5.4
13	4.2	4	3.5	3.7	3.2	3	2.7	4.5	6.4	8.4	8.7	8.9	8.1	8.3	8.7	9.5	8.2	7.4	7	7.6	7.6	7.9	8.7	9.2	6.7
14	7.9	6.9	7.1	6.8	6.6	5.8	6.4	7.4	8.3	10.2	11.5	10	8.3	7.9	9.7	11.7	12.1	10.6	7.4	7.1	6.5	6	5.9	4.9	8
15	4.4	4.6	4.3	5.1	5.5	6.7	5.9	8.2	10.7	11.7	11.9	11.6	12.1	11.7	12.5	10.2	10.4	9.1	5.6	3.6	3.2	1.7	1.9	2.3	7.3
16	2.1	1.6	1.9	1.4	0.9	0.6	0.3	0.5	1.6	3.8	3.9	3.4	5.8	7.3	7.3	6.8	5.7	3.7	2.5	1.8	2	1.5	0.7	1.7	2.9
17	0.8	1.5	1.4	1.7	1.5	1.3	2.3	2.7	3.6	4.6	7.9	8.8	8.7	8.3	8.2	7.4	7	5.5	4.6	3.4	2.6	2	1.9	0.3	4.1
18	1	1.5	2	3.4	3	1.9	2.5	4.1	6	6.7	6.4	6.7	7.2	7.7	6.9	6.1	5.7	4.3	3	2.6	1.7	1.9	1.8	1.1	4
19	0.9	1.2	2.7	4.4	4.7	3.9	2.7	4.4	7.2	7.7	7	6.4	6	6.2	6.5	6.5	6.7	5.9	2.9	3.3	3.3	2.4	2.6	3	4.5
20	3	4.2	3	5.1	3.9	2.3	0.6	1.8	2.1	3.8	4.3	5.2	4.6	5.3	6.4	6.3	4.9	4	1.8	2	2.3	4.4	2.5	2.6	3.6
21	0.5	0.4	0.8	2.2	2.8	2.9	3	4.4	6.5	7	7.2	7.7	5.9	5.8	6.5	7.4	7	7.5	7.3	5.6	4.2	2.7	1.8	3.3	4.6
22	4.9	4.9	4.8	4.3	3.4	5.6	6.1	7.5	9.5	8.2	8	8.6	7.8	7.3	6.5	5.5	4.9	4.9	2.4	0.5	0	0.2	1.3	1.2	4.9
23	2.6	2.9	3.2	2.4	1.9	2.8	2	3	5.3	5.9	4.2	3.9	4.7	4	3.2	4.1	6.5	5.2	4	3.6	4	4.4	3.8	2.5	3.7
24	1.9	0.8	1.3	1	1.7	1.9	2.3	1.8	4.4	4.9	4.1	6	5.8	5.8	5.8	6.3	4.2	4.2	3.1	3.1	4.7	5	3.6	2.8	3.6
25	4.3	3.8	2.7	2.5	2.7	2.1	2.2	2.7	4	5	4.6	4.3	4.3	3.9	3.8	5.7	4.7	4.5	3.6	1.9	2.3	2.5	4.3	3.8	3.6
26	4.4	5	3.7	4.2	2.8	3.3	3.6	3.8	5.4	6.6	5.8	5.3	7.3	6.6	6.6	7.4	6.4	5.6	3.4	2.4	2.7	2.6	2.8	2.7	4.6
27	2.8	3.1	3.1	2.1	2.3	2.9	2.7	3.7	6.4	6.4	5.7	4.9	5.1	6.1	6.3	4.8	3.7	4.9	3.5	3.3	3.2	3.1	2.7	2.7	4
28	1.9	1.4	1.8	1.9	1.7	2	2.7	4.2	4	5.6	8.6	9.5	9.2	8.6	9	8.1	6.7	4.1	3.4	4.3	3.8	2.2	1.2	1.4	4.5
29	2	3.2	3.8	2.9	3	3.4	2.7	3.2	3.2	3.6	4	4.1	6.7	6.2	6	5.6	5	4.5	3.1	2.3	2.8	2.3	1	0.9	3.6
30	1	0.5	0.5	0.3	0.7	0.3	0.6	0.6	1.3	2.3	3.3	4.1	5.4	5.8	5.1	5.4	5.9	5	3.9	3.2	2.3	2	2.2	2.2	2.7
31	1.9	1.3	1.9	1.8	1.9	1.7	0.4	2	2.5	4.8	4.9	5.2	5.4	6.2	6.6	6.2	5.3	5.9	6	5.2	5.8	6.2	6	6.1	4.2
Avg	3.3	3.2	3.1	3.2	3.3	3.2	3	3.7	5.2	6.2	6.6	6.6	7	7	7.2	7.2	6.6	5.6	4.2	3.6	3.5	3.5	3.4	3.5	4.7
SD	2.1	2	1.7	1.8	1.7	1.7	1.8	1.9	2.4	2.4	2.6	2.5	2.3	2.2	2.2	2.2	2.3	1.9	1.8	1.8	1.8	2.3	2.2	2.3	1.5
S/A	0.63	0.63	0.57	0.56	0.51	0.55	0.61	0.52	0.46	0.38	0.39	0.38	0.34	0.32	0.31	0.3	0.34	0.33	0.44	0.5	0.52	0.65	0.64	0.65	0.32
Min	0.5	0.4	0.5	0.3	0.7	0.3	0.3	0.5	1.3	1.8	2.3	2.6	3.6	3.9	3.2	4.1	3.7	3.7	0.8	0.5	0	0.2	0.7	0.3	2.7
Max	7.9	7.1	7.1	7.6	7.5	7.4	7.1	8.2	10.7	11.7	11.9	12.6	14.1	13.6	12.5	13.3	12.1	10.6	8.5	7.7	7.6	10.1	8.7	10	8.3
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

March 2006

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	1008	1008	1008	1008	1009	1010	1010	1011	1012	1012	1013	1013	1012	1011	1011	1011	1011	1011	1011	1011	1011	1011	1010	1010	1010	
2	1009	1009	1008	1007	1006	1006	1005	1004	1004	1003	1002	1000	999	998	996	996	995	995	996	997	998	1001	1003	1005	1002	
3	1006	1008	1009	1009	1010	1011	1012	1013	1014	1014	1014	1014	1013	1013	1012	1012	1013	1013	1014	1014	1014	1015	1015	1016	1012	
4	1017	1017	1017	1017	1017	1018	1018	1019	1019	1019	1019	1019	1018	1016	1016	1016	1016	1016	1017	1017	1018	1018	1019	1020	1018	
5	1020	1020	1020	1020	1021	1021	1022	1022	1022	1022	1022	1021	1020	1020	1019	1018	1018	1018	1018	1018	1018	1018	1018	1017	1020	
6	1017	1016	1016	1015	1015	1015	1015	1015	1016	1015	1015	1014	1014	1012	1012	1012	1012	1012	1013	1013	1014	1014	1014	1013	1014	
7	1012	1013	1013	1013	1014	1015	1015	1016	1016	1017	1017	1017	1017	1016	1016	1017	1017	1018	1018	1019	1019	1020	1020	1020	1016	
8	1020	1020	1019	1019	1019	1020	1020	1021	1021	1021	1021	1020	1019	1018	1017	1016	1016	1016	1017	1017	1017	1017	1016	1016	1019	
9	1016	1015	1015	1014	1014	1015	1015	1015	1015	1015	1015	1014	1014	1012	1012	1011	1011	1011	1011	1011	1011	1012	1012	1012	1013	
10	1011	1010	1010	1009	1009	1010	1010	1011	1011	1011	1011	1010	1010	1010	1010	1010	1010	1010	1012	1013	1014	1015	1015	1016	1011	
11	1016	1016	1016	1017	1018	1019	1020	1021	1022	1022	1022	1022	1022	1021	1021	1021	1022	1022	1022	1022	1022	1023	1023	1023	1022	1021
12	1021	1021	1021	1020	1020	1020	1020	1021	1021	1021	1020	1020	1019	1018	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1018	
13	1016	1016	1015	1014	1015	1015	1015	1015	1015	1015	1014	1013	1012	1011	1010	1009	1008	1007	1007	1007	1007	1006	1006	1006	1011	
14	1005	1005	1004	1003	1003	1003	1002	1002	1002	1002	1002	1003	1002	1002	1002	1002	1003	1005	1006	1007	1009	1010	1011	1011	1004	
15	1011	1012	1012	1012	1012	1013	1014	1015	1015	1016	1015	1015	1014	1014	1013	1013	1013	1013	1014	1015	1015	1016	1016	1016	1014	
16	1016	1017	1017	1017	1018	1018	1018	1018	1019	1019	1018	1018	1017	1016	1015	1014	1013	1013	1014	1014	1014	1014	1014	1013	1016	
17	1013	1012	1012	1011	1011	1011	1011	1012	1011	1011	1012	1012	1012	1012	1012	1013	1013	1013	1014	1014	1014	1015	1015	1015	1013	
18	1015	1015	1015	1015	1016	1016	1017	1017	1018	1018	1018	1017	1016	1015	1015	1014	1014	1014	1014	1015	1015	1015	1015	1015	1016	
19	1016	1016	1016	1017	1018	1018	1019	1019	1019	1019	1018	1018	1017	1016	1015	1015	1014	1014	1015	1015	1016	1016	1016	1016	1016	
20	1015	1016	1016	1016	1017	1017	1017	1017	1018	1018	1017	1017	1016	1015	1015	1015	1014	1014	1013	1014	1015	1015	1016	1015	1016	
21	1014	1014	1012	1012	1011	1011	1011	1010	1010	1009	1008	1007	1006	1005	1005	1004	1003	1004	1005	1005	1005	1005	1005	1006	1008	
22	1006	1007	1008	1008	1008	1010	1011	1012	1012	1014	1014	1014	1014	1014	1015	1015	1016	1017	1017	1018	1018	1018	1019	1019	1013	
23	1019	1019	1020	1020	1020	1020	1020	1021	1022	1022	1022	1021	1020	1019	1019	1018	1018	1019	1019	1019	1019	1019	1018	1017	1020	
24	1016	1017	1016	1016	1015	1015	1015	1015	1015	1015	1014	1014	1013	1012	1012	1011	1011	1011	1011	1011	1011	1011	1011	1011	1013	
25	1010	1010	1009	1009	1009	1010	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1012	1012	1013	1013	1013	1013	1011	
26	1013	1012	1012	1012	1012	1013	1014	1014	1015	1015	1015	1015	1015	1015	1014	1015	1015	1016	1016	1017	1018	1018	1018	1019	1015	
27	1019	1019	1019	1020	1020	1021	1022	1023	1023	1024	1024	1024	1023	1022	1022	1021	1021	1021	1021	1022	1022	1022	1023	1023	1022	
28	1023	1022	1022	1022	1022	1023	1023	1024	1024	1024	1023	1022	1021	1020	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1021	
29	1018	1018	1018	1018	1018	1018	1019	1019	1020	1020	1020	1020	1021	1021	1021	1021	1021	1021	1021	1022	1022	1023	1024	1024	1020	
30	1024	1023	1024	1024	1024	1024	1025	1025	1026	1027	1027	1027	1026	1026	1025	1025	1024	1025	1025	1025	1025	1025	1025	1024	1025	
31	1024	1024	1024	1024	1024	1025	1025	1025	1025	1025	1025	1024	1024	1022	1021	1021	1020	1020	1020	1020	1019	1019	1019	1019	1022	
Avg	1015	1015	1015	1015	1015	1015	1016	1016	1017	1017	1016	1016	1015	1015	1014	1014	1014	1014	1014	1015	1015	1015	1016	1016	1015	
S D	5	5	5	5	5	5	5	6	6	6	6	6	6	6	6	6	6	6	6	6	6	5	5	5	5	
S/A	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	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	1002	1002	1002	1002	1002	1000	999	998	996	996	995	995	996	997	998	1001	1003	1005	1002	
Max	1024	1024	1024	1024	1024	1025	1025	1025	1026	1027	1027	1027	1026	1026	1025	1025	1024	1025	1025	1025	1025	1025	1025	1024	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% untested; 0.0% failed QC -- 8928 total measurements.

Instrument: Viasala PTA-427 Serial Number: 493926 Calibration Factor: 0.104 mBar/mV + 800 mBar Calibration Date: 06/1995

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

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

Prepared by: Afshin M. Andreas, NREL

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

March 2006

Battery Voltage (CR10)
Hourly and Daily Averages
Instrument: CSI
Volts DC

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.9	13.5	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.7	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
2	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.7	13.5	13.5	13.4	13.3	13.3	13.3	13.3	13.3	12.9	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13
3	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.6	13.9	13.8	13.8	13.7	13.7	13.7	13.6	13.6	13.7	13.1	12.8	12.7	12.7	12.7	12.7	12.6	12.6	13.1
4	12.6	12.6	12.6	12.5	12.5	12.5	12.6	14	13.9	13.9	13.8	13.7	13.7	13.7	13.7	13.7	13.7	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13.1
5	12.6	12.6	12.6	12.6	12.5	12.5	12.6	13.9	13.9	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.1
6	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.6	12.7	13	13.1	13.2	13	13.2	12.8	12.7	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.7
7	12.4	12.4	12.4	12.4	12.4	12.4	12.5	13.6	13.8	13.8	13.8	13.7	13.7	13.7	13.7	13.7	13.7	13.1	12.8	12.7	12.7	12.7	12.6	12.6	12.6	13.1
8	12.6	12.6	12.6	12.6	12.6	12.6	12.7	14	13.9	13.8	13.7	13.6	13.5	13.5	13.5	13.6	13.6	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.1
9	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.5	13.7	13.6	13.6	13.5	13.4	13.4	13.4	13.4	13.4	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
10	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.1	13.4	13.4	13.4	13.3	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
11	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.2	13.5	13.4	13.4	13.4	13.3	13.3	13.3	13.3	13.4	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
12	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	13.3	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.2	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
13	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.1	13.4	13.4	13.3	13.3	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
14	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.3	13.4	13.4	13.4	13.1	13.5	13.5	13.5	13.4	13.4	13	12.8	12.7	12.7	12.7	12.7	12.7	12.6	13
15	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.9	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.1
16	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13	13.5	13.7	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
17	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.7	13	13.5	13.6	13.5	13.5	13.5	13.6	13.6	13.6	13.1	12.8	12.7	12.7	12.7	12.7	12.6	12.6	13
18	12.6	12.6	12.6	12.5	12.5	12.5	12.8	13.9	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13	12.8	12.7	12.7	12.7	12.6	12.6	12.6	13.1
19	12.6	12.6	12.6	12.5	12.5	12.5	12.9	13.9	13.8	13.8	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	13.1
20	12.6	12.6	12.6	12.6	12.5	12.5	13	13.9	13.8	13.6	13.6	13.5	13.5	13.6	13.6	13.6	13.2	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.1
21	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.7	12.9	12.8	12.9	12.9	12.8	12.9	12.8	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6
22	12.5	12.4	12.4	12.4	12.4	12.4	12.8	13.9	13.9	13.8	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13.1
23	12.7	12.6	12.6	12.6	12.6	12.6	13	13.9	13.8	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.7	13.3	12.8	12.7	12.7	12.7	12.7	12.7	13.1
24	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	12.9	13.3	13.4	13.2	12.9	12.8	12.7	12.7	12.6	12.6	12.5	12.5	12.7
25	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.7	13.7	13.7	13.6	13.5	13.6	13.7	13.7	13.6	13.7	13.2	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13
26	12.7	12.6	12.6	12.6	12.6	12.6	13	13.9	13.8	13.7	13.7	13.6	13.6	13.6	13.7	13.6	13.7	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.1
27	12.6	12.6	12.6	12.6	12.6	12.5	13.1	13.9	13.8	13.7	13.6	13.6	13.6	13.6	13.5	13.5	13.5	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.1
28	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.8	13.8	13.7	13.6	13.5	13.5	13.5	13.5	13.5	13.4	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13.1
29	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.7	13.6	13.5	13.4	13.4	13.5	13.5	13.5	13.5	13.5	13.1	12.8	12.7	12.7	12.7	12.7	12.6	12.6	13
30	12.6	12.6	12.6	12.6	12.6	12.5	12.6	13.5	13.7	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13.5	12.9	12.8	12.7	12.7	12.7	12.7	12.6	12.6	13
31	12.6	12.6	12.6	12.6	12.6	12.5	13	13.7	13.6	13.5	13.4	13.3	13.3	13.3	13.3	13.3	13.3	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
Avg	12.6	12.6	12.6	12.6	12.6	12.5	12.7	13.4	13.6	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13.4	13	12.8	12.7	12.7	12.7	12.7	12.6	12.6	13
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.4	0.3	0.3	0.2	0.2	0.2	0.2	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
S/A	0	0	0	0	0	0	0.01	0.04	0.03	0.02	0.02	0.02	0.02	0.02	0.01	0.02	0.02	0.01	0.01	0.01	0.01	0	0	0	0	0.01
Min	12.4	12.4	12.4	12.4	12.4	12.4	12.5	12.5	12.6	12.6	12.6	12.6	12.7	12.8	12.9	12.8	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6
Max	12.7	12.7	12.7	12.7	12.6	12.6	13.1	14	13.9	13.9	13.8	13.7	13.7	13.7	13.7	13.7	13.7	13.7	13.3	12.8	12.8	12.8	12.7	12.7	12.7	13.1
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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