

Elizabeth City State University
36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5

February 2002

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	16	104	326	490	566	578	535	424	277	86	19	0	0	0	0	0	0	3421
2	0	0	0	0	0	0	0	34	208	392	531	615	635	581	478	285	118	27	0	0	0	0	0	0	3904
3	0	0	0	0	0	0	0	21	105	202	333	390	297	273	216	133	49	6	0	0	0	0	0	0	2025
4	0	0	0	0	0	0	0	49	207	386	521	611	478	345	317	118	52	9	0	0	0	0	0	0	3093
5	0	0	0	0	0	0	0	58	220	397	525	638	661	603	497	333	134	33	0	0	0	0	0	0	4100
6	0	0	0	0	0	0	0	33	101	216	337	421	552	401	329	172	58	8	0	0	0	0	0	0	2628
7	0	0	0	0	0	0	0	2	13	42	89	93	107	106	79	55	32	8	0	0	0	0	0	0	627
8	0	0	0	0	0	0	0	44	151 ?	413 ?	545	629	644	602	489	332	138	21	0	0	0	0	0	0	4009
9	0	0	0	0	0	0	0	57	232	415	550	629	643	593	483	328	140	26	0	0	0	0	0	0	4095
10	0	0	0	0	0	0	3	43	192	405	402	540	423	443	262	171	36	5	0	0	0	0	0	0	2925
11	0	0	0	0	0	0	0	41	244	423	545	646	674	632	523	364	165	30	0	0	0	0	0	0	4286
12	0	0	0	0	0	0	3	67	250	435	570	654	673	626	517	360	164	29	0	0	0	0	0	0	4348
13	0	0	0	0	0	0	1	57	243	400	538	625	550	516	336	271	151	31	0	0	0	0	0	0	3718
14	0	0	0	0	0	0	3	55	225	440	584	670	691	641	530	370	171	33	0	0	0	0	0	0	4413
15	0	0	0	0	0	0	6	65	183	351	463	599	605	513	387	295	128	25	0	0	0	0	0	0	3622
16	0	0	0	0	0	0	1	47	164	115	219	468	649	602	502	331	147	27	0	0	0	0	0	0	3271
17	0	0	0	0	0	0	2	76	274	461	600	375	298	291	204	324	141	20	0	0	0	0	0	0	3066
18	0	0	0	0	0	0	4	85	283	465	606	693	711	664	550	388	186	35	0	0	0	0	0	0	4668
19	0	0	0	0	0	0	11	102	287	473	615	700	696	617	581	372	115	24	0	0	0	0	0	0	4593
20	0	0	0	0	0	0	9	35	158	339	484	592	556	481	347	145	77	7	0	0	0	0	0	0	3231
21	0	0	0	0	0	0	4	82	251 ?	444	598	617	617	584	529	374	194	39	0	0	0	0	0	0	4331
22	0	0	0	0	0	0	3	92	284	447	496	622	455	372	240	156	62	10	0	0	0	0	0	0	3240
23	0	0	0	0	0	0	2	19	65	83	109	153	113	208	254	200	121	25	0	0	0	0	0	0	1352
24	0	0	0	0	0	0	5	66	293	488	654	731	746	700	588	421	210	39	0	0	0	0	0	0	4942
25	0	0	0	0	0	0	12	106	289	478	593	694	735	697	598	429	218	52	0	0	0	0	0	0	4900
26	0	0	0	0	0	0	24	114	177	471	610	712	730	678	566	397	201	35	0	0	0	0	0	0	4715
27	0	0	0	0	0	0	1	13	29	48	37	341	229	419	180	367	218	53	0	0	0	0	0	0	1935
28	0	0	0	0	0	0	15	129	341	529	672	760	777	726	610	441	235	53	0	0	0	0	0	0	5289

Avg	0	0	0	0	0	0	4	57	199	360	476	564	554	516	415	293	134	26	0	0	0	0	0	0	3598
S/D	0	0	0	0	0	0	6	32	84	140	173	165	188	161	150	107	60	14	0	0	0	0	0	0	1126
S/A	0	0	0	0	0	0	1.44	0.56	0.42	0.39	0.36	0.29	0.34	0.31	0.36	0.36	0.45	0.54	0	0	0	0	0	0	0.31
Min	0	0	0	0	0	0	0	2	13	42	37	93	107	106	79	55	32	5	0	0	0	0	0	0	627
Max	0	0	0	0	0	0	24	129	341	529	672	760	777	726	610	441	235	53	0	0	0	0	0	0	5289
n	0	0	0	0	0	0	51	332	326	333	336	336	336	336	336	336	335	232	0	0	0	0	0	0	3625

Daylight Data Recovery: 0.0% missing; 0.4% exceed the 15% QC threshold -- 3639 total daylight measurements.

Instrument: Eppley PSP Serial Number: 25823F3 Calibration Factor: 9.830 μV/W/m² Calibration Date: 05/1998

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
36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5

February 2002

Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Instrument: Eppley NIP
Watt-Hours per Square Meter

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	0	40	445	793	856	832	806	751	647	179	79	0	0	0	0	0	0	5427
2	0	0	0	0	0	0	0	165	701	857	931	958	965	925	921	594	298	145	0	0	0	0	0	0	7458
3	0	0	0	0	0	0	0	0	2	14	85	103	17	10	5	0	0	0	0	0	0	0	0	0	236
4	0	0	0	0	0	0	0	332	660	804	861	818	514	201	313	98	102	33	0	0	0	0	0	0	4735
5	0	0	0	0	0	0	0	331	621	782	698	843	983	968	953	857	534	211	0	0	0	0	0	0	7781
6	0	0	0	0	0	0	0	1	3	28	94	179	469	110	120	18	0	0	0	0	0	0	0	0	1021
7	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
8	0	0	0	0	0	0	0	94	626 ?	859 ?	912	933	931	942	911	842	667	268	0	0	0	0	0	0	7986
9	0	0	0	0	0	0	0	336	694	821	872	884	873	845	791	683	458	127	0	0	0	0	0	0	7384
10	0	0	0	0	0	0	0	150	600	744	295	327	176	179	30	32	0	0	0	0	0	0	0	0	2532
11	0	0	0	0	0	0	0	167	750	844	804	912	968	979	952	881	720	334	0	0	0	0	0	0	8312
12	0	0	0	0	0	0	2	434	768	881	926	942	946	940	909	837	661	261	0	0	0	0	0	0	8507
13	0	0	0	0	0	0	1	274	686	725	757	760	450	371	137	254	434	229	0	0	0	0	0	0	5079
14	0	0	0	0	0	0	1	39	455	844	917	949	960	944	918	840	657	276	0	0	0	0	0	0	7799
15	0	0	0	0	0	0	7	114	107	375	358	641	577	397	198	237	66	0	0	0	0	0	0	0	3077
16	0	0	0	0	0	0	0	21	55	6	4	285	788	808	785	633	455	175	0	0	0	0	0	0	4015
17	0	0	0	0	0	0	0	398	794	886	802	175	71	70	67	473	152	1	0	0	0	0	0	0	3890
18	0	0	0	0	0	0	0	470	782	870	921	951	957	953	919	845	679	318	0	0	0	0	0	0	8664
19	0	0	0	0	0	0	92	525	804	903	952	964	824	671	893	659	125	0	0	0	0	0	0	0	7414
20	0	0	0	0	0	0	42	2	49	243	356	357	273	223	72	14	1	0	0	0	0	0	0	0	1631
21	0	0	0	0	0	0	0	250	655 ?	764	811	692	652	708	797	735	658	299	0	0	0	0	0	0	7024
22	0	0	0	0	0	0	1	416	724	773	508	517	153	50	6	1	0	0	0	0	0	0	0	0	3147
23	0	0	0	0	0	0	0	0	0	0	0	0	0	2	6	13	24	0	0	0	0	0	0	0	45
24	0	0	0	0	0	0	1	135	627	745	884	912	927	940	919	854	675	249	0	0	0	0	0	0	7869
25	0	0	0	0	0	0	8	330	743	778	698	738	842	921	948	888	707	310	0	0	0	0	0	0	7912
26	0	0	0	0	0	0	88	184	210	728	808	903	910	899	862	760	578	126	0	0	0	0	0	0	7056
27	0	0	0	0	0	0	0	0	0	0	0	112	40	229	10	446	638	346	0	0	0	0	0	0	1821
28	0	0	0	0	0	0	184	602	835	923	962	990	997	984	949	889	760	402	0	0	0	0	0	0	9476

Avg	0	0	0	0	0	0	15	206	464	594	607	632	611	574	541	501	365	150	0	0	0	0	0	0	5261
S D	0	0	0	0	0	0	41	185	328	348	356	347	371	388	414	353	294	139	0	0	0	0	0	0	3025
S/A	0	0	0	0	0	0	2.7	0.9	0.71	0.59	0.59	0.55	0.61	0.68	0.77	0.7	0.8	0.93	0	0	0	0	0	0	0.58
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	1
Max	0	0	0	0	0	0	184	602	835	923	962	990	997	984	953	889	760	402	0	0	0	0	0	0	9476
n	0	0	0	0	0	0	51	332	324	333	336	336	336	336	336	336	336	232	0	0	0	0	0	0	3624

Daylight Data Recovery: 0.0% missing; 0.4% exceed the 15% QC threshold -- 3639 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25519E6 Calibration Factor: 7.533 μV/W/m² Calibration Date: 05/1998

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
36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5

February 2002

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	16	90	134	83	69	80	86	78	60	58	15	0	0	0	0	0	0	768
2	0	0	0	0	0	0	0	14	43	52	55	57	58	65	53	83	68	20	0	0	0	0	0	0	569
3	0	0	0	0	0	0	0	20	99	188	286	324	282	249	200	126	47	6	0	0	0	0	0	0	1829
4	0	0	0	0	0	0	0	21	50	64	75	127	160	224	163	86	40	7	0	0	0	0	0	0	1016
5	0	0	0	0	0	0	0	33	64	76	151	131	60	49	45	39	38	19	0	0	0	0	0	0	705
6	0	0	0	0	0	0	0	30	94	203	280	294	237	329	259	158	54	7	0	0	0	0	0	0	1946
7	0	0	0	0	0	0	0	2	13	40	84	88	102	101	75	52	30	7	0	0	0	0	0	0	594
8	0	0	0	0	0	0	0	29	47	51	53	61	61	53	46	35	21	8	0	0	0	0	0	0	464
9	0	0	0	0	0	0	0	23	49	62	71	79	85	87	83	73	50	17	0	0	0	0	0	0	680
10	0	0	0	0	0	0	?	26	56	79	223	305	295	317	233	148	34	4	0	0	0	0	0	0	1721
11	0	0	0	0	0	0	0	16	41	57	97	77	57	52	47	41	29	11	0	0	0	0	0	0	525
12	0	0	0	0	0	0	3	21	42	51	57	62	65	63	58	50	36	13	0	0	0	0	0	0	521
13	0	0	0	0	0	0	1	23	51	76	104	132	234	269	254	170	63	16	0	0	0	0	0	0	1394
14	0	0	0	0	0	0	3	48	90	63	65	64	63	63	58	50	37	15	0	0	0	0	0	0	618
15	0	0	0	0	0	0	7 ?	55	153	160	237	162	202	223	266	187	105	24	0	0	0	0	0	0	1780
16	0	0	0	0	0	0	1	42	140	106	207	263	123	102	91	81	54	15	0	0	0	0	0	0	1224
17	0	0	0	0	0	0	2	23	42	56	137	254	237	235	158	133	97	19	0	0	0	0	0	0	1393
18	0	0	0	0	0	0	4	27	50	62	68	68	68	64	58	51	37	14	0	0	0	0	0	0	571
19	0	0	0	0	0	0	7 ?	28	47	54	57	63	130	178	104	100	77	22	0	0	0	0	0	0	865
20	0	0	0	0	0	0	9 ?	33	138	223	267	341	356	328	301	133	71	7	0	0	0	0	0	0	2207
21	0	0	0	0	0	0	3	47	70 ?	88	112	142	167	124	87	75	43	15	0	0	0	0	0	0	973
22	0	0	0	0	0	0	3	32	54	73	167	248	325	336	219	141	58	9	0	0	0	0	0	0	1665
23	0	0	0	0	0	0	2	18	60	77	101	142	105	190	238	185	114	23	0	0	0	0	0	0	1255
24	0	0	0	0	0	0	5	39	80	112	106	99	94	80	69	59	42	19	0	0	0	0	0	0	804
25	0	0	0	0	0	0	10	39	62	90	147	169	130	83	62	51	42	24	0	0	0	0	0	0	908
26	0	0	0	0	0	0	29 ?	90	90	101	98	80	83	79	73	68	53	22	0	0	0	0	0	0	867
27	0	0	0	0	0	0	1	12	27	44	35	246	195	252	162	177	56	22	0	0	0	0	0	0	1227
28	0	0	0	0	0	0	11	33	51	58	63	62	61	63	62	53	40	18	0	0	0	0	0	0	575

Avg	0	0	0	0	0	0	4	30	68	89	124	150	147	155	129	95	53	15	0	0	0	0	0	0	1060
S D	0	0	0	0	0	0	6	17	34	49	75	94	91	101	84	50	23	6	0	0	0	0	0	0	506
S/A	0	0	0	0	0	0	1.61	0.56	0.5	0.55	0.6	0.62	0.62	0.65	0.65	0.53	0.42	0.4	0	0	0	0	0	0	0.48
Min	0	0	0	0	0	0	0	2	13	40	35	57	57	49	45	35	21	4	0	0	0	0	0	0	464
Max	0	0	0	0	0	0	29	90	153	223	286	341	356	336	301	187	114	24	0	0	0	0	0	0	2207
n	0	0	0	0	0	0	44	331	331	336	336	336	336	336	336	336	335	231	0	0	0	0	0	0	3624

Daylight Data Recovery: 0.0% missing; 0.4% exceed the 15% QC threshold -- 3639 total daylight measurements.

Instrument: Eppley PSP Serial Number: 25819F3 Calibration Factor: 9.070 μ V/W/m² Calibration Date: 05/1998

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
36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5

February 2002

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	17.4	17	16.9	17.6	17.5	17.4	17.8	18.6	19.4	20.7	22	23.1	24.3	25.3	25.8	26.1	25.6	24.5	22.5	20.9	20.4	20.8	20.6	18.6	20.9
2	13.5	10.7	10	9.3	8.5	7.5	6.7	5.8	5.7	6	6.3	6.5	6.9	6.9	7.2	6.9	6	4.8	4.1	3.6	3.7	3.5	3.3	3.3	6.5
3	3	3.3	3.5	3.4	3.1	3.3	3.5	3.7	4.4	5.8	7.4	8.9	9.5	9.2	9.3	9	8.3	7.7	7.2	6.9	6.6	6.2	6.1	5.4	6
4	4.3	4.1	3.8	3.5	3.4	2.9	1.9	1.7	3	5	7.5	8.6	9.1	9	8.6	5	5.5	5.2	2.9	1.7	0.8	-0.1	-0.6	-1.1	4
5	-1.7	-2.1	-2.4	-2.6	-2.9	-3.2	-3.6	-3.6	-3.1	-1.9	-0.8	0.4	1.5	2.4	3.6	4.3	4.2	3.2	1.9	1.2	0.7	0.7	0.5	0.5	-0.1
6	0.5	0.5	0.6	0.5	0.3	0	-0.3	-0.2	0.9	3	4.7	5.6	7	8.3	8.5	8.4	7.9	7.3	6.8	6.6	6.5	6	4.8	4	4.1
7	3.2	3.1	3.3	4.4	5.3	6.7	8.4	10.2	10.8	7.7	6.7	5.9	5.2	5.8	6.6	6.5	6.5	6.4	6.3	6	5.9	5.9	5.6	5.4	6.2
8	5.2	5	4.4	3.7	3	2.9	2.7	2.3	4.4	7	9.5	11.1	12.3	13.4	14.4	15.4	15.7	11.8	9	7.6	7	7.5	7.6	7	7.9
9	6.6	6.6	6.2	6.1	5.1	4.5	4.3	4.1	7.2	10.8	12.2	12.9	13.5	13.8	13.6	13	12.1	10.6	9	8.3	8.2	8.3	8	8	8.9
10	7.9	8	8.4	8.3	8.5	8.7	9.2	9.9	12.1	15.8	17.9	18.9	19.6	20.2	20	19.3	18.4	17.1	15.6	14.7	14	13.9	13.6	14	13.9
11	14.7	14.8	14.8	14.1	13	11.6	10.1	9	9.6	10.9	11.2	11.5	11.3	10.9	11.1	10.8	10.4	9.3	7.6	6.1	5.2	4.7	3.8	2.3	9.9
12	2.2	2	0	-0.2	-0.3	-0.2	1.5	2.6	5.2	7.4	9.1	10.6	12.3	13.3	14	14.5	14.6	13.8	12.4	11.5	11.1	10.7	9.4	9.3	7.8
13	9	8.7	8.2	7.6	6.4	5.8	5.9	6.1	7.7	9.3	10.7	11.8	12.7	13.1	12.8	10.6	9.2	8.1	7	6.4	6	5.4	5.2	4.7	8.3
14	4.2	3.8	3.3	2.8	2.8	2.8	2.9	2.9	4.1	6.1	7.4	7.9	8.3	8.4	8.4	8.1	7.4	6.2	5.2	4.8	4	3.6	2.6	2.5	5
15	2.5	2	1.5	1.4	1	1.1	1	1.5	3.7	7	10.5	12.8	14.3	15	16	16.3	16.1	14.8	13.8	14.2	13.8	12.9	12.4	12	9.1
16	11.8	11.5	11	10.2	9.3	9.1	8.6	8.4	9.4	10.4	11.2	13	15.4	16.2	16.8	16.9	16.8	15.8	14.3	12.8	11.3	10.6	10.3	9.8	12.1
17	9	8.5	8.8	8.6	9.2	9	7.9	7.5	7.9	9	9.5	9.3	9.3	9.4	8.6	8	8.2	6.5	5.3	4.6	3.3	3	3.6	3.1	7.4
18	2.3	1.6	0.9	0.3	-0.1	-0.5	-0.9	-0.5	0.6	2.1	3.1	4.7	6.1	7.4	8.5	9	9.1	8.4	6.8	5.2	3.8	2.8	2.2	1.9	3.5
19	0.8	0.3	0.2	-0.4	0.1	0.1	-0.6	0.8	3.5	6.6	9.4	11.3	13.1	14.1	14.7	14.8	13.9	10.5	9.1	9.2	8.7	8.6	8.6	8.6	6.9
20	8.5	7.8	7.2	6.8	6.9	6.9	7.5	8.3	9.8	13	16.3	18.5	19.4	19.5	20	19.1	18.3	16.6	15.6	16	16.5	16.6	16.7	16.6	13.7
21	16.3	15.9	15.6	15.4	15.2	15.1	14.6	14.4	15.2	16.5	17.3	18.2	19.2	19.7	20.2	20.7	20.4	19.4	17.5	16.4	15.5	14.3	13.3	13.2	16.6
22	12.5	11.7	11.1	10.5	10.2	9.3	8.3	8.9	11.3	12.8	15	16.3	16.7	17	16.5	16	15.3	13.9	12	11.4	10.8	10.9	10.2	9.5	12.4
23	8.8	8.1	7.4	7	6.9	6.8	6.6	6.1	6	6.3	6.5	6.4	6.2	6.6	7.2	7.1	7	6.4	5.9	5.6	5.6	5.3	5	4.9	6.5
24	4.7	4.6	4.3	3.7	3.5	3.6	3.7	3.8	5.5	7.4	8.4	8.8	9	9	9.1	9.3	8.9	7.8	6.7	6	5.2	4.5	3.5	2.6	6
25	2.1	1.9	1.9	1.5	0.9	0.4	0.5	2.2	5.7	8.6	9.6	11.3	12.4	13.4	14.7	15.9	15.9	12.9	10.5	9.5	9.5	9.6	9.4	8.9	7.9
26	8.3	8.1	8	8.4	8.3	8.3	8.3	9.8	11.6	14.3	16.7	18.4	20.1	21.1	21.7	21.9	20.8	19.1	17.5	16.6	15.9	15.2	14.6	14	14.5
27	13.4	13.5	13.4	13.1	11.9	10.4	8.8	7.5	6.3	4.6	3.5	3.7	4.1	3.3	3.6	5.2	4.7	3.4	2.1	1.3	0.6	-0.2	-1	-1.6	5.6
28	-2.1	-2.6	-3.1	-3.4	-3.6	-3.9	-4.3	-3.6	-2.2	-0.3	1.2	2.6	3.9	4.8	5.1	5.8	6	5.5	4.2	3.2	2.5	2.1	1.9	1.8	0.9

Avg	6.8	6.4	6	5.8	5.5	5.2	5	5.3	6.6	8.3	9.6	10.7	11.5	12	12.4	12.3	11.9	10.6	9.2	8.5	8	7.6	7.2	6.8	8.3
S/D	5.4	5.3	5.4	5.4	5.3	5.2	5.1	5.1	4.9	5	5.3	5.5	5.7	5.8	5.8	5.8	5.7	5.4	5.2	5.2	5.2	5.3	5.4	5.3	4.7
S/A	0.8	0.83	0.89	0.94	0.97	1	1.02	0.96	0.74	0.6	0.55	0.51	0.49	0.48	0.47	0.48	0.48	0.51	0.57	0.61	0.66	0.7	0.75	0.79	0.56
Min	-2.1	-2.6	-3.1	-3.4	-3.6	-3.9	-4.3	-3.6	-3.1	-1.9	-0.8	0.4	1.5	2.4	3.6	4.3	4.2	3.2	1.9	1.2	0.6	-0.2	-1	-1.6	-0.1
Max	17.4	17	16.9	17.6	17.5	17.4	17.8	18.6	19.4	20.7	22	23.1	24.3	25.3	25.8	26.1	25.6	24.5	22.5	20.9	20.4	20.8	20.6	18.6	20.9
n	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	8064

Data Recovery: 0.0% missing; 0.0% failed QC -- 8064 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
36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5

February 2002

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	?	?	?	?	?	?	?	?	98.7 ?	92.7	84.3	77.7	70.9	64	61.6	58.4	59.9	63.9	73	83.4	86.1	68.5	38.6	32.7	69.6 ?	
2	53.8	60.8	59.7	60	60.8	59	56	58	59.9	54.5	51.9	49.1	47.8	47.3	44.8	42.6	44.7	53.4	58.6	61.6	60.9	61.7	62.1	65.2	55.6	
3	72.2	70.1	70.9	73.6	71.7	72.4	72.2	73	72.7	70.7	69.9	65.2	62.3	60.4	58.9	57.6	55.4	50.8	51.2	47.5	50.8	54.9	59	76.9	64.2	
4	92.9	95.9	96.5	97.1	96.3	95.2	96.3	94.9	86.4	75	60.2	50.9	42.3	39.4	41.6	75.4	56.2	34.5	28.4	29.4	32.6	37.8	40.7	42	64.1	
5	43.4	45	46.6	47.9	47.2	48	49.4	46.7	43.4	41.2	36.5	34.8	32.5	30	26.6	24.2	25.6	29.5	34.3	35.4	38.8	41.6	43.3	43.5	39	
6	44.2	43.4	41.6	42.4	43.9	45.1	48.1	48.4	48.2	40.6	38.8	41	32.7	31.2	29.9	31	35.3	39	43.6	47.8	51.6	57.8	76.7	88.5	45.5	
7	96.9	99 ?	?	?	?	?	?	?	?	?	?	?	?	99.9 ?	99.6 ?	?	?	?	?	?	?	?	?	?	98.8 ?	
8	?	?	?	?	?	?	?	?	95.8 ?	85.6	66.9	58.2	50.4	42.2	40	36.9	35.4	62.8	73	80.4	85	83.5	79.8	82.4	66.1 ?	
9	84.6	82.2	81.2	80	84.6	90.7	88.3	87.7	72.8	61.1	59.7	63	64.5	65.4	68.4	71	75.9	83.5	92.7	96.9	98.7	99.9 ?	?	?	79.7 ?	
10	?	?	?	?	?	?	?	?	95.3 ?	81.2	71.6	72.6	67.8	61.7	62.6	70.6	78.4	89.8	?	?	?	99.9 ?	99.5	99.4 ?	80.8 ?	
11	?	?	99.5 ?	89	85.4	81.6	75.3	72.3	64.4	56.5	51.4	44.3	38.7	35.1	32.8	30.5	29.2	31.3	34.2	39.1	42.6	47.9	51.4	58.7	54.1 ?	
12	58.3	59.7	68.6	66.3	69.8	76.6	74.5	74.8	71.9	59.1	54	53.3	48	43.6	41	39.8	41.2	46.6	53.7	57.3	58.7	60.8	67.9	68	58.9	
13	69.8	70.8	71.9	72	75.4	73.7	67.8	68.3	66	60.9	55.7	47.2	40.3	38.3	42.4	53.8	58	63.1	64.9	66.1	70.4	75.9	73.1	72.2	63.3	
14	69.5	66.9	66.9	69.9	65.3	63.5	63.8	64.5	65.1	59.8	53.8	51.2	50.8	51.5	51.9	54.4	58.7	64.5	69.1	72	77.1	77.6	85.1	89	65.1	
15	91	93.1	95.2	98.3	99.7	?	?	99.3 ?	95.9	84.7	69.5	65.1	63.3	62.5	59	57.4	59.2	66.4	72.6	80	88.5	95.9	?	?	79.8 ?	
16	?	?	?	?	?	?	?	?	95.1 ?	84.7	76.7	69.3	58.5	50.6	43.1	42.9	48	46.1	51.8	59.9	67.9	76.7	82.4	83.1	64.8 ?	
17	86.9	88.8	81.1	72.7	56.6	52.7	57.4	52.4	51.4	45	40.9	41.3	40.7	39.8	43.7	48.2	43.8	49.8	54.2	62.3	68.4	61.4	45.5	44.3	55.4	
18	47.9	51.6	54.3	57.4	59.9	63.7	66.4	65.3	61.8	58.9	56.1	52.3	49.1	46.5	42.7	40	39.5	42.3	51	60.9	65	68	70.1	73.1	56	
19	76.9	77.9	78.5	83.9	88.1	88.3	93.6	84.5	69.6	56.3	41.6	35.6	29.9	31	28.3	27.3	32.7	53.1	60.6	60.5	61.6	65.7	66.7	63.9	60.7	
20	60.2	65.2	70.2	74.7	79.1	84.7	85.8	88.6	89.9	83.7	73.5	67.7	63.3	64.3	62.8	69.4	77.2	89.8	97	96.1	94.1	94.4	93.8	95.1	80	
21	97.9	99.5 ?	?	?	?	?	?	?	?	96.4	87.9	81.5	71.5	61	56.9	49.9	46.9	39.9	40.2	39.5	39.1	40.3	44.7	51.5	51.3	60.9 ?
22	51	54.6	57.1	61	63.3	68	73.7	71.4	61	54.1	46.2	41.2	39.6	39.3	41.6	42.6	45.2	59.5	75.8	77.6	79.4	69.7	70.5	71.8	59	
23	71.3	74.2	75.7	73	75	76.7	76.2	75.1	75.3	76.4	74.7	73.5	72.9	70.8	69	68.1	68.3	68	71.5	77.1	77.2	75.3	77.3	80	73.9	
24	82.3	83.9	86	89.1	90.3	82.1	73.9	71.7	71.1	70.5	66.7	65.9	65.4	64.9	64.9	66.1	66.2	69.8	75.1	78.5	84.9	91.5	96.6	99	77.3	
25	99.8 ?	?	?	?	?	?	?	?	?	94.6	85.2	81.9	75.3	71.4	64.2	30	28.8	36.5	69.2	85.6	93.6	88.1	88.7	94	96.1	75.5 ?
26	95.2	93.8	98 ?	96.1 ?	94.3	95.7	96.8	93.6	90.3	84.7	76.5	68.1	55.9	45.4	42.6	45.2	49.5	59.9	65.6	72.7	73.8	71.4	69	71	75.2	
27	77.1	80	81.8	80.9	63.4	69.1	78.2	86.6	91.7	92.7	98.7	95.9	90	99.9	99.6	75.4	78.4	89.8	97	96.9	98.7	99.9	99.5	99.4	98.8	
28	44.7	46.7	48.2	50.1	52.1	53.7	55.9	54.4	50.2	44.6	40.8	37	34.2	33.9	32.9	32.5	33	33.3	36.7	39.7	43.9	47.5	48.5	48.7	43.5	

Avg	72.5	72.9	72.8	73.1	72.5	72	72.5	72.9	75.4	68.5	62.2	58.1	53.5	52.4	49.8	48.6	49.1	55.3	59.6	63.5	66.3	68.8	67.3	69.5	65.5 ?	
S D	19	18.1	17.2	16.1	16.4	15.3	14.7	15.5	17.3	16.6	16.1	15.4	15.1	17.1	17.3	15.1	15.3	17.2	18.7	19.8	19.4	18.9	18.9	19.9	13	
S/A	0.26	0.25	0.24	0.22	0.23	0.21	0.2	0.21	0.23	0.24	0.26	0.26	0.28	0.33	0.35	0.31	0.31	0.31	0.31	0.31	0.29	0.28	0.28	0.29	0.2	
Min	43.4	43.4	41.6	42.4	43.9	45.1	48.1	46.7	43.4	40.6	36.5	34.8	29.9	30	26.6	24.2	25.6	29.5	28.4	29.4	32.6	37.8	38.6	32.7	39	
Max	99.8	99.5	99.5	98.3	99.7	95.7	96.8	99.3	98.7	92.7	98.7	95.9	90	99.9	99.6	75.4	78.4	89.8	97	96.9	98.7	99.9	99.5	99.4	98.8	
n	266	249	238	249	251	240	240	244	302	324	324	324	324	324	330	332	324	324	323	312	312	312	310	300	296	7050

Data Recovery: 0.0% missing; 12.6% failed QC -- 8064 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
36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5

February 2002

Dry Bulb Temperature (CR10)
Hourly and Daily Averages
Instrument: CSI
Degrees Celsius

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	17.1	16.9	16.7	16.8	17.1	17.1	17.3	17.9	18.7	20.1	22.4	24.2	25.6	26.6	27.2	27.5	27.2	26.2	24.2	22.3	21.1	20.5	20.5	19.9	21.3
2	18	14.2	11.8	10.3	9.3	8.5	7.5	6.4	6.2	7.3	8.4	9.4	10.1	10.4	10.2	10	9	7.2	4.8	3.1	2.4	2.1	1.7	1.4	7.9
3	1.4	1.4	1.6	1.9	2	2.4	2.7	3	3.4	4.6	6.8	9.5	11.3	11.6	11.3	10.8	9.9	8.8	7.9	7.4	7	6.6	6.4	6.1	6.1
4	5.3	4.5	3.9	2.9	2.5	2.2	1.5	0.8	2	4.5	7.5	10	11.5	11.3	10.8	9.2	6.7	6.1	4.9	2.7	1.1	-0.2	-1	-1.5	4.6
5	-2.1	-2.7	-3.2	-3.5	-3.9	-4.2	-4.5	-4.7	-3.5	-1.7	0.4	2.8	4.4	5.6	6	6.5	6.5	5.2	2.7	0.6	-0.4	-0.8	-1.1	-1.1	0.1
6	-1	-1.1	-1.1	-1	-0.9	-1.2	-1.5	-1.6	-1.1	0.6	3.4	6.4	8.5	10.2	11	10.9	9.8	8.6	7.5	6.8	6.5	6.3	5.7	4.6	4
7	3.7	3.3	3.3	3.6	4.4	5.3	6.6	8.3	9.7	10.1	8.7	7.8	7.1	6.8	7.2	7.1	7	6.8	6.5	6.3	6.2	6.1	6	5.9	6.4
8	5.6	5.2	4.6	3.6	2.8	2.6	2.2	2	3	5.9	9.5	12.4	14.4	15.8	16.6	17.3	17.8	16.4	11.8	8.3	6.5	5.4	5.2	5.2	8.3
9	4.9	4.3	4.2	4	3.7	2.6	2	1.9	4.1	8.2	11.9	14.4	15.9	16.8	17	16.5	15.6	13.7	10.9	8.8	7.8	7.3	7.1	6.9	8.8
10	6.8	6.6	6.7	6.9	7.1	7.4	7.9	8.6	10.2	13.4	17.3	19.3	21	21.7	22.1	21.6	20.5	19	17.2	15.8	14.5	13.8	13.3	13.1	13.8
11	13.7	14.3	14.5	14.2	13.4	12.4	11	9.5	9.6	11.3	12.9	13.8	14.4	14.2	13.8	13.5	13	11.8	9	6.4	4.5	3.1	2.4	1	10.7
12	-0.9	-1.1	-1.8	-2.7	-3.4	-4.2	-3.5	-1.5	2	6.1	9.4	11.8	13.5	14.7	15.4	15.9	16.1	15.5	13.4	11.4	10.1	9.7	8.8	8	6.8
13	7.8	7.3	6.9	6.5	5.9	4.9	4.4	4.2	5.9	9.1	11.8	14.5	16.2	16.7	16.6	15.1	13.3	11.2	8.5	6.5	5.5	4.6	4	3.7	8.8
14	3.3	2.9	2.6	2	1.6	1.5	1.7	2	2.9	5.5	8.3	10.3	11.5	12.1	12.6	12.1	11.2	9.5	6.6	4.5	3.2	2.2	1.2	0.5	5.5
15	0	-0.6	-0.9	-1.1	-1	-1.1	-0.9	-0.6	0.9	3.9	8.7	13.4	17.3	18.3	18.4	18.3	18	17	15.3	14.4	14.1	13.4	12.8	12.4	8.8
16	12.2	11.9	11.3	10.6	9.5	9	8.7	8.3	8.6	9.6	10.5	12.2	15.5	17.8	18.7	19	18.7	17.8	15.3	13	11	9.5	9	8.7	12.3
17	8	7.4	7.4	7.7	7.8	8.3	8.1	7.1	8	9.9	11.5	12.6	12	11.4	10.9	10.2	10.2	8.8	6.3	4.8	3.3	1.8	1.3	1.6	7.8
18	1.5	1	0.3	-0.4	-1.1	-1.5	-2	-2.1	-0.2	2.2	4.4	6.4	8.3	9.6	10.6	11.4	11.6	10.8	7.9	4.7	2.3	0.8	-0.4	-1.2	3.5
19	-1.9	-2.8	-3.1	-3.5	-3.5	-2.7	-2.7	-2.4	0.9	5.1	9	12.3	15	16.6	17.4	17.7	16.9	14.2	11	9	8.2	7.6	7.7	8	6.4
20	8	7.4	6.8	6.2	5.9	5.9	6.1	6.6	7.8	10.3	14.3	18.1	20.4	21.4	21.8	21.5	20.2	19	16.6	15.7	15.9	16.2	16.4	16.6	13.6
21	16.2	16	15.8	15.6	15.5	15.3	14.9	14.4	15	16.9	18.8	20.2	21.2	22.1	22.2	22.4	22.9	21.7	19.2	16.7	14.9	13.5	12.1	11.6	17.3
22	11.3	10.5	9.7	9.1	8.7	8.1	6.8	6.4	9.2	12.9	15.8	18.2	19.8	19.9	19.5	18.2	16.8	15.4	13.5	11.8	10.7	10.1	10.1	9.8	12.6
23	9.3	8.7	8.1	7.4	7.1	7	6.8	6.6	6.3	6.4	6.8	7.1	7.4	7.3	8	8.5	8.4	7.7	6.6	5.9	5.4	5.2	4.9	4.5	7
24	4.1	4	3.7	3.1	2.4	2.2	2.4	2.6	3.9	6.9	9.6	11.3	12.2	12.5	12.3	12.2	12.1	10.8	8.2	6	4.6	3.6	2.4	1.4	6.4
25	0.7	0.3	0.1	0.1	-0.4	-0.8	-1.3	-1	2.6	7.2	11.4	14.1	16.2	17	17.5	17.9	18.3	17.4	13.6	10.7	9.1	8.5	8.2	7.9	8.1
26	7.2	6.7	6.5	6.6	6.7	6.8	6.8	7.4	9.5	12.3	16	18.8	20.8	22.2	23.1	23.7	23.8	22.3	19.6	17.5	16.3	15.3	14.5	13.8	14.4
27	13	12.6	12.7	13	12.8	11.8	10.6	9.2	7.5	5.9	4.6	4	5.3	5.5	5.8	5.9	6.7	5.9	3.7	1.5	0.4	-0.5	-1.3	-2.1	6.4
28	-2.9	-3.4	-4	-4.5	-4.9	-5.1	-5.5	-5.1	-2.8	0	2.7	5.2	7.4	8.3	8.2	8.3	8.5	7.9	5.6	3.1	1.5	0.4	-0.3	-0.6	1.2

Avg	6.1	5.6	5.2	4.8	4.5	4.3	4.1	4.1	5.4	7.7	10.1	12.2	13.7	14.4	14.7	14.6	14.2	12.9	10.7	8.8	7.6	6.9	6.3	5.9	8.5
S D	6.1	5.9	5.9	5.9	5.9	5.9	5.8	5.6	5.1	4.9	5	5.2	5.4	5.6	5.7	5.7	5.7	5.6	5.4	5.4	5.5	5.6	5.8	5.8	4.7
S/A	1	1.07	1.14	1.23	1.31	1.36	1.41	1.36	0.95	0.64	0.5	0.43	0.39	0.39	0.39	0.39	0.41	0.43	0.51	0.62	0.72	0.82	0.91	0.98	0.55
Min	-2.9	-3.4	-4	-4.5	-4.9	-5.1	-5.5	-5.1	-3.5	-1.7	0.4	2.8	4.4	5.5	5.8	5.9	6.5	5.2	2.7	0.6	-0.4	-0.8	-1.3	-2.1	0.1
Max	18	16.9	16.7	16.8	17.1	17.1	17.3	17.9	18.7	20.1	22.4	24.2	25.6	26.6	27.2	27.5	27.2	26.2	24.2	22.3	21.1	20.5	20.5	19.9	21.3
n	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	8064

Data Recovery: 0.0% missing; 0.0% failed QC -- 8064 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
36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5

February 2002

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	2.7	2.3	2.1	3.2	3.3	3.3	3.4	3.5	3.7	5.4	6.5	7.1	7	8.7	7.7	7	5.5	3.8	2.9	3	2.7	2.5	3.5	3.7	4.4
2	5.1	4.5	4.3	3.7	4	5	4.9	4.5	5.6	5.6	5	5	4.6	4.7	3.6	3.5	3.6	3.2	2.4	1.8	1.5	1.1	1	0.6	3.7
3	0.6	1.3	1.1	1.3	1.4	1.6	1.5	0.9	1.3	1.8	1.3	1.1	1.6	1.8	1.8	2.5	2.5	2	1.8	1.8	2	2.6	2.5	3.4	1.7
4	2.6	2.6	2.1	2.2	3.5	2.8	2.3	2.1	2.6	2.9	3.5	4.3	5.4	5.9	5.7	4.8	5.1	5.8	5.8	5.2	4.7	4.1	5.4	4.7	4
5	4.5	4.7	4.5	3.7	4.2	4.3	3.6	4.1	4.3	4	4	3.6	2.9	3.2	2.7	2.7	2.8	2.4	1.3	1.2	1.5	1.7	2.3	2.6	3.2
6	2.3	2.2	2	1.9	1.5	1.2	1.2	0.9	0.6	0.4	1.1	1.8	2.4	1.9	2.2	2.3	2	1.4	0.8	0.6	1.1	1.4	1.1	1.5	1.5
7	0.5	0.8	2.3	3.3	2.6	2.9	2.6	1.7	1.3	3	2.4	2.7	3.4	2.3	1	0.8	0.9	1.8	2.1	2.2	2.1	3	3.1	2	2.1
8	2.8	1.9	1.6	1.9	2.1	1.8	1.2	1.4	1.2	1.4	2.7	3.2	3	2.6	1.6	1	0.8	2.1	0.7	1.3	0.9	1.1	1.8	1.4	1.7
9	0.7	0.8	0.8	1.3	0.3	0.4	1	1.2	1.6	3.9	4.7	4.7	4.3	4	4.3	4.4	3.6	2.8	2.6	2.5	2.6	1.7	1.5	1.4	2.4
10	1.2	0.9	0.7	0.9	1.5	2	1.9	1.8	1.7	3	5.2	5.7	5.4	6	5.5	5.1	5.2	4.6	3.9	2.4	2.7	2.8	2.3	3.1	3.1
11	4.6	4.3	4.5	3.9	4.3	4.1	4.4	4.5	4.5	5.3	6.9	5.9	6.3	5.9	5	4.8	3.8	3.2	2.6	1.7	1.3	1.8	1	0.2	4
12	1.1	0.4	0.3	0.4	0	0.7	1.9	1.5	2	3.4	3.7	5	5.7	5.9	6	6.1	5.3	3.4	2.1	1.5	2.1	2.1	1.7	2.3	2.7
13	1.8	1.9	2.1	2.2	1.9	1.9	1.7	1.7	1.5	2.1	1.7	1.6	1.7	1.8	1.8	3.6	4	3.3	2.4	2.7	2.3	1.6	1.8	2.3	2.1
14	2.6	2.6	2.3	2.2	2.2	2.3	2.2	2.4	2.2	3.2	3.9	3.9	3.6	3.5	3	3.4	3.4	3.1	2.8	1.8	1.7	0.9	0.8	1	2.5
15	0.1	0.6	0.3	0.7	0.3	0.6	0.9	0.7	0.7	1.3	0.7	0.5	1.9	2.7	3.1	3.4	2.6	2.3	1.7	2.8	2.9	2.6	2.9	1.8	1.6
16	0.9	0.5	1.3	0.5	0.2	0.6	1.3	1	1.9	1.9	1.3	1.3	3.2	3.4	3.5	3.8	2.3	1.9	1.4	1	0.9	1.6	2.1	1.5	1.6
17	1.4	2.2	3.2	2	3.3	2.7	2.5	2.9	2.9	4.2	4.5	3.9	3.7	4.1	4.5	4.4	4	3.5	3	2	1.9	1.4	3.5	4.6	3.2
18	4.2	3.6	3.4	3.1	3.2	2.6	2.1	2.5	4.4	4.7	4.8	3.6	3.7	3.4	3.1	3.1	2.5	1.7	0.6	0.1	0.2	0.2	0.1	0.1	2.5
19	0.1	0.3	0.4	0.3	1.6	1.2	0.7	1.1	1.5	2.7	2.8	2.4	2.3	2.2	2.7	3	2.6	2.5	1.6	1.8	1.7	2.2	2.5	2.7	1.8
20	2.5	2.1	1	0.7	1.4	1.4	1.4	1.4	2	3.1	3.7	5.1	5.4	5.4	5.5	5.5	5.1	5.2	6.7	7.5	5.4	4.8	4.3	4	3.8
21	3.9	3.6	3.9	2.9	2.1	2.6	2.8	3.1	3.8	4.2	4.8	4.7	4.3	4.6	4.9	4.2	5.2	3.8	2.6	1.8	1.4	1.2	1.8	2.1	3.3
22	1.4	1.2	1.4	1.1	1	0.6	0.6	1	1.4	1.9	1.5	1.9	1.4	0.9	1.6	2.6	2.1	1	1	0.7	0.4	2.4	3.7	3.2	1.5
23	3.3	3.7	3.8	3.4	3.5	3.5	4	3.8	3.7	3.4	3.8	4.1	3.5	3.5	3.5	3.3	3.2	2.6	2.6	2.1	2.4	3.1	2.8	2.6	3.3
24	2.4	3.1	2.8	2.1	3	2.9	2.9	2.8	3.7	4.6	5	5.2	5.2	5	5.2	4.5	3.9	3	2.5	1.6	1.4	0.7	0.4	0.5	3.1
25	0.6	0.7	0.8	0.3	0.4	0.2	0	0	0.4	0.5	1.2	1.3	2.5	2.4	2.8	2.6	2.5	3.3	3.1	2.4	2.3	2	2.4	1.9	1.5
26	2	1.9	1.5	2.9	2.4	2.2	2	2.3	2.4	3.9	4.8	6.3	6.7	6	5.8	4.8	5.3	4.5	4.9	4.8	4.7	4.1	3.7	3.4	3.9
27	3.4	3.8	4	2.8	1.5	2.1	2.7	2.6	2.1	1.8	2.3	2.2	3.5	3.7	1.9	5.1	6.3	5.7	3.9	4	4	4.1	3.7	3.4	3.4
28	3.4	3.4	3.1	2.8	3.1	2.4	2.4	2.5	3.4	3	2.7	2	1.8	2.9	3.5	2.9	3	3	1.7	1.2	1.1	1.1	1.1	1.1	2.5

Avg	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.4	3.1	3.5	3.6	3.8	3.9	3.7	3.8	3.6	3.1	2.6	2.3	2.1	2.1	2.3	2.2	2.7
SD	1.4	1.3	1.3	1.1	1.3	1.2	1.2	1.2	1.4	1.4	1.7	1.8	1.6	1.8	1.7	1.4	1.4	1.2	1.4	1.5	1.3	1.1	1.3	1.3	0.9
S/A	0.64	0.61	0.61	0.56	0.6	0.58	0.55	0.55	0.55	0.46	0.49	0.5	0.42	0.46	0.45	0.37	0.4	0.39	0.57	0.68	0.6	0.53	0.54	0.57	0.33
Min	0.1	0.3	0.3	0.3	0	0.2	0	0	0.4	0.4	0.7	0.5	1.4	0.9	1	0.8	0.8	1	0.6	0.1	0.2	0.2	0.1	0.1	1.5
Max	5.1	4.7	4.5	3.9	4.3	5	4.9	4.5	5.6	5.6	6.9	7.1	7	8.7	7.7	7	6.3	5.8	6.7	7.5	5.4	4.8	5.4	4.7	4.4
n	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	8064

Data Recovery: 0.0% missing; 0.0% failed QC -- 8064 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
36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5

February 2002

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	18	18	8	22	12	14	20	22	25	25	23	23	34	91	100	99	98	93	74	80	89	166	189	204	57
2	246	252	242	237	240	241	229	231	239	241	237	237	242	247	242	258	281	286	287	278	266	266	286	257	247
3	241	280	274	240	239	236	230	237	233	244	245	222	207	164	170	148	149	155	155	156	158	146	149	143	185
4	140	136	131	130	144	154	163	155	160	168	157	154	146	150	149	148	164	158	150	150	139	142	145	142	149
5	145	143	153	152	159	154	148	153	164	164	168	157	170	131	134	137	109	101	79	63	65	69	71	71	140
6	69	68	77	77	79	75	82	111	137	126	298	312	346	26	30	39	30	33	43	27	27	40	21	347	41
7	316	263	270	276	266	284	290	266	107	134	156	154	171	173	153	161	155	165	189	190	181	180	179	173	197
8	177	165	151	142	138	138	137	134	144	154	187	201	199	167	155	144	96	4	332	342	8	25	32	41	152
9	55	60	60	64	86	173	181	186	229	248	256	255	257	258	255	257	245	235	230	237	246	246	242	244	247
10	257	263	266	263	266	277	282	277	287	304	325	328	352	1	9	350	356	1	4	22	34	35	32	32	346
11	57	79	95	109	106	120	123	112	113	121	131	135	143	158	143	143	141	161	185	197	209	207	199	178	129
12	244	232	70	62	52	346	342	14	11	18	32	41	53	63	57	55	63	64	52	38	63	55	50	63	48
13	61	72	97	117	130	145	157	180	211	222	215	237	124	118	348	272	263	252	241	235	223	216	207	208	206
14	201	211	196	193	196	191	192	193	208	222	226	226	224	243	236	250	253	260	266	263	262	241	216	228	226
15	228	204	206	201	186	194	181	175	177	177	213	312	22	25	40	47	34	1	359	13	27	36	19	64	32
16	82	50	85	60	48	55	63	70	89	109	94	77	99	91	98	78	58	64	50	38	18	20	33	36	72
17	29	64	101	119	129	139	130	133	130	135	138	139	136	138	144	144	146	148	128	128	131	136	157	155	134
18	148	150	155	144	155	148	142	150	168	173	176	155	158	167	184	190	193	191	208	16	50	61	113	96	163
19	357	61	69	68	94	98	54	63	64	67	78	61	34	24	27	16	1	316	322	15	18	26	37	45	36
20	51	37	56	41	17	39	26	9	3	8	18	23	21	17	16	9	4	12	354	358	14	13	29	35	15
21	27	26	38	48	50	63	73	83	94	103	92	86	85	83	86	75	86	94	98	93	87	54	65	68	75
22	64	58	60	55	59	50	71	90	118	149	160	161	178	107	88	98	101	39	308	356	33	167	194	193	123
23	195	198	198	198	200	216	215	201	209	209	208	210	219	214	207	214	215	203	220	215	204	203	203	197	207
24	194	185	191	192	190	196	194	188	192	218	224	239	235	232	225	230	231	230	227	199	191	185	156	148	214
25	139	149	177	147	143	151	166	221	142	340	353	323	283	266	13	41	9	317	316	318	343	6	23	31	344
26	33	36	39	41	37	36	33	33	33	42	43	39	43	39	40	23	12	20	20	25	27	34	32	37	33
27	34	49	60	80	119	147	175	172	127	173	169	160	191	185	179	101	111	112	109	114	117	118	121	121	121
28	117	118	118	113	109	117	121	124	127	132	149	135	97	83	82	80	74	85	79	69	57	61	85	85	105
Avg	108	112	122	125	142	154	156	149	150	159	162	147	128	119	100	93	88	87	48	49	71	92	106	109	121
n	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	8064

Data Recovery: 0.0% missing; 0.0% failed QC -- 8064 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
36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5

February 2002

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	4.5	3.6	3.5	5.1	5.2	5.2	5.5	5.5	5.6	8	10.6	10.8	10.3	12.8	11.8	11.1	8.6	5.7	4.5	4.6	4	4.6	6.7	6.5	6.8
2	8.2	7.1	6.9	5.9	6.5	8.3	7.4	6.7	8.6	8.4	8.2	8	7.5	7.8	5.8	5.6	5.5	4.8	3.4	2.8	2.6	2	1.6	1	5.9
3	1	2	1.8	2.2	2.3	2.5	2.4	1.6	2.3	3	2.5	2.3	3.2	3.3	3.4	4.3	4.1	3.3	3.2	3.4	3.7	4.4	4.2	5.8	3
4	4.2	3.9	3.1	3.4	4.9	4.6	4.1	3.7	4.7	5.4	6.3	7.6	9	10.1	9.5	8.7	9.3	10.3	10	9.5	9	7.8	9.4	8.6	7
5	7.8	8.5	8.3	7.5	7.9	8.1	7.1	7.4	7.8	6.7	7	6.3	5.3	6	5.5	4.8	5.1	3.8	1.9	1.7	2.2	2.3	3.1	3.6	5.6
6	3.1	3.1	2.7	2.7	2	1.6	1.5	1.4	1.3	1.1	2	3	3.7	3.3	3.7	3.7	3.3	2.4	1.4	1.2	2	2.5	2	2.2	2.4
7	1.2	1.5	3.2	4.7	4.2	4.3	3.8	2.7	2.6	5.5	5.1	5	6	4.3	2.5	2.2	2.5	3.6	3.8	4.2	3.9	4.9	5.5	4	3.8
8	5	3.8	3.9	4	4.4	3.8	3.2	3.3	3.1	3.2	4.5	5.1	4.9	4.9	3.6	2.6	1.7	3	1.4	1.9	1.6	2.1	3	2.4	3.3
9	1.3	1.3	1.3	1.7	0.7	1	1.4	1.8	2.7	5.8	7	6.8	6.4	5.9	6.3	6.4	5.5	4.3	3.8	3.5	3.7	2.6	2.1	1.9	3.6
10	1.7	1.3	1	1.3	2	2.5	2.4	2.4	2.6	4.7	7.4	8.2	8.1	9.2	9	7.8	7.8	7.4	5.7	3.9	4.3	4.4	3.8	5	4.7
11	7	6.2	7.1	6.5	6.7	7	7.8	7.7	8.2	9.8	12.1	11.1	10.8	10	9.4	8.4	6.9	5.6	4.1	2.7	2.2	3.1	1.8	0.4	6.8
12	1.8	0.8	0.7	0.8	0	1.3	2.6	2.5	3.3	5.4	6	7.4	8.9	9.1	8.7	9	8.4	5	3.2	2.2	2.9	3.1	2.4	3.1	4.1
13	2.4	2.7	3	3.6	3.4	3.4	3	2.8	2.6	3.5	2.9	3	3.6	3.9	3.8	5.3	5.8	5.1	3.9	4.3	3.9	2.9	3.1	3.7	3.6
14	4.1	4.2	3.4	3.2	3.4	3.4	3.3	3.7	3.9	5.1	6.1	5.9	5.6	5.7	5.1	5.2	5.4	4.6	4	2.8	2.4	1.4	1.2	1.6	4
15	0.4	1.2	0.6	1.1	0.7	1	1.2	1.2	1.4	2.1	1.6	1.4	3.3	4.1	5.1	5.3	4.3	3.5	2.6	4.2	4.6	4.2	4.5	2.9	2.6
16	1.7	1.1	1.9	1.2	0.7	1	2	1.6	3	3.5	2.6	2.5	5.3	5.5	5.9	5.8	3.8	2.7	2.1	1.7	1.7	2.4	3.2	2.3	2.7
17	2.3	3.1	4.9	3.7	5.9	4.8	4.9	5.7	5.5	7.7	8.3	7.4	6.4	7.1	7.6	7.9	7.4	6.3	5.3	3.8	3.2	3	6.4	7.8	5.7
18	7.5	7.1	6.8	6	5.8	4.8	4.2	4.7	7.1	7.6	7.5	6.1	6.4	5.6	5.2	4.8	4.3	2.9	1.1	0.2	0.4	0.3	0.2	0.1	4.4
19	0.3	0.4	0.6	0.4	2.1	1.6	1	1.5	2.2	3.9	4.3	3.8	3.9	3.6	4.6	4.8	4.1	3.5	2.2	2.7	2.7	3.2	3.7	3.9	2.7
20	3.5	3.4	1.6	1.3	2.2	2.1	2.2	2.3	3	4.5	6	8.2	8.5	8.1	8.7	8.2	7.7	8.1	10	11.2	8.5	7.5	6.9	6.3	5.8
21	6.4	6	6.3	4.6	3.5	4.1	4.3	4.8	5.6	6.9	7.2	7	6.5	7	7.5	6.2	7.7	5.6	3.6	2.5	2	1.6	2.5	2.7	5.1
22	2	1.6	1.8	1.5	1.3	0.9	0.9	1.4	2.7	3.4	2.8	3.6	2.9	2.1	2.7	3.8	3.1	1.6	1.6	1.6	0.9	3.9	6	5.3	2.5
23	4.9	5.8	6	5.7	5.5	5.4	6.2	5.8	5.9	5.5	6.1	6.2	5.6	5.4	5.6	5.4	5.3	4.4	4.3	3.6	4	5	4.6	4.3	5.3
24	3.7	4.8	4.5	3.4	4.6	4.5	4.5	4.4	6.1	7.8	8.1	8	8.3	7.5	8	6.9	6.2	4.9	4.1	2.8	2.3	1.3	0.9	1	4.9
25	1.2	1.3	1.2	0.9	0.9	0.6	0	0.1	1	1.3	2.5	2.5	3.6	3.4	4.3	4.2	3.8	4.5	4.2	3.3	3.5	2.9	3.8	3.1	2.4
26	2.9	2.9	2.7	4.3	3.6	3.2	3	3.4	3.8	6.1	7.8	9.6	10.3	9	9.4	7.5	8	7.2	7.4	7.4	7.7	6.9	5.6	5.3	6
27	5.2	5.8	5.6	4.5	2.8	3.7	4.1	4.6	4.1	3.4	4.4	4.3	5.3	5.7	3.7	8.7	10.6	9.2	6.3	6.7	7	7	6.6	6	5.6
28	6.1	5.8	5.5	4.8	5.1	4.4	4.1	4.5	6	5.6	4.7	3.8	3.7	5.3	5.8	5	4.9	4.5	2.5	1.7	1.7	1.8	1.5	1.6	4.2

Avg	3.6	3.6	3.6	3.4	3.5	3.5	3.5	3.5	4.2	5.2	5.8	5.9	6.2	6.3	6.2	6	5.8	4.9	4	3.6	3.5	3.5	3.8	3.7	4.4
SD	2.3	2.2	2.3	2	2.1	2.1	2	2	2.1	2.2	2.6	2.6	2.4	2.5	2.4	2.1	2.2	2	2.3	2.4	2.2	1.9	2.2	2.2	1.5
S/A	0.64	0.62	0.64	0.57	0.6	0.6	0.57	0.57	0.51	0.42	0.45	0.45	0.38	0.41	0.39	0.35	0.38	0.41	0.57	0.67	0.61	0.55	0.58	0.6	0.33
Min	0.3	0.4	0.6	0.4	0	0.6	0	0.1	1	1.1	1.6	1.4	2.9	2.1	2.5	2.2	1.7	1.6	1.1	0.2	0.4	0.3	0.2	0.1	2.4
Max	8.2	8.5	8.3	7.5	7.9	8.3	7.8	7.7	8.6	9.8	12.1	11.1	10.8	12.8	11.8	11.1	10.6	10.3	10	11.2	9	7.8	9.4	8.6	7
n	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	8064

Data Recovery: 0.0% missing; 0.0% failed QC -- 8064 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
36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5

February 2002

Station Pressure
Hourly and Daily Averages
Instrument: Viasala PTA-427
Millibars

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	1018	1018	1018	1018	1017	1017	1017	1017	1016	1016	1015	1014	1012	1011	1009	1009	1009	1009	1009	1010	1010	1012	1013	1014	1014
2	1015	1017	1017	1018	1019	1020	1022	1023	1024	1025	1026	1026	1025	1025	1025	1025	1026	1026	1027	1027	1027	1027	1026	1026	1024
3	1026	1025	1024	1024	1023	1023	1023	1023	1023	1022	1022	1021	1020	1018	1017	1016	1015	1015	1015	1015	1015	1014	1013	1012	1019
4	1012	1011	1011	1010	1009	1009	1010	1010	1010	1010	1009	1008	1006	1005	1006	1007	1008	1009	1012	1013	1014	1015	1017	1018	1010
5	1019	1020	1021	1021	1022	1023	1024	1025	1026	1027	1027	1027	1026	1025	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024	1024
6	1024	1023	1023	1023	1024	1024	1024	1025	1025	1025	1025	1025	1024	1023	1023	1022	1022	1022	1022	1022	1021	1021	1020	1020	1023
7	1019	1017	1015	1013	1012	1011	1009	1007	1006	1007	1007	1008	1007	1007	1007	1007	1007	1008	1008	1009	1009	1010	1010	1011	1010
8	1011	1011	1012	1012	1013	1014	1015	1016	1017	1018	1018	1019	1019	1018	1018	1018	1018	1019	1019	1020	1020	1020	1021	1021	1017
9	1021	1022	1022	1022	1023	1023	1024	1025	1026	1026	1027	1028	1028	1027	1027	1027	1028	1028	1029	1029	1029	1028	1028	1028	1026
10	1028	1027	1027	1026	1026	1025	1025	1025	1025	1024	1024	1023	1022	1020	1019	1017	1016	1015	1014	1014	1013	1012	1011	1010	1020
11	1009	1008	1008	1007	1007	1008	1009	1009	1010	1011	1012	1013	1014	1014	1015	1016	1017	1018	1019	1020	1021	1021	1022	1022	1014
12	1022	1021	1021	1021	1020	1020	1020	1020	1020	1020	1019	1018	1016	1015	1013	1012	1012	1012	1013	1013	1013	1013	1013	1013	1017
13	1013	1013	1013	1013	1014	1015	1016	1017	1018	1019	1019	1019	1019	1018	1018	1019	1019	1020	1021	1022	1022	1023	1023	1023	1018
14	1024	1024	1024	1025	1025	1025	1026	1026	1027	1027	1028	1028	1027	1027	1027	1027	1027	1027	1027	1028	1028	1028	1028	1027	1026
15	1027	1026	1026	1026	1025	1025	1024	1024	1025	1025	1025	1024	1024	1022	1020	1019	1018	1018	1017	1017	1017	1016	1016	1015	1021
16	1014	1014	1013	1012	1012	1012	1012	1012	1012	1012	1012	1011	1010	1009	1008	1008	1007	1007	1007	1007	1007	1007	1007	1006	1010
17	1005	1005	1005	1004	1005	1006	1006	1007	1008	1008	1008	1008	1008	1008	1008	1009	1010	1011	1012	1013	1013	1014	1015	1015	1009
18	1016	1017	1017	1018	1018	1019	1020	1022	1022	1023	1024	1024	1023	1023	1023	1023	1024	1025	1025	1026	1026	1026	1026	1026	1022
19	1025	1025	1025	1024	1025	1025	1025	1026	1026	1026	1025	1025	1024	1023	1023	1022	1023	1023	1023	1023	1023	1023	1022	1022	1024
20	1022	1021	1021	1021	1021	1021	1021	1021	1021	1021	1020	1020	1019	1017	1016	1015	1015	1015	1014	1013	1011	1011	1011	1011	1017
21	1010	1010	1009	1009	1008	1009	1009	1010	1010	1010	1010	1010	1010	1009	1009	1008	1009	1009	1010	1011	1011	1011	1011	1012	1010
22	1012	1011	1011	1011	1011	1011	1012	1012	1013	1013	1013	1013	1012	1012	1011	1011	1011	1012	1013	1013	1014	1013	1014	1014	1012
23	1015	1015	1015	1015	1015	1015	1016	1016	1016	1017	1017	1016	1016	1016	1015	1015	1015	1016	1016	1017	1017	1017	1017	1016	1016
24	1016	1016	1016	1016	1017	1017	1018	1019	1019	1020	1020	1021	1021	1020	1020	1020	1021	1021	1022	1022	1023	1023	1023	1022	1020
25	1022	1023	1022	1022	1022	1022	1023	1023	1024	1024	1023	1023	1022	1021	1020	1019	1019	1018	1018	1018	1017	1017	1017	1016	1021
26	1016	1015	1015	1014	1014	1013	1013	1013	1013	1012	1011	1010	1009	1007	1006	1005	1004	1004	1004	1004	1004	1004	1004	1004	1009
27	1003	1003	1002	1002	1002	1002	1003	1003	1004	1004	1004	1004	1004	1004	1004	1005	1006	1008	1009	1011	1012	1013	1014	1015	1006
28	1015	1016	1016	1017	1017	1018	1019	1020	1021	1021	1021	1021	1020	1019	1019	1019	1019	1020	1020	1021	1022	1023	1023	1024	1020

Avg	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1017	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1017	1017
SD	6	6	6	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	7	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	
Min	1003	1003	1002	1002	1002	1002	1003	1003	1004	1004	1004	1004	1004	1004	1004	1005	1004	1004	1004	1004	1004	1004	1004	1006	
Max	1028	1027	1027	1026	1026	1025	1026	1026	1027	1027	1028	1028	1028	1027	1027	1027	1028	1028	1029	1029	1029	1028	1028	1028	
n	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	336	8064	

Data Recovery: 0.0% missing; 0.0% failed QC -- 8064 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.