

December 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	1	57	?	?	?	?	?	?	?	100 ?	35	0	0	0	0	0	0	0	193 ?
2	0	0	0	0	0	0	0	51	?	276 ?	319 ?	356 ?	267 ?	258	183	80	20	0	0	0	0	0	0	0	1809 ?
3	0	0	0	0	0	0	0	44	184	334	446	495	504	436	316	156	33	0	0	0	0	0	0	0	2948
4	0	0	0	0	0	0	0	34	93	260	273	247	246	136	87	38	4	0	0	0	0	0	0	0	1419
5	0	0	0	0	0	0	0	2	?	34 ?	80	89	69	44	52	25	4	0	0	0	0	0	0	0	400 ?
6	0	0	0	0	0	0	0	37	186	340	450	509	500	432	313	151	32	0	0	0	0	0	0	0	2951
7	0	0	0	0	0	0	0	60 ?	?	413 ?	460	518	515	446	324	158	33	0	0	0	0	0	0	0	2926 ?
8	0	0	0	0	0	0	0	50	185	343	455	490	474	313	179	98	19	0	0	0	0	0	0	0	2607
9	0	0	0	0	0	0	0	17	98	235	375	384	402	288	218	107	24	0	0	0	0	0	0	0	2147
10	0	0	0	0	0	0	0	6	17 ?	29 ?	41 ?	61	64	50 ?	24 ?	16 ?	3	0	0	0	0	0	0	0	311 ?
11	0	0	0	0	0	0	0	14	47	61	110	89	117	182	89	45	8	0	0	0	0	0	0	0	763
12	0	0	0	0	0	0	0	17	65	138	228	314	357	338	235	71	16	0	0	0	0	0	0	0	1780
13	0	0	0	0	0	0	0	6	17 ?	?	37 ?	44 ?	41 ?	?	?	4 ?	3	0	0	0	0	0	0	0	151 ?
14	0	0	0	0	0	0	0	23	168	228	349	365	198	116	131	129	35	0	0	0	0	0	0	0	1741
15	0	0	0	0	0	0	0	40	168	325	439	497	495	434	316	158	35	0	0	0	0	0	0	0	2907
16	0	0	0	0	0	0	0	52	149	328	415	473	465	326	246	109	15	0	0	0	0	0	0	0	2577
17	0	0	0	0	0	0	0	37	164	314	422	479	472	439	276	111	28	0	0	0	0	0	0	0	2743
18	0	0	0	0	0	0	0	23	172	279	411	471	471	394	289	146	32	0	0	0	0	0	0	0	2687
19	0	0	0	0	0	0	0	22	65	190	271	318	192	296	153	116	17	0	0	0	0	0	0	0	1639
20	0	0	0	0	0	0	0	1	20	58	52	66 ?	50 ?	61	139	139	27	0	0	0	0	0	0	0	613 ?
21	0	0	0	0	0	0	0	35	165	323	439	503	507	448	332	180	40	0	0	0	0	0	0	0	2972
22	0	0	0	0	0	0	0	36	139	263	395	498	482	428	319	159	35	0	0	0	0	0	0	0	2754
23	0	0	0	0	0	0	0	36	161	318	416	486	430	437	227	77	38	0	0	0	0	0	0	0	2625
24	0	0	0	0	0	0	0	4	12 ?	29 ?	?	39 ?	45	53	38 ?	5 ?	4	0	0	0	0	0	0	0	229 ?
25	0	0	0	0	0	0	0	9	26 ?	41	136	123	120	197	151	51	8	0	0	0	0	0	0	0	861
26	0	0	0	0	0	0	0	33	158	318	429	497	476	393	306	173	41	0	0	0	0	0	0	0	2822
27	0	0	0	0	0	0	0	32	153	296	432	488	496	440	327	170	37	0	0	0	0	0	0	0	2871
28	0	0	0	0	0	0	0	57	205 ?	314	420	485	492	437	327	161	47	0	0	0	0	0	0	0	2944
29	0	0	0	0	0	0	0	32	146	302	407	458	464	435	319	176	40	0	0	0	0	0	0	0	2779
30	0	0	0	0	0	0	0	40	148	232	377	420	403	352	242	132	29	0	0	0	0	0	0	0	2375
31	0	0	0	0	0	0	0	16	90	140	264	416	364	263	240	146	36	0	0	0	0	0	0	0	1973
Avg	0	0	0	0	0	0	0	30	119	233	322	356	339	306	221	109	25	0	0	0	0	0	0	0	1952
S D	0	0	0	0	0	0	0	17	63	115	143	172	175	142	98	55	13	0	0	0	0	0	0	0	1012
S/A	0	0	0	0	0	0	5.57	0.59	0.53	0.5	0.44	0.48	0.52	0.46	0.45	0.5	0.54	0	0	0	0	0	0	0	0.52
Min	0	0	0	0	0	0	0	1	12	29	37	39	41	44	24	4	3	0	0	0	0	0	0	0	151
Max	0	0	0	0	0	0	1	60	205	413	460	518	515	448	332	180	47	0	0	0	0	0	0	0	2972
n	0	0	0	0	0	0	1	319	297	318	326	344	335	345	334	340	300	0	0	0	0	0	0	0	3261

Daylight Data Recovery: 0.0% missing; 9.4% exceed the 15% QC threshold -- 3599 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.

December 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	1	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	0	1?
2	0	0	0	0	0	0	0	2	?	0?	0?	0?	13?	73	28	5	0	0	0	0	0	0	0	0	0	121?
3	0	0	0	0	0	0	0	261	579	604	660	757	829	814	751	609	280	0	0	0	0	0	0	0	0	6144
4	0	0	0	0	0	0	0	2	13	74	28	5	7	0	0	0	0	0	0	0	0	0	0	0	0	129
5	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	1
6	0	0	0	0	0	0	0	188	616	750	810	847	839	811	742	577	254	0	0	0	0	0	0	0	0	6433
7	0	0	0	0	0	0	0	263	694?	819?	853	881	892	876	813	663	342	0	0	0	0	0	0	0	0	7096
8	0	0	0	0	0	0	0	302	569	740	813	758	664	272	33	15	0	0	0	0	0	0	0	0	0	4166
9	0	0	0	0	0	0	0	4	143	156	398	254	248	113	101	28	0	0	0	0	0	0	0	0	0	1445
10	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	1
11	0	0	0	0	0	0	0	0	0	0	1	0	0	7	0	0	0	0	0	0	0	0	0	0	0	8
12	0	0	0	0	0	0	0	0	0	1	22	141	322	490	210	0	0	0	0	0	0	0	0	0	0	1186
13	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	2
14	0	0	0	0	0	0	0	27	415	229	348	340	49	10	141	432	345	0	0	0	0	0	0	0	0	2336
15	0	0	0	0	0	0	0	333	675	807	866	893	882	858	793	644	320	0	0	0	0	0	0	0	0	7070
16	0	0	0	0	0	0	0	243	313	669	761	786	719	368	414	179	3	0	0	0	0	0	0	0	0	4455
17	0	0	0	0	0	0	0	297	653	741	703	754	752	762	534	181	37	0	0	0	0	0	0	0	0	5415
18	0	0	0	0	0	0	0	0	413	555	747	755	770	709	505	540	233	0	0	0	0	0	0	0	0	5227
19	0	0	0	0	0	0	0	26	1	74	117	152	3	100	16	168	0	0	0	0	0	0	0	0	0	657
20	0	0	0	0	0	0	0	0	0	0	0	0	0	0	7	376	118	0	0	0	0	0	0	0	0	502
21	0	0	0	0	0	0	0	325	682	812	872	903	916	897	832	682	344	0	0	0	0	0	0	0	0	7264
22	0	0	0	0	0	0	0	188	446	480	529	746	839	829	780	632	299	0	0	0	0	0	0	0	0	5768
23	0	0	0	0	0	0	0	334	674	808	813	757	499	527	263	46	49	0	0	0	0	0	0	0	0	4771
24	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	1
25	0	0	0	0	0	0	0	0	0	0	3	0	1	61	23	0	37	0	0	0	0	0	0	0	0	124
26	0	0	0	0	0	0	0	311	669	815	845	870	738	675	705	700	410	0	0	0	0	0	0	0	0	6737
27	0	0	0	0	0	0	0	274	625	609	808	872	875	851	780	630	245	0	0	0	0	0	0	0	0	6570
28	0	0	0	0	0	0	0	225	575?	771	817	841	858	847	777	576	294	0	0	0	0	0	0	0	0	6582
29	0	0	0	0	0	0	0	235	534	757	785	767	719	822	758	611	201	0	0	0	0	0	0	0	0	6190
30	0	0	0	0	0	0	0	114	405	521	521	439	359	253	169	121	1	0	0	0	0	0	0	0	0	2903
31	0	0	0	0	0	0	0	0	6	14	153	377	309	235	146	272	85	0	0	0	0	0	0	0	0	1597
Avg	0	0	0	0	0	0	0	128	335	394	442	463	437	409	344	280	126	0	0	0	0	0	0	0	0	3255
S D	0	0	0	0	0	0	0	137	290	350	368	375	376	364	340	282	145	0	0	0	0	0	0	0	0	2855
S/A	0	0	0	0	0	0	0	1.07	0.87	0.89	0.83	0.81	0.86	0.89	0.99	1.01	1.16	0	0	0	0	0	0	0	0	0.88
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	1
Max	0	0	0	0	0	0	0	334	694	819	872	903	916	897	832	700	410	0	0	0	0	0	0	0	0	7264
n	0	0	0	0	0	0	1	322	337	345	351	357	351	360	360	363	300	0	0	0	0	0	0	0	0	3447

Daylight Data Recovery: 0.0% missing; 4.2% exceed the 15% QC threshold -- 3599 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

December 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	?	17	?	?	?	?	?	?	?	24 ?	12	0	0	0	0	0	0	0	0	54 ?
2	0	0	0	0	0	0	0	19	?	194 ?	256 ?	282 ?	263 ?	222	175	81	21	0	0	0	0	0	0	0	0	1513 ?
3	0	0	0	0	0	0	0	19	49	103	116	86	68	61	51	37	14	0	0	0	0	0	0	0	0	603
4	0	0	0	0	0	0	0	37	88	219	261	251	249	143	92	40	4	0	0	0	0	0	0	0	0	1384
5	0	0	0	0	0	0	0	2	10 ?	31 ?	79	94	74	46	55	27	5	0	0	0	0	0	0	0	0	423
6	0	0	0	0	0	0	0	19	47	61	68	69	69	64	55	39	15	0	0	0	0	0	0	0	0	507
7	0	0	0	0	0	0	0	24	53 ?	59 ?	61	63	61	52	44	32	12	0	0	0	0	0	0	0	0	461
8	0	0	0	0	0	0	0	24	58	69	74	91	122	171	165	93	20	0	0	0	0	0	0	0	0	887
9	0	0	0	0	0	0	0	16	59	165	172	232	255	222	174	98	24	0	0	0	0	0	0	0	0	1417
10	0	0	0	0	0	0	0	6	17	28	39	65	67	47	23	15	3	0	0	0	0	0	0	0	0	309
11	0	0	0	0	0	0	0	15	50	64	117	94	124	182	94	48	9	0	0	0	0	0	0	0	0	796
12	0	0	0	0	0	0	0	20	67	143	218	233	176	105	156	73	17	0	0	0	0	0	0	0	0	1209
13	0	0	0	0	0	0	0	6	16	24	35	43	38	25 ?	?	4 ?	3	0	0	0	0	0	0	0	0	194 ?
14	0	0	0	0	0	0	0	22	79	151	176	186	176	115	92	38	13	0	0	0	0	0	0	0	0	1048
15	0	0	0	0	0	0	0	14	35	43	46	45	51	50	44	34	14	0	0	0	0	0	0	0	0	377
16	0	0	0	0	0	0	0	36	79	91	68	74	101	153	102	67	15	0	0	0	0	0	0	0	0	787
17	0	0	0	0	0	0	0	16	37	59	92	89	83	91	80	66	24	0	0	0	0	0	0	0	0	636
18	0	0	0	0	0	0	0	25	84	74	69	84	80	69	106	40	14	0	0	0	0	0	0	0	0	647
19	0	0	0	0	0	0	0	23	68	159	211	232	198	246	150	72	17	0	0	0	0	0	0	0	0	1374
20	0	0	0	0	0	0	0	2	21	61	55	59	38	64	139	74	16	0	0	0	0	0	0	0	0	529
21	0	0	0	0	0	0	0	14	33	43	47	49	48	45	40	43	16	0	0	0	0	0	0	0	0	379
22	0	0	0	0	0	0	0	27	43	86	152	116	58	54	44	33	14	0	0	0	0	0	0	0	0	626
23	0	0	0	0	0	0	0	13	32	42	50	100	166	187	117	61	34	0	0	0	0	0	0	0	0	802
24	0	0	0	0	0	0	0	4	14	29	25 ?	36	47	57	32	10 ?	4	0	0	0	0	0	0	0	0	259
25	0	0	0	0	0	0	0	9	22 ?	42	121	129	125	169	143	53	6	0	0	0	0	0	0	0	0	820
26	0	0	0	0	0	0	0	14	32	43	51	58	94	74	53	30	11	0	0	0	0	0	0	0	0	460
27	0	0	0	0	0	0	0	16	38	84	70	49	50	50	47	39	18	0	0	0	0	0	0	0	0	461
28	0	0	0	0	0	0	0	19	42 ?	50	56	60	56	49	46	37	25	0	0	0	0	0	0	0	0	439
29	0	0	0	0	0	0	0	19	43	47	59	66	88	57	44	43	23	0	0	0	0	0	0	0	0	489
30	0	0	0	0	0	0	0	25	69	82	134	181	199	217	168	99	29	0	0	0	0	0	0	0	0	1202
31	0	0	0	0	0	0	0	16	91	140	183	209	186	124	185	81	27	0	0	0	0	0	0	0	0	1244
Avg	0	0	0	0	0	0	0	17	47	83	105	114	114	107	94	50	16	0	0	0	0	0	0	0	0	720
S D	0	0	0	0	0	0	0	8	23	53	68	73	69	67	52	25	8	0	0	0	0	0	0	0	0	399
S/A	0	0	0	0	0	0	0	0.49	0.5	0.64	0.65	0.64	0.61	0.62	0.56	0.51	0.51	0	0	0	0	0	0	0	0	0.55
Min	0	0	0	0	0	0	0	2	10	24	25	36	38	25	23	4	3	0	0	0	0	0	0	0	0	54
Max	0	0	0	0	0	0	0	37	91	219	261	282	263	246	185	99	34	0	0	0	0	0	0	0	0	1513
n	0	0	0	0	0	0	0	306	326	343	348	355	351	356	348	348	300	0	0	0	0	0	0	0	0	3381

Daylight Data Recovery: 0.0% missing; 6.1% exceed the 15% QC threshold -- 3599 total daylight measurements.

Instrument: Eppley PSP Serial Number: 25819F3 Calibration Factor: 9.070 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.

Prepared by: Afshin M. Andreas, NREL

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

December 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	6	4.6	3.6	2.5	1.8	1.2	0.7	0.5	1.5	2.6	3.6	4.2	4.8	5.2	5.4	5.6	4.8	3.3	2.6	1.8	1.1	0.8	0.6	0.2	2.9
2	0.5	-0.1	-0.1	-0.7	-0.7	0	0.6	1.1	3.1	5.2	6	7.2	8.2	8.5	8.6	8.8	8.2	7.7	7.3	7.4	7.6	8.3	8	8.3	5
3	8.4	7.7	7.2	6.9	6.3	5.8	5.2	5.1	6.3	5.8	4.3	3.5	3.7	3.5	3.2	2.1	0.6	-0.4	-0.8	-1.1	-1.7	-1.8	-2.3	-2.6	3.1
4	-2.8	-3.1	-4.1	-4.7	-4.8	-4.4	-4.3	-2.5	-1.4	-0.2	1.2	1.9	2.4	2.2	2.3	1.9	1.5	0.8	0.3	-0.3	-0.2	-0.2	0.1	0.4	-0.7
5	0.9	1.7	3	4.1	5.2	6.6	8.1	9.3	6.1	7.1	7.5	6.2	3.3	2	1.8	1.7	1.2	0.8	0.5	0	0	0	0	0	3.2
6	0	0	0.1	0.3	0.1	-0.4	-0.3	-0.1	1.3	2.7	3.6	4.5	5.3	5.8	5.9	5.8	4.8	3.5	2	1	0.5	0	-0.6	-1	1.9
7	-1.6	-2.3	-2.8	-2.7	-2.9	-3	-2.8	-2.3	-0.5	1.5	2.7	3.5	4.5	5.7	6.2	6.5	5.8	4.1	3.3	3	2.6	2.6	2.1	1.8	1.5
8	1.4	1.5	1.4	0.8	0.9	1.2	1.5	1	1.9	4.1	6.7	9.1	10.6	11.2	11	10.5	9.6	9	8.6	8.1	7.6	7.1	7	6.7	5.8
9	7.1	6.6	5.7	5	4.4	3.7	2.8	1.9	1.7	2.3	3.8	4.8	5.2	5.3	4.8	4.2	3.4	2.4	1.7	1.3	1.3	1.3	1.4	1.6	3.5
10	2.1	2.3	2.4	2.3	2.5	2.9	3	2.8	3.4	4.3	5	5.6	6.1	6	6.1	6.4	6.5	6.9	5.9	6.2	6.5	6.1	6.9	5.6	4.7
11	5.7	6.1	5.8	5.9	6.3	6.9	6.8	6.7	6.9	7.4	8	6.8	4.8	4.3	4.3	4.1	4	3.7	3.7	3.7	3.6	3.4	3.3	3.5	5.2
12	3.8	4.2	4.4	4.5	4.7	4.9	5.1	5.3	5.6	6	7.1	8	9.3	10.7	11.1	10	8.1	7.1	6.9	6.8	6.7	6.8	6.4	5.8	6.6
13	5.3	4.9	4.7	4.7	4.7	4.6	5	5.1	5.6	5.7	6.4	7.2	8.1	9.1	10	11.1	11.9	13.1	13	13.9	14.7	15.5	16	15.1	9
14	13.2	11.8	10.4	9.5	9.4	9.3	9.2	9	9.1	9.4	9.9	10.4	10.2	10.4	10.6	11.1	11.1	9.9	9.2	8.4	7.7	6.8	6.1	5.5	9.5
15	4.8	4.3	3.8	3.5	3.1	2.8	2.5	2.3	3.4	5	6.7	8.3	9.3	10.2	10.7	10.4	9.7	8.3	7.4	6.3	5.7	5.2	5	5.3	6
16	5.7	5.8	5.7	5.3	5.4	5	4.7	5.3	8.3	10	12.1	13.8	14.5	14.8	12.9	11.7	10.7	9.7	8.3	7.3	6.1	5	4.2	3.5	8.2
17	2.4	2.2	1.7	0.7	-0.2	-0.2	-0.5	-0.3	1.5	3	3.6	4.5	5.4	6.1	5.9	5.6	4	2.3	1.8	1.5	1.3	1.2	0.9	0.6	2.3
18	0.6	0.7	1.3	2.1	2.7	2.9	2.8	2.7	3.4	4.7	6.7	8.1	8.5	8.7	8.7	8.2	7	6.1	5.3	4.7	4.1	3.8	3.6	4.3	4.7
19	5.1	4.7	4.1	5.4	5.2	5.3	6	6.5	8.5	11.5	14.9	16.5	16.9	18	18.2	18.1	17.2	16.6	16.4	16.8	16.8	17	17	16.7	12.5
20	16	15.9	16.2	17	18	18.6	18.7	18.8	18.3	18.4	18.8	18.2	17.9	18.3	18.7	19	18	15.7	13.9	12.8	11.4	10.3	9.2	8.6	16.1
21	8.3	7.7	7.3	7	6.4	5.6	5.5	5.3	6.4	8.1	9.4	10.8	11.9	12.5	12.8	13.1	12.3	11.1	9.7	8.9	8.5	7.7	7.4	7.3	8.8
22	7	6.2	5.7	5.3	4.9	4.4	4.8	5.1	6.7	8.4	10.3	12.1	13.2	14.3	15.4	15.6	14.6	13.2	12.7	12.5	12.4	12.2	12	11.4	10
23	10.9	10.3	9.4	8.8	8.4	7.9	7.4	6.8	8.1	9.7	10.9	11.7	12.5	13.4	13.5	12.5	11.9	11.1	10.5	9.8	9.8	9.7	9.6	9.3	10.2
24	8.9	8.7	8.6	8.6	8.4	8.3	8.5	8.8	8.4	6.6	5.1	5.2	5.8	6.2	6.4	6.7	7.2	7.8	8.4	8.9	9.2	9.5	9.6	9.7	7.9
25	9.8	10.1	10	9.7	9.4	9.3	9	8.5	8.2	7.9	6.7	6.2	6.3	7.3	8.2	8.1	7.1	5.6	4.7	4.1	3.6	3.4	3.1	2.8	7.1
26	2.6	2.7	2.9	2.5	1.8	1.9	2	2	2.6	3.9	5.2	6.1	6.8	7.3	7.9	8	7.2	5.6	4.7	3.7	3.6	3	2.7	2.1	4.1
27	1.7	1	0	-0.5	-0.4	-0.1	0	-0.1	1.9	3.7	5.3	6	6.9	7.4	7.7	7.6	6.7	4.7	3.4	2.8	2.1	1.8	1.3	0.6	3
28	0.4	0.1	-0.2	-0.6	-0.9	-0.9	-1.1	-1.6	0.2	2.7	4.4	5.5	6.7	7.9	8.3	8.2	7.6	5.9	5.3	4.9	4.9	5.1	4.8	4.5	3.4
29	4.6	4.7	4.5	4.9	4.4	3.7	3.2	2.8	4.1	6.2	8.9	11.5	12.1	11.9	11.6	10.9	9.1	7.5	6.5	5.9	5.3	4.9	4.6	3.7	6.6
30	3.7	3.5	3.2	2.6	2.2	2	3	4.3	6.2	8.4	10.7	12.3	12.9	13.2	12.7	12.5	11.7	10.6	10.1	10.4	11.3	11.8	12.3	12.4	8.5
31	12.8	12.6	11.6	10.6	9.9	9.6	9.4	9.2	9.6	10.9	12.6	15.2	16.8	17.2	17.1	18.1	17.3	16.5	15.5	15.7	15.7	16	16.1	15.8	13.8
Avg	5	4.7	4.4	4.2	4.1	4	4.1	4.2	5	6.2	7.4	8.2	8.7	9.2	9.3	9.2	8.4	7.4	6.7	6.4	6.1	5.9	5.8	5.5	6.3
SD	4.5	4.4	4.3	4.4	4.5	4.5	4.5	4.4	3.9	3.7	3.8	4.1	4.2	4.5	4.5	4.6	4.6	4.5	4.5	4.7	4.9	5	5.1	5	3.8
S/A	0.9	0.93	0.98	1.04	1.09	1.11	1.1	1.06	0.78	0.59	0.52	0.5	0.49	0.49	0.48	0.5	0.54	0.62	0.68	0.74	0.79	0.84	0.89	0.92	0.61
Min	-2.8	-3.1	-4.1	-4.7	-4.8	-4.4	-4.3	-2.5	-1.4	-0.2	1.2	1.9	2.4	2	1.8	1.7	0.6	-0.4	-0.8	-1.1	-1.7	-1.8	-2.3	-2.6	-0.7
Max	16	15.9	16.2	17	18	18.6	18.7	18.8	18.3	18.4	18.8	18.2	17.9	18.3	18.7	19	18	16.6	16.4	16.8	16.8	17	17	16.7	16.1
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

December 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	47.8	54.2	54.2	55.9	57.4	58.9	59.3	60.8	55.2	46.3	40.3	37.8	35.8	34.4	32.3	32.6	35.1	40.8	42.9	47.7	51.8	55	58.5	61	48.2	
2	58.8	64.2	66.4	71.4	72.4	70.8	83.3	83.5	74.5	57.3	45.8	37.4	33.6	32.8	32.2	33.4	42.1	45.2	49.6	53.3	55.9	49.9	56	55.4	55.2	
3	54.9	59.9	61.5	61.9	64.4	67	68.2	66.2	62.6	70.5	67.4	64	56	51	50.3	50.4	52.2	53.2	54.1	57.1	63.9	63.9	63.5	65.7	60.4	
4	60	57.4	67.3	71.8	73.8	72.9	74	64.9	57.5	54.5	57.6	56.8	54.4	53.7	55.8	58.3	65.4	75	82.9	89.4	97.1	100.4	102.2	103.9	71.1	
5	104.9 ?	?	?	?	?	?	?	?	104.9 ?	?	?	?	?	?	?	104.4	104.3	103.8	103.3	103.8	104.3	104.4	103.9	102.8	104.1 ?	
6	103.2	102.7	102.7	99.9	98.7	99	95.6	91.1	82.7	72.8	67.8	61.3	57.4	55.8	55.7	56.4	59.7	67	76	81.9	83.5	85.5	90.4	92.9	80.8	
7	96	99.5	102.2	102.4	102.9	103.7	104.4	104.2	97	87.5	80.5	74.2	67.3	60.6	54.7	56.2	62.7	68.8	72	73.2	77.7	79.5	83.1	85.8	83.2	
8	89.3	90.9	92.3	95	96.3	96.9	97.4	99	96.9	89.2	74.6	61.5	54.4	46.8	47.5	53.3	59	60.4	63.1	66.6	68.9	71.2	70.5	72.5	75.6	
9	71.2	71	68.9	62.5	61.7	68.8	69.9	61.9	65.2	70.9	71.2	71.8	73.2	72.3	74.9	78	82.2	87.9	91.2	94.2	96.6	98.1	99	98.9	77.6	
10	98.8	97.6	97.5	102.3	104.4	104.9 ?	104.9 ?	105 ?	?	?	?	?	?	105 ?	?	?	?	?	?	?	?	104.8	104.8 ?	?	?	102.7 ?
11	?	?	?	?	?	?	?	?	?	?	?	?	?	104.3 ?	103	103.1	103.9	104.7 ?	102.8	100.4	100.3	101.1	102.2	103.2	102.6 ?	
12	103.2	102.6	102.8	103.1	103.4	103.3	102.7	102	100.6	98.9	95.3	90.9	86	78.9	76.7	83.9	93.9	97.8	97.1	97.3	96.2	93.4	93.6	94.7	95.8	
13	96.1	97.3	98.4	98.7	98.1	98.1	97.4	98.3	98.8	102.9	104.6	104.8 ?	?	?	?	?	?	104	104.1	104.1	104.4 ?	?	104.7 ?	100.6	100.9 ?	
14	97.9	95.7	94	93.3	90.6	90.4	92.7	93.1	90.1	86.2	81.1	76.5	76.2	76	72.9	71.3	66.1	67.7	67.3	69.8	71.7	75.7	78	79.6	81.4	
15	81.8	83.2	85.1	87	89	90	91.1	92.2	87.3	79.3	73.9	65.9	60.9	57.2	58.5	58.1	61.5	67.6	71.9	76.9	79.1	83.4	81.8	78.2	76.7	
16	75.4	75.2	74.8	76.5	76.5	78.4	79.9	78.8	69.5	65.4	62.7	57.8	54	51.6	60	56.3	52.4	44.1	45.8	46.4	52.3	58	61.4	66.2	63.3	
17	73.1	74.3	75.5	80.4	84.4	83.5	84.8	84.6	79.7	74	72.6	69.1	68.2	64.7	64.3	65.9	75.6	84.4	87.6	89.9	90.9	92.2	93.8	94.6	79.5	
18	92.5	92.2	92	89.4	86.8	86.1	86	87.9	84.8	81.3	76.5	71.5	69.5	68.3	70.5	74.9	82.4	87.9	91.3	93.4	95.7	97.5	99	99.3	85.7	
19	99.8	100.1	101.6	100.7	101.1	102.5	102.9	103.2	102.5	98.8	85.9	82.1	83.9	81.7	81.4	82.4	86.7	90.1	90.5	89	90	91.1	92.6	94.1	93.1	
20	101.4	103.8	102	97.3	93.3	91.5	92.5	93.5	97.6	99.4	99.2	102.4	103.3	99.9	96.3	76.8	69.5	74.5	77.9	68.7	64.9	61.4	64.5	66	87.4	
21	63.7	63.5	63	63.1	64.6	68.6	67.2	67.9	63	56.2	51.3	44.8	37.9	36.5	36	34.2	36.2	39.8	45.7	48.8	51.9	55.6	57	57.6	53.1	
22	60	64	66.6	67.5	71.8	74.2	68.3	70.1	62.1	57.6	53.3	50.5	50.5	51.5	52.3	55.7	62.2	69.8	73.1	75.7	77.6	79.3	80.1	82	65.7	
23	81.7	79.5	78.6	75.9	70.9	66.3	64.3	62.8	55.3	50	42.1	39.5	37.9	36	36.8	39.9	42.3	47	49.7	52.4	52.6	52.7	52.6	52.1	55	
24	54.5	55.5	54.8	54.2	55.6	55.6	54.6	52.1	59.5	80.2	99	103.6	104.7	?	?	?	?	104.5 ?	104.5	104.8	?	?	?	?	74.8 ?	
25	?	?	?	?	?	?	?	?	?	?	104.2 ?	100.3	96.7	91.1	83.7	76.6	65.9	57.1	58.5	59.2	62.5	62	62.9	63.8	74.6 ?	
26	65.2	65.3	64.3	67.3	72.6	70.5	68.7	68.6	66.6	61.9	56.7	52.7	51.5	48.5	46.8	46.4	50.6	58.4	61.8	66.6	66	68.6	69.7	73.3	62	
27	75.9	78.9	85.4	88.4	90	92.7	94.5	93.6	84	76.3	69.6	63.6	58.2	56.6	57.4	59.6	65.4	79.3	87.9	90.9	94.5	96.9	98.5	99.9	80.7	
28	99.8	99.9	100.5	100.7	100.9	100.6	99.5	100.4	94.5	82.1	70.4	63.1	54.3	50.5	50.1	51.4	56.9	68.8	67.3	68	68.9	66.2	69.4	70.6	77.3	
29	69	68.5	70.3	67.7	70.1	74.2	76.8	78.5	73.1	64.9	57.3	48.4	47.1	48.8	49.8	53.9	61.9	72	79.5	84.8	87.9	92.3	92.7	96.2	70.2	
30	97.8	99.6	103.5	104.4	104.8 ?	?	?	104.3	100.5	92.8	80	68.5	65.5	68.2	72.8	79.4	85.5	92.1	96.9	99.6	99.9	101.8	102.8	101.5	91.9 ?	
31	95.9	93.4	95.9	97	96.7	95.3	95.7	95.8	94.4	89.5	80.9	65	58.7	62	61.8	68.8	75.1	83.8	90.2	98.6	103	100.5	99.4	100.4	87.4	
Avg	81.7	81.8	82.9	83.4	84	83.9	84.3	84.4	80.7	75.8	72.2	67.4	62.9	62.3	60.5	62.9	66.3	73.2	76.2	78.4	80.5	80.8	82.2	83.2	78	
SD	18.1	17	16.8	16.6	15.9	15.1	15.2	16.2	16.6	16.3	18	19.5	19.3	20.3	18.1	18.7	18.3	19.9	19.3	18.9	18.3	18.1	17.5	17.1	15.4	
S/A	0.22	0.21	0.2	0.2	0.19	0.18	0.18	0.19	0.21	0.21	0.25	0.29	0.31	0.33	0.3	0.3	0.28	0.27	0.25	0.24	0.23	0.22	0.21	0.21	0.2	
Min	47.8	54.2	54.2	54.2	55.6	55.6	54.6	52.1	55.2	46.3	40.3	37.4	33.6	32.8	32.2	32.6	35.1	39.8	42.9	46.4	51.8	49.9	52.6	52.1	48.2	
Max	104.9	103.8	103.5	104.4	104.8	104.9	104.9	105	104.9	102.9	104.6	104.8	104.7	105	103	104.4	104.3	104.7	104.5	104.8	104.8	104.8	104.7	103.9	104.1	
n	340	336	336	336	331	317	320	326	326	324	327	333	323	323	324	336	335	351	360	358	355	340	338	348	8043	

Data Recovery: 0.0% missing; 9.9% 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
36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5

December 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	6.3	4.7	3.1	1.9	0.8	0.2	-0.4	-0.7	0.6	2.6	4.6	6.2	7.1	7.5	7.3	7.1	6.4	3.9	1.4	0.3	-0.8	-1.5	-2	-2.6	2.7
2	-2.8	-2.8	-2.9	-3.2	-3.4	-3.5	-3.1	-2.2	0.4	3.8	6.2	7.9	8.9	9.6	9.6	9.4	8.7	7.7	6.9	6.8	6.9	7.3	7.6	7.9	3.8
3	8.1	8	7.1	6.2	5.6	4.9	4.2	3.6	4.8	6.9	7.5	7.1	6.9	6.6	6.1	5.2	3.5	0.8	-1.1	-2.1	-2.7	-3.3	-3.8	-4.4	3.6
4	-4.6	-5	-5.7	-6.6	-7.1	-7.2	-6.9	-6.1	-4.2	-2.1	0.9	2.4	3.4	3.9	3.7	3.3	2.6	2	1.2	0.3	-0.1	-0.1	0	0.1	-1.3
5	0.2	0.6	1.3	2.5	3.7	4.9	6.2	7.7	8	7.1	7.4	7.8	6.5	4.5	3.2	2.7	2.3	1.8	1.3	0.9	0.6	0.4	0.3	0.3	3.4
6	0.3	0.2	0.3	0.3	0.3	-0.3	-1.2	-1.5	-0.2	2.3	4.5	6.1	7.2	7.9	8.1	7.8	6.8	4.2	1.9	-0.2	-1.3	-1.9	-2.8	-3.6	1.9
7	-4.1	-4.3	-4.5	-4.9	-5.1	-5	-4.8	-4.3	-2.5	0.3	2.9	5.1	6.5	7.3	7.9	7.9	7.3	4.7	2.3	1.3	0.7	0.5	0.2	-0.1	0.6
8	-0.4	-0.4	-0.3	-0.5	-0.9	-0.8	-0.5	-0.3	0.9	3.2	6.2	9.2	11.5	12.6	12.4	11.5	10.3	9.2	8.5	8.1	7.5	6.8	6.3	6	5.2
9	6	6.2	6	5.5	4.8	4	3.1	2.2	1.5	1.9	3.5	5.5	6.7	7.2	6.9	6	4.7	3.2	2.1	1.4	1	0.9	0.9	1.2	3.8
10	1.8	2.3	2.6	2.6	2.5	2.7	2.9	3	3.1	3.6	4.3	5.1	5.7	6.2	6.2	6.3	6.5	6.6	6.7	6.3	6.4	6.3	6.4	6.5	4.7
11	6.1	6	6.1	6	6.1	6.4	6.8	6.9	7	7.3	7.9	8.4	7.4	6.1	5.6	5.2	4.9	4.5	4.2	4.1	4	3.9	3.7	3.6	5.8
12	3.8	4	4.3	4.5	4.7	4.8	5	5.2	5.5	6.1	7.2	8.7	10.5	11.9	12.7	12.8	11.1	9.1	7.9	7.3	7.1	6.9	6.6	5.6	7.2
13	4.6	4	3.7	3.7	3.8	4	4.3	4.5	4.9	5.4	5.7	6.4	7.2	8	9	9.9	10.8	11.8	12.5	12.8	13.6	14.5	15.3	15.5	8.2
14	14.6	13.5	12.3	10.7	9.9	9.6	9.5	9.3	9.4	10.3	10.9	11.8	12	11.5	11.3	11.5	11.4	10.3	9.1	8.2	7.4	6.6	5.7	4.9	10.1
15	4.1	3.3	2.8	2.4	2.1	1.6	1.1	0.8	2.1	4.6	7.4	10	11.6	12.2	12.4	12.2	11.3	9.2	7.1	5.4	4.1	3.4	3.1	3.1	5.7
16	3.5	4	4.2	4.3	4.2	4.1	3.8	3.8	5.7	8.7	11.5	13.9	15.6	16.5	16	14.5	12.5	10.8	9.3	7.6	5.9	4.1	2.5	1.4	7.9
17	0.6	-0.1	-0.4	-1.1	-2.1	-2.6	-2.8	-3	-1.2	2.1	4.7	6.5	7.8	8.5	8.8	8	6.2	3.8	2	1	0.5	0.2	-0.4	-0.9	1.9
18	-1.1	-0.9	-0.2	0.8	1.8	2.4	2.7	2.7	3	4.9	7.2	9.6	11.1	11.6	11.5	10.9	9.7	7.1	4.9	3.8	3.2	2.9	2.9	2.7	4.8
19	3	3.3	3.3	3.8	4.6	4.5	4.7	4.9	6.1	8.6	12.3	15.8	17.5	18.3	19.3	19.4	18.7	17.7	17	16.7	16.8	16.9	17	17	12
20	16.6	16.1	15.9	15.8	16.6	17.5	18.1	18.3	18.1	17.7	17.8	18	17.9	17.8	18.1	19	19.2	17.8	15.4	13.4	11.7	10.3	9	7.9	16
21	7.3	6.8	6.3	5.8	5.3	4.7	4.2	4	5.1	7.3	9.6	11.4	12.7	13.5	13.8	13.9	13.6	11.8	9.8	8.2	7.2	6.6	5.8	5.5	8.3
22	5.4	5.1	4.5	3.9	3.2	2.5	2.3	2.4	4	6.7	9.5	12	14	15.1	15.9	16.5	16.1	14.2	12.4	11.6	11.2	11.1	10.9	10.6	9.2
23	10	9.4	8.6	7.7	7	6.5	5.9	5.5	6.5	8.9	11.3	12.8	13.8	14.6	15	14	12.6	11.3	9.9	9	8.4	8.5	8.5	8.4	9.7
24	8.2	8	7.8	7.6	7.7	7.7	7.8	8	8.1	7.5	6.2	5.4	5.5	6	6.4	6.6	6.8	7.2	7.6	8.1	8.6	9.1	9.4	9.6	7.5
25	9.8	9.9	10.1	10.1	9.9	9.8	9.6	9.4	9	8.8	8.3	7.6	7.2	7.4	8.3	8.7	8.3	7.1	5.4	4.1	3.3	2.8	2.4	2	7.5
26	1.7	1.5	1.5	1.4	1	0.6	0.4	0.3	1.4	3.6	5.8	7.6	8.7	9.3	9.3	9.5	8.9	6.5	3.7	2.1	1.4	1	0.6	0.2	3.7
27	-0.3	-0.9	-1.6	-2.6	-3.1	-2.9	-2.6	-2.5	-1.1	2.3	5.8	8.6	10.2	10.8	10.7	10.2	9.1	6.3	3.8	2.3	1.4	0.6	-0.1	-0.7	2.7
28	-1.3	-1.8	-2.1	-2.5	-2.8	-2.9	-2.8	-3.3	-2.3	0.5	3.7	6.7	8.5	9.6	10.2	9.9	9.1	7	4.8	4	3.7	3.7	3.8	3.6	2.8
29	3.4	3.5	3.6	3.4	3.4	2.9	2.3	1.7	2.5	5.1	8.3	11.4	13.9	14.6	14.5	13.9	12.4	9.3	6.7	5.2	4.2	3.4	2.7	1.9	6.4
30	1.1	1	1	0.8	0.4	0	0.2	1.3	3.5	6.2	9.4	12.1	13.9	14.6	14.8	14.1	13.1	11.5	10.1	9.6	9.8	10.1	10.5	10.8	7.5
31	11	11.2	11.1	10.3	9.3	8.9	8.4	8.2	8.5	9.6	11.3	14.5	17.3	19.1	18.9	19.4	19.1	17.5	16.2	15.5	15.3	15.4	15.6	15.3	13.6
Avg	4	3.8	3.5	3.2	3	2.9	2.8	2.9	3.8	5.5	7.4	9.1	10.1	10.7	10.8	10.6	9.8	8.3	6.8	5.9	5.4	5.1	4.8	4.5	6
SD	5.1	5	4.9	4.9	5	5	5.1	5	4.5	3.8	3.4	3.6	3.9	4.2	4.4	4.5	4.5	4.5	4.7	4.8	5	5.2	5.4	5.5	3.8
S/A	1.3	1.34	1.4	1.5	1.64	1.73	1.77	1.73	1.18	0.68	0.46	0.39	0.38	0.39	0.4	0.42	0.46	0.55	0.69	0.81	0.92	1.02	1.12	1.23	0.63
Min	-4.6	-5	-5.7	-6.6	-7.1	-7.2	-6.9	-6.1	-4.2	-2.1	0.9	2.4	3.4	3.9	3.2	2.7	2.3	0.8	-1.1	-2.1	-2.7	-3.3	-3.8	-4.4	-1.3
Max	16.6	16.1	15.9	15.8	16.6	17.5	18.1	18.3	18.1	17.7	17.8	18	17.9	19.1	19.3	19.4	19.2	17.8	17	16.7	16.8	16.9	17	17	16
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
36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5

December 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	4.1	2.7	2.5	2.9	3.4	3.7	3.2	3.3	3.9	4.8	3.6	3.8	3.5	3.8	3.6	3.2	2.3	0.8	1.6	1.2	0.9	1.1	0.7	1.1	2.7
2	1.1	1	0.7	1	0.7	1	1.5	1.5	2	2.9	4	4.6	4.8	4.4	4.1	2.8	2.2	1.4	1.7	1.6	1.9	2.7	4.1	4	2.4
3	4.5	3.5	3	2.6	2.2	2.4	2	1.8	4	5.7	6.2	5.9	5.3	5	4.1	4.5	4.1	3.4	3.3	2.5	2.6	1.6	1.4	1.7	3.5
4	1.6	1	0.3	0.6	0.7	0.9	1	1.8	2.6	2.8	2.7	2.7	2.2	2.6	2.4	2.5	2.4	3.5	3.1	2.3	2	2.3	2.5	2.6	2.1
5	3.6	3.6	4.9	4.4	4.8	5.1	4.5	1.5	3.4	2.8	1	3.3	3.5	3.8	3.1	3.6	3.6	2.4	2.1	2.2	2.2	1.8	2.1	2.4	3.2
6	2.3	2.5	2.1	3.2	2.1	1.4	1.9	2.1	3.8	4.9	5.1	4.8	4.2	3.3	2.8	2.4	2.2	1.7	1	0.8	1.4	0.7	0.5	0.6	2.4
7	0.5	0.7	0.5	0.3	0.8	1.2	1.4	1.5	0.9	1.4	2	2.6	2.8	2.3	2.8	2.5	1.6	1.2	1.5	1.7	1.7	1.9	1.5	1.4	1.5
8	1.9	2.8	2.4	1.8	2.5	2.8	2.3	2.3	2.7	3.2	2.8	2.4	2.7	3.4	2.9	2	2.1	1.9	2.3	2	1.7	1.3	1.6	1.9	2.3
9	3.3	4	4.1	5	4.1	3.5	4.1	3.8	3.3	3.3	4	4.2	4	3.9	3.7	3.4	3	3.2	3	3.2	3.5	2.8	2.7	2.8	3.6
10	3.1	3.3	2.9	2.3	2.8	3.1	3.1	3.2	2.9	2.6	2	2.6	3.2	3.2	2.8	4.4	4.1	3.9	4.4	4.5	4	3.4	2.8	3.5	3.3
11	3.9	3.1	3.2	3.7	2.3	1.4	2.2	2.6	1.3	0.8	0.7	4.1	3.6	3	3.2	2.9	2.8	4.1	4.2	3.8	3.9	3.6	3.7	2.8	3
12	3.1	3.1	2.5	2.7	3.1	3.3	2.8	2.8	2.1	2.5	1.1	1.6	1.6	1.5	1	1.9	3.1	1.8	1.5	1.4	1.2	0.3	1	0.6	2
13	0.7	1	0.6	0.9	0.8	1.7	1.2	1.6	1.6	2.3	3.5	3.2	4	3	3.9	4.9	4.2	3.7	2.6	2	2.5	1.5	3.1	4.6	2.5
14	5.4	5.4	5.7	4.7	5.1	4.6	4.3	4.7	5.1	6.4	8.1	7.7	7.2	5.8	5.8	4.6	3.9	3.7	4.7	4.7	4.4	3.5	3	2.9	5.1
15	2.4	2.5	2.7	2.8	2.6	2	1.8	1.8	2.5	2.3	1.7	1.7	2.8	3.7	3.2	3.8	2.5	2.2	1.6	1.4	1.6	1.7	1.9	2.7	2.3
16	3.6	3.9	3.7	3.8	4.1	3.3	3.5	3.9	4.2	5.2	4.4	5.7	4.3	3.2	4	4.2	2.5	4.2	4	3.3	1.6	1.2	1.1	1.3	3.5
17	1.2	1.9	1.1	0.9	1	1.4	1	1	1.8	2.5	2.6	2.7	3.1	2.6	2.1	1.6	2.6	2.3	2.1	1.9	1.2	0.3	0.3	0.6	1.7
18	1.5	1.2	1.2	2	2.5	2.6	2.4	2.2	2.8	2.7	2.7	3.3	3.7	3.1	2.9	2.8	2.5	1.2	1.2	1.4	1.4	1.1	1.5	2.5	2.2
19	1.3	0.8	0.9	1	0.8	0.8	0.7	0.5	1.4	2.5	2.6	3.6	3.2	3.4	3.7	4.2	3.9	3	3.3	4.7	4.5	3.6	2.9	2.5	2.5
20	4	3.1	3	4.6	4.2	5.3	5.8	5.2	5.3	6	6.6	5.7	4.2	3.4	3.4	5.3	4.4	4.9	3.8	4.2	4	3.8	3.8	4.3	4.5
21	4.4	4.5	4.6	3.8	3.4	3.4	3.9	4	5.3	5.3	5.4	6.6	7.6	7.5	6.8	6	4.3	3.3	2.4	2.3	2.8	2.2	2.7	3	4.4
22	3.3	2.9	2.5	2.2	1.8	2.1	2.2	2	3.8	5.3	5.2	5.5	5.8	5.8	4.7	4.3	3.4	2.4	2.8	2.8	3.7	4.1	3.7	3.4	3.6
23	3.2	3.1	2.5	2.4	2.8	2.6	2.9	3	3.4	4.1	4.8	5.1	4.3	5.1	4.3	3.7	2.6	2	1.9	2	2.7	3.3	3.4	2.7	3.2
24	2.2	2	1.8	1.8	1.3	0.8	1.5	1.3	2	2.8	2.6	2.6	2.4	2.8	3.4	3.8	5.6	5	4.2	3.7	3	3.4	3.7	3.3	2.8
25	3.1	2.7	1.2	1.2	0.2	0.7	1.5	1.4	2.2	3.3	5.6	7.5	6.8	6.5	7	6.1	8	7.7	6	6.6	6.5	6.2	5.5	5.6	4.5
26	5.3	5.4	5.1	4.2	4.2	3.5	3.4	3.2	3.3	3.7	3.9	4.3	3.7	3.4	2.8	2.6	2	1.2	0.9	1.1	1.5	1.4	1.5	1.5	3
27	1.2	1.3	0.7	0.8	1.4	1.3	1.1	0.7	0.5	0.9	0.9	1.2	1.1	1.1	1.2	1.3	1.2	2.3	1.8	1.1	1.2	0.9	0.9	1	1.1
28	0.5	0.5	0.9	0.6	0.8	0.8	0.6	0.8	1.6	1.4	1.9	2.4	2.6	2.2	2.9	3	2.1	1.6	2.6	2.3	2.5	3.2	3.2	3.4	1.8
29	3	3.3	3.1	3.2	3.1	2.6	2.3	2.1	2.3	2.5	2.3	1.6	2.9	2.8	2.5	2.7	2.4	1.9	2	1.5	1.3	0.9	0.8	0.1	2.2
30	0.7	0.7	0.5	0.1	0.1	0.6	1.5	1.9	1.9	2.1	3.4	3.9	4.2	4.1	5	3.8	1.8	1.1	1.4	1.8	1.4	1.8	1.3	1.9	1.9
31	2.9	2.8	1.6	1.7	1.8	1.5	1.6	1.8	1.3	1.5	1.1	2.1	1.9	2.2	1.7	1.8	1.4	1	1.5	1.6	2.2	2.4	0.9	1	1.7
Avg	2.7	2.6	2.3	2.4	2.3	2.3	2.4	2.3	2.7	3.2	3.4	3.8	3.8	3.6	3.5	3.4	3.1	2.7	2.6	2.5	2.5	2.3	2.2	2.4	2.8
SD	1.4	1.3	1.5	1.4	1.4	1.3	1.3	1.2	1.3	1.5	1.8	1.7	1.5	1.4	1.4	1.2	1.4	1.5	1.3	1.4	1.3	1.3	1.3	1.3	1
S/A	0.52	0.51	0.64	0.61	0.61	0.58	0.53	0.5	0.46	0.47	0.55	0.45	0.4	0.39	0.39	0.36	0.45	0.55	0.48	0.54	0.52	0.58	0.57	0.55	0.35
Min	0.5	0.5	0.3	0.1	0.1	0.6	0.6	0.5	0.5	0.8	0.7	1.2	1.1	1.1	1	1.3	1.2	0.8	0.9	0.8	0.9	0.3	0.3	0.1	1.1
Max	5.4	5.4	5.7	5	5.1	5.3	5.8	5.2	5.3	6.4	8.1	7.7	7.6	7.5	7	6.1	8	7.7	6	6.6	6.5	6.2	5.5	5.6	5.1
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

December 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	271	257	259	257	250	245	248	248	260	268	267	265	269	264	262	254	253	229	230	210	198	208	200	224	255
2	214	206	203	183	178	172	168	182	174	199	203	208	196	201	198	173	183	188	184	184	185	202	207	210	195
3	210	216	228	221	235	244	270	291	340	328	336	350	339	349	348	3	347	342	330	330	338	324	299	294	320
4	296	284	273	246	278	283	294	321	329	333	341	338	330	326	331	330	5	20	347	350	347	348	348	348	336
5	356	0	24	28	37	46	48	308	286	306	311	252	257	265	271	274	276	269	265	271	268	270	269	314	
6	272	278	280	293	286	285	299	300	315	319	320	319	309	317	310	310	317	326	332	309	297	316	327	282	307
7	264	227	215	255	257	254	259	268	263	246	243	216	208	183	217	215	194	174	181	182	188	193	189	194	214
8	194	209	207	195	202	215	219	209	214	230	229	235	227	219	223	216	212	224	236	232	242	235	248	273	222
9	324	348	3	351	346	340	348	338	335	342	352	360	354	0	2	348	337	326	320	318	319	327	324	324	342
10	321	325	327	329	340	339	337	343	353	337	319	322	328	338	351	358	2	339	331	355	343	339	333	323	338
11	335	322	318	323	339	307	318	313	334	296	255	248	255	251	251	248	245	246	247	248	246	249	244	233	271
12	232	236	234	238	230	231	237	245	248	247	260	251	261	273	350	62	77	74	73	70	49	99	23	12	242
13	30	19	2	328	343	15	34	32	15	41	46	46	45	41	45	53	68	68	85	125	139	162	198	210	60
14	214	219	225	226	219	213	210	204	207	216	219	220	218	230	232	234	250	250	247	248	256	257	252	251	227
15	266	261	245	246	239	239	236	239	242	261	252	237	218	205	189	204	204	194	200	173	173	174	182	195	221
16	202	208	209	204	207	210	207	206	233	240	233	241	252	271	326	317	340	315	312	308	321	307	290	305	251
17	283	314	282	269	284	303	292	294	326	352	349	354	359	344	9	3	26	28	20	13	8	348	307	307	346
18	315	293	290	313	322	332	334	322	320	318	1	22	39	37	39	24	20	331	326	338	338	337	17	60	354
19	51	314	1	35	0	63	67	78	98	97	123	140	143	140	137	142	141	140	137	132	134	147	145	158	131
20	162	154	148	142	146	148	144	154	162	154	154	167	180	184	198	206	219	239	230	253	253	246	246	241	184
21	242	237	235	236	215	206	205	204	207	213	216	215	220	224	223	227	220	205	190	186	195	183	190	190	216
22	196	196	193	182	169	177	176	164	195	204	216	215	214	209	209	202	201	189	193	194	200	204	208	213	201
23	224	232	231	238	240	240	243	237	241	239	243	239	237	238	227	218	216	197	190	183	193	200	205	202	226
24	201	209	204	202	229	224	267	281	342	3	29	40	46	50	45	48	52	43	36	31	7	350	360	352	24
25	357	335	303	279	254	130	235	217	206	211	232	233	233	237	238	238	231	222	226	225	224	223	224	224	232
26	223	227	229	227	220	236	243	238	241	248	254	261	252	260	264	250	240	233	206	207	200	194	200	200	236
27	231	263	263	268	295	304	324	305	319	342	6	318	60	104	117	83	71	32	18	4	350	336	293	291	344
28	301	304	294	272	275	264	260	263	275	268	259	235	250	245	211	199	177	165	178	170	166	175	175	179	211
29	172	178	186	205	211	214	215	211	225	241	249	271	325	346	330	355	7	35	29	33	48	65	77	114	244
30	67	75	67	280	353	35	60	57	54	43	63	66	63	64	67	66	56	47	64	69	99	118	154	160	69
31	167	170	157	151	153	156	155	160	151	152	163	183	156	126	159	158	117	121	114	111	116	122	117	109	146
Avg	241	245	243	245	241	238	242	243	255	259	256	249	250	252	252	252	258	271	259	246	237	228	231	233	251
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
36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5

December 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	7.6	5.2	4.6	4.9	5.4	6.1	5.2	5.4	6.7	8.4	6.5	6.8	7.2	7	6.6	5.9	4.3	1.7	2.4	1.9	1.4	1.8	1.1	1.5	4.8
2	1.5	1.4	1.1	1.5	1.4	1.8	2.4	2.4	3.1	4.7	6.2	7.3	7.4	6.9	6.3	4.4	3.4	2.3	2.5	2.5	2.8	4.1	5.6	5.8	3.7
3	6.3	5.1	4.4	3.8	3.4	3.8	3.4	3.4	6.4	8.9	9.3	9.3	8.3	7.9	7.2	7	6.7	5.6	5.2	4	4.4	3	2.5	3	5.5
4	3	2.2	1	1.1	1.5	1.8	1.8	2.9	4.2	4.4	4.5	4.3	3.9	4.2	4	4.1	3.9	5.1	5.2	3.9	3.1	3.9	4.1	4	3.4
5	5.6	5.6	7.4	7.3	7.6	7.8	7	3	5.9	4.6	2.1	6	6.8	7	5.9	7.1	6.8	5	4.5	4.7	4.6	4.1	4.4	4.8	5.7
6	5.1	5	4.6	6.2	4.5	3	4	4.2	6.2	8.3	7.6	7.5	7.3	5.5	5.2	4.3	3.7	2.8	1.6	1.5	2.3	1.3	0.9	1.1	4.3
7	1	1.1	0.9	0.8	1.4	1.8	2.3	2.6	1.8	2.5	3.2	4.4	4.6	4	4.4	3.8	2.4	1.9	2.3	2.4	2.4	2.8	2.1	2.2	2.5
8	2.9	3.8	3.1	2.5	3.3	3.9	3.1	3	3.8	4.7	4.1	3.9	4	5.2	4.3	3	2.9	2.9	3.4	3	2.6	2	2.6	3.5	3.4
9	5.3	6.4	6.7	8	6.9	6	6.6	6.3	5.2	5.4	6.6	6.8	6.4	6.2	5.9	5.7	4.9	4.8	4.5	4.9	5.3	4.3	4.3	4.4	5.7
10	4.7	5.2	4.7	3.5	4.6	4.9	4.9	5.1	4.8	4.2	3.5	4.3	5.2	5.5	4.5	7.2	7.2	6.5	7.1	7.4	6.7	5.5	5	5.5	5.3
11	6.6	5.5	6.1	6	4.5	3.2	3.8	4.3	2.8	2.3	1.8	6.8	6.9	5.5	6.1	5.5	5.1	7.5	7.3	6.6	6.6	6.4	6.1	4.7	5.3
12	5	5.2	4.4	4.6	4.8	5.1	4.7	5.2	4.3	4.5	2.8	3.3	2.9	3.2	2.2	2.9	4.4	2.7	2.6	2.3	1.9	0.9	1.8	1	3.4
13	1.3	1.6	1	1.7	1.5	2.9	1.9	2.6	2.3	3.4	5.2	4.9	6.4	4.7	6.1	7.2	6.9	5.4	4.1	3.5	4.2	2.9	5.3	7.2	3.9
14	8.3	8.7	8.7	7.5	7.9	7	6.6	7.4	8.1	9.4	11.9	11.5	10.7	9.3	8.3	7.5	7	6.2	7.8	7.6	7.4	6.3	5.1	5.2	8
15	4.3	4.4	4.1	4.3	3.8	3	2.6	2.7	3.9	4.1	3.3	3.1	4.6	5.6	5.6	5.8	3.8	3.2	2.2	2.1	2.4	2.6	2.8	4.3	3.7
16	5.4	5.8	5	5.3	5.5	4.6	4.6	5.3	6.7	7.8	7.1	9	7.4	5.8	6.1	6.4	4	6.4	6.4	5	2.5	2.3	2	1.9	5.3
17	1.8	2.9	2.3	1.5	1.6	2.2	1.6	1.8	2.8	4.1	4	4.3	4.7	4.3	3.4	2.8	3.8	3.5	3.2	2.9	2.1	0.7	0.6	1.2	2.7
18	2.4	2.2	2.3	3	3.8	4.1	4	3.5	4.5	4.2	4.3	5.2	5.4	4.8	4.5	4.4	3.9	2	1.7	2.1	1.9	2.2	3.5	3.4	
19	1.9	1.2	1.4	1.7	1.2	1.1	1.1	0.8	2.1	3.5	4.2	5.7	5	5.4	6	6.8	6	4.6	5	7	6.8	5.8	4.6	4.1	3.9
20	6.8	5.2	4.7	6.9	6.9	8.4	9	8.1	8.4	9.6	10.6	8.9	6.6	5.5	5.4	8	6.6	7.9	5.8	7.1	6.6	6	5.9	6.2	7.1
21	6.4	6.7	6.8	5.6	4.9	4.6	5.3	5.8	7.9	8.1	8.3	10.1	11.5	11.5	10.4	8.9	6.3	4.7	3.4	3.4	4	3.5	4	4.4	6.5
22	4.7	4.2	3.7	3.2	2.6	3.1	3.3	3	6	7.9	8	8.4	8.8	8.6	7.1	6.6	5.1	3.7	4.4	4.2	5.4	5.9	5.3	5.2	5.4
23	4.5	4.4	3.5	3.4	4	3.8	4.4	4.4	5.4	6.3	7.8	7.7	7.1	7.5	6.9	5.5	3.9	2.9	2.9	2.9	4.1	4.7	4.9	3.9	4.9
24	3.3	3.1	2.7	2.5	1.9	1.6	2.5	2.4	3.1	4.2	3.8	4	3.4	4.3	5	5.4	7.8	7.5	6.6	6	4.6	5.6	5.9	5.4	4.3
25	5.3	4.5	2.6	2.2	0.7	1.3	3	2.7	3.6	5.2	9	11.4	10.7	10.7	11.2	9.8	12.5	12.4	10.5	10.8	10.5	10.7	9.2	8.9	7.5
26	8.7	9	8.9	6.8	6.7	6.1	5.8	5.9	6	7.1	7.2	7.7	6.6	6.3	5.2	5	3.6	2.3	1.4	1.5	1.9	1.8	1.8	1.9	5.2
27	2	2.1	1.2	1.2	1.9	1.9	1.8	1.3	1.2	1.7	2	2.1	2.2	2.2	2.3	2.2	1.7	3.4	2.7	1.8	1.8	1.3	1.2	1.3	1.9
28	0.9	0.9	1.2	0.9	1.1	1.3	1.2	1.3	2.9	2.9	3.6	4.2	4.9	4.4	4.7	4.4	3.1	2.4	3.7	3.4	3.8	4.9	4.8	5.1	3
29	4.4	4.9	4.3	5	4.8	3.9	3.2	2.9	3.8	4.5	4.3	3.2	4.5	4.4	3.9	4.1	3.6	2.7	2.9	2.1	1.7	1.2	1.2	0.4	3.4
30	1	0.9	0.6	0.2	0.2	0.8	1.8	2.4	2.7	3.2	5	5.7	5.8	5.8	7.2	5.7	2.6	1.5	2	2.3	2	2.5	2.1	2.9	2.8
31	4.2	4.1	2.6	2.4	2.6	2.2	2.4	2.7	2	2.5	1.8	3.4	3.2	3.5	2.6	2.9	2.1	1.6	2.2	2.3	3.2	3.6	1.4	1.6	2.6
Avg	4.3	4.1	3.8	3.7	3.6	3.6	3.7	3.7	4.5	5.2	5.5	6.2	6.1	5.9	5.6	5.5	4.8	4.3	4.1	4	3.9	3.7	3.6	3.7	4.5
S/D	2.2	2.1	2.3	2.3	2.2	2	1.9	1.8	2	2.3	2.7	2.5	2.3	2.1	2	1.9	2.2	2.4	2.2	2.3	2.1	2.2	2	2	1.5
S/A	0.52	0.51	0.62	0.61	0.6	0.56	0.52	0.48	0.44	0.44	0.49	0.41	0.37	0.35	0.36	0.34	0.45	0.56	0.53	0.57	0.55	0.59	0.57	0.54	0.34
Min	0.9	0.9	0.6	0.2	0.2	0.8	1.1	0.8	1.2	1.7	1.8	2.1	2.2	2.2	2.2	2.2	1.7	1.5	1.4	1.5	1.4	0.7	0.6	0.4	1.9
Max	8.7	9	8.9	8	7.9	8.4	9	8.1	8.4	9.6	11.9	11.5	11.5	11.5	11.2	9.8	12.5	12.4	10.5	10.8	10.5	10.7	9.2	8.9	8
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
36.3 N Latitude 76.25 W Longitude 4 Meters AMSL Time Zone -5

December 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	1005	1006	1007	1008	1009	1010	1012	1013	1013	1014	1014	1014	1014	1014	1015	1016	1016	1017	1018	1019	1019	1019	1019	1019	1014	
2	1019	1018	1018	1018	1018	1018	1018	1019	1020	1020	1019	1018	1017	1016	1015	1014	1013	1014	1013	1013	1013	1013	1013	1013	1013	1016
3	1012	1012	1012	1013	1014	1015	1016	1017	1019	1021	1023	1023	1023	1024	1025	1026	1027	1027	1028	1029	1029	1030	1030	1030	1022	
4	1030	1031	1031	1031	1031	1031	1031	1031	1031	1031	1031	1031	1030	1029	1029	1029	1029	1028	1027	1027	1026	1026	1025	1024	1029	
5	1022	1021	1019	1018	1016	1013	1011	1011	1011	1010	1008	1008	1008	1008	1009	1010	1010	1012	1012	1013	1013	1014	1014	1014	1013	
6	1014	1015	1015	1015	1016	1017	1018	1018	1019	1020	1020	1020	1020	1020	1020	1020	1021	1021	1022	1023	1024	1024	1024	1024	1020	
7	1024	1025	1025	1025	1025	1025	1026	1026	1026	1026	1026	1025	1024	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1024	
8	1022	1022	1022	1022	1022	1022	1022	1022	1023	1023	1023	1022	1021	1021	1020	1020	1021	1021	1022	1022	1023	1023	1024	1024	1022	
9	1025	1026	1026	1027	1028	1029	1029	1030	1031	1032	1032	1031	1031	1031	1030	1030	1030	1029	1029	1029	1029	1028	1027	1027	1029	
10	1026	1025	1025	1024	1024	1023	1023	1023	1022	1022	1022	1021	1019	1018	1017	1016	1016	1016	1016	1015	1014	1014	1013	1013	1020	
11	1012	1011	1011	1010	1010	1009	1009	1009	1009	1009	1009	1009	1009	1008	1008	1009	1010	1011	1013	1013	1014	1014	1015	1015	1011	
12	1015	1016	1016	1017	1017	1018	1018	1019	1020	1021	1021	1020	1019	1019	1019	1020	1020	1021	1021	1022	1022	1022	1021	1021	1019	
13	1020	1020	1020	1020	1021	1019	1020	1019	1019	1018	1015	1013	1010	1009	1007	1005	1003	1001	1000	999	999	999	999	998	1011	
14	998	998	998	998	998	998	998	998	998	999	999	998	998	998	999	1000	1001	1002	1002	1004	1004	1005	1006	1007	1000	
15	1007	1008	1009	1009	1010	1011	1011	1012	1013	1013	1013	1012	1011	1011	1010	1009	1010	1010	1010	1010	1010	1009	1009	1008	1010	
16	1007	1007	1006	1006	1006	1006	1006	1006	1007	1007	1007	1007	1007	1007	1008	1010	1011	1012	1014	1015	1016	1017	1017	1017	1010	
17	1017	1018	1019	1020	1020	1020	1021	1022	1023	1024	1024	1023	1022	1022	1023	1023	1023	1024	1025	1025	1025	1026	1026	1026	1023	
18	1026	1026	1027	1027	1027	1027	1028	1028	1029	1029	1030	1029	1027	1027	1027	1027	1027	1027	1027	1027	1027	1026	1026	1024	1027	
19	1024	1024	1023	1023	1022	1022	1022	1022	1022	1022	1022	1021	1019	1018	1017	1016	1016	1015	1015	1014	1013	1012	1011	1011	1019	
20	1010	1009	1008	1007	1006	1005	1004	1003	1003	1002	1001	999	998	997	997	997	998	999	1001	1002	1004	1005	1007	1007	1003	
21	1008	1008	1009	1010	1010	1010	1011	1012	1012	1013	1013	1012	1011	1011	1011	1012	1012	1013	1013	1013	1014	1014	1014	1014	1012	
22	1013	1014	1014	1014	1013	1013	1013	1012	1012	1012	1012	1010	1009	1009	1009	1009	1009	1010	1010	1011	1011	1012	1012	1012	1011	
23	1013	1013	1014	1014	1014	1015	1016	1017	1018	1018	1018	1018	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1016	1015	1016	
24	1015	1015	1015	1015	1015	1015	1017	1017	1017	1017	1016	1014	1013	1012	1010	1009	1006	1004	1004	1004	1003	1002	1001	1000	1011	
25	999	999	999	997	995	994	993	992	992	992	992	992	992	992	993	994	996	998	999	1000	1001	1003	1004	1005	996	
26	1006	1007	1009	1010	1011	1012	1014	1015	1017	1018	1018	1018	1018	1018	1018	1019	1020	1020	1021	1021	1022	1022	1022	1022	1017	
27	1022	1022	1023	1023	1023	1023	1023	1024	1024	1025	1024	1023	1022	1021	1021	1021	1020	1020	1020	1020	1020	1020	1019	1019	1022	
28	1018	1018	1018	1018	1018	1018	1019	1020	1020	1020	1020	1020	1019	1018	1018	1017	1017	1018	1018	1017	1017	1016	1016	1015	1018	
29	1015	1014	1014	1014	1014	1015	1015	1016	1017	1018	1019	1018	1018	1018	1018	1019	1020	1021	1021	1022	1022	1023	1023	1023	1018	
30	1023	1023	1023	1023	1023	1023	1024	1024	1025	1025	1025	1024	1022	1021	1021	1021	1021	1021	1021	1021	1020	1020	1020	1020	1022	
31	1020	1020	1020	1019	1019	1019	1020	1020	1021	1021	1020	1020	1018	1017	1017	1017	1016	1016	1016	1016	1016	1016	1015	1015	1018	
Avg	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	1016	1015	1015	1015	1015	1016	1016	1016	1016	1016	1017	1016	1016	
S/D	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	8	8	8	8	8	8	8	
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	
Min	998	998	998	997	995	994	993	992	992	992	992	992	992	992	993	994	996	998	999	999	999	999	999	998	996	
Max	1030	1031	1031	1031	1031	1031	1031	1031	1031	1032	1032	1031	1031	1031	1030	1030	1030	1029	1029	1029	1029	1030	1030	1030	1029	
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