

December 2004

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	14	69	62	47	123 ?	97 ?	435	361	188	44	0	0	0	0	0	0	0	1441 ?
2	0	0	0	0	0	0	0	57	272 ?	375	496	561	552	452 ?	355	182	42	0	0	0	0	0	0	0	3343 ?
3	0	0	0	0	0	0	0	54	216	375	494	541 ?	?	505 ?	?	99 ?	39	0	0	0	0	0	0	0	2322 ?
4	0	0	0	0	0	0	0	18	145	272	407	526	523	478 ?	?	113 ?	37	0	0	0	0	0	0	0	2518 ?
5	0	0	0	0	0	0	0	49	205	357	458	472	508	463	?	114 ?	47	0	0	0	0	0	0	0	2673 ?
6	0	0	0	0	0	0	0	23	84	117	187	139	212	213	84	40	11	0	0	0	0	0	0	0	1111
7	0	0	0	0	0	0	0	19	82	158	239	404	353	230	150	93	18	0	0	0	0	0	0	0	1745
8	0	0	0	0	0	0	0	44	197	355	475	533 ?	525 ?	453	376 ?	91 ?	27	0	0	0	0	0	0	0	3077 ?
9	0	0	0	0	0	0	0	47	163 ?	302 ?	353	186	?	53 ?	46 ?	27	9	0	0	0	0	0	0	0	1185 ?
10	0	0	0	0	0	0	0	7	20 ?	28 ?	179	244	166	164	180 ?	110 ?	41	0	0	0	0	0	0	0	1139 ?
11	0	0	0	0	0	0	0	41	180	237	320 ?	338 ?	255	151	114	72	21	0	0	0	0	0	0	0	1729 ?
12	0	0	0	0	0	0	0	41	187	343	465	519 ?	484 ?	451 ?	320 ?	118 ?	36	0	0	0	0	0	0	0	2964 ?
13	0	0	0	0	0	0	0	33	135	330	453	516 ?	479 ?	404	244 ?	121 ?	45	0	0	0	0	0	0	0	2760 ?
14	0	0	0	0	0	0	0	43	189	327 ?	451 ?	?	?	391 ?	177 ?	124	28	0	0	0	0	0	0	0	1729 ?
15	0	0	0	0	0	0	0	43	189	328 ?	436 ?	466 ?	?	437 ?	329 ?	162 ?	48	0	0	0	0	0	0	0	2437 ?
16	0	0	0	0	0	0	0	43	190	326 ?	460 ?	?	?	443 ?	295 ?	189 ?	41	0	0	0	0	0	0	0	1989 ?
17	0	0	0	0	0	0	0	40	89	194 ?	?	336	374 ?	435 ?	286 ?	191 ?	36	0	0	0	0	0	0	0	1981 ?
18	0	0	0	0	0	0	0	15	74	153	113	79	152	251	80	94	27	0	0	0	0	0	0	0	1039
19	0	0	0	0	0	0	0	34	98	283	379	313	314	174	101	43	31	0	0	0	0	0	0	0	1771
20	0	0	0	0	0	0	0	23	188	?	?	?	?	?	?	218 ?	51	0	0	0	0	0	0	0	480 ?
21	0	0	0	0	0	0	0	37	177	308 ?	463	?	522 ?	468	341 ?	204 ?	43	0	0	0	0	0	0	0	2564 ?
22	0	0	0	0	0	0	0	41	176	324	439	504	469	240	328	120	47	0	0	0	0	0	0	0	2689
23	0	0	0	0	0	0	0	10	36	104	192	140	206	96	117	41	12	0	0	0	0	0	0	0	955
24	0	0	0	0	0	0	0	16	73	163	230	268	195	144	69	41	8	0	0	0	0	0	0	0	1208
25	0	0	0	0	0	0	0	15	50	122	191	226	223	224	146	72	20	0	0	0	0	0	0	0	1290
26	0	0	0	0	0	0	0	3	11 ?	29 ?	?	65	48 ?	51	31 ?	18 ?	12	0	0	0	0	0	0	0	269 ?
27	0	0	0	0	0	0	0	36	136	280 ?	432 ?	?	?	?	?	204 ?	51	0	0	0	0	0	0	0	1140 ?
28	0	0	0	0	0	0	0	34	168	311 ?	453	519	527	471	305 ?	156 ?	48	0	0	0	0	0	0	0	2991
29	0	0	0	0	0	0	0	21	82	238	454	533 ?	537 ?	474	353 ?	129 ?	52	0	0	0	0	0	0	0	2872 ?
30	0	0	0	0	0	0	0	28	162	280	423	496	500	436	292	100 ?	31	0	0	0	0	0	0	0	2747
31	0	0	0	0	0	0	0	19	105	238	358	337	404	412	302	133	27	0	0	0	0	0	0	0	2333
Avg	0	0	0	0	0	0	0	31	134	244	359	361	359	331	222	116	33	0	0	0	0	0	0	0	1951 ?
S D	0	0	0	0	0	0	0	15	65	105	131	166	163	149	116	57	14	0	0	0	0	0	0	0	828
S/A	0	0	0	0	0	0	0	0.48	0.49	0.43	0.36	0.46	0.45	0.45	0.52	0.49	0.42	0	0	0	0	0	0	0	0.42
Min	0	0	0	0	0	0	0	3	11	28	47	65	48	51	31	18	8	0	0	0	0	0	0	0	269
Max	0	0	0	0	0	0	0	57	272	375	496	561	552	505	376	218	52	0	0	0	0	0	0	0	3343
n	0	0	0	0	0	0	1	321	346	290	296	253	229	282	243	232	301	0	0	0	0	0	0	0	2800

Daylight Data Recovery: 0.0% missing; 22.2% exceed the 15% QC threshold -- 3599 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.

December 2004

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	0	0	0	0	0	0	0	0	0	0	1	1	0	707	843	702	370	0	0	0	0	0	0	0	0	2626
2	0	0	0	0	0	0	0	411	812 ?	872	912	928	919	875 ?	824	647	297	0	0	0	0	0	0	0	0	7495 ?
3	0	0	0	0	0	0	0	9	27	32	26	26 ?	?	12 ?	?	10 ?	4	0	0	0	0	0	0	0	0	147 ?
4	0	0	0	0	0	0	0	0	23	35	31	22	18	13 ?	?	7 ?	4	0	0	0	0	0	0	0	0	152 ?
5	0	0	0	0	0	0	0	4	11	15	19	16	14	9	?	9 ?	3	0	0	0	0	0	0	0	0	100 ?
6	0	0	0	0	0	0	0	0	0	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	0	3
7	0	0	0	0	0	0	0	0	0	3	4	7	6	1	0	0	0	0	0	0	0	0	0	0	0	20
8	0	0	0	0	0	0	0	2	8	7	6	8 ?	6 ?	5	4 ?	2 ?	0	0	0	0	0	0	0	0	0	49 ?
9	0	0	0	0	0	0	0	3	9 ?	6 ?	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	22
10	0	0	0	0	0	0	0	0	0	0	2	1	0	0	1 ?	3 ?	1	0	0	0	0	0	0	0	0	8 ?
11	0	0	0	0	0	0	0	1	5	4	3 ?	3 ?	1	0	0	0	0	0	0	0	0	0	0	0	0	18 ?
12	0	0	0	0	0	0	0	2	7	8	7	6 ?	3 ?	4 ?	4 ?	2 ?	0	0	0	0	0	0	0	0	0	43 ?
13	0	0	0	0	0	0	0	0	3	6	6	5 ?	3 ?	3	2 ?	2 ?	0	0	0	0	0	0	0	0	0	29 ?
14	0	0	0	0	0	0	0	3	10	9 ?	9 ?	?	?	3 ?	0 ?	1	0	0	0	0	0	0	0	0	0	34 ?
15	0	0	0	0	0	0	0	2	6	6 ?	5 ?	3 ?	?	4 ?	3 ?	4 ?	1	0	0	0	0	0	0	0	0	34 ?
16	0	0	0	0	0	0	0	4	11	10 ?	10 ?	?	?	8 ?	7 ?	4 ?	1	0	0	0	0	0	0	0	0	54 ?
17	0	0	0	0	0	0	0	2	1	3 ?	?	4	4 ?	6 ?	9 ?	4 ?	2	0	0	0	0	0	0	0	0	35 ?
18	0	0	0	0	0	0	0	0	0	1	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	3
19	0	0	0	0	0	0	0	2	2	14	11	2	1	0	0	0	0	0	0	0	0	0	0	0	0	31
20	0	0	0	0	0	0	0	0	7	?	?	?	?	?	?	5 ?	2	0	0	0	0	0	0	0	0	15 ?
21	0	0	0	0	0	0	0	4	10	11 ?	9	?	9 ?	7	6 ?	5 ?	2	0	0	0	0	0	0	0	0	63 ?
22	0	0	0	0	0	0	0	4	16	18	18	9	5	1	4	2	1	0	0	0	0	0	0	0	0	77
23	0	0	0	0	0	0	0	1	0	1	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	6
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	0
25	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	0
26	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	0
27	0	0	0	0	0	0	0	3	9 ?	12 ?	8 ?	?	?	?	?	5 ?	3	0	0	0	0	0	0	0	0	41 ?
28	0	0	0	0	0	0	0	5	12	11 ?	11	10	7	9	5 ?	3 ?	2	0	0	0	0	0	0	0	0	75
29	0	0	0	0	0	0	0	0	0	6	8	8 ?	8 ?	6	6 ?	1 ?	1	0	0	0	0	0	0	0	0	44 ?
30	0	0	0	0	0	0	0	2	12	7	9	7	6	6	4	3 ?	0	0	0	0	0	0	0	0	0	57
31	0	0	0	0	0	0	0	0	1	8	7	3	7	6	3	0	0	0	0	0	0	0	0	0	0	36
Avg	0	0	0	0	0	0	0	15	32	37	39	41	41	58	66	46	22	0	0	0	0	0	0	0	0	365 ?
S D	0	0	0	0	0	0	0	73	145	158	168	181	183	204	226	168	84	0	0	0	0	0	0	0	0	1403
S/A	0	0	0	0	0	0	0	4.9	4.48	4.29	4.31	4.4	4.49	3.5	3.41	3.66	3.73	0	0	0	0	0	0	0	0	3.84
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	0
Max	0	0	0	0	0	0	0	411	812	872	912	928	919	875	843	702	370	0	0	0	0	0	0	0	0	7495
n	0	0	0	0	0	0	1	321	356	303	308	259	249	284	251	249	301	0	0	0	0	0	0	0	0	2886

Daylight Data Recovery: 0.0% missing; 19.8% exceed the 15% QC threshold -- 3599 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25521E6 Calibration Factor: 8.034 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 06/2002

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

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

December 2004

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	0	0	14	69	62	47	66	68	125	42	30	12	0	0	0	0	0	0	0	536
2	0	0	0	0	0	0	0	24	?	?	?	?	?	104	47	36	15	0	0	0	0	0	0	0	226
3	0	0	0	0	0	0	0	32	140	?	?	?	?	?	?	25	11	0	0	0	0	0	0	0	209
4	0	0	0	0	0	0	0	15	97	?	243	?	238	?	?	378	?	26	10	0	0	0	0	0	1008
5	0	0	0	0	0	0	0	43	151	?	?	438	?	383	?	458	?	391	?	?	35	24	0	0	1924
6	0	0	0	0	0	0	0	25	84	117	187	139	212	210	84	40	11	0	0	0	0	0	0	0	1109
7	0	0	0	0	0	0	0	21	82	152	235	382	336	221	147	89	18	0	0	0	0	0	0	0	1682
8	0	0	0	0	0	0	0	41	149	?	?	?	?	?	?	331	?	52	19	0	0	0	0	0	592
9	0	0	0	0	0	0	0	45	149	?	242	?	344	185	41	48	41	25	9	0	0	0	0	0	1128
10	0	0	0	0	0	0	0	7	19	?	28	?	179	242	166	163	173	45	20	0	0	0	0	0	1042
11	0	0	0	0	0	0	0	39	167	224	?	276	?	300	?	252	150	112	56	20	0	0	0	0	1597
12	0	0	0	0	0	0	0	43	142	?	?	?	?	?	?	240	68	21	0	0	0	0	0	0	514
13	0	0	0	0	0	0	0	34	120	?	?	?	?	?	356	188	32	15	0	0	0	0	0	0	745
14	0	0	0	0	0	0	0	41	136	?	?	?	?	?	331	126	104	22	0	0	0	0	0	0	761
15	0	0	0	0	0	0	0	45	133	?	?	?	416	?	?	?	101	11	0	0	0	0	0	0	706
16	0	0	0	0	0	0	0	46	129	?	?	?	?	?	?	?	137	9	0	0	0	0	0	0	321
17	0	0	0	0	0	0	0	42	85	151	?	279	?	324	?	?	177	138	8	0	0	0	0	0	1205
18	0	0	0	0	0	0	0	15	70	151	113	79	152	241	80	93	23	0	0	0	0	0	0	0	1018
19	0	0	0	0	0	0	0	34	86	227	?	362	?	309	299	172	101	43	27	0	0	0	0	0	1661
20	0	0	0	0	0	0	0	24	120	?	?	?	?	?	?	120	14	0	0	0	0	0	0	0	278
21	0	0	0	0	0	0	0	39	132	?	?	?	?	?	?	?	143	14	0	0	0	0	0	0	327
22	0	0	0	0	0	0	0	38	135	?	?	?	?	?	?	?	95	22	0	0	0	0	0	0	757
23	0	0	0	0	0	0	0	10	36	104	192	140	198	91	117	42	12	0	0	0	0	0	0	0	941
24	0	0	0	0	0	0	0	16	73	162	229	267	195	144	69	41	8	0	0	0	0	0	0	0	1204
25	0	0	0	0	0	0	0	15	50	122	190	226	223	224	146	72	20	0	0	0	0	0	0	0	1289
26	0	0	0	0	0	0	0	3	12	28	27	65	42	49	28	15	12	0	0	0	0	0	0	0	280
27	0	0	0	0	0	0	0	24	122	?	?	?	?	?	?	?	127	11	0	0	0	0	0	0	284
28	0	0	0	0	0	0	0	37	130	?	?	?	?	?	?	?	219	129	18	0	0	0	0	0	532
29	0	0	0	0	0	0	0	23	82	171	?	?	?	?	?	?	111	35	0	0	0	0	0	0	421
30	0	0	0	0	0	0	0	30	143	221	?	?	?	?	?	368	259	104	23	0	0	0	0	0	1147
31	0	0	0	0	0	0	0	20	97	208	312	298	343	398	272	111	26	0	0	0	0	0	0	0	2086
Avg	0	0	0	0	0	0	0	29	105	154	225	236	222	219	143	74	17	0	0	0	0	0	0	0	888
S D	0	0	0	0	0	0	0	13	41	70	113	114	115	115	85	41	7	0	0	0	0	0	0	0	525
S/A	0	0	0	0	0	0	0	0.44	0.39	0.46	0.5	0.48	0.52	0.53	0.6	0.56	0.39	0	0	0	0	0	0	0	0.59
Min	0	0	0	0	0	0	0	3	12	28	27	65	41	48	28	15	8	0	0	0	0	0	0	0	209
Max	0	0	0	0	0	0	0	46	167	243	438	416	458	398	331	143	35	0	0	0	0	0	0	0	2086
n	0	0	0	0	0	0	1	302	261	161	136	157	151	185	198	246	301	0	0	0	0	0	0	0	2106

Daylight Data Recovery: 0.0% missing; 41.5% exceed the 15% QC threshold -- 3599 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.

December 2004

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	9.6	10.7	11.4	13	14.2	15.8	16.8	17.6	18.6	18.4	18.4	16.2	14.5	16.1	17	16.3	14.9	13.1	11.9	10.7	9.8	8.8	7.9	7.3	13.7
2	6.8	5.9	5.3	4.7	4.1	3.7	3.1	3.5	6.8	9.8	11.8	12.3	12.7	12.7	12.8	12.4	11.7	10.5	9.7	9.3	9	7.8	7.9	8	8.4
3	7.6	7.9	7.6	7.1	6.4	5.4	4.1	4	5.7	7.8	9.6	11.2	12	12.6	13.2	13.2	12.2	10.6	9.6	8.8	7.5	6.1	5.9	5.6	8.4
4	6	5.6	4.9	3.8	2.6	2.9	3	1.5	2.8	7.1	9.9	11.5	12.4	13.2	13.6	13.6	12.9	10.9	9.6	8.6	8.7	8.3	7.6	7.2	7.8
5	7.2	6.9	6	5.7	5.8	6	5.9	5.6	6.5	9	11.7	13.7	15.5	15.7	16.2	15	13.9	12.3	10.8	10.2	9.7	9.5	9.5	9.1	9.9
6	8.9	8.6	8.7	8.8	8.8	9	9.6	9.8	10.3	11.3	12.5	12.7	13.1	14.1	14.3	14.3	14	14	14.2	14.3	14.7	14.7	14.6	14	12.1
7	13.8	13.9	14.1	14.2	13.8	14.1	14.9	15.7	16.3	17.4	19	20.7	21.7	21.9	21.8	21.4	20.6	19.7	19.3	19.3	19.1	19.4	19.8	19.7	18
8	19.3	19.7	20.2	20	19.7	19.2	18.3	17.3	17.5	18.7	19.5	20.3	20.6	20.9	20.8	20.5	19.4	17.7	15.5	14	13.6	13.3	13	12.8	18
9	12.4	12.2	11.9	10.7	10.8	10.8	10.6	11	13.1	15.3	17.9	18.7	17.4	15.1	14.6	14.8	14.8	15	15.2	15.7	16.3	16.8	18	18.1	14.5
10	18	18.2	18.8	19	19.7	19.9	19.7	19.4	19.5	19.2	19.5	20.2	20.9	21.4	21.7	22.3	21	19.7	18.9	18.3	17.6	17	16.4	16	19.3
11	15.2	14.5	14	13.6	13.6	13	11.8	11.1	11.3	11.4	12.3	12.6	12.5	12.3	12.2	11.7	11.2	10.8	10.8	10.4	9.9	9.3	8.8	8.1	11.8
12	7.4	6.4	5.9	5.3	4.8	4.4	3.8	3.7	5	6.8	8.7	9.6	10.2	10.6	10.9	11	10.3	9.3	8.8	8.7	9.5	9.8	9.6	9.5	7.9
13	9.3	9.5	9.4	9.4	9.2	9	9.1	8.8	9.4	10.3	11.6	13	13.7	14.2	14.1	13.2	11.4	9.9	8.9	7.8	6.7	5.6	4.6	3.8	9.7
14	3.1	2.4	1.7	1.1	0.8	0.1	-0.5	-0.5	0.9	2.4	4.4	5	5.7	6.2	6.4	5.8	5.2	4.6	4.3	4.3	4	3.2	2.2	1.2	3.1
15	0.5	0	-0.4	-0.6	-1	-1.5	-1.8	-1.9	-1.3	-0.6	0.1	1.1	2.1	2.6	2.6	2.9	2.3	1.3	0.4	-0.7	-1.2	-1.4	-1.5	-1.9	0
16	-2.2	-2.3	-2.7	-3.2	-3.2	-3.3	-3.7	-3.2	-1.3	1	3.1	4.9	5.9	6.8	7.5	8	6.9	5.2	4.5	4.2	3.6	2.7	2.6	2.9	1.9
17	2.9	2.8	2.3	1.9	1.7	1.9	2.5	3.4	4.2	5.3	8.3	9.6	11	12.4	12.9	12.8	11.1	8.4	7.5	6.4	6.5	6.5	6.6	6.5	6.5
18	6.4	6	5.5	6.2	6.1	6.1	6.4	6	6.5	8.6	10.5	10.7	10.8	11.3	11	11	10.8	10.1	9.5	8.4	6.8	5.7	4.8	4.3	7.9
19	3.1	2.8	2.4	2.4	2.1	3.1	3.3	4	4.7	7.3	9.9	10.8	11.1	11.2	11	10.3	9.3	8	6.2	4.9	4.5	4	3.7	0.9	5.9
20	-1	-2.3	-4.2	-5.9	-7	-8.1	-9	-9	-9.1	-8.5	-7.7	-6.8	-6	-4.9	-4.2	-3.9	-4.2	-5	-5.4	-6	-6.1	-5.9	-5.9	-6	-5.9
21	-6	-5.6	-5.4	-5	-4.7	-4.4	-3.9	-2.7	-0.6	1.8	3.5	4.8	6.4	8.4	9.8	10.1	9.6	8	7.5	7	6.6	6.4	6.1	5.8	2.7
22	5.3	5.1	4.9	4.5	4.2	3.5	3.5	3.8	5.9	9.2	13.1	14.4	14.1	14.7	14.1	12.8	11.8	10.8	9.8	9.4	9.5	10.7	12.6	12.2	9.2
23	11.6	12.1	13.8	12.6	13.2	12.9	13.3	12.8	14.1	14.7	17.1	18.2	19	18.2	17.5	18	17.8	18	17.4	17.4	14.5	13.4	12.3	8.1	14.9
24	6.9	6	5.2	4.7	4.3	3.5	3	2.5	2.4	2.6	2.9	3	3	2.9	2.8	2.4	2.1	2	1.9	1.9	2	1.8	1.5	1.2	3
25	0.9	0.6	0.2	0.1	-0.2	-0.1	0	0	0.1	0.2	0.3	0.5	0.8	1.1	1.1	1	0.6	0.1	-0.1	-0.3	-0.3	-0.1	0.2	0.3	0.3
26	0.4	0.8	1.4	1.8	1.9	1.7	1.5	1.3	1.3	1.1	1.1	0.8	0.8	0.8	0.5	-0.4	-0.7	-0.9	-1.1	-1.6	-1.9	-2.8	-2.9	-3.1	0.1
27	-2.8	-2.3	-3.7	-3.9	-3	-2.1	-2.2	-2.4	-2.5	-1	-0.5	-0.2	-0.1	0.1	0.5	0.6	0.3	-0.9	-1.4	-1.8	-1.9	-2.3	-2.6	-3.2	-1.6
28	-3.3	-3.4	-3.7	-4	-4.3	-4.5	-4.8	-4.6	-2.8	-1	0.2	1.5	1.8	2.6	2.5	2.5	2.4	1.2	0.5	0.2	-0.1	0.3	0.3	0.4	-0.8
29	0.6	0.8	0.6	0.8	1.2	1.5	1.8	2.2	3.3	4.8	7	7.9	9.1	10.3	11.1	11.5	10.9	9.9	9.1	8.4	8.1	7.8	8	8.1	6
30	8	7.9	7.6	8.1	7.5	7.3	7.1	6.8	8.2	9.5	11.3	12.8	13.5	14	13.9	13.2	11	8.9	8.1	7.8	7.7	7.9	8.1	8.1	9.4
31	8	7.5	7.6	6.8	5.8	4.9	3.8	3.8	4.6	6.7	9.7	12.6	15	16.5	17.1	15.9	13.6	12.6	11.6	10.7	11.2	11.2	10.8	10.4	9.9
Avg	5.9	5.8	5.5	5.3	5.1	5	4.9	4.9	5.9	7.3	8.9	9.8	10.4	10.8	11	10.8	10	8.9	8.2	7.6	7.3	7	6.8	6.3	7.5
S/D	6.2	6.3	6.6	6.7	6.8	6.9	7	6.9	6.9	6.7	6.9	6.9	6.9	6.7	6.7	6.6	6.4	6.3	6.2	6.2	6.1	6.2	6.3	6.3	6.2
S/A	1.04	1.09	1.19	1.27	1.33	1.38	1.44	1.42	1.17	0.91	0.77	0.7	0.66	0.62	0.6	0.61	0.64	0.7	0.75	0.81	0.84	0.89	0.92	0.99	0.83
Min	-6	-5.6	-5.4	-5.9	-7	-8.1	-9	-9	-9.1	-8.5	-7.7	-6.8	-6	-4.9	-4.2	-3.9	-4.2	-5	-5.4	-6	-6.1	-5.9	-5.9	-6	-5.9
Max	19.3	19.7	20.2	20	19.7	19.9	19.7	19.4	19.5	19.2	19.5	20.7	21.7	21.9	21.8	22.3	21	19.7	19.3	19.3	19.1	19.4	19.8	19.7	19.3
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% 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

December 2004

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	103.7	102.4	102	98.8	99.1	95.3	89.6	88.5	88.9	94.5	97.6	93	89.2	56.4	42.2	43.6	47.3	53.4	58	63.6	66.2	70	73	74	78.8
2	73.6	76.5	78.2	79.8	82.6	84.8	88.1	85.6	73.1	63.3	63.2	57.7	58.2	56	56.1	54.6	67.8	76.6	84.6	89.9	92.7	98.2	99.5	99.6	76.7
3	98.5	83.2	76.6	74.2	75	76.6	80	78.6	71.2	65.7	58.3	48.1	44.4	42.9	40.9	40.9	44.8	50.4	53.6	57.3	64.4	73.3	74.6	76.1	64.6
4	74	78.9	85.1	90.1	97.1	95.6	92.4	98.6	96.2	85	77.5	65.1	55.1	47.7	45.6	43.3	50.2	59.6	65.2	79.7	84.1	81.2	80	79.9	75.3
5	81.5	84	88.3	88	84.7	81.9	81.7	81.3	78.9	68.7	60.4	53.3	45.1	42.5	42.8	49.4	56.9	54.4	60.5	64.2	77.9	90.6	94.9	91.2	71
6	93.9	95.9	96	96.2	98.1	98.4	97.1	96.5	97.5	91	81.2	78.6	79.3	76.5	77.1	78.9	82.3	83.8	84.3	86.6	89.4	90.8	92.5	99.1	89.2
7	101.4	103	103.6	104	104.6 ?	?	?	105 ?	104.5	104.2	101.4	95.3	91	89.5	90.1	90.8	97.5	102.2	101.6	98.3	97.4	96.1	95.2	96.4	98.8 ?
8	97.9	97	95.7	96.5	98.1	99.2	96.6	87.5	79.8	63	55.6	47.9	44.8	43.6	43.4	42.9	48.1	54.5	70.2	83.9	83.8	84.2	84.7	86.8	74.4
9	93.9	92.7	94.1	96.8	96.3	99.9	103.2	104.3	99.4	92.5	78.6	74.5	81.6	101.5	104.8 ?	?	?	?	?	?	?	?	?	?	94.3 ?
10	?	?	?	?	?	102.5 ?	102.2	104.1	104.6 ?	?	103.7 ?	101.4	99.8	98.5	96.1	92	94.1	98.7	102.5	103.7	103.2	102.8	103.7	103.5	100.9 ?
11	103.4	102 ?	?	103.5 ?	97.6	90.6	89.1	90.3	89.7	89.2	85.2	81.5	79.9	80.1	79.5	80.9	85.3	86.4	84.7	84.6	85.7	88.1	85	85.5	88.2
12	84.8	88.6	85.4	88.5	91.6	92.9	94	93.6	88.7	80.8	72.5	63.9	60.9	60.1	60.4	60.8	65.9	72.1	75.2	75.4	71.2	69.3	72.3	74.7	76.8
13	76.9	76.3	77.2	77.7	79.6	81.3	81.9	84.6	82.4	77.7	72.3	64.2	55.3	45.8	44.3	35.8	35.4	39.8	43.1	47.6	52.3	53.3	55.2	59.1	62.5
14	63.2	67.3	71.8	75	74.9	77.7	80.6	79.5	72.1	67.7	54.1	50.1	48.8	46.6	47.1	49	51.6	55.9	56.6	57.4	57.3	55.9	57.6	61.5	61.6
15	65.3	67	67.3	62.9	61.6	62.6	65.3	66.9	65.6	60.2	56.8	55.6	49.3	48	48.3	45.8	47.6	52.4	57.6	63.4	67.1	69.3	69.2	70.4	60.2
16	71.3	72.3	74.9	77.4	76.9	77.6	80.6	79.4	72.3	63.8	54.2	45.9	42.9	41.7	39.2	39.1	45.8	56.3	61.8	64.1	72.2	83.4	93	90.5	65.7
17	81.3	76.9	71	66.7	66.5	66.2	62.7	58.2	56.3	54.1	46.4	41.3	37.4	33.8	33.2	33.6	47.1	62.3	72.2	80.3	80.8	82.9	82.7	84.6	61.6
18	86.7	89.6	91.2	89.1	90.4	90	92	96.7	98.1	97.7	94.3	91.3	90.6	89.2	90.5	89.1	88.6	90.7	92	94.8	98.6	100.3	101.8	102.1	93.1
19	104.4 ?	?	?	?	?	?	?	?	?	102.4 ?	91.4	76.7	66.9	67.1	71.9	72.1	77	83.8	90.9	91.1	95.8	99.2	100.9	98.8	86.9 ?
20	84.1	86.4	89.5	100	100.3	96.7	87.4	65.3	51.4	48.6	46.6	43.8	42.1	39.8	38	37.3	39.8	43.2	45.1	52.4	54.7	56.8	58.1	60.5	61.2
21	65.1	61.7	61.7	66.7	67.5	67.8	67.8	60.4	52.7	43.7	39.7	39.9	38.2	35	32.7	33.9	38.6	48.4	52.7	65.2	75.5	81.1	81.1	82.3	56.6
22	84	84.3	88.1	90.6	92.6	97.6	100.4	101.6	94.5	77.5	62.8	61.1	60.9	64.4	63.1	70.7	71.5	78.4	81.8	84.6	86.8	95.4	92.4	94	82.5
23	96.7	97.2	99.8	104.6 ?	?	104.8 ?	?	?	?	103 ?	96.6	90.9	87.2	95.5	102	100.8	102.6	103.2	104	104.8 ?	100.8	102.1	100	90.8	99.4 ?
24	86.3	86.7	78.2	78	78.5	78.2	78.7	78.9	79.2	78.2	77.4	76.3	75.7	76.6	77.2	79.1	80.2	81.8	81	80.3	79.5	78.3	78.6	80.1	79.3
25	82	81.4	79.6	78.4	82.4	82.8	82.1	75.5	72.7	75.5	76.7	76.4	76.2	74.1	75.6	72.9	74.8	77.7	76.9	76.2	78.2	79.1	79.9	81.4	77.9
26	85.6	91.1	93.6	96.8	100.3	103.9	105 ?	?	?	?	?	?	?	?	?	?	?	?	?	?	103.4 ?	99	90.6	85.2	95.8 ?
27	79.9	78.6	85.4	87.4	86.3	82	81.9	81.4	80.7	72.5	66.9	56.1	49.7	46	43.5	40.7	46.7	52.2	54.7	54.9	54.4	56.8	56.7	60.3	64.8
28	60.7	57.9	60	63.9	67.2	69.7	72.7	74.1	70.5	64.5	59.7	55.4	53.3	50.6	50.8	54.4	54.6	56.9	63.2	66.3	73.9	81.5	83.5	84.5	64.6
29	85.7	80.9	81.3	79.7	76.4	73.9	72.8	75.2	76.2	72.9	65.5	61.9	59.3	53.3	52.3	53.4	56.2	59.1	63.9	66.2	70	73.2	75	76.8	69.2
30	78.2	80	82.1	78.4	80.1	80.9	81.3	81.1	74.8	67.4	62.1	55.3	52	52	53.9	59.1	81.5	97	100.2	102.3	104.1	104.6	104.1	103.7	79.8
31	103.8	104.6 ?	?	?	?	?	?	?	?	?	101.7 ?	94.9	81.6	75.2	69.5	76.9	86.9	90.7	93.3	97.8	96.1	93.8	90	91.4	90.5 ?
Avg	84.9	84.3	83.6	85.3	85.4	86.1	85.4	84.2	80.4	75.9	72	66.6	63.2	61	60.4	59.4	64.4	69.7	73.5	77.1	80.6	83	83.5	84.2	77.5
S D	12.9	12.3	11.6	12.6	12.3	12.2	11.5	13.1	14.8	16.4	18.1	18.1	18.4	20	21.4	20.2	19.8	19.1	18	16.7	15.6	15.1	14.5	13.1	13.4
S/A	0.15	0.15	0.14	0.15	0.14	0.14	0.13	0.16	0.18	0.22	0.25	0.27	0.29	0.33	0.35	0.34	0.31	0.27	0.25	0.22	0.19	0.18	0.17	0.16	0.17
Min	60.7	57.9	60	62.9	61.6	62.6	62.7	58.2	51.4	43.7	39.7	39.9	37.4	33.8	32.7	33.6	35.4	39.8	43.1	47.6	52.3	53.3	55.2	59.1	56.6
Max	104.4	104.6	103.6	104.6	104.6	104.8	105	105	104.6	104.2	103.7	101.4	99.8	101.5	104.8	100.8	102.6	103.2	104	104.8	104.1	104.6	104.1	103.7	100.9
n	354	338	324	324	318	324	316	316	316	327	345	360	360	360	350	348	346	348	348	348	340	357	360	360	8200

Data Recovery: 0.0% missing; 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

December 2004

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	8.5	9.3	10.3	11.4	12.7	13.9	15.2	16.3	17.5	18.3	18	18	15.6	15.7	17.6	18.2	17.4	14.9	12.5	10.8	9.4	8.3	7	6.1	13.5
2	5.4	4.5	3.8	3.2	2.5	1.7	1	0.9	3.7	8.3	12.7	14.8	15.5	15.6	15.5	15.1	14.2	12	9.9	8.4	7.7	6.7	6	6.3	8.1
3	6.6	6.3	6.4	6.2	5.8	5	3.8	3.1	4.7	7.7	10.9	13.4	14.7	15.3	15.5	15.4	14.4	11.7	9.3	7.8	6.4	4.8	3.5	3	8.4
4	3.2	3.5	3.3	2.9	1.8	0.9	1	0.8	0.7	4.4	8.7	12.9	15.3	16.2	16	15.8	14.9	12	9.3	7.7	6.8	6.7	6.6	5.9	7.4
5	5.4	5.2	4.8	4.1	3.9	4	4.2	4.4	6	8.9	12.3	15.4	17.8	19.3	19.4	18.8	17	14	11.4	9.8	8.9	8.4	8.2	8	10
6	7.8	7.8	7.8	8.1	8.3	8.6	9	9.5	10	11.1	12.4	13.6	13.8	14.8	15.7	15.7	15.4	15	14.8	14.8	15	15.2	15.2	15	12.3
7	14.4	14.2	14.2	14.1	14	14	14.2	14.7	15.4	16.5	18.3	20.7	22.8	23.7	23.6	22.9	22.1	21	20.2	19.8	19.5	19.3	19.3	19.7	18.3
8	19.5	19.1	19.4	19.7	19.9	19.5	18.7	17.6	17.9	19.6	21.3	22.8	23.8	24.1	23.7	23	21.2	18.2	15.7	14.1	13.1	12.4	12	11.6	18.7
9	11.2	10.9	10.3	9.8	9.7	9.5	9.4	9.6	11.3	14.5	17.5	19.7	19.6	17.3	16	15.5	15.5	15.4	15.4	15.6	16.1	16.6	17.3	18	14.2
10	18.2	18.2	18.3	18.8	19.2	19.8	20	19.8	19.8	19.7	19.6	20.1	21	22	22.5	23.5	23.5	21.5	19.7	18.7	17.9	17.2	16.7	16.2	19.7
11	15.5	14.5	13.9	13.5	13	12.4	11.9	11.3	11.9	12.8	13.8	14.5	15.1	14.4	13.9	13.4	12.7	11.7	11.1	10.5	9.9	9.3	8.7	8	12.4
12	7.3	6.3	5.3	4.6	4.1	3.6	3.1	2.8	4.1	6.8	9.6	11.9	13.1	13.5	13.6	13.1	12.2	10.3	8.8	8.1	8.4	9.1	9.6	9.6	8.3
13	9.5	9.5	9.5	9.6	9.6	9.2	9.1	9.1	9.4	10.7	12.6	14.3	15.5	16	16.2	15.7	14.4	11.6	9.2	7.5	6.4	5.4	4.2	3.2	10.3
14	2.4	1.6	0.7	-0.1	-0.6	-1.1	-1.8	-2.3	-0.7	2.4	5.5	7.6	8.7	9.5	9.2	9.1	7.5	5.7	4.7	4.4	4.3	4	2.8	1.6	3.6
15	0.4	-0.4	-1	-1.4	-1.6	-2	-2.6	-2.8	-1.7	0.3	2.1	3.5	4.7	5.4	5.6	5.4	4.7	2.3	-0.2	-1.7	-2.6	-3.2	-3.8	-4.2	0.2
16	-4.4	-4.6	-4.8	-5	-5.2	-5.4	-5.7	-5.6	-3.3	0.5	4	6.9	8.9	9.6	10	10	9.4	6.6	4	2.7	1.9	1	0.3	0.4	1.3
17	0.6	0.7	0.8	0.7	0.5	0.4	0.8	1.7	3.2	4.4	7.8	11	12.4	14.2	15.1	15	14.1	10.6	7.6	6.2	5.8	5.9	5.9	6	6.3
18	6	5.5	4.9	5	5.6	5.9	6	5.7	6	7.2	9.5	11	11.7	12.5	13	12.6	12.1	11.3	10.2	8.7	7	5.4	4.3	3.4	7.9
19	2.5	1.8	1.3	1	0.6	0.4	1.2	2.1	3.4	5.4	9	11.8	12.6	13.1	12.7	11.9	11	9.5	7.5	5.8	4.8	4.3	4.1	3.6	5.9
20	1.7	0.1	-1.5	-3.2	-4.7	-6	-7.3	-8.4	-8.5	-7.1	-5.7	-4.4	-3.5	-2.8	-2.2	-1.9	-2.2	-4	-5.8	-6.9	-7.4	-7.4	-7.3	-7.4	-4.7
21	-7.6	-7.5	-7	-7.1	-6.9	-6.7	-6.4	-5.6	-3	0.6	3.8	6.1	7.7	9.3	10.7	11.5	11.3	9.4	7.3	6.3	5.8	5.4	5.1	4.9	2
22	4.5	4.2	3.9	3.3	2.6	2.1	1.9	2	3.7	7.6	12.4	16.4	18.1	17.8	17.5	16.6	14.9	13.1	11	9.7	9.1	9.7	10.8	11.9	9.4
23	11.9	12	12.5	13.1	13.1	13.2	13.4	13.2	13.5	14	15.2	17.4	18.9	19.4	18.2	17.8	17.7	17.7	17.5	17.2	16.6	14.6	13.7	12.2	15.2
24	9.8	8.2	7.1	6.3	5.7	5.1	4.4	3.8	3.3	3.4	4.1	4.7	5.1	4.9	4.6	4	3.4	3	2.7	2.6	2.5	2.5	2.3	1.8	4.4
25	1.4	0.8	0.2	-0.3	-0.4	-0.4	-0.4	-0.2	-0.1	0.2	0.7	1.3	1.7	2.1	2.4	2.2	1.7	1	0.3	0	-0.2	-0.1	0.1	0.4	0.6
26	0.6	0.8	1.1	1.6	1.8	1.7	1.7	1.7	1.7	1.6	1.6	1.5	1.4	1.4	1.4	1	0.6	0.2	-0.1	-0.7	-1.5	-2.4	-3.2	-3.8	0.5
27	-4.2	-4.2	-4.4	-5	-5.2	-4.7	-4.2	-4.1	-2.9	-0.6	1.5	2.6	3.1	3.1	3	2.9	2.4	0.3	-2.1	-3.3	-3.7	-3.8	-4.1	-4.5	-1.8
28	-4.9	-4.9	-4.9	-5.4	-5.7	-5.8	-6.1	-6.3	-4.7	-1.3	1.8	4.4	6.1	6.3	6.4	5.5	4.5	2.7	0.6	-0.4	-1.1	-1.2	-0.8	-0.4	-0.7
29	-0.2	-0.1	-0.1	-0.1	0.1	0.4	0.8	1.4	2.1	3.5	6.4	9	10.6	11.8	12.7	13.1	12.7	11.5	10.3	9.2	8.3	7.6	7.5	8	6.1
30	8.2	8.1	7.6	7.5	7.7	7.5	6.8	5.9	6.5	9.4	11.9	14.5	16.2	17.1	17.1	16.5	14.7	11.4	8.8	7.9	7.7	7.7	7.9	8.1	10.1
31	8.1	7.5	6.9	6.7	5.9	5.3	4.5	4.1	4.4	6.2	9.2	12.2	14.7	17.4	19	19.1	17.2	14.5	12.3	10.4	9.6	9.7	9.8	9.3	10.2
Avg	5.5	5.1	4.9	4.6	4.4	4.2	4.1	4.1	5	7	9.3	11.3	12.3	12.9	13.1	12.8	12	10.2	8.5	7.5	6.8	6.4	6.1	5.9	7.7
SD	6.6	6.6	6.7	6.9	7.1	7.2	7.3	7.3	7	6.6	6.4	6.5	6.6	6.6	6.6	6.6	6.4	6.3	6.4	6.4	6.5	6.4	6.6	6.6	6.2
S/A	1.21	1.28	1.37	1.49	1.6	1.7	1.77	1.79	1.4	0.94	0.69	0.58	0.54	0.52	0.51	0.51	0.54	0.62	0.75	0.86	0.94	1	1.07	1.13	0.81
Min	-7.6	-7.5	-7	-7.1	-6.9	-6.7	-7.3	-8.4	-8.5	-7.1	-5.7	-4.4	-3.5	-2.8	-2.2	-1.9	-2.2	-4	-5.8	-6.9	-7.4	-7.4	-7.3	-7.4	-4.7
Max	19.5	19.1	19.4	19.7	19.9	19.8	20	19.8	19.8	19.7	21.3	22.8	23.8	24.1	23.7	23.5	23.5	21.5	20.2	19.8	19.5	19.3	19.3	19.7	19.7
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% 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.

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

December 2004

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	1.4	2.8	2.5	2.9	3.9	4.4	5.3	5.8	6.8	6.5	5.8	7.1	5.1	5.7	5.5	5.1	3.5	2.6	2.5	1.9	2.3	1.3	1.5	1.7	3.9
2	1.3	1.4	1.5	1.3	0.7	0.6	0.7	0.7	0.2	0.1	1.9	3.6	3.6	3.8	3.7	3.7	2.3	1.8	0.7	0.8	0.4	0.3	1	1.7	1.6
3	2.1	2.9	2.8	2.9	2.9	2.2	2	2.2	2.3	1.5	1.9	2.2	2.9	2.8	2.3	2.4	1.8	1.5	1.2	1.1	0.5	0.6	0.6	1.2	2
4	1.2	1	0.9	0	0	0.5	0.4	0.4	0.2	0.1	0.3	1.1	1.4	3.1	3	2.7	1.1	0.7	1.2	1.1	1.5	2.2	1.6	1.3	1.1
5	1.4	1.4	1.1	1.2	1.6	2	2.1	2	2.1	1.7	0.8	0.7	0.6	1	1.1	1.5	1.3	1.5	1.5	1	1.2	1.1	1.3	1.3	1.4
6	1.1	0.7	1.3	0.3	1.2	1.4	1.4	0.7	0.8	1.1	1.2	1.7	1.7	1.7	1.4	1.1	1.1	0.4	0.3	1.2	1.1	0.4	0.3	0.1	1
7	0.2	0.3	0.3	0	0.4	0.7	0.9	1.7	1.8	3	3	3.7	4.2	3.9	3.5	3.3	3.8	4.2	4.6	5.3	4.5	5	4.5	4.5	2.8
8	3.7	4.3	5	4.5	3.4	3.3	2.7	1.8	2	3	2.8	2.1	2.1	2.2	2.4	1.8	0.7	0.1	1.2	2.3	1.9	1.8	1.7	1.4	2.4
9	1.7	0.7	0.4	1.2	1.2	1.3	1.8	1.7	1.9	1.9	2.2	2.2	1.9	1.2	0.7	0.9	1.3	1.6	2.7	3.4	1.7	1.1	2.6	2.8	1.7
10	2.2	3.3	3.5	3.1	2.9	3.3	1.2	2	1.9	1.9	2.5	4	4.1	4.1	3.5	3	2.8	2.3	3.2	3.1	3.3	3	2	2.1	2.8
11	1.4	1.3	1.2	1.9	3.4	4	4.6	4.7	5.4	6.5	5.7	5.6	6.1	4.8	4.9	5.1	4.4	3.8	3.3	3.9	4.1	4.2	4	3.7	4.1
12	2.9	2.4	2.2	2	2.2	2.2	2.2	2.3	3	3	2.7	3.4	3.2	3.7	3.9	3.2	2.7	2	1.9	2.1	3.1	4	3.7	3.8	2.8
13	3.6	4.1	4.3	4.7	4.2	4.2	3.6	3.6	4	5.5	5.7	5.6	6.7	6.4	5.6	4.9	4.1	3.2	1.9	2.3	3	2.6	2.3	2.5	4.1
14	2.3	2	1.5	1.7	1.9	1.4	1.4	0.9	1.5	1.8	3	3.6	2.7	2.6	1.9	3.2	2.2	2.6	2.2	2.7	3.8	3.9	3.8	3.3	2.4
15	3	3.2	3.3	3.4	3.6	3.5	3.3	3.4	3.9	4.4	4.4	3.9	3.8	3.3	3.6	3.1	2.3	1	0.5	1.1	1	0.6	0.9	1	2.7
16	0.9	1	1	1.2	1.1	1	1.1	1.2	1.1	2	1.7	1.7	2.2	2.4	2.3	2.1	1.8	1.4	1.5	1.2	1.2	0.8	1.6	1.8	1.5
17	2	1.9	2.5	2.3	2.1	2.3	2.3	2.4	2	2.5	2.8	3.2	2.3	1.9	1.3	1.3	1.4	1	1.4	1.6	1.7	1.1	1.1	1	1.9
18	0.8	1	0.9	1.3	1.2	1.1	1.7	1.3	1.9	1.9	2.2	2.6	2.8	3.3	2.9	2.6	2.2	1.6	1.7	1.1	0.6	0.9	0.7	0.1	1.6
19	0.4	0.3	0.1	0.3	0.1	0.7	0.8	0.9	1.1	1.1	2.7	2.7	2.2	2.2	2.9	1.8	1.1	1.7	2.8	3.2	2.7	2.6	2	6.2	1.8
20	7.7	5.9	6.2	5	4.2	4.4	5.2	5	6.5	6.5	6	6.2	5.9	4.9	4.4	4.2	3.4	2	1.2	1.3	1.8	1.7	1.5	0.9	4.2
21	1.1	1.9	0.8	0.8	1	1.2	1.9	2.9	3.2	4.1	4.9	5.1	4.7	4.2	4.5	4.1	2.4	1.8	1.9	2	2	2.2	2	1.8	2.6
22	2.1	2	1.3	0.5	0.5	0.9	1.1	0.7	0.5	0.4	0.4	1.4	2.6	1.9	3.2	2.9	2.5	1.9	2	1.2	1.5	2.1	1	0.7	1.5
23	1.4	1.5	3.7	3.4	3.4	2	1.9	2.6	3.8	3.1	4.4	5.5	6.4	6.5	6.3	6	5.2	3.9	2.7	2.4	4	2	4.4	6.1	3.9
24	5.2	4.9	5.4	4.6	4.6	4.9	4.8	4.5	4.2	4.4	4.5	4.6	4.1	3.9	3.5	4	3.7	3.5	3.9	3.5	3.3	3.2	2.6	2.6	4.1
25	2.8	2.8	2.9	3.9	3.7	3.4	3.8	3.9	4	4.3	5	5	4.7	4.4	4.2	4.3	4.1	4.1	3.3	3.5	3.4	3.9	3.6	3.5	3.8
26	3.7	3.5	4	4.3	3.9	3.5	4.4	5.5	5.7	6	5.3	5	5.4	5.4	4.8	5.1	4.5	4.3	2.9	2.8	2.5	2.7	2.6	2.6	4.2
27	2.6	2.2	1.9	2	2.3	2.6	2.6	1.8	1.7	2.9	4.9	4.7	4.6	4.3	4	3.3	1.9	1.1	1	1.6	2	1.9	1.9	1.3	2.5
28	1.8	2.4	1.3	1.3	1.5	1.3	1	0.9	1.7	2.1	1.7	0.9	1.6	1.5	1.6	1.7	1.4	1.1	0.8	0.9	1.2	1.6	2	2.3	1.5
29	2.2	2.4	2.6	3	3	3.2	3.3	3.5	4.1	4.1	5.4	5.3	4.4	4.3	4.5	4.1	2.9	3.6	3.5	3.2	3.1	2.9	2.7	2	3.5
30	1.3	1.2	0.3	0.7	0.9	1.1	0.8	0.8	0.4	2	2.3	2.7	3	2.3	2.5	2.6	2.2	1.4	0.9	1.2	1.5	0.7	0.2	0.6	1.4
31	0.2	0.7	1.5	0.4	0.7	0	0.3	0.2	0.1	0.3	1.1	2	1.7	1.8	2	1	1.3	0.3	0.1	0.3	1.1	1.9	1.5	1.5	0.9
Avg	2.1	2.2	2.2	2.1	2.2	2.2	2.3	2.3	2.6	2.9	3.2	3.5	3.5	3.4	3.3	3.1	2.5	2.1	2	2.1	2.2	2.1	2	2.2	2.5
SD	1.5	1.4	1.6	1.5	1.4	1.4	1.5	1.6	1.9	1.9	1.7	1.7	1.6	1.5	1.4	1.4	1.2	1.2	1.1	1.2	1.1	1.2	1.2	1.5	1.1
S/A	0.72	0.63	0.72	0.72	0.64	0.62	0.65	0.68	0.72	0.66	0.55	0.48	0.46	0.44	0.43	0.44	0.48	0.59	0.58	0.56	0.53	0.6	0.58	0.69	0.44
Min	0.2	0.3	0.1	0	0	0	0.3	0.2	0.1	0.1	0.3	0.7	0.6	1	0.7	0.9	0.7	0.1	0.1	0.3	0.4	0.3	0.2	0.1	0.9
Max	7.7	5.9	6.2	5	4.6	4.9	5.3	5.8	6.8	6.5	6	7.1	6.7	6.5	6.3	6	5.2	4.3	4.6	5.3	4.5	5	4.5	6.2	4.2
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

December 2004

Wind Direction
Hourly and Daily Averages
Instrument: NRG Vane
Degrees from North

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	147	157	164	166	164	172	169	175	186	193	212	249	268	271	280	281	286	283	282	278	289	277	272	274	225
2	292	278	278	275	287	293	297	300	320	58	112	121	131	130	103	114	113	117	107	116	145	185	213	230	133
3	237	250	251	261	268	280	288	288	292	288	288	286	281	268	279	259	251	251	260	236	219	182	201	218	265
4	223	216	301	332	224	321	334	255	296	246	16	154	198	239	228	229	201	163	170	173	213	228	210	214	219
5	222	220	211	211	214	222	233	236	257	280	293	253	166	167	186	94	136	139	110	122	118	112	134	124	192
6	135	119	110	116	117	110	108	155	204	206	214	185	191	181	187	165	162	183	208	205	210	229	184	156	168
7	159	205	163	171	127	160	168	175	187	201	195	197	195	191	183	188	173	180	184	194	193	196	198	204	190
8	208	217	226	227	236	258	274	279	285	289	296	286	255	227	235	238	288	357	19	62	79	96	109	100	244
9	103	103	48	33	52	75	72	64	77	94	117	101	133	142	69	77	100	116	121	125	140	168	178	186	112
10	183	183	185	177	180	195	201	165	199	179	177	168	176	177	180	181	180	182	178	188	189	227	209	223	185
11	207	195	185	201	213	223	227	226	230	231	224	220	227	227	225	247	238	232	239	232	235	245	261	263	230
12	270	270	270	258	263	265	261	259	264	279	283	280	258	235	226	217	216	211	210	205	206	212	204	208	241
13	207	215	223	227	229	226	220	222	221	231	239	254	257	262	275	280	288	296	291	295	290	284	272	277	250
14	290	283	276	287	289	275	285	282	292	291	330	324	329	315	318	333	308	321	317	326	328	328	325	318	313
15	315	307	309	307	306	305	310	313	316	330	332	330	330	326	322	324	305	307	266	254	265	271	279	284	314
16	280	285	277	274	281	285	270	273	267	260	245	228	222	229	222	192	187	185	182	196	199	183	182	192	228
17	199	227	232	228	215	224	224	239	226	236	261	269	270	270	262	237	169	96	68	59	68	63	64	58	234
18	61	35	41	44	19	9	11	6	356	12	41	46	29	24	11	360	344	339	330	323	283	280	277	290	10
19	224	208	180	149	143	156	160	152	159	184	178	184	188	206	227	280	293	273	276	279	277	284	288	343	250
20	335	323	318	317	317	302	300	298	301	305	298	299	294	294	294	289	282	285	277	257	249	244	238	213	301
21	210	230	195	183	204	203	189	187	193	207	209	203	201	202	214	217	188	185	190	195	205	199	207	198	202
22	200	204	199	206	196	169	164	146	172	195	105	84	87	116	105	110	105	100	90	88	89	93	114	95	120
23	87	102	116	109	119	136	121	118	122	145	161	167	168	170	168	165	184	189	176	195	317	329	352	360	152
24	359	359	356	347	352	348	343	350	349	348	348	346	345	1	357	349	355	351	349	346	349	341	346	339	350
25	349	345	343	353	350	353	347	354	353	355	358	356	355	350	352	356	358	3	10	2	350	347	342	343	353
26	353	352	352	354	351	358	348	341	333	342	344	339	346	340	328	316	316	317	310	303	298	292	294	293	333
27	298	292	284	293	304	308	300	299	279	310	316	318	315	311	321	319	319	312	305	317	349	354	330	311	312
28	314	329	325	331	326	318	311	310	354	20	17	96	212	187	211	200	198	155	167	173	205	210	214	209	261
29	213	214	213	216	214	217	216	220	226	227	236	247	236	242	233	231	245	235	230	239	243	244	253	262	232
30	243	224	220	238	225	246	280	286	314	18	48	71	71	69	63	58	56	52	69	52	63	69	301	40	54
31	333	126	111	60	357	50	26	54	77	109	114	131	163	173	171	103	100	116	141	182	209	220	216	218	156
Avg	275	263	265	270	267	261	269	263	265	271	269	259	251	247	250	259	250	249	238	239	258	256	254	269	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
36.28 N Latitude 76.22 W Longitude 26 Meters AMSL Time Zone -5

December 2004

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	2.3	4.5	4	4.8	6.4	7.4	8.6	9.6	11.5	11.1	9.6	12.3	8.6	10.5	11	10.4	7	5	4.8	3.5	4.5	2.5	2.3	2.8	6.9
2	2.3	2.2	2.4	2.1	1.3	1.1	1.3	1.3	0.9	0.7	3.3	5.5	5.6	5.9	5.8	5.6	3.6	2.9	1.3	1.5	0.7	0.8	1.6	2.6	2.6
3	3.4	4.5	4.2	4.3	4.7	4	3.7	4.1	4.8	3.3	3.6	4.4	5.7	5	4.5	4.3	2.8	2.2	1.6	1.6	1	1.1	1.1	1.7	3.4
4	1.7	1.5	1.6	0.2	0.2	0.9	0.9	0.8	0.7	0.5	1.1	2	2.8	5	4.8	4.3	2.2	1.2	2.1	1.9	2.3	3.2	2.6	2	1.9
5	2.1	2	1.6	1.8	2.3	2.8	2.9	2.8	3.3	3.1	2.1	1.7	1.5	2	2.1	2.3	2.1	2.2	2.1	1.5	1.7	1.5	1.9	1.8	2.1
6	1.6	1	1.7	0.7	1.7	2.1	2.2	1.3	1.6	2.1	2.1	3.2	3.3	3	2.5	1.9	1.9	1.1	0.8	2.1	1.8	0.9	0.8	0.3	1.7
7	0.8	1	0.9	0.3	1	1.6	2.1	3.2	3.5	5.2	5.2	6.2	7.5	6.5	5.7	5.6	6.2	7.1	7.8	8.6	7.4	8.2	8	7.6	4.9
8	6.1	7.3	7.9	7.1	5.1	5.1	4.9	3.3	3.9	5.9	5.9	4.4	4.2	3.8	3.7	3.1	1.4	0.3	2.1	3.4	2.8	2.7	2.4	1.9	4.1
9	2.4	1.3	0.7	1.6	2	1.9	2.5	2.6	3.2	3.4	3.8	3.4	3.2	2.7	1.8	2.1	2.4	3.1	4.5	5.5	3.4	2.6	5.2	5.3	2.9
10	4.4	6.2	6.5	5.7	5.3	6.3	2.6	4	4.1	4.7	7	7	6.7	6.4	5.2	4.8	3.9	5.6	5.4	5.7	4.8	3.4	3.5	3.5	5.1
11	2.5	2.3	2.3	3.6	5.7	6.5	7.4	7.4	8.4	10.3	9	9	9.6	7.4	7.7	8.5	6.7	5.7	5.2	5.9	6.6	6.3	6.2	6.1	6.5
12	5	4	3.8	3	3.5	3.4	3.3	3.4	5	6.1	5.6	6.5	5.6	6.2	6.2	5.2	4.4	3.3	3.3	3.6	5.3	6.8	6	6.2	4.8
13	6.1	7	6.7	7.3	6.7	6.5	5.8	6	6.8	8.6	8.6	9	11	11.2	10.6	10.2	7.6	6.3	4	4.9	6.2	4.9	4	4.5	7.1
14	4.5	3.7	2.8	3.1	3.5	2.6	1.9	3.3	3.8	5.7	6.9	5.4	5.4	4.5	5.7	4.5	4.9	4.4	5.3	6.6	7.3	7.3	6.4	4.7	4.7
15	5.8	6.7	6.7	6.7	6.8	6.8	6.6	7	7.9	8.4	7.9	7.7	7.5	6.8	6.6	6.3	4.7	2.3	1	1.5	1.5	1.2	1.5	1.8	5.3
16	1.6	1.9	1.8	1.9	2.1	1.7	1.5	1.8	2	3.2	3	3.3	4	4.1	3.9	3.5	3	2.3	2.5	2	2	1.6	2.5	2.9	2.5
17	3	2.7	3.6	3.5	3.2	3.5	3.5	3.8	3.2	3.8	4.8	5.2	4.3	3.8	2.6	2.4	2.3	1.6	2.1	2.4	2.7	1.8	1.9	1.7	3.1
18	1.3	1.5	1.6	2.3	2.2	2	2.8	2.5	3	3.3	4	4.8	5.2	5.6	5	4.5	4	2.9	3.1	1.9	1.3	1.4	1.3	0.6	2.8
19	0.7	0.7	0.2	0.7	0.3	1.3	1.5	1.6	2	2.4	4.6	4.3	3.7	3.7	4.7	3.7	2.7	3.2	5.6	6.8	5.3	5.1	4.1	10.8	3.3
20	12.8	11.4	11.6	9.3	8.3	9.2	10.8	10.1	12.9	12.8	11.6	11.9	12.1	10.5	8.7	8.6	6.8	4.2	2.2	1.8	2.7	2.7	2.4	1.9	8.2
21	1.9	2.9	1.7	1.7	1.7	2	3.1	4.7	5.4	6.9	8.1	8	7.8	7	7.4	6.6	4.2	3.3	3.4	3.4	3.4	3.4	3.1	2.7	4.3
22	3.2	3.1	2.2	1.1	1.2	1.6	1.7	1.3	1.1	1.1	1.1	2.3	3.9	3.2	4.9	4.9	4	3.1	3.2	1.9	2.2	3.4	1.9	1.5	2.5
23	2	2.4	6	5.6	5.5	3.6	3.3	4.3	5.9	5.4	7.5	8.8	10.6	10.3	10.5	10.3	8.5	6.8	5	4.7	8	4.5	8.1	10.3	6.6
24	9.3	8.1	9	7.9	7.8	8.6	8.2	7.8	7.1	7.2	7.8	7.8	7.2	6	5.7	6.8	6.5	5.8	6	6	5.8	5.7	4.6	4.3	7
25	4.8	4.7	5	6.2	6.4	5.8	5.8	6.3	6.5	7.2	8.1	9	7.9	7.5	7	7.4	6.8	7	5.9	5.9	6	6.2	6.2	6.2	6.5
26	6.4	5.8	6.6	7.7	6.4	6.4	7.2	8.6	9.9	10.3	8.7	8.2	9.2	9.4	9	10.2	9.1	7.9	6.7	6.5	5.5	5.8	5.4	5	7.6
27	5.2	4.5	3.4	3.7	4.7	5.3	5.1	4.3	3.7	6.2	8.8	9.3	8.8	8.3	7.6	6.7	4	2.4	2.2	2.6	3.4	3.1	3.2	2.5	5
28	3.6	3.9	2.6	2.3	2.8	2.4	2	1.8	2.9	3.7	3.1	2.1	3	2.8	2.9	3	2.3	1.7	1.5	1.7	2.1	2.5	3	3.6	2.6
29	3.3	4	4.3	4.5	4.8	5.1	5.4	5.3	6.1	6.6	8.2	8.3	6.9	6.6	6.8	5.9	4.4	5.3	5	5.1	4.7	4.3	4.2	3.2	5.3
30	1.9	1.7	0.8	1.3	1.3	1.7	1.5	1.6	1.3	3.6	3.9	4.3	4.7	3.9	4.1	4	3.6	2.1	1.6	1.9	2.4	1.6	0.5	1.2	2.3
31	0.6	1.3	2.2	0.8	1.2	0.1	0.6	0.6	0.5	1.2	2.4	3.2	3	3	3.2	1.6	1.8	0.6	0.3	0.6	1.6	2.8	2.5	2.4	1.6
Avg	3.6	3.7	3.7	3.6	3.7	3.8	3.9	4	4.6	5.2	5.6	6.1	6.2	5.9	5.7	5.5	4.4	3.6	3.4	3.6	3.8	3.6	3.5	3.7	4.4
S D	2.6	2.5	2.7	2.6	2.4	2.5	2.6	2.7	3.1	3.2	2.8	2.9	2.7	2.6	2.5	2.6	2.1	2.1	1.9	2.1	2.1	2.1	2.1	2.6	1.9
S/A	0.73	0.67	0.73	0.71	0.63	0.64	0.66	0.66	0.69	0.61	0.5	0.47	0.44	0.43	0.44	0.47	0.48	0.57	0.57	0.57	0.56	0.58	0.6	0.7	0.45
Min	0.6	0.7	0.2	0.2	0.2	0.1	0.6	0.6	0.5	0.5	1.1	1.7	1.5	2	1.8	1.6	1.4	0.3	0.3	0.6	0.7	0.8	0.5	0.3	1.6
Max	12.8	11.4	11.6	9.3	8.3	9.2	10.8	10.1	12.9	12.8	11.6	12.3	12.1	11.2	11	10.4	9.1	7.9	7.8	8.6	8	8.2	8.1	10.8	8.2
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

December 2004

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	1017	1015	1014	1013	1012	1011	1009	1008	1008	1007	1007	1007	1008	1009	1009	1011	1012	1013	1014	1016	1016	1017	1017	1018	1018	1012
2	1017	1018	1018	1019	1018	1019	1019	1020	1020	1020	1020	1019	1018	1017	1017	1016	1015	1015	1014	1014	1013	1012	1012	1012	1011	1017
3	1011	1010	1010	1010	1010	1010	1011	1012	1013	1013	1014	1013	1012	1012	1012	1012	1013	1014	1014	1015	1015	1015	1015	1016	1013	1013
4	1015	1015	1016	1015	1016	1016	1016	1017	1017	1018	1018	1018	1017	1016	1015	1015	1016	1016	1016	1016	1017	1017	1017	1017	1016	1016
5	1017	1017	1017	1017	1018	1018	1019	1020	1021	1022	1022	1022	1021	1020	1020	1020	1020	1020	1021	1022	1022	1022	1022	1022	1022	1020
6	1022	1022	1022	1022	1022	1021	1021	1021	1022	1022	1022	1022	1021	1020	1019	1018	1018	1018	1018	1019	1018	1018	1018	1018	1018	1020
7	1017	1017	1017	1016	1015	1015	1015	1015	1015	1016	1016	1015	1013	1012	1011	1010	1009	1009	1009	1009	1009	1009	1009	1009	1013	1013
8	1009	1010	1010	1010	1011	1012	1013	1014	1015	1017	1017	1017	1016	1016	1016	1016	1017	1017	1018	1019	1019	1019	1019	1019	1019	1015
9	1018	1018	1019	1018	1018	1018	1017	1017	1017	1017	1016	1015	1015	1014	1013	1013	1012	1011	1010	1008	1008	1009	1008	1008	1014	1014
10	1007	1006	1005	1004	1004	1004	1003	1003	1003	1003	1002	1000	999	998	997	996	996	997	997	997	997	997	998	998	998	1000
11	998	997	997	996	996	996	997	997	998	999	999	999	998	998	998	999	999	1000	1001	1001	1001	1002	1003	1003	1004	999
12	1004	1005	1005	1005	1005	1006	1007	1008	1009	1010	1010	1009	1008	1008	1007	1007	1008	1008	1008	1008	1008	1008	1007	1007	1006	1007
13	1006	1006	1005	1005	1004	1004	1004	1005	1005	1005	1005	1004	1004	1004	1004	1005	1007	1008	1010	1011	1012	1012	1013	1014	1007	1007
14	1014	1014	1015	1016	1016	1016	1017	1018	1019	1019	1019	1018	1018	1018	1019	1019	1020	1021	1021	1022	1022	1022	1023	1024	1019	1019
15	1024	1024	1025	1025	1025	1026	1027	1028	1028	1029	1030	1029	1029	1028	1028	1028	1029	1029	1030	1031	1031	1030	1030	1030	1028	1028
16	1030	1030	1030	1031	1030	1031	1031	1031	1032	1032	1032	1031	1030	1029	1028	1028	1028	1027	1027	1027	1027	1026	1026	1025	1029	1029
17	1024	1024	1024	1024	1023	1023	1023	1023	1024	1024	1024	1023	1022	1021	1021	1021	1021	1021	1022	1022	1022	1022	1022	1021	1023	1023
18	1020	1020	1020	1019	1018	1018	1018	1018	1017	1017	1016	1015	1014	1013	1012	1012	1012	1012	1012	1012	1012	1012	1012	1011	1015	1015
19	1011	1010	1010	1009	1008	1008	1008	1008	1007	1007	1007	1006	1004	1003	1002	1002	1001	1001	1002	1002	1003	1002	1002	1003	1005	1005
20	1004	1005	1006	1007	1008	1009	1011	1012	1013	1014	1015	1015	1015	1015	1016	1016	1018	1019	1020	1021	1022	1023	1023	1023	1014	1014
21	1022	1023	1023	1022	1022	1023	1022	1022	1022	1023	1022	1021	1020	1020	1019	1020	1020	1020	1021	1021	1022	1023	1023	1024	1022	1022
22	1023	1024	1024	1024	1024	1024	1025	1025	1025	1025	1025	1024	1023	1023	1023	1022	1022	1022	1022	1022	1022	1022	1020	1019	1023	1023
23	1018	1018	1017	1016	1015	1015	1014	1013	1013	1012	1012	1010	1009	1008	1008	1007	1007	1008	1008	1009	1010	1010	1012	1013	1012	1012
24	1014	1014	1016	1016	1017	1017	1018	1018	1019	1020	1020	1020	1019	1019	1019	1018	1018	1018	1018	1019	1019	1019	1019	1019	1018	1018
25	1019	1019	1019	1018	1018	1018	1019	1020	1020	1021	1022	1021	1021	1020	1020	1021	1020	1020	1020	1020	1021	1021	1021	1020	1020	1020
26	1019	1019	1018	1017	1017	1016	1015	1014	1014	1014	1014	1012	1011	1009	1010	1010	1012	1013	1014	1015	1016	1017	1017	1018	1015	1015
27	1019	1019	1020	1021	1022	1023	1024	1025	1027	1028	1029	1029	1029	1029	1029	1030	1031	1031	1032	1033	1033	1034	1034	1035	1028	1028
28	1034	1034	1035	1035	1035	1035	1035	1036	1036	1036	1036	1035	1034	1033	1033	1032	1032	1031	1031	1031	1031	1030	1030	1029	1033	1033
29	1028	1028	1028	1027	1026	1026	1026	1026	1026	1026	1026	1025	1024	1023	1023	1023	1023	1023	1023	1024	1024	1024	1025	1025	1025	1025
30	1025	1025	1025	1025	1025	1026	1026	1027	1027	1028	1029	1028	1028	1028	1028	1028	1029	1029	1029	1030	1030	1030	1031	1030	1028	1028
31	1030	1029	1029	1029	1029	1029	1029	1029	1029	1030	1029	1029	1028	1027	1026	1026	1026	1026	1026	1026	1026	1026	1026	1026	1028	1028
Avg	1017	1017	1017	1017	1017	1017	1017	1018	1018	1019	1018	1018	1017	1016	1016	1016	1016	1017	1017	1017	1018	1018	1018	1018	1017	1017
S/D	8	8	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	9	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	0.01
Min	998	997	997	996	996	996	997	997	998	999	999	999	998	998	997	996	996	997	997	997	997	998	998	998	999	999
Max	1034	1034	1035	1035	1035	1035	1035	1036	1036	1036	1036	1035	1034	1033	1033	1032	1032	1031	1032	1033	1033	1034	1034	1035	1033	1033
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	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.

December 2004

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.7	12.7	12.6	12.8	12.7	13.4	13.5	13.5	13.3	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.8
2	12.7	12.6	12.6	12.6	12.5	12.5	12.5	13.6	13.9	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.3	12.9	12.8	12.8	12.8	12.7	12.7	12.7	13.1
3	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.5	13.8	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.3	12.9	12.8	12.8	12.7	12.7	12.7	12.7	13.1
4	12.7	12.7	12.6	12.6	12.6	12.5	12.5	12.6	13.7	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.3	12.9	12.8	12.8	12.8	12.7	12.7	12.7	13
5	12.7	12.7	12.7	12.6	12.6	12.6	12.5	13.4	13.8	13.7	13.6	13.6	13.5	13.5	13.5	13.5	13.2	12.9	12.8	12.8	12.8	12.7	12.7	12.7	13
6	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.8	13.1	13.3	13.2	13.6	13.6	13.1	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.9
7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13.2	13.4	13.4	13.3	13.4	13.3	13.2	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.7	12.9
8	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13.1	13.5	13.4	13.4	13.4	13.3	13.3	13.4	13.4	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
9	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.1	13.6	13.6	13.5	13.4	12.9	12.9	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.6	12.6	12.9
10	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.3	13.2	13.2	13.3	13.3	13.1	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.8
11	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.1	13.6	13.7	13.6	13.6	13.6	13.5	13.4	13.2	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
12	12.7	12.6	12.6	12.6	12.5	12.5	12.5	13.3	13.8	13.8	13.7	13.7	13.6	13.6	13.6	13.7	13.3	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13.1
13	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13.5	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13.3	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
14	12.6	12.6	12.6	12.6	12.6	12.5	12.5	13.4	14	13.9	13.8	13.8	13.8	13.8	13.8	13.7	13	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13.1
15	12.6	12.6	12.6	12.5	12.5	12.5	12.4	13.3	14	14	13.9	13.9	13.9	13.9	13.9	13.9	13.6	12.8	12.8	12.7	12.7	12.7	12.7	12.6	13.1
16	12.6	12.6	12.6	12.6	12.5	12.4	12.4	13.4	14	14	13.9	13.8	13.8	13.8	13.7	13.8	13.5	12.9	12.8	12.8	12.8	12.7	12.7	12.7	13.1
17	12.7	12.7	12.6	12.6	12.6	12.6	12.5	13.1	13.4	13.8	13.7	13.7	13.7	13.6	13.6	13.6	13.4	12.9	12.8	12.8	12.7	12.7	12.7	12.7	13
18	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.5	12.9	13.4	13.2	13	13.4	13.6	13.1	13.2	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.6	12.9
19	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.8	13.6	13.8	13.7	13.7	13.7	13.4	12.9	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9
20	12.6	12.6	12.6	12.5	12.5	12.4	12.4	12.7	14.2	14.2	14.1	14.1	14.1	14.1	14.1	14.1	13.8	12.8	12.8	12.7	12.7	12.7	12.6	12.6	13.2
21	12.6	12.6	12.5	12.5	12.4	12.4	12.4	13.2	14	13.9	13.9	13.8	13.8	13.7	13.7	13.7	13.4	12.9	12.8	12.8	12.8	12.8	12.7	12.7	13.1
22	12.7	12.7	12.7	12.6	12.6	12.6	12.6	13.2	13.8	13.8	13.6	13.5	13.5	13.5	13.5	13.5	13.3	12.9	12.8	12.8	12.8	12.8	12.7	12.7	13.1
23	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.3	13.2	13.3	13.1	13.2	12.9	12.8	12.8	12.8	12.7	12.7	12.7	12.6	12.6	12.8
24	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.7	13.5	13.9	13.9	13.9	13.9	13.1	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.9
25	12.6	12.5	12.5	12.4	12.4	12.4	12.4	12.4	12.5	13	13.6	13.9	14	14	13.9	13.1	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
26	12.6	12.6	12.6	12.6	12.5	12.5	12.4	12.4	12.4	12.4	12.4	12.6	12.6	12.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5
27	12.4	12.4	12.4	12.4	12.4	12.4	12.4	13	14	13.9	13.9	13.9	13.9	13.9	13.9	13.9	13.7	12.9	12.8	12.8	12.8	12.7	12.7	12.7	13.1
28	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13.3	14.1	14	13.9	13.9	13.8	13.8	13.8	13.9	13.5	12.9	12.8	12.7	12.7	12.7	12.7	12.7	13.2
29	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.7	13.8	13.7	13.7	13.7	13.7	13.6	13.3	12.9	12.8	12.8	12.8	12.7	12.7	12.7	13
30	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.9	13.8	13.7	13.7	13.6	13.5	13.5	13.5	13.6	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
31	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.3	13.8	13.7	13.7	13.6	13.5	13.5	13.4	12.9	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13
Avg	12.7	12.6	12.6	12.6	12.6	12.5	12.5	12.9	13.4	13.6	13.6	13.6	13.5	13.6	13.5	13.4	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.4	0.6	0.4	0.4	0.3	0.3	0.3	0.4	0.3	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.04	0.03	0.03	0.03	0.03	0.02	0.03	0.03	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.6	12.6	12.5	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5
Max	12.7	12.7	12.7	12.7	12.7	12.7	12.6	13.6	14.2	14.2	14.1	14.1	14.1	14.1	14.1	14.1	13.8	12.9	12.8	12.8	12.8	12.8	12.8	12.7	13.2
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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.