

January 2009

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	34	133 ?	317 ?	459 ?	533	541	484	371	205	49	0	0	0	0	0	0	0	3126 ?
2	0	0	0	0	0	0	0	22	107 ?	138	163	78	57	97	47	30	5	0	0	0	0	0	0	0	744
3	0	0	0	0	0	0	0	27	105 ?	?	344 ?	508 ?	519	468	359	199	47	0	0	0	0	0	0	0	2574 ?
4	0	0	0	0	0	0	0	15	70	209	185	243	183	250	161	57	21	0	0	0	0	0	0	0	1395
5	0	0	0	0	0	0	0	15	74	140	200	294	340 ?	?	198	108	25	0	0	0	0	0	0	0	1393 ?
6	0	0	0	0	0	0	0	6	15 ?	34 ?	44 ?	58 ?	?	58 ?	54	?	5	0	0	0	0	0	0	0	273 ?
7	0	0	0	0	0	0	0	23	94 ?	?	209 ?	139	71	57	51	48	12	0	0	0	0	0	0	0	704 ?
8	0	0	0	0	0	0	0	30	139 ?	213	269	307 ?	229	220	160 ?	110 ?	53	1	0	0	0	0	0	0	1732 ?
9	0	0	0	0	0	0	0	32	105 ?	?	?	550 ?	?	497 ?	?	225 ?	56	1	0	0	0	0	0	0	1465 ?
10	0	0	0	0	0	0	0	31	101 ?	?	?	336 ?	313 ?	?	?	?	48	4	0	0	0	0	0	0	832 ?
11	0	0	0	0	0	0	0	3	50	106	95	160	82 ?	155	127	67	23	2	0	0	0	0	0	0	870
12	0	0	0	0	0	0	0	15	80 ?	172 ?	?	?	?	373 ?	397 ?	246 ?	54	5	0	0	0	0	0	0	1342 ?
13	0	0	0	0	0	0	0	8	24	43	58	79	75	60 ?	32 ?	27 ?	7	1	0	0	0	0	0	0	412 ?
14	0	0	0	0	0	0	0	24	105 ?	?	?	?	556 ?	513 ?	407 ?	237	70	5	0	0	0	0	0	0	1916 ?
15	0	0	0	0	0	0	0	32	99 ?	?	?	?	?	354 ?	159 ?	120 ?	61	7	0	0	0	0	0	0	833 ?
16	0	0	0	0	0	0	0	36	105 ?	?	?	?	?	542 ?	413 ?	254 ?	78	3	0	0	0	0	0	0	1432 ?
17	0	0	0	0	0	0	0	37	110 ?	?	?	?	602 ?	524 ?	381 ?	177 ?	87	11	0	0	0	0	0	0	1929 ?
18	0	0	0	0	0	0	0	5	30	74	82	90	59	47	64	28 ?	4 ?	1	0	0	0	0	0	0	485 ?
19	0	0	0	0	0	0	0	10	59	175 ?	?	295 ?	379 ?	260	208	150	49	6	0	0	0	0	0	0	1590 ?
20	0	0	0	0	0	0	0	7	40	85	119	139	147	135	113	95	16	6	0	0	0	0	0	0	902
21	0	0	0	0	0	0	0	32	103 ?	?	?	?	?	?	?	?	55 ?	20	0	0	0	0	0	0	210 ?
22	0	0	0	0	0	0	0	37	112 ?	?	?	?	?	?	?	151 ?	89 ?	11	0	0	0	0	0	0	399 ?
23	0	0	0	0	0	0	0	36	109 ?	?	?	?	?	?	?	99 ?	68 ?	10	0	0	0	0	0	0	322 ?
24	0	0	0	0	0	0	0	20	70	132 ?	243 ?	201	182	233	191	141	67	8	0	0	0	0	0	0	1488 ?
25	0	0	0	0	0	0	0	20	59	71	113	172	193	82	60	45	29	7	0	0	0	0	0	0	850
26	0	0	0	0	0	0	0	10	32	97	167	161	315	222	191	115	66	13	0	0	0	0	0	0	1389
27	0	0	0	0	0	0	0	4	26	61	55	103	146	153	135	78	15	3	0	0	0	0	0	0	779
28	0	0	0	0	0	0	0	16	65	108	276	225	205	242	180	64	25	7	0	0	0	0	0	0	1412
29	0	0	0	0	0	0	0	27	85 ?	?	?	?	?	?	366 ?	142 ?	87	17	0	0	0	0	0	0	724 ?
30	0	0	0	0	0	0	0	25	114	190 ?	?	438 ?	368 ?	?	300 ?	?	64 ?	18	0	0	0	0	0	0	1516 ?
31	0	0	0	0	0	0	0	44	?	?	?	?	?	?	?	?	88 ?	21	0	0	0	0	0	0	153 ?
Avg	0	0	0	0	0	0	0	22	81	131	181	243	265	262	205	124	46	6	0	0	0	0	0	0	1135 ?
S D	0	0	0	0	0	0	0	12	34	72	112	155	176	172	130	71	28	6	0	0	0	0	0	0	692
S/A	0	0	0	0	0	0	0	0.53	0.42	0.55	0.62	0.64	0.66	0.66	0.64	0.57	0.6	1.06	0	0	0	0	0	0	0.61
Min	0	0	0	0	0	0	0	3	15	34	44	58	57	47	32	27	4	0	0	0	0	0	0	0	153
Max	0	0	0	0	0	0	0	44	139	317	459	550	602	542	413	254	89	21	0	0	0	0	0	0	3126
n	0	0	0	0	0	0	0	293	233	177	174	201	195	223	227	226	334	70	0	0	0	0	0	0	2365

Daylight Data Recovery: 0.0% missing; 0.0% untested; 36.3% exceed the 15% QC threshold -- 3710 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31392F3 Calibration Factor: 7.3961 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 07/2007

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.

January 2009

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	0	0	0	0	0	0	0?
2	0	0	0	0	0	0	0	0	0?	0	0	0	1	1	0	0	1	0	0	0	0	0	0	0	3
3	0	0	0	0	0	0	0	1	0?	0?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	1?
4	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
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?
6	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
7	0	0	0	0	0	0	0	0	0?	?	0?	2	0	3	0	0	0	0	0	0	0	0	0	0	5?
8	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?
9	0	0	0	0	0	0	0	0	0?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	0?
10	0	0	0	0	0	0	0	0	0?	?	?	0?	0?	?	?	?	0	0	0	0	0	0	0	0	0?
11	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
12	0	0	0	0	0	0	0	0	0?	0?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	0?
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	1
14	0	0	0	0	0	0	0	0	0?	0?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	0?
15	0	0	0	0	0	0	0	0	0?	?	?	?	?	?	0?	0?	0	0	0	0	0	0	0	0	0?
16	0	0	0	0	0	0	0	0	0?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0?
17	0	0	0	0	0	0	0	1	0?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	1?
18	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
19	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?
20	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
21	0	0	0	0	0	0	0	0	0?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0?
22	0	0	0	0	0	0	0	0	0?	?	?	?	?	?	?	0?	0?	0	0	0	0	0	0	0	0?
23	0	0	0	0	0	0	0	1	0?	?	?	?	?	?	?	0?	0?	0	0	0	0	0	0	0	1?
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?
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
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
27	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
28	0	0	0	0	0	0	0	0	1	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	2
29	0	0	0	0	0	0	0	0	0?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	0?
30	0	0	0	0	0	0	0	1	1	0?	?	0?	0?	?	0?	?	0?	0	0	0	0	0	0	0	2?
31	0	0	0	0	0	0	0	2	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	2?
Avg	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?
SD	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
S/A	0	0	0	0	0	0	0	1.46	2.42	1.7	3.25	3.45	2.63	2.75	2.16	3.41	5.48	0	0	0	0	0	0	0	1.62
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	0	0	2	1	0	1	2	1	3	0	0	1	0	0	0	0	0	0	0	5
n	0	0	0	0	0	0	0	293	245	188	170	188	186	180	192	206	317	70	0	0	0	0	0	0	2237

Daylight Data Recovery: 0.0% missing; 0.0% untested; 39.7% exceed the 15% QC threshold -- 3710 total daylight measurements.

Instrument: Eppley NIP Serial Number: 23398E6 Calibration Factor: 7.1447 μV/W/m² Calibration Date: 07/2007

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.

January 2009

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	29 ?	44 ?	49 ?	49	48	45	41	31	11	0	0	0	0	0	0	0	362 ?
2	0	0	0	0	0	0	0	22	84 ?	138	160	78	55	97	43	27	5	0	0	0	0	0	0	0	709
3	0	0	0	0	0	0	0	16	32 ?	46 ?	56 ?	57 ?	55	52	46	36	16	0	0	0	0	0	0	0	410 ?
4	0	0	0	0	0	0	0	16	70	189 ?	185	234	183	244	159	57	21	0	0	0	0	0	0	0	1358
5	0	0	0	0	0	0	0	17	74	140	200	279	290 ?	?	189	106	25	0	0	0	0	0	0	0	1320 ?
6	0	0	0	0	0	0	0	6	14	24	40	40 ?	28	47	54	15	5	0	0	0	0	0	0	0	273
7	0	0	0	0	0	0	0	23	72 ?	?	197 ?	129	71	52	51	48	12	0	0	0	0	0	0	0	656 ?
8	0	0	0	0	0	0	0	14	70 ?	197	263	276 ?	229	220	148 ?	109 ?	18	1	0	0	0	0	0	0	1544 ?
9	0	0	0	0	0	0	0	15	29 ?	?	?	53 ?	?	50 ?	?	37 ?	16	1	0	0	0	0	0	0	201 ?
10	0	0	0	0	0	0	0	16	30 ?	?	?	298 ?	284 ?	?	?	?	27	4	0	0	0	0	0	0	659 ?
11	0	0	0	0	0	0	0	3	50	106	95	160	69	155	126	67	23	2	0	0	0	0	0	0	856
12	0	0	0	0	0	0	0	17	73 ?	152 ?	?	?	?	91 ?	74 ?	68 ?	26	5	0	0	0	0	0	0	507 ?
13	0	0	0	0	0	0	0	8	23	41	58	79	72	51	29 ?	20 ?	7	1	0	0	0	0	0	0	387
14	0	0	0	0	0	0	0	14	31 ?	54 ?	?	?	67 ?	60 ?	54 ?	46	24	4	0	0	0	0	0	0	355 ?
15	0	0	0	0	0	0	0	16	31 ?	?	?	?	?	200 ?	135 ?	100 ?	39	5	0	0	0	0	0	0	527 ?
16	0	0	0	0	0	0	0	14	30 ?	?	?	?	?	59 ?	49 ?	40 ?	27	2	0	0	0	0	0	0	222 ?
17	0	0	0	0	0	0	0	14	29 ?	?	?	?	76 ?	57 ?	83 ?	85 ?	53	10	0	0	0	0	0	0	408 ?
18	0	0	0	0	0	0	0	5	30	74	82	90	55	44	64	20	7	1	0	0	0	0	0	0	472
19	0	0	0	0	0	0	0	10	59	173 ?	219 ?	235 ?	316 ?	253	194	144	49	6	0	0	0	0	0	0	1657 ?
20	0	0	0	0	0	0	0	7	40	85	119	139	147	135	113	95	16	6	0	0	0	0	0	0	902
21	0	0	0	0	0	0	0	19	40 ?	?	?	?	?	?	?	?	28 ?	17	0	0	0	0	0	0	104 ?
22	0	0	0	0	0	0	0	18	35 ?	?	?	?	?	?	?	140 ?	50 ?	8	0	0	0	0	0	0	250 ?
23	0	0	0	0	0	0	0	19	36 ?	?	?	?	?	?	?	76 ?	37 ?	7	0	0	0	0	0	0	175 ?
24	0	0	0	0	0	0	0	21	70	131 ?	168 ?	191	182	223	190	138	53	7	0	0	0	0	0	0	1374 ?
25	0	0	0	0	0	0	0	22	59	71	113	172	193	82	60	45	29	7	0	0	0	0	0	0	852
26	0	0	0	0	0	0	0	10	32	97	167	161	308	222	190	115	63	12	0	0	0	0	0	0	1378
27	0	0	0	0	0	0	0	4	24	61	51	103	146	153	135	78	15	3	0	0	0	0	0	0	774
28	0	0	0	0	0	0	0	16	65	108	252	224	205	237	179	64	25	7	0	0	0	0	0	0	1383
29	0	0	0	0	0	0	0	26	63 ?	?	?	?	?	?	124 ?	110 ?	72	17	0	0	0	0	0	0	412 ?
30	0	0	0	0	0	0	0	27	102	150 ?	?	355 ?	342 ?	?	261 ?	?	29 ?	11	0	0	0	0	0	0	1279 ?
31	0	0	0	0	0	0	0	19	?	?	?	?	?	?	?	?	23 ?	9	0	0	0	0	0	0	52 ?
Avg	0	0	0	0	0	0	0	15	48	104	137	162	156	123	112	71	28	5	0	0	0	0	0	0	704 ?
S D	0	0	0	0	0	0	0	6	22	53	73	93	103	79	64	39	17	5	0	0	0	0	0	0	479
S/A	0	0	0	0	0	0	0	0.4	0.47	0.5	0.53	0.57	0.66	0.64	0.58	0.55	0.63	0.98	0	0	0	0	0	0	0.68
Min	0	0	0	0	0	0	0	3	14	24	40	40	28	44	29	15	5	0	0	0	0	0	0	0	52
Max	0	0	0	0	0	0	0	27	102	197	263	355	342	253	261	144	72	17	0	0	0	0	0	0	1657
n	0	0	0	0	0	0	0	274	246	192	181	208	214	234	234	253	338	70	0	0	0	0	0	0	2454

Daylight Data Recovery: 0.0% missing; 0.0% untested; 33.9% exceed the 15% QC threshold -- 3710 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31393F3 Calibration Factor: 7.6820 μV/W/m² Calibration Date: 07/2007

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.

January 2009

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	-1.6	-2.1	-2.5	-3.1	-3.7	-3.8	-4	-4	-2.8	-2	-1.1	0	0.8	1.7	2	2.6	2.4	0.4	-0.2	-0.8	-1	-1.1	-1	-1.3	-1.1
2	-1.7	-1.5	-1.5	-1.5	-0.8	-0.1	0.5	1	2.2	3.9	5.7	6.4	6.1	5.9	4.7	3.1	4.5	5.9	6	5.6	5.1	4.8	4.5	4.1	3
3	3.6	3.5	3.3	3	3.1	2.9	2.6	3.5	5.2	6.3	7.3	8.5	9.2	9.6	9.7	9.8	8.9	7.1	5.8	5.2	4.6	4.3	4.3	3.5	5.6
4	3.2	2.7	3	3	3	3.3	3.4	3.7	5.1	7.4	9.2	10.8	11.1	10.9	11.9	11.3	10.9	10.6	10.7	10.5	10.3	11.1	11.4	11.6	7.9
5	11.6	11.7	11.7	11.6	12	12.2	12.3	12.4	12.5	12.8	13.4	14.1	15.1	15.9	16.7	16.6	15.9	15	14.3	12.6	11.6	10.1	9.6	9.4	13
6	8.9	8.3	8.1	8	7.8	7.2	6.9	7	7.2	7.4	7.9	8.7	9.1	9.1	9.4	9.5	9.3	9.3	9.3	9.4	8.7	8	7.8	8.4	8.4
7	11.4	12.6	14	15.8	16.8	17.8	18.3	18.6	19.1	20.2	21.2	18.2	18.1	17.7	17.5	17.7	17.3	17.3	16.9	12.9	10.9	9.9	9.1	8.4	15.7
8	8.2	7.6	7.8	7.2	7.2	6.6	5.8	5.8	6.9	7.5	8	9.1	9.4	9.9	10.3	10.3	10.2	9.3	8.9	7.6	6.8	5.6	4.3	3.2	7.6
9	2.3	1.8	0.7	-0.1	-0.3	-0.9	-1.5	-1.4	0	1.5	3.2	4.1	5.1	5.8	6.1	6.6	6.7	5.5	4.4	3.6	3.6	3.3	2.7	2.6	2.7
10	2.2	2.5	2.6	2.8	3.1	3.1	2.8	3.2	5	7.1	9.2	10.6	12.1	14.2	15.3	15.8	15.3	14.3	13.8	14	13.9	14.2	14.1	13.8	9.4
11	14	13.9	14.2	14	13.9	14	13.7	13.6	13.6	13.9	13.9	14.2	11.5	8.7	8.3	7.9	7.5	6.9	6.3	5.7	5.2	4.9	4.5	4	10.4
12	3.6	3.1	2.8	2.5	2.4	2.2	2	1.7	1.9	2.8	3.7	4.9	5.8	6.2	6.5	6	5.1	3.7	2.9	2.5	2.6	2.7	2.8	2.7	3.5
13	2.3	2.4	2.7	3.8	4.3	4.6	5.2	4.9	4.9	5.6	6.7	7.6	7.9	8	7.5	6.2	5.4	4.9	4.6	4.5	4.1	3.1	2.4	2.2	4.8
14	1.8	1.3	1.3	1.2	0.5	0.1	0	0.1	0.7	1.3	1.7	2.3	3.1	3.6	3.9	3.7	2.7	1.7	1	0.8	1.1	1.5	1.9	2	1.6
15	2.5	2.5	2.6	2.8	2.5	2.1	1.9	2	3	4.4	5.6	6.6	6.7	5.5	4.3	3.5	2	0.4	-0.9	-1.9	-2.7	-3.2	-4	-4.6	1.8
16	-5.2	-5.6	-5.9	-6.1	-6.5	-7.4	-8.1	-7.8	-6.8	-6	-5.5	-4.6	-4.1	-3.7	-3.3	-3.2	-3.7	-4.7	-5.2	-5.4	-5.6	-5.8	-5.9	-6.4	-5.5
17	-6.7	-7.2	-7.5	-8	-8.1	-8.2	-8.3	-8.4	-6.7	-5.6	-4.2	-3	-3	-2.3	-1.7	-1.7	-2	-2.7	-2.9	-2.4	-1.8	-1.7	-1.9	-2.3	-4.5
18	-1.9	-1	-0.4	0.2	0.6	1.3	1.9	2.2	2.5	3.1	3.8	4.3	4.6	4.1	3.4	3.6	3.9	4	4.1	4.2	3.9	3.5	3	2.3	2.5
19	2.2	1.8	1.3	0.8	0.5	0.2	0	0.5	0.4	0.8	2.7	3.5	5.4	5.9	5.5	6	5.9	4.8	4.1	3.6	3.5	3.6	3.5	3.2	2.9
20	3	2.9	2.1	1.2	0.1	-0.6	-0.8	-1.2	-1.8	-1.7	-1.7	-1.5	-1.8	-2	-1.4	-0.8	-0.6	-0.6	-0.6	-0.6	-0.8	-1.2	-1.7	-2.3	-0.7
21	-3	-3.4	-3.8	-4.4	-4.7	-4.7	-5.7	-5.8	-4.4	-2.8	-1.5	-0.8	-0.2	0.5	1.2	1.4	1.2	0.1	-0.9	-1.4	-2	-2.3	-2.6	-2.7	-2.2
22	-3	-3	-3.1	-2.8	-2.5	-2.6	-2.5	-2.5	-1.3	0.9	2.6	4.5	6.2	7.4	7.8	7.9	7.9	6.4	5.5	5.1	4.3	3.5	3.1	2.2	
23	3.1	3	2.3	2	2.3	2.2	1.9	2	3.3	5.3	7.1	9.6	11.8	12.9	13.7	13.6	13.2	11.6	10.5	9.8	8.8	8.5	8.4	8.9	7.3
24	10.2	8.9	8.7	9.3	8.9	8.8	8.9	8.8	9.3	10.4	12.5	13	9.7	9.2	9	7.7	6.3	4.9	4.4	4.3	3.8	3.2	2.2	1.1	7.6
25	0.3	-0.3	-0.9	-1.6	-2	-2.3	-2.6	-2.6	-1.9	-1	-0.1	0.8	1.3	1.2	1.2	1.2	1.1	1	0.8	0.6	0.4	0.3	0.3	0.3	-0.2
26	0.5	0.5	0.6	0.7	0.9	0.9	0.8	1.1	1.6	2.4	3.7	4.6	5.3	5.6	5.6	5.1	3.9	3.1	2.6	2.4	2.5	2.6	2.5	2.5	2.6
27	2.3	2.4	2.6	2.7	3	3.1	3.4	3.6	3.3	3.5	3.8	4	4.2	4.6	4.4	4.3	4.5	4.3	4.1	3.9	4	3.8	4	4.4	3.7
28	4.6	4.7	5	5.5	5.8	6	6.6	8.1	10.7	12.8	15	17.6	18.9	19.9	19.9	19.5	18.7	18.3	17.8	13.3	12.6	12	11.7	10.8	12.3
29	9.8	8.9	8	7.4	6.7	5.7	4.9	3.6	3.3	4.5	5.9	6.7	7.1	7.7	7.4	6.8	5.5	3.9	3	2.5	2.2	1.8	1.5	1.4	5.3
30	1.2	0.8	0.3	0	-0.2	0.6	0.5	0.8	1.4	3.8	5.1	6.8	8.1	9.3	9.6	9.7	9.3	7.9	6.5	5.4	4.4	3.4	2.5	2	4.1
31	1.5	0.6	-0.7	-1.7	-2.2	-2.6	-2.9	-2.7	-1.3	0.1	1.5	2.7	3.8	4.5	4.7	4.9	4.9	3.9	2.7	2.1	1	1	1.5	1.4	1.2
Avg	2.9	2.7	2.6	2.5	2.4	2.3	2.2	2.3	3.1	4.2	5.4	6.3	6.7	7	7.1	7	6.6	5.8	5.2	4.5	4	3.7	3.4	3.1	4.3
S D	5	5	5.2	5.5	5.6	5.8	5.9	5.9	5.8	5.8	5.7	5.5	5.5	5.6	5.6	5.5	5.5	5.5	5.5	4.9	4.7	4.6	4.7	4.7	4.9
S/A	1.7	1.85	2.04	2.21	2.34	2.49	2.68	2.56	1.86	1.36	1.09	0.9	0.82	0.79	0.79	0.8	0.83	0.96	1.07	1.1	1.17	1.25	1.36	1.49	1.15
Min	-6.7	-7.2	-7.5	-8	-8.1	-8.2	-8.3	-8.4	-6.8	-6	-5.5	-4.6	-4.1	-3.7	-3.3	-3.2	-3.7	-4.7	-5.2	-5.4	-5.6	-5.8	-5.9	-6.4	-5.5
Max	14	13.9	14.2	15.8	16.8	17.8	18.3	18.6	19.1	20.2	21.2	18.2	18.9	19.9	19.9	19.5	18.7	18.3	17.8	14	13.9	14.2	14.1	13.8	15.7
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

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

January 2009

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	52.2	52.9	57.1	61.9	67.3	63.3	63.7	63.1	57.6	53.7	51.4	49	47.4	45.2	45.1	44.5	43.7	54.7	59.1	67.2	70.6	72.5	73.8	78.1	58.1	
2	82	81.8	80.2	86.4	91.3	96.3	99	100.8	100.3	99.1	97.6	97.7	102.6 ?	?	?	?	?	?	?	?	?	?	?	?	93.5 ?	
3	?	?	?	?	?	?	?	102.9 ?	97.8	94.6	89.5	77.2	73	68.5	64.1	61.8	66.5	78.4	84.2	88.9	93.2	94	96.4	99.3	84.1 ?	
4	101.2	103.7 ?	103.9 ?	103.1	104	103.4	104.1	104.7 ?	101.1	94.5	89.6	83.7	84.3	86.2	84	89.7	93.8	97.4	99.1	101.8	?	?	?	?	96.7 ?	
5	?	?	?	?	?	?	?	?	?	?	?	104.2 ?	102	99.2	97.3	95.6	96	99	101.6	102.7	104.4 ?	?	?	?	100.2 ?	
6	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	?	
7	?	?	?	100.7	100.9	102.3	101.2	99	96.7	91.4	89.3	87.8	77.2	76.7	77.3	78.5	80.9	75.6	70.3	83.5	65.9	59.6	58	63.6	82.7 ?	
8	65.9	67.6	63.6	68	68	71.3	77.4	79.3	77.6	75.3	72.6	64.9	65	65.7	65.2	61.8	61.7	66.3	64	69.1	60.6	57	60.2	63	67.1	
9	63.7	64.5	71.6	77.1	77.2	80.4	83.5	82.8	73.9	65.6	56.8	52.8	49.3	47.2	47.6	46.1	47.7	53.7	62.9	69.1	66.1	69.5	78.4	82.3	65.4	
10	90.1	93.9	95.2	95	95.1	97.4	99.6	97.9	91.8	85.9	79.6	78.8	74.9	70.9	71.9	71.6	77.9	87.6	92.3	94.9	98.3	99.8	101.9	102.6	89.4	
11	99.5	100.1	98.2	100.9	104.5	104.4 ?	?	?	?	104.3 ?	103.2	97.7	90.8	96.3	93.1	90.9	90.9	90.8	88.2	85.3	86.1	85.5	87.1	89.1	94.6 ?	
12	87.9	88.8	89.5	89.6	88.6	82.1	81.6	80.1	77.8	76.7	73.5	67.9	63.1	60.1	56.8	64.2	72.2	81.5	85.3	88.8	88.6	86	85.3	88.3	79.3	
13	91	93.6	91.4	89.1	90.4	94.1	94.5	96.2	97.8	99	100.9	102.6	104.2 ?	?	?	?	?	?	?	?	?	104.9 ?	104.5 ?	102.3	97.3 ?	
14	102	103	101.8	101.3	103.3	103.9	99.6	92.5	80.1	72.8	69.7	66	62.7	61.6	61.1	65	75.8	82.4	85.2	88.7	91.2	95.4	97.6	99.1	85.9	
15	95.9	94.5	95.5	95.8	95.5	96.3	96	94.4	87.8	79.2	70.2	62.1	62	68.6	68.3	67.8	72.7	71.2	68.3	61.2	58.9	56.2	55.4	53.9	76.2	
16	56.2	59.3	56.5	54.6	56.4	71.2	81.3	78.1	62.8	56.4	53.3	47.5	45.8	43.3	37.4	35.3	35.2	38.5	47.5	49.3	49.1	47.5	44.9	47.4	52.3	
17	51.8	55.3	57.1	60.3	66.8	73	76.1	79	75.3	74.4	67.5	55.2	51.4	48.3	52.7	56.9	54.4	63.3	77.8	83.3	84.2	83.7	86.1	89.3	67.6	
18	89.4	85.2	76.1	69.8	69.2	78	80.7	82.5	82.6	83.6	83	81.8	83.9	93.5	103.8	?	?	?	?	?	?	?	?	?	82.9 ?	
19	?	?	?	?	?	?	?	?	?	?	?	103.5 ?	98.9	98.1	98	97.6	98.8	101.8	103.7	104.5 ?	104.9 ?	104.7	104.5	105 ?	101.9 ?	
20	?	?	105 ?	100.3	100.3	100.8	94.7	92.6	90	76.3	79.3	79.7	83	90.2	78.6	68.2	65.4	65.2	65	64.2	64.8	68.1	71.3	71.6	80.7 ?	
21	72.9	73.4	74.3	77.9	79.4	79.2	85.9	85.5	78.4	68.3	61.8	59.3	57.6	56.4	54.6	53.2	54.8	62.2	68.7	72.9	80.1	81.2	82.2	83.7	71	
22	87.9	89.1	90.2	88.5	89.9	91.9	89.1	88.8	83.9	69.7	60.1	52.4	46.9	46.6	44	42.4	44	52	56.3	57.8	61.5	66.5	72.8	78.2	68.8	
23	78.4	78.9	88.6	93.7	88.7	89.7	91.2	90.6	85.2	75.5	69.7	63.4	59.9	59.1	57.8	58	59.5	65.3	68.5	74.7	87.3	92.9	95.1	95.1	77.8	
24	90.9	96.8	100	99.9	101.3	101.3	100.8	100.6	99.2	95.3	85	73.6	66.4	69.9	67.6	69.2	73.5	78.3	79.8	78.7	76.5	74.3	73.5	73	84.4	
25	70	72.3	71.3	70.8	69.4	68.7	69.9	72.6	76.8	79.6	81	80.9	81	81.9	82.3	82	82.4	83.6	83.1	80	80.1	81.3	78.9	79.2	77.5	
26	80.7	82.8	82.7	83.6	81.1	79	79	79.8	80.2	79.5	79.4	80	78.8	79.1	78.8	82.2	90.8	96	97.6	98.2	99.2	100	101.4	101.7	86.3	
27	102.5	102.9	102.9	103.3	103	102.9	102.7	103.3	?	?	?	104.5 ?	103.9	101.2	102	102.4	101.6	103	?	?	?	?	?	?	102.8 ?	
28	?	?	?	?	?	?	?	?	?	?	?	?	100.8	95.5	88.9	91.4	92.1	96.2	98	100.2	?	103.9 ?	102.8	103.6	88.7	96.8 ?
29	88.6	86.6	86.3	88.5	93	95.5	93.6	96	95.4	88.5	80.5	81.4	81.8	81.2	81.1	81.3	85.9	92.9	96.4	96.5	97.1	98.7	101.6	103.2	90.5	
30	104.1	?	?	?	?	?	?	?	?	?	103.5 ?	99.2	92.1	81.1	66	67.3	61	58.7	52.4	56.5	53.7	52.4	54.3	56.5	56.6	69.7 ?
31	55.7	60.1	68.4	74.5	77.5	77.9	79.2	80	74.7	69.7	59.9	49.5	41.2	36.7	36.2	36	36.4	42.5	48.5	50	60.4	65.5	74.5	80.2	59.8	
Avg	81.7	82	83.6	85.4	86.5	88.2	88.5	88.9	84.4	81.2	78.1	76.5	73.8	70.9	70.1	68.7	71.1	75.4	77.4	78.7	78.4	80.1	81.8	83	81.4 ?	
S D	16.9	16.1	15.8	14.8	14.3	13	11.2	10.9	11.7	13.7	15.5	18.4	19.1	18.9	19.5	19.1	20	19.1	17.2	16.9	16.9	17.7	17.7	16.7	13.7	
S/A	0.21	0.2	0.19	0.17	0.17	0.15	0.13	0.12	0.14	0.17	0.2	0.24	0.26	0.27	0.28	0.28	0.28	0.25	0.22	0.21	0.22	0.22	0.22	0.2	0.17	
Min	51.8	52.9	56.5	54.6	56.4	63.3	63.7	63.1	57.6	53.7	51.4	47.5	41.2	36.7	36.2	35.3	35.2	38.5	47.5	49.3	49.1	47.5	44.9	47.4	52.3	
Max	104.1	103.7	105	103.3	104.5	104.4	104.1	104.7	101.1	104.3	104.2	104.5	104.2	101.2	103.8	102.4	101.6	103	103.7	104.5	104.9	104.9	104.5	105	102.8	
n	288	273	272	298	299	297	288	290	288	300	321	345	349	336	336	324	324	324	312	285	272	294	297	290	7305	

Data Recovery: 0.0% missing; 0.0% untested; 18.2% failed QC -- 8928 total measurements.

Instrument: CSI HMP-35C Serial Number: P0520031 Calibration Factor: 0.10 %/mV Calibration Date: 01/1999

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

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

Prepared by: Afshin M. Andreas, NREL

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

January 2009

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	-1.5	-2.5	-3.3	-4.1	-4.8	-5.5	-5.6	-5.9	-3.8	-0.4	2.2	4.4	6.3	7.6	7.7	7.3	6.7	3.4	-0.7	-2.9	-3.9	-4	-3.8	-3.9	-0.5
2	-3.9	-4	-4.1	-4	-3.8	-2.9	-1.8	-0.9	0.8	3.6	5.6	7	7.1	6.8	6.6	5.4	4.4	4.9	5.6	5.6	5.2	4.7	4.4	4	2.3
3	3.6	3.1	2.9	2.6	2.3	2.1	1.8	1.8	3.6	7.5	10.6	12.9	14.3	15.4	15.4	15.1	13.9	10.5	7.1	5.4	4.4	3.3	2.9	2.4	6.9
4	1.8	1.6	1.4	1.6	1.7	1.7	1.8	2.7	3.9	6.3	9.5	12.5	14.1	14.4	14.5	14.2	13.2	12.3	11.7	11.4	11.1	11.1	11.4	11.8	8.2
5	12	12.1	12.2	12.2	12.2	12.4	12.5	12.6	12.8	13.4	14.3	15.5	17	18.5	19.6	19.4	18.3	16.7	15.5	14.6	13.5	12.3	11.3	10.6	14.2
6	10.1	9.5	8.9	8.5	8.3	8	7.5	7.3	7.4	7.6	7.9	8.5	9.1	9.5	9.9	10.1	10	9.9	9.9	9.9	9.8	9.2	8.7	8.5	8.9
7	9.2	11.2	12.3	13.5	14.6	15.9	17.1	17.8	18.6	20.5	22.5	21.7	19.7	18.8	17.8	17.8	17.9	17.6	17.4	15.7	12.9	11.2	9.8	8.7	15.8
8	7.9	7.4	7	6.8	6.6	6.3	5.7	5.2	6.5	8.9	9.4	10.4	11.1	11.2	11.5	11.6	11.8	10.7	9.6	8.2	6.9	5.7	4.2	2.9	8.1
9	1.8	0.9	0.1	-0.9	-1.6	-2.1	-2.7	-3.1	-1.1	3	6.7	9.4	10.7	11.4	10.9	10.4	9.9	7.8	4.6	2.5	1.4	1.4	0.6	-0.1	3.4
10	-0.4	-0.3	0.1	0.4	0.7	1.3	1.1	1.1	3.5	8.2	12.2	14.9	15.5	17	18.1	18.5	18.1	16.3	14.5	14	13.9	14	14.1	13.9	9.6
11	13.8	13.8	13.5	13.4	13.4	13.5	13.6	13.7	13.7	14	14.4	15	15.3	12.9	11.4	10.6	9.6	8.6	7.8	7.1	6.5	5.9	5.5	5.1	11.3
12	4.6	4.1	3.7	3.2	2.9	2.5	2.4	2.2	2.2	3.9	7.5	10.2	11.9	12.3	12.1	11.7	9.8	6.7	3.8	2	1.2	1	1.2	1.2	5.2
13	1	0.7	0.8	1.8	3.2	3.9	4.5	4.8	4.8	5.2	6.2	7.2	8.2	8.7	8.5	8	6.9	6.1	5.5	5.2	4.9	3.9	2.6	1.8	4.8
14	1.3	0.7	0.3	0.3	-0.2	-0.7	-1.3	-1.5	0.1	3.6	6.2	8.1	9.9	10.9	10.4	9.8	7.9	4.8	1.9	0.4	-0.1	-0.2	-0.1	0	3
15	0.3	0.9	1.1	1.3	1.5	1.4	1.1	1	2.6	5.7	8.4	11	12.5	12.6	10.2	8	6.2	3.5	0.7	-1.1	-2.4	-3.4	-4.2	-4.9	3.1
16	-5.7	-6.6	-7.1	-7.4	-7.7	-8.4	-9.6	-10.2	-7.8	-4.2	-1.2	0.9	2.4	2.9	2.4	1.9	1	-1.6	-4.3	-5.1	-5.5	-6.1	-6.4	-6.7	-4.2
17	-7.3	-8.2	-9.4	-10.1	-10.4	-10.2	-10.1	-10.1	-7.9	-3.9	-0.3	3.5	5.4	5.1	4.4	3.8	2.7	0.6	-1.9	-2.7	-2.5	-2.4	-2.4	-2.9	-3.2
18	-3.1	-2.3	-1.3	-0.5	0.2	0.7	1.4	1.9	2.4	3	3.9	4.7	5.3	5.2	4.5	4.1	4.1	4.2	4.3	4.4	4.4	4	3.2	2.5	2.5
19	2.1	2.2	2.1	1.8	1.5	1.2	0.9	0.8	1.1	1.6	5.6	8.8	10	10.5	9.3	8.7	8	6.5	4.9	3.8	3.3	3.4	3.6	3.5	4.4
20	3.4	3.4	3.1	2.5	1.6	0.7	0	-0.3	-0.7	-0.9	-0.7	-0.5	-0.3	-0.4	-0.4	-0.1	0.1	-0.1	-0.3	-0.5	-0.8	-1.5	-2.6	-3.3	0.1
21	-3.6	-4.2	-4.7	-5.2	-5.9	-6.2	-6.6	-7.2	-5.4	-1.2	2.5	5.3	6.5	6.3	5.7	5.1	4.4	2.5	0	-1.5	-2.4	-3	-3.5	-3.8	-1.1
22	-4	-4.2	-4.4	-4.5	-4.2	-4	-3.9	-3.7	-1.8	1.8	5.4	8.1	9.9	11	11.3	10.9	10.2	9	6.3	4.8	3.9	2.8	2	1.7	2.7
23	1.4	1.5	1.1	0.6	0.3	0.4	0.3	0.4	2.5	6.2	9.5	12.4	15.3	16.9	17.1	16.7	15.7	14.3	11.5	10.1	9	8.3	8	7.9	7.8
24	8.7	9.2	8.7	8.7	8.9	8.8	8.9	8.8	9	9.9	12.8	15.7	14.8	12.9	12.3	11.5	9.8	7.6	5.7	5.1	4.6	4.1	3.2	1.8	8.8
25	0.6	-0.5	-1.2	-1.9	-2.6	-2.9	-3.2	-3.4	-2.7	-1.4	-0.2	1.2	2.6	3.3	3	2.6	2.4	2.1	1.8	1.5	1.3	0.9	0.8	0.8	0.2
26	0.8	0.8	0.9	1	1.1	1.2	1.1	1.2	1.6	2.4	3.7	5.2	6.6	8.3	8.6	8.3	7.2	5.6	4.3	3.6	3.3	3.2	3	2.8	3.6
27	2.5	2.5	2.7	3	3.3	3.5	3.7	3.9	3.9	4	4.4	4.7	5	5.6	5.9	5.7	5.5	5.1	4.7	4.4	4.3	4.3	4.2	4.4	4.2
28	4.7	5	5.3	5.7	6	6.3	6.6	7.2	8.6	11	13.4	16.5	18.4	19.9	20.9	20.9	20.2	19.4	18.7	16.8	14.5	13	12.1	11.5	12.6
29	10.6	9.8	8.8	7.9	7.1	5.7	4.7	3.9	3.5	5.3	8.8	10.8	11.9	13.3	13.7	12.5	10.4	7.3	4.6	3	2.2	1.4	0.4	-0.1	7
30	-0.1	-0.3	-1	-1.5	-1.7	-1.5	-1.3	-1.1	-0.2	2.4	6	10.2	12.3	14.2	14.3	13.6	13.1	11	7.9	5.8	4.2	3	1.9	1.2	4.7
31	0.7	-0.1	-1.4	-2.7	-3.6	-4.1	-4.4	-4.5	-1.8	2	5.2	7.6	9	9.2	8.9	8.6	8.3	6.8	3.6	1.6	0.2	-0.9	-1.1	-0.9	1.9
Avg	2.4	2.2	1.9	1.7	1.6	1.6	1.5	1.5	2.6	4.8	7.2	9.2	10.3	10.7	10.5	10.1	9.3	7.7	6	4.9	4.2	3.6	3.1	2.7	5
S/D	5.3	5.5	5.6	5.8	6	6.1	6.3	6.4	5.9	5.3	5.2	5.1	4.9	5	5.2	5.3	5.3	5.6	5.6	5.6	5.4	5.2	5.2	5.2	4.8
S/A	2.23	2.52	2.93	3.32	3.64	3.87	4.23	4.3	2.29	1.11	0.72	0.55	0.48	0.46	0.49	0.52	0.56	0.68	0.92	1.13	1.29	1.46	1.68	1.94	0.95
Min	-7.3	-8.2	-9.4	-10.1	-10.4	-10.2	-10.1	-10.2	-7.9	-4.2	-1.2	-0.5	-0.3	-0.4	-0.4	-0.1	0.1	-1.6	-4.3	-5.1	-5.5	-6.1	-6.4	-6.7	-4.2
Max	13.8	13.8	13.5	13.5	14.6	15.9	17.1	17.8	18.6	20.5	22.5	21.7	19.7	19.9	20.9	20.9	20.2	19.4	18.7	16.8	14.5	14	14.1	13.9	15.8
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% untested; 0.0% failed QC -- 8928 total measurements.

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

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

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

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

January 2009

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	3.7	3.1	2.6	2.1	1.7	2.1	1.7	2.4	3.3	4.7	4.1	3.1	2.5	2.1	2.2	1.2	0.3	0.3	0.3	0.2	0.5	1	0.6	1.2	2
2	1	0.8	0.7	0.6	1.5	1.1	0.7	1.6	1.5	2.3	2.7	2.6	1.3	2	2.9	2.9	4.2	4.2	2.9	3.5	3.2	3	1.8	2.1	2.1
3	2.5	1.8	1.8	1.8	1.3	1	1.3	2	2.1	3	3.4	3.8	2.8	2.1	1.5	1.5	1.5	1.6	1.7	2	0.9	1.2	0.3	0.1	1.8
4	0.4	0.5	1	0.7	0.8	0.3	0.2	0.6	1	1.4	0.5	0.8	0.9	2.2	2.5	2.2	0.9	0.6	0.8	1.2	1.6	2.7	2.4	3	1.2
5	3.1	3	2.9	3.4	3.7	3.5	3.5	3	3.9	3.6	3.1	3.6	3.9	3.9	2	2	2	1.7	1.6	1.1	2.1	2.2	2.8	3.1	2.9
6	3.1	3.6	3.2	3.2	3.7	4	3.6	3.5	3.3	2.9	2.6	1.3	1	1.1	0.6	1.1	0.8	0.1	0.1	0	1	0.2	0.6	1.9	1.9
7	2.1	2.7	3.8	5	5.6	5.6	5.9	6.1	7.2	7.5	9	8.6	6.5	5.6	6.5	7.3	5.9	7.5	8.8	10.9	10.9	8.8	6.9	4.7	6.6
8	4.7	4.8	6.2	5.5	5.8	4.8	4.3	3.8	4.5	5.2	5.2	6.4	6.3	6.9	6.3	4.6	2.9	2.2	3.7	2.2	3.1	2.6	2.5	2.3	4.4
9	2.4	2.3	1.7	2	2	1.8	1.8	1.7	2	2.8	2.4	2.7	2.5	3.2	3.3	2.8	2	0.9	0.2	0.1	1	0.5	0	0.2	1.8
10	0.4	0.6	0.8	0.7	1.3	0.8	0.6	1.3	1.4	2.2	2.8	3.6	3.5	4.3	4.9	5	4.7	4	3.7	4.3	3.9	4.6	4.5	3.9	2.8
11	5.3	4.9	5.1	4.7	5.6	5.5	4.9	4.3	3.4	3.2	2	1.8	4	3.8	3.5	3.4	2.8	2.9	3.9	3.8	3.3	3.6	3.7	3.1	3.9
12	3.7	4.1	3.5	3.1	2.9	3	3.7	2.7	3	2.3	2.6	2.4	2.3	2.1	1.8	2.6	2.6	2.5	1.6	1.3	1.4	2.6	2.1	1.4	2.6
13	0.9	1.6	2.1	2.6	2.6	2.8	2.2	1.8	1.3	1.5	1	0.7	1.3	1.6	1.8	3	2.4	2.4	1.7	1.5	1.4	2.1	2.7	3.1	1.9
14	2.1	2.1	2.1	1.1	1	1.1	1.5	1.1	1.8	2.8	3.1	2.3	1.4	1.6	1.3	2.1	2.9	2	1.8	2.3	1.7	2	1.4	1.9	1.9
15	3	2.8	2.6	3.2	3.2	2.8	2.5	2.9	3	4.6	3.6	3.4	3.1	4	3.9	3.7	3.6	4	3.3	4.4	3.5	3.8	4.1	2.7	3.4
16	1.9	1.8	2.2	2.2	1.7	0.8	0.7	1.2	2.7	3.1	3.2	2.4	2.3	2.6	2	2	2.2	1.9	2.4	2.4	2.3	1.5	1.7	1.7	2
17	1.2	0.8	1.2	0.9	1.9	1.9	1.9	1.9	2.3	2.9	1.7	1.3	2.1	2.2	1.8	2.2	1.9	2	1.6	1.4	1.4	1.4	1.4	1.1	1.7
18	1	1.8	2	1.8	2.4	2.9	2.8	2.9	2.8	2.6	3.1	3.1	3.7	2.8	1.5	1.8	1.5	1.3	1.2	2.8	2.4	1.8	2.2	1.7	2.2
19	2.1	1.7	1.1	1	0.9	1	1	0.9	1.6	0.5	1.1	2.5	2.7	3.1	2.1	1.2	1.1	0.8	0.4	0.1	1.4	1.2	0.7	2	1.3
20	2.6	2.5	4	4.3	4.5	5.3	5	5.9	5.5	6.9	7.2	6.8	6.6	5.5	5.2	5.3	4.2	3.5	2.2	2.7	2.9	1.7	2.1	2.3	4.4
21	2.2	2.5	2.4	1.8	1.8	1.7	1.5	1.5	1.3	2	2	2.2	3.3	3.4	3.9	4.4	3.1	2.6	2.3	2.4	2.5	2.3	2.2	2.3	2.4
22	2.4	2	1.7	2.3	2.5	2.4	2.5	2.4	3.2	3.3	3.6	4.2	4.7	5.3	5.6	5	4.2	2.3	2.3	2	1.3	1.2	1.8	1.8	2.9
23	1.9	1.4	1.4	1.3	1.6	1.5	1.7	2.4	2.8	3.8	3.9	3.6	3.4	4.5	4.9	4.6	3.9	3.1	3.4	3.5	3.4	3.1	3.6	4.3	3
24	5.1	3.1	3.4	3.9	3	2.9	2.8	2.2	2.6	2.5	2.3	3	3.6	3	3.4	3.9	4	3.7	3.8	3.7	4.3	4.7	4.3	3.8	3.5
25	3.3	3.2	3.1	2.6	3.1	3.4	3	2.9	2.8	2	1.8	2.9	2.7	2.5	2.4	2.6	2.6	2.1	2.7	2.9	2.4	2.4	2.5	1.9	2.7
26	1.2	2.1	2.6	2.3	1.9	2.3	2.1	2.3	2	1.8	2.6	2.6	2.7	2.6	2.6	2.7	2.7	2.8	2.9	2.4	1.9	1.7	0.8	0.6	2.2
27	1.3	1	1.5	1.9	2.4	2.4	2.2	2.2	1.9	1.7	2.7	2.3	2.4	2.8	3	3.2	2.5	1.7	1.9	2.5	2.1	2.1	1.4	0.6	2.1
28	0.2	0.1	0	0	0.1	0.4	0.6	1.7	2.9	3.8	4.6	6	7	7.8	7.7	7.3	6.9	7.1	6.5	5.2	3.7	2.7	1.4	3.1	3.6
29	1.7	2.3	1.5	0.8	0.3	1	1.5	2.2	2.3	2.6	2.9	2.7	2.7	2.6	3.1	2.5	3	2.7	2.2	2.1	1.6	0.8	0.1	0.1	1.9
30	0	0	0	0	0	0.2	0.1	0.4	0.4	0.8	1.9	2.8	2.4	3.1	3.5	3.4	3.5	3.2	2.8	2.9	2.7	2.5	2.5	2.5	1.7
31	2.4	1.5	1.2	1.1	1.5	1.7	1.6	1.6	2	2.9	3.4	3.6	4.3	4.6	4.3	4	3.7	2.3	1.5	1.1	0.7	1.2	1.3	1.3	2.3
Avg	2.2	2.1	2.2	2.2	2.3	2.3	2.2	2.4	2.6	3	3.1	3.2	3.2	3.4	3.3	3.3	2.9	2.6	2.5	2.5	2.5	2.4	2.1	2.1	2.6
SD	1.4	1.2	1.4	1.4	1.5	1.5	1.4	1.3	1.3	1.5	1.7	1.7	1.6	1.6	1.7	1.6	1.4	1.7	1.8	2	1.9	1.6	1.5	1.2	1.1
S/A	0.61	0.58	0.62	0.66	0.65	0.66	0.64	0.56	0.51	0.51	0.55	0.54	0.51	0.46	0.52	0.49	0.49	0.64	0.73	0.8	0.75	0.68	0.69	0.56	0.43
Min	0	0	0	0	0	0.2	0.1	0.4	0.4	0.5	0.5	0.7	0.9	1.1	0.6	1.1	0.3	0.1	0.1	0	0.5	0.2	0	0.1	1.2
Max	5.3	4.9	6.2	5.5	5.8	5.6	5.9	6.1	7.2	7.5	9	8.6	7	7.8	7.7	7.3	6.9	7.5	8.8	10.9	10.9	8.8	6.9	4.7	6.6
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

January 2009

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	320	315	307	298	292	307	293	301	316	329	334	344	1	356	8	340	337	48	50	80	132	131	137	153	326
2	164	162	163	164	167	185	176	163	162	167	180	221	228	256	291	281	236	243	260	263	253	246	252	240	231
3	258	254	264	257	271	271	288	295	306	3	34	46	56	83	93	90	101	106	86	76	62	58	89	23	27
4	12	53	50	34	55	64	40	46	71	100	64	207	171	92	194	195	182	229	219	211	236	241	250	243	199
5	242	245	248	242	243	239	241	249	230	241	239	239	232	227	259	240	197	228	285	27	37	38	42	52	244
6	55	44	40	35	42	51	53	55	51	60	68	75	13	23	22	349	0	17	105	313	345	350	112	124	48
7	175	180	193	186	186	183	184	184	190	189	200	230	224	190	194	201	211	217	216	227	254	253	253	243	211
8	235	224	233	226	238	227	213	207	200	208	210	217	223	228	234	254	255	269	263	282	296	299	294	292	235
9	297	298	273	271	291	286	266	288	294	298	287	275	278	265	241	241	239	214	203	196	212	205	181	150	271
10	171	160	170	159	156	152	175	164	164	173	171	179	180	192	180	179	186	178	178	180	179	183	186	188	179
11	194	198	204	205	203	216	223	231	245	262	271	288	25	41	50	44	48	51	40	26	19	11	3	356	264
12	348	343	353	347	333	334	343	346	339	343	7	17	4	13	36	98	87	84	113	109	113	100	95	109	16
13	87	69	78	74	82	85	74	46	26	34	39	336	335	343	328	306	316	317	310	303	291	276	263	266	354
14	274	267	274	287	272	284	329	343	334	342	358	19	4	239	211	137	134	122	120	124	150	164	179	183	248
15	188	195	193	199	207	208	211	220	241	260	287	319	344	10	351	358	21	357	353	348	352	346	351	333	312
16	315	311	314	315	312	285	282	300	300	315	326	318	305	290	312	309	306	323	355	341	331	314	318	320	315
17	332	341	347	342	355	357	347	347	358	15	41	86	108	102	137	172	134	117	131	128	162	158	158	161	74
18	186	187	188	181	192	194	190	189	182	172	185	188	195	210	184	183	198	215	237	253	261	265	265	254	203
19	252	255	252	245	232	194	176	181	166	181	215	218	213	251	249	250	274	311	5	15	346	1	7	28	243
20	34	12	20	9	14	7	359	356	359	357	352	346	349	345	348	342	340	333	311	309	321	311	310	308	350
21	303	303	302	292	295	296	286	291	293	308	311	270	253	244	247	251	253	234	230	225	221	222	225	221	261
22	216	220	213	210	210	217	224	218	223	233	240	215	220	212	213	213	221	216	211	223	203	196	195	192	216
23	208	197	172	185	190	185	192	194	197	218	215	208	184	195	200	220	215	205	201	200	203	204	203	207	203
24	213	199	200	217	217	219	223	235	232	266	304	20	48	45	43	45	45	46	44	30	31	29	30	21	24
25	16	21	11	6	357	1	8	353	15	353	18	37	26	14	22	15	28	24	14	359	6	9	352	360	11
26	359	353	355	7	7	352	341	346	347	355	354	14	28	15	43	47	41	41	9	18	18	5	25	345	11
27	345	350	3	17	20	35	35	4	30	36	19	43	42	50	52	58	60	44	36	32	33	48	60	46	35
28	18	20	9	161	116	139	144	153	168	183	178	187	186	183	184	185	183	189	199	267	266	258	263	291	196
29	294	301	303	306	296	315	16	33	27	44	55	53	51	65	61	65	60	60	45	39	42	44	10	19	37
30	0	0	0	0	134	145	237	212	257	255	264	251	239	242	249	252	258	269	290	295	295	299	295	303	269
31	315	298	288	279	281	286	276	273	281	291	293	285	274	271	266	268	269	262	229	211	171	167	185	186	271
Avg	266	269	268	257	251	256	259	266	263	281	283	265	259	241	235	235	224	231	250	280	289	282	279	265	272
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

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

January 2009

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	7.2	6.5	5.4	4.1	3.8	4.6	3.7	5.4	6.3	8.3	7.4	5.3	4.8	4.3	4.2	2.9	1.3	0.6	0.6	0.5	1.1	1.6	1.2	2	3.9
2	1.9	1.6	1.4	1.5	2.4	2.1	1.6	2.9	2.7	3.9	4.6	4	2.3	3.4	6	5.8	6.8	6.6	4.7	5.7	5.2	4.8	3.4	3.5	3.7
3	4.1	3.2	3.1	3.1	2.4	2.1	2.4	4	4.6	5.4	5.3	6	4.4	3.4	2.8	2.5	2.4	2.6	2.8	3.2	1.6	2	0.7	0.4	3.1
4	0.8	0.9	1.6	1.7	1.5	0.8	0.5	1.1	1.8	2.4	1.2	1.6	2	3.5	4.2	3.6	2	1.3	1.4	2.1	2.7	4.2	4.1	4.7	2.2
5	4.9	5	4.8	5.4	6.1	5.6	5.3	4.8	5.9	5.5	4.9	5.4	5.9	5.9	3.9	3.2	3.3	2.7	2.5	1.9	3.4	3.8	4.6	4.8	4.6
6	5.1	5.7	5.3	5.6	6	6.6	6.1	5.7	5.7	5	4.3	3.1	2.2	2.4	1.6	2.3	2	0.7	0.5	0.1	1.8	0.8	1.3	3.1	3.5
7	3.7	4.6	6.4	8.2	9.4	9	9.4	10.4	11.9	12.3	14.8	13.6	9.7	9.8	9.9	11.4	8.8	11	12.9	17.4	17.5	14.6	11.2	8	10.7
8	7.4	7.4	9.6	8.4	9.6	7.1	6.6	5.6	7.1	8	7.9	10.5	10.6	10.3	10	7.5	4.6	4	7	4.3	6.1	5.3	5.3	5	7.3
9	5.1	4.8	3.1	3.9	3.8	3.3	3.2	3.4	4.3	5.6	5.1	5.3	4.9	5.7	5.4	4.4	3.3	1.5	0.7	0.6	1.5	1	0.4	0.6	3.4
10	1	1.2	1.6	1.3	2.1	1.6	1.4	2.3	2.5	3.7	4.6	5.8	5.9	7.4	8.2	8.4	8	6.5	6.2	7.1	6.5	7.5	7.3	6.2	4.8
11	8.4	7.6	8.2	7.5	8.3	8.1	7.5	6.8	5.4	5.6	4.6	4.6	6.9	6.1	5.9	5.7	4.7	4.8	6.3	6.6	5.6	6	6.3	5.5	6.4
12	6.3	6.9	5.9	5.5	5.4	5.1	6.2	4.8	5.3	4	4.5	4.4	4.4	4.2	3.5	4.5	4.3	4.2	2.7	2	2.1	3.8	3.3	2.4	4.4
13	1.5	2.4	3.3	4.1	4.5	4.7	3.6	2.8	2.1	2.3	1.7	1.6	2.3	2.8	3.3	5.8	4.5	4.5	4.1	3.7	3.4	3.9	4.6	5.5	3.5
14	4.1	3.6	4.1	2.9	2.3	2.7	3	2.6	3.7	5	5.2	4.3	3	3.1	2.9	3.8	5	3.1	3	3.6	3.1	3.4	2.7	3.1	3.5
15	4.7	4.2	4.3	5.1	4.7	4	3.5	4.3	5.2	7.4	7.2	6.5	5.6	6.8	6.3	6.1	6.1	6.8	6	7	5.9	6.4	6.9	5	5.7
16	3.9	3.8	4.3	4.4	3.3	1.8	1.6	2.8	5.6	6.2	6.1	5.2	4.9	5.3	4.3	4.7	4.4	4	4.3	4.2	4.3	3.3	3.9	3.5	4.2
17	2.6	1.7	2.2	1.9	3.4	3.4	3.3	3.2	4.1	4.9	3.5	2.8	3.7	4.1	3.8	3.7	3.3	3.2	2.8	2.5	2.4	2.5	2.5	2	3.1
18	1.9	3.1	3.4	3.1	4.2	4.7	4.7	4.8	4.9	4.6	5.3	5.8	5.9	4.4	2.6	3.2	2.8	2.2	2.2	5.1	4.6	3.7	4.1	3.1	3.9
19	3.9	3.3	2.4	2	1.9	2.3	2.4	2.3	3.1	1.5	2.5	4.2	4.4	4.9	3.6	2.6	2.8	2.2	1.3	0.6	2.6	2.7	1.6	3.9	2.7
20	4.5	4.5	7.5	7.8	8.1	9.3	8.9	10	9.5	11.3	12.5	11.5	11	9.5	9.1	8.8	7.2	6	4.8	5.6	5.9	3.6	4.6	5	7.8
21	4.8	5.3	5.2	3.7	3.7	3.8	2.9	3.1	3.1	4.2	4	4.4	5.9	5.7	6.7	7	5.2	4.1	3.6	3.5	3.7	3.4	3.3	3.2	4.3
22	3.4	3	2.5	3.2	3.6	3.5	3.5	3.5	4.8	5.2	5.7	6.2	7.2	8	8.2	7.9	6.6	3.4	3.1	2.8	2.2	1.9	2.9	2.8	4.4
23	2.7	2.3	2.4	2.2	2.8	2.8	3	3.5	4.4	5.4	5.6	5.5	5.8	7.3	7.5	6.6	5.8	4.6	4.9	5.2	5	4.4	5.1	6.4	4.6
24	7.6	4.8	5.1	5.9	4.5	4.3	4.3	3.3	3.8	4.5	4.6	4.9	5.6	4.8	5.5	6.3	6.6	6	6.1	6.3	7.1	8.1	7.1	6.9	5.6
25	5.8	5.6	5.6	4.4	5.7	5.8	5	4.8	4.8	3.6	3.2	4.8	4.6	4	4.1	4.3	4.2	3.6	4.5	4.8	4.3	4.2	4.2	3.4	4.6
26	2.3	3.4	4.4	3.8	3.2	3.7	3.4	3.9	3.3	3.2	4.3	4.4	4.5	4.2	4.3	4.6	4.4	4.4	4.7	4	3.4	3.1	1.8	1.3	3.7
27	2.3	1.9	2.9	3.2	4.1	3.8	3.7	3.7	3.3	3	4.8	4.1	4	4.7	4.9	5.2	4.3	3	3.3	4.4	3.9	3.8	2.8	1.6	3.6
28	0.9	0.5	0	0.1	0.8	0.9	1.6	3.4	5.1	6.5	7.8	9.7	12.3	12.5	12.2	12.4	11.2	11.5	10.7	9.7	6.5	4.7	2.9	6.1	6.3
29	4.1	4.7	3.5	2	1	2	2.5	3.7	3.8	4.3	4.6	4.4	4.4	4.4	4.7	4.1	4.8	4.7	3.6	3.4	2.7	1.6	0.5	0.4	3.3
30	0	0	0	0	0.1	0.4	0.4	0.6	0.9	1.7	3.5	4.5	4.4	5.5	5.8	5.6	6.2	5.7	5.4	5.7	5.5	5.2	5.1	5.1	3.2
31	4.7	2.7	2.3	2.3	3	3.3	3.1	3.1	4.1	6.4	7.2	7.1	7.5	8.2	7.8	7.6	6.6	3.9	2.2	1.9	1.4	2.2	2.5	2.1	4.3
Avg	3.9	3.8	3.9	3.8	4.1	4	3.8	4.1	4.6	5.2	5.4	5.5	5.5	5.7	5.6	5.6	4.9	4.3	4.2	4.4	4.3	4.1	3.8	3.8	4.5
S D	2.1	2	2.2	2.2	2.4	2.3	2.2	2.1	2.2	2.4	2.7	2.6	2.5	2.4	2.5	2.5	2.2	2.5	2.7	3.3	3	2.6	2.3	2	1.7
S/A	0.54	0.53	0.56	0.58	0.59	0.58	0.58	0.51	0.47	0.47	0.5	0.48	0.46	0.42	0.45	0.44	0.44	0.58	0.65	0.75	0.7	0.64	0.61	0.53	0.38
Min	0	0	0	0	0.1	0.4	0.4	0.6	0.9	1.5	1.2	1.6	2	2.4	1.6	2.3	1.3	0.6	0.5	0.1	1.1	0.8	0.4	0.4	2.2
Max	8.4	7.6	9.6	8.4	9.6	9.3	9.4	10.4	11.9	12.3	14.8	13.6	12.3	12.5	12.2	12.4	11.2	11.5	12.9	17.4	17.5	14.6	11.2	8	10.7
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

Instrument: 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

January 2009

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	1021	1021	1022	1023	1023	1024	1025	1026	1026	1027	1027	1026	1025	1025	1025	1026	1026	1026	1026	1026	1025	1025	1024	1024	1025	
2	1023	1022	1022	1021	1020	1020	1019	1019	1018	1018	1016	1015	1013	1012	1012	1012	1012	1011	1012	1012	1012	1012	1012	1012	1013	1016
3	1013	1013	1013	1014	1014	1014	1015	1016	1017	1018	1018	1018	1017	1017	1017	1017	1017	1018	1018	1018	1019	1019	1019	1019	1017	
4	1019	1019	1019	1019	1019	1019	1019	1020	1020	1020	1020	1020	1019	1017	1017	1017	1017	1017	1018	1018	1018	1017	1017	1016	1018	
5	1015	1015	1015	1015	1015	1014	1014	1015	1014	1015	1015	1014	1014	1013	1013	1012	1012	1012	1013	1013	1014	1014	1014	1013	1014	
6	1013	1012	1013	1013	1012	1012	1012	1012	1012	1012	1011	1010	1008	1007	1007	1007	1007	1007	1007	1007	1007	1007	1006	1004	1009	
7	1002	1002	1001	1000	998	997	996	996	995	995	994	994	993	991	990	989	990	990	990	992	994	997	999	1000	995	
8	1000	1000	1001	1002	1003	1004	1005	1005	1004	1004	1004	1002	1002	1001	1001	1001	1002	1003	1004	1005	1006	1007	1008	1009	1003	
9	1010	1011	1013	1014	1015	1016	1017	1019	1020	1021	1021	1021	1020	1019	1019	1020	1020	1021	1022	1022	1023	1023	1023	1023	1019	
10	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1022	1020	1018	1017	1016	1015	1015	1014	1014	1013	1013	1012	1012	1019	
11	1010	1010	1010	1009	1008	1009	1009	1010	1010	1011	1011	1011	1011	1011	1011	1012	1012	1012	1013	1013	1013	1013	1013	1014	1011	
12	1014	1015	1015	1016	1017	1018	1019	1020	1021	1023	1024	1023	1023	1023	1022	1023	1023	1023	1023	1024	1025	1025	1024	1025	1021	
13	1025	1023	1023	1022	1021	1020	1019	1018	1017	1017	1015	1014	1012	1010	1009	1009	1008	1008	1007	1008	1007	1008	1009	1009	1014	
14	1010	1011	1012	1013	1014	1016	1017	1018	1020	1020	1021	1020	1020	1020	1020	1019	1020	1020	1020	1020	1019	1019	1019	1019	1018	
15	1018	1018	1018	1017	1017	1017	1017	1018	1019	1020	1020	1020	1020	1020	1021	1022	1023	1024	1026	1027	1028	1029	1029	1030	1022	
16	1030	1030	1031	1031	1032	1032	1033	1034	1035	1035	1036	1035	1034	1033	1033	1033	1033	1033	1034	1034	1034	1035	1035	1035	1033	
17	1035	1035	1035	1034	1034	1034	1034	1035	1035	1035	1035	1034	1032	1030	1029	1029	1028	1027	1027	1026	1026	1025	1024	1023	1031	
18	1023	1022	1021	1020	1019	1018	1018	1017	1017	1016	1015	1013	1012	1010	1009	1008	1008	1008	1007	1007	1008	1007	1007	1006	1013	
19	1006	1006	1006	1005	1005	1005	1005	1004	1004	1004	1004	1003	1002	1001	1001	1000	1001	1001	1001	1001	1002	1002	1001	1001	1003	
20	1001	1001	1001	1001	1000	999	1001	1001	1002	1002	1002	1001	1001	1001	1001	1002	1003	1004	1006	1007	1008	1009	1010	1011	1003	
21	1011	1011	1012	1012	1013	1014	1014	1016	1017	1017	1017	1017	1016	1015	1016	1016	1016	1017	1017	1018	1018	1018	1019	1018	1016	
22	1018	1018	1019	1019	1019	1019	1019	1020	1020	1020	1020	1019	1018	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018	
23	1018	1018	1018	1018	1017	1017	1018	1018	1018	1018	1018	1016	1015	1014	1013	1013	1013	1013	1012	1012	1012	1012	1012	1012	1015	
24	1011	1011	1011	1011	1011	1011	1012	1013	1014	1014	1015	1015	1015	1016	1016	1016	1017	1018	1019	1020	1021	1022	1023	1023	1016	
25	1023	1024	1024	1024	1024	1024	1025	1025	1026	1026	1026	1025	1024	1024	1023	1023	1023	1024	1024	1024	1024	1024	1024	1024	1024	
26	1024	1025	1025	1025	1024	1024	1025	1026	1027	1027	1027	1027	1026	1026	1026	1026	1026	1027	1027	1027	1028	1028	1027	1027	1026	
27	1027	1027	1026	1026	1026	1026	1027	1028	1028	1029	1029	1029	1027	1026	1026	1025	1025	1025	1025	1025	1024	1024	1023	1022	1026	
28	1021	1020	1019	1019	1018	1017	1016	1016	1015	1014	1013	1011	1008	1006	1005	1005	1005	1005	1005	1007	1008	1009	1009	1010	1012	
29	1010	1011	1011	1012	1012	1013	1014	1014	1015	1015	1015	1014	1013	1013	1013	1013	1013	1014	1014	1014	1015	1015	1015	1014	1013	
30	1014	1014	1014	1013	1013	1013	1013	1014	1014	1014	1014	1013	1012	1010	1010	1010	1010	1011	1011	1012	1012	1013	1014	1014	1013	
31	1014	1014	1014	1014	1015	1015	1016	1017	1018	1019	1019	1018	1018	1018	1018	1018	1019	1020	1020	1020	1020	1020	1020	1020	1018	
Avg	1016	1016	1016	1016	1016	1016	1017	1017	1018	1018	1018	1017	1016	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1016	1016	
S/D	8	8	8	8	8	8	8	8	8	9	9	9	9	9	9	9	9	9	9	9	9	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	1000	1000	1001	1000	998	997	996	996	995	995	994	994	993	991	990	989	990	990	990	992	994	997	999	1000	995	
Max	1035	1035	1035	1034	1034	1034	1034	1035	1035	1035	1036	1035	1034	1033	1033	1033	1033	1033	1033	1034	1034	1034	1035	1035	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	

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

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

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

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

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

January 2009

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	12.6	12.6	12.6	12.6	13.4	14.1	14	13.9	13.8	13.8	13.7	13.7	13.8	13.7	13	12.9	12.8	12.8	12.8	12.8	12.7	13.2
2	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.8	13.9	13.7	13.7	13.3	13.1	13.2	13	12.9	12.8	12.8	12.8	12.7	12.7	12.6	12.6	12.6	12.9
3	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.2	13.8	13.7	13.6	13.5	13.5	13.5	13.5	13.5	13.5	13	12.9	12.9	12.8	12.8	12.8	12.8	13.1
4	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13.7	13.5	13.6	13.6	13.6	13.5	13.1	12.9	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13
5	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8	13.2	13.5	13.5	13.4	13.4	13.4	13	12.9	12.9	12.9	12.9	12.8	12.8	12.8	12.8	13
6	12.8	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.7	12.6	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.3	13.3	13.3	13.1	13	12.9	12.9	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.6	12.8
8	12.6	12.6	12.6	12.5	12.5	12.5	12.5	13.1	13.7	13.7	13.7	13.6	13.6	13.6	13.6	13.5	13.5	13	12.9	12.9	12.9	12.8	12.8	12.8	13.1
9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.4	14	13.8	13.7	13.7	13.6	13.6	13.6	13.6	13.7	13.6	13	12.9	12.9	12.8	12.8	12.8	13.1
10	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.3	13.8	13.7	13.6	13.5	13.5	13.5	13.4	13.4	13.3	13	12.9	12.9	12.9	12.9	12.8	12.8	13.1
11	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13.1	13.1	13.4	13.1	13.5	13.5	13.2	12.9	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.9
12	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.3	13.8	13.7	13.6	13.6	13.6	13.6	13.6	13.6	13	12.9	12.8	12.8	12.8	12.8	12.8	13.1
13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8	12.9	12.9	12.8	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7
14	12.5	12.5	12.5	12.5	12.5	12.5	12.5	13.2	13.9	13.8	13.7	13.7	13.6	13.6	13.6	13.7	13.7	13	12.9	12.9	12.8	12.8	12.8	12.8	13.1
15	12.8	12.8	12.8	12.8	12.8	12.7	12.7	13.3	13.9	13.8	13.7	13.6	13.6	13.6	13.7	13.7	13.6	13	12.9	12.8	12.8	12.8	12.7	12.7	13.1
16	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13.6	14.2	14.1	14	13.9	13.9	13.9	13.9	13.9	13.9	13	12.8	12.8	12.8	12.8	12.7	12.7	13.2
17	12.7	12.7	12.6	12.6	12.6	12.6	12.6	13.5	14.2	14	13.9	13.8	13.8	13.8	13.8	13.9	13.9	13.1	12.9	12.8	12.8	12.8	12.8	12.8	13.2
18	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.9	13	13.1	13	12.8	12.9	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.8
19	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.7	13.8	13.7	13.7	13.6	13.6	13.7	13.6	13.1	13	12.9	12.9	12.9	12.8	12.8	12.8	13
20	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13	13.4	13.8	13.9	13.9	13.6	13.5	13	12.9	12.9	12.8	12.8	12.8	12.7	12.7	13
21	12.6	12.6	12.6	12.6	12.6	12.5	12.5	13.3	14.1	14	13.8	13.8	13.8	13.8	13.8	13.8	13.6	13	12.9	12.9	12.8	12.8	12.8	12.8	13.2
22	12.7	12.7	12.7	12.7	12.7	12.7	12.7	13.5	14	13.9	13.8	13.7	13.7	13.6	13.6	13.7	13.6	13	12.9	12.9	12.9	12.8	12.8	12.8	13.2
23	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13.3	13.9	13.7	13.7	13.6	13.5	13.5	13.5	13.5	13.5	13.1	12.9	12.9	12.9	12.8	12.8	12.8	13.1
24	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.9	13.5	13.5	13.5	13.6	13.6	13.6	13.7	13.6	13	12.9	12.9	12.8	12.8	12.8	12.8	13.1
25	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.7	12.9	13.3	13.9	13.9	13.4	13.1	13	12.9	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.9
26	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.5	13.5	13.8	13.7	13.7	13.4	13.3	13	12.9	12.9	12.9	12.8	12.8	12.8	13
27	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.6	12.6	12.7	12.7	13	13.4	13.5	13.5	13.2	12.9	12.9	12.8	12.8	12.7	12.7	12.6	12.6	12.9
28	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	13	13.4	13.4	13.4	13.4	13.4	13.1	13	12.9	12.9	12.9	12.8	12.8	12.8	12.8	12.9
29	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.8	13.8	13.8	13.7	13.6	13.6	13.5	13.5	13.6	13.6	13	12.9	12.9	12.8	12.8	12.8	12.8	13.1
30	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	13.5	13.9	13.7	13.6	13.6	13.5	13.6	13.6	13.6	13.1	12.9	12.9	12.8	12.8	12.8	12.8	13.1
31	12.8	12.8	12.7	12.7	12.7	12.7	12.6	13.6	14	13.9	13.8	13.7	13.7	13.7	13.7	13.7	13.8	13.2	12.9	12.9	12.8	12.8	12.8	12.8	13.2
Avg	12.7	12.7	12.7	12.7	12.7	12.6	12.6	13	13.4	13.5	13.5	13.5	13.5	13.5	13.5	13.4	13.3	12.9	12.9	12.8	12.8	12.8	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	0.5	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.03	0.04	0.03	0.03	0.02	0.02	0.02	0.02	0.03	0.03	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.6	12.6	12.7	12.6	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6
Max	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13.6	14.2	14.1	14	13.9	13.9	13.9	13.9	13.9	13.9	13.2	12.9	12.9	12.9	12.9	12.8	12.8	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% untested; 0.0% failed QC -- 8928 total measurements.

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

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

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