

October 2005

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	36	152	417	588	716	704	654	715	508	261	182	32	0	0	0	0	0	0	4966
2	0	0	0	0	0	0	46	212	440	522	757	802	792	741	584	405	196	38	0	0	0	0	0	0	5535
3	0	0	0	0	0	0	23	211	256	274	259	312	329	467	309	199	193	33	0	0	0	0	0	0	2863
4	0	0	0	0	0	0	32	152	339	374	363	349	363	379	212	77	58	10	0	0	0	0	0	0	2707
5	0	0	0	0	0	0	37	99	179	324	377	429	652	503	411	314	54	29	0	0	0	0	0	0	3408
6	0	0	0	0	0	0	44	170	365	304	456	567	616	376	289	138	69	11	0	0	0	0	0	0	3407
7	0	0	0	0	0	0	16	78	101	91	154	178	122	150	101	46	24	4	0	0	0	0	0	0	1066
8	0	0	0	0	0	0	3	?	72 ?	75	161	67	?	?	223	312	141	29	0	0	0	0	0	0	1083 ?
9	0	0	0	0	0	0	8	34	97	93	88	125	157	129	74	82	21	9	0	0	0	0	0	0	918
10	0	0	0	0	0	0	4	29	52	80	65	107	86	173	129	59	28	11	0	0	0	0	0	0	822
11	0	0	0	0	0	0	14	47	93	194	242	135	125	88	93	50	18	5	0	0	0	0	0	0	1103
12	0	0	0	0	0	0	10	57	182	248	210	210	180	130	113	81	29	4	0	0	0	0	0	0	1455
13	0	0	0	0	0	0	9	44	79	126	194	186	233	173	135	74	21	4	0	0	0	0	0	0	1279
14	0	0	0	0	0	0	12	52	126	154	182	218	154	150	105	62	42	8	0	0	0	0	0	0	1265
15	0	0	0	0	0	0	35	180	369	539	652	706	709	636	490	312	122	15	0	0	0	0	0	0	4765
16	0	0	0	0	0	0	36	196	392	563	682	742	734	657	520	334	129	14	0	0	0	0	0	0	4999
17	0	0	0	0	0	0	38	196	394	513	694	675	453	644	510	325	125	16	0	0	0	0	0	0	4581
18	0	0	0	0	0	0	36	183	366	525	635	689	670	592	459	290	102	13	0	0	0	0	0	0	4559
19	0	0	0	0	0	0	32	163	345	504	621	677	664	588	451	273	95	8	0	0	0	0	0	0	4422
20	0	0	0	0	0	0	27	156	341	497	605	649	639	556	374	172	42	3	0	0	0	0	0	0	4062
21	0	0	0	0	0	0	16	75	161	169	279	571	520	392	387	195	79	6	0	0	0	0	0	0	2849
22	0	0	0	0	0	0	6	125	316	453	511	441	464	445	385	260	74	9	0	0	0	0	0	0	3487
23	0	0	0	0	0	0	32	178	376	546	660	715	703	622	440	263	63	5	0	0	0	0	0	0	4603
24	0	0	0	0	0	0	6	15 ?	43 ?	59	49 ?	?	58 ?	51 ?	?	22 ?	11	4	0	0	0	0	0	0	317 ?
25	0	0	0	0	0	0	11	46	116	129	200	270	286	288	321	207	98	9	0	0	0	0	0	0	1979
26	0	0	0	0	0	0	25	164	358	520	636	688	667	498	403	222	48	3	0	0	0	0	0	0	4231
27	0	0	0	0	0	0	23	155	348	510	636	454	708	541	264	75	84	4	0	0	0	0	0	0	3800
28	0	0	0	0	0	0	2	12 ?	57	89	138	143	148	408	311	237	75	4	0	0	0	0	0	0	1623
29	0	0	0	0	0	0	31	170	340	497	624	384	443	475	426	246	81	3	0	0	0	0	0	0	3720
30	0	0	0	0	0	0	21	150	344	508	627	683	674	591	452	266	77	0	0	0	0	0	0	0	4393
31	0	0	0	0	0	0	21	149	340	500	615	669	662	580	443	258	74	0	0	0	0	0	0	0	4310
Avg	0	0	0	0	0	0	22	122	252	341	422	451	455	425	331	197	79	11	0	0	0	0	0	0	3051
S D	0	0	0	0	0	0	13	65	134	190	236	241	243	208	152	107	51	10	0	0	0	0	0	0	1566
S/A	0	0	0	0	0	0	0.59	0.53	0.53	0.56	0.56	0.53	0.53	0.49	0.46	0.54	0.64	0.95	0	0	0	0	0	0	0.51
Min	0	0	0	0	0	0	2	12	43	59	49	67	58	51	74	22	11	0	0	0	0	0	0	0	317
Max	0	0	0	0	0	0	46	212	440	588	757	802	792	741	584	405	196	38	0	0	0	0	0	0	5535
n	0	0	0	0	0	0	298	346	362	367	363	358	348	357	359	363	368	148	0	0	0	0	0	0	4038

Daylight Data Recovery: 0.0% missing; 3.1% exceed the 15% QC threshold -- 4166 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.

October 2005

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	28	92	614	684	696	412	352	750	567	182	340	121	0	0	0	0	0	0	4839
2	0	0	0	0	0	0	214	542	818	564	855	924	817	888	839	793	655	272	0	0	0	0	0	0	8180
3	0	0	0	0	0	0	3	311	98	35	4	1	1	35	91	72	388	19	0	0	0	0	0	0	1059
4	0	0	0	0	0	0	42	44	285	238	87	29	38	71	14	0	0	0	0	0	0	0	0	0	849
5	0	0	0	0	0	0	92	5	14	43	80	137	273	238	267	334	13	6	0	0	0	0	0	0	1502
6	0	0	0	0	0	0	73	182	230	16	69	115	216	48	39	0	0	0	0	0	0	0	0	0	988
7	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
8	0	0	0	0	0	0	0	0	0	0	1	0	0	0	44	232	127	6	0	0	0	0	0	0	410
9	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
10	0	0	0	0	0	0	0	0	0	0	0	0	0	2	0	0	0	0	0	0	0	0	0	0	3
11	0	0	0	0	0	0	0	0	1	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	3
12	0	0	0	0	0	0	0	0	27	21	2	0	0	0	0	0	0	0	0	0	0	0	0	0	50
13	0	0	0	0	0	0	0	0	0	1	2	1	1	0	0	0	0	0	1	0	0	0	0	0	4
14	0	0	0	0	0	0	0	1	2	1	1	1	0	0	0	0	0	0	0	0	0	0	0	0	5
15	0	0	0	0	0	0	141	439	618	727	740	744	787	803	724	635	435	106	0	0	0	0	0	0	6899
16	0	0	0	0	0	0	264	659	818	888	922	938	933	922	885	796	566	185	0	0	0	0	0	0	8777
17	0	0	0	0	0	0	305	670	823	780	904	736	415	864	857	756	535	206	0	0	0	0	0	0	7849
18	0	0	0	0	0	0	269	581	697	767	792	795	752	713	654	548	324	63	0	0	0	0	0	0	6956
19	0	0	0	0	0	0	128	460	635	703	758	771	758	742	681	543	318	45	0	0	0	0	0	0	6541
20	0	0	0	0	0	0	103	415	609	703	736	729	712	630	386	154	11	0	0	0	0	0	0	0	5188
21	0	0	0	0	0	0	0	1	1	0	73	258	236	193	326	104	100	0	0	0	0	0	0	0	1293
22	0	0	0	0	0	0	0	264	494	456	316	157	248	334	374	411	146	2	0	0	0	0	0	0	3202
23	0	0	0	0	0	0	199	669	836	908	923	947	942	931	711	498	67	0	0	0	0	0	0	0	7631
24	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
25	0	0	0	0	0	0	1	1	1	2	3	31	24	154	349	383	311	25	0	0	0	0	0	0	1284
26	0	0	0	0	0	0	279	658	824	896	928	931	905	674	568	296	9	0	0	0	0	0	0	0	6968
27	0	0	0	0	0	0	204	602	782	859	894	386	837	633	275	8	397	27	0	0	0	0	0	0	5903
28	0	0	0	0	0	0	0	0	0	0	1	1	12	157	320	520	259	0	0	0	0	0	0	0	1269
29	0	0	0	0	0	0	175	563	765	831	852	258	370	473	582	601	412	8	0	0	0	0	0	0	5889
30	0	0	0	0	0	0	232	625	822	904	942	956	958	935	889	787	503	21	0	0	0	0	0	0	8574
31	0	0	0	0	0	0	257	659	836	911	940	947	947	917	872	763	455	9	0	0	0	0	0	0	8513
Avg	0	0	0	0	0	0	97	272	376	385	404	361	372	391	365	304	205	36	0	0	0	0	0	0	3569
S/D	0	0	0	0	0	0	110	282	365	394	418	392	383	376	333	300	215	69	0	0	0	0	0	0	3379
S/A	0	0	0	0	0	0	1.13	1.04	0.97	1.02	1.04	1.09	1.03	0.96	0.91	0.99	1.05	1.91	0	0	0	0	0	0	0.95
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	1
Max	0	0	0	0	0	0	305	670	836	911	942	956	958	935	889	796	655	272	0	0	0	0	0	0	8777
n	0	0	0	0	0	0	298	372	372	372	372	372	372	372	372	371	371	148	0	0	0	0	0	0	4164

Daylight Data Recovery: 0.0% missing; 0.0% exceed the 15% QC threshold -- 4166 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25521E6 Calibration Factor: 8.034 μV/W/m² Calibration Date: 06/2002

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

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

October 2005

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	36	117	117	147	182	344	339	157	138	162	99	19	0	0	0	0	0	0	1857
2	0	0	0	0	0	0	23	46	50	157	112	63	126	85	70	50	33	13	0	0	0	0	0	0	828
3	0	0	0	0	0	0	25	122	204	242	258	312	328	432	245	167	89	31	0	0	0	0	0	0	2454
4	0	0	0	0	0	0	28	133	192	214	295	325	332	325	204	73	58	10	0	0	0	0	0	0	2189
5	0	0	0	0	0	0	27	99	173	299	317	316	423	320	252	140	48	29	0	0	0	0	0	0	2443
6	0	0	0	0	0	0	29	134	242	290	392	456	407	338	265	138	69	11	0	0	0	0	0	0	2770
7	0	0	0	0	0	0	16	78	101	91	154	178	122	150	101	46	23	4	0	0	0	0	0	0	1064
8	0	0	0	0	0	0	3	12 ?	67	69	161	67	42 ?	34 ?	183	220	104	31	0	0	0	0	0	0	993 ?
9	0	0	0	0	0	0	8	34	97	93	88	125	157	129	74	82	20	9	0	0	0	0	0	0	916
10	0	0	0	0	0	0	4	29	52	80	65	107	80	173	129	59	28	11	0	0	0	0	0	0	816
11	0	0	0	0	0	0	15	47	93	194	241	135	125	88	93	50	18	5	0	0	0	0	0	0	1104
12	0	0	0	0	0	0	10	57	170	233	210	210	180	130	113	81	29	4	0	0	0	0	0	0	1428
13	0	0	0	0	0	0	9	44	79	126	194	186	233	173	135	74	21	4	0	0	0	0	0	0	1279
14	0	0	0	0	0	0	13	52	126	154	182	218	154	150	105	62	42	8	0	0	0	0	0	0	1266
15	0	0	0	0	0	0	25	70	103	117	142	154	131	102	96	73	40	9	0	0	0	0	0	0	1061
16	0	0	0	0	0	0	16	38	47	53	55	56	57	54	48	39	26	6	0	0	0	0	0	0	493
17	0	0	0	0	0	0	15	38	50	69	85	129	127	85	61	52	33	8	0	0	0	0	0	0	754
18	0	0	0	0	0	0	19	48	76	92	104	115	132	131	116	93	45	10	0	0	0	0	0	0	982
19	0	0	0	0	0	0	22	59	86	109	115	122	124	113	99	83	42	7	0	0	0	0	0	0	981
20	0	0	0	0	0	0	21	62	91	108	121	133	137	155	168	116	39	3	0	0	0	0	0	0	1152
21	0	0	0	0	0	0	18	75	161	169	227	384	355	267	218	157	60	5	0	0	0	0	0	0	2097
22	0	0	0	0	0	0	6	58	121	199	286	324	281	228	197	120	47	9	0	0	0	0	0	0	1877
23	0	0	0	0	0	0	12	35	47	55	63	57	56	51	77	83	48	5	0	0	0	0	0	0	589
24	0	0	0	0	0	0	6	13 ?	34	54	39	36	43 ?	48	25 ?	21 ?	11	4	0	0	0	0	0	0	333 ?
25	0	0	0	0	0	0	11	46	116	129	200	251	272	195	144	78	47	8	0	0	0	0	0	0	1497
26	0	0	0	0	0	0	13	31	42	47	51	57	62	86	125	118	46	3	0	0	0	0	0	0	680
27	0	0	0	0	0	0	15	39	53	59	75	185	156	153	135	72	31	4	0	0	0	0	0	0	978
28	0	0	0	0	0	0	2	12	51	84	138	143	140	309	157	84	33	3	0	0	0	0	0	0	1154
29	0	0	0	0	0	0	16	42	58	72	100	212	197	190	153	67	27	2	0	0	0	0	0	0	1135
30	0	0	0	0	0	0	13	35	47	51	52	53	51	47	42	33	15	0	0	0	0	0	0	0	440
31	0	0	0	0	0	0	13	32	43	46	47	50	50	50	44	35	16	0	0	0	0	0	0	0	426
Avg	0	0	0	0	0	0	16	56	96	126	153	177	175	160	129	88	41	9	0	0	0	0	0	0	1227
S D	0	0	0	0	0	0	8	34	55	73	91	113	113	101	64	46	23	8	0	0	0	0	0	0	639
S/A	0	0	0	0	0	0	0.52	0.6	0.57	0.58	0.6	0.64	0.65	0.63	0.49	0.52	0.56	0.93	0	0	0	0	0	0	0.52
Min	0	0	0	0	0	0	2	12	34	46	39	36	42	34	25	21	11	0	0	0	0	0	0	0	333
Max	0	0	0	0	0	0	36	134	242	299	392	456	423	432	265	220	104	31	0	0	0	0	0	0	2770
n	0	0	0	0	0	0	279	357	370	372	372	368	361	363	368	369	371	147	0	0	0	0	0	0	4097

Daylight Data Recovery: 0.0% missing; 1.7% exceed the 15% QC threshold -- 4166 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17880F3 Calibration Factor: 8.067 $\mu\text{V}/\text{W}/\text{m}^2$ 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.

October 2005

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	17.3	17.1	16.7	16.7	16.7	16.9	17.6	19	21	22.4	23.4	24.2	24.2	24.6	24.2	23.2	22.4	21.1	19.9	19.4	19.2	19	18.9	18.1	20.1
2	17.4	16.9	16.1	15.8	15.6	16.1	16.2	17.9	20.7	21.8	22.8	23.5	23.8	23.8	23.4	22.9	22.3	21.1	20.1	19.3	18.6	18.1	17.9	17.6	19.6
3	17.3	17.3	17.3	17.4	17.7	17.9	18.4	19.4	21.6	23.4	24.4	24.9	25	25.5	25.5	24.8	24.8	23.2	22.3	21.6	21.1	20.8	20.6	20.7	21.4
4	20.7	20.7	20.7	21	21.1	21.4	21.7	22.3	24	24.9	25.1	25.3	25.3	25.4	24.4	22.4	22.3	22.2	22.2	22.1	22.1	22.1	22.2	22.4	22.7
5	22.4	22.4	22.4	22.2	22.3	22.3	22.3	22.7	23.5	24.5	25.2	25.4	26.2	26.7	26.3	26	22.4	22.7	23.1	23.1	23	22.7	22.6	22.7	23.5
6	22.6	22.6	22.5	22.5	22.6	23	23	24.1	25.3	26.1	26.3	26.6	27	26.8	26.6	26.1	25.8	25.2	24.6	24.1	24.3	24.6	24.7	24.6	24.6
7	24.4	24.3	24.4	24.2	24.2	24.1	24.5	24.9	25.2	25	24.9	25.3	25.2	25.2	25.1	23.3	23.3	23	23	23.2	23.4	23.3	23.6	24.1	24.2
8	24.1	23.7	23.7	23.7	23.9	24	23.9	23.9	24.1	24.5	25	25.2	24.8	24.8	24.9	26	26.4	25.9	25.3	24.9	24.6	24.9	24.5	24.1	24.6
9	23.8	23.6	20.8	19.7	19.3	19	19.1	19.2	19.2	19.7	20	20.1	20.4	20.5	20.2	20.1	20	19.7	19.3	19.1	18.8	18.7	18.6	18.7	19.9
10	18.9	19.3	19.3	19	18.9	19	19.4	19.5	19.6	19.8	19.8	20.1	20.2	20.6	21.4	21.5	21.5	21.4	21.6	21.9	22.2	22.2	21.8	20.4	20.4
11	21.6	21.6	21.5	21	20.8	20.5	20.2	20.1	20.3	20.9	21.7	21.6	21	21	21	21	20.8	20.6	20.3	19.9	19.7	19.5	19.4	19.2	20.6
12	19.1	18.9	18.9	18.6	18.6	18.1	18.2	18.7	19.2	19.8	20.4	20.5	20.7	20.4	20.1	19.6	19.2	18.9	18.7	18.6	18.3	17.8	17.4	16.9	19
13	16.5	16.1	15.7	15.3	14.9	14.9	14.7	14.5	14.6	14.9	15.5	16.3	16.9	17.2	17.4	16.9	16.5	16.4	16.6	16.6	16.8	17	17	16.9	16.1
14	16.8	16.7	16.7	16.7	16.7	16.6	16.6	16.7	17.2	17.9	18.4	19	19.1	19.4	19.1	19.7	19.9	19.9	19.9	19.8	19.3	18.8	18.3	18.1	18.2
15	17.5	16.6	15.7	15.4	15.4	14.5	14.2	15	17.5	20.5	22.4	23.6	24.4	25.3	25.9	25.7	25	22.9	21.2	19.8	19.4	19.2	19	17.8	19.8
16	18	16.9	15.1	13.7	13	12.4	11.7	13.6	16.3	18.5	19.4	20.1	20.7	21.2	21.7	21.8	21	19.1	17.6	16.2	15.6	15	13.7	12.9	16.9
17	13	11.7	10.8	9.9	10.2	10.9	9.7	11	13.6	15.4	16.4	17.2	17.3	18.6	19.3	19.3	18.6	17.1	15.1	13.5	12.5	12.3	12	12.5	14.1
18	11.8	12.1	11.7	12.1	12.4	12.2	12.4	13.7	15.4	18.1	20.7	22.6	24.1	25.3	25.9	25.9	25.1	23.3	21.6	20.9	20.4	20	19.5	19.1	18.6
19	18.7	17.9	17	16	15.3	14.8	14.3	16.1	19.8	21.9	23.4	24.2	24.8	25.7	26.4	26.6	25.9	24	22.6	21.6	21.3	20.6	20	19.6	20.8
20	19.4	18.9	18.4	18.3	18.2	17.7	17.4	18.4	20.5	22.9	25.1	27.2	28.1	27.8	27	23.4	21	19.3	18.7	18.4	18.1	17.8	17.7	17.4	20.7
21	17.1	17.3	17.9	18.1	18.2	18	17.7	18.2	19.1	19.3	20	22.1	23.8	24.5	24.5	23.7	22.2	20.3	19	18.4	17.9	17.9	18	18.2	19.6
22	18.5	18.7	18.4	18.9	19	18.8	18.1	18.5	20.3	21.4	22.7	23.6	24.6	25	25.4	25.4	24.5	22.1	20	18.4	17.3	16.7	16.1	15	20.3
23	13.9	12.8	11.8	10.8	10.5	9.9	8.6	9.6	12.6	14.9	16.6	17.4	18.3	19.1	18.9	18.3	16.7	15.5	15.2	14.9	14.1	14	14.2	13.9	14.3
24	14.1	14.3	14.5	14.3	14.6	15.3	15.9	16.9	16.2	15.8	16.5	17	17.3	17.3	17.5	17.1	16.5	16.5	16.7	17	17.3	17.2	16.6	14.9	16.1
25	12.7	11.5	10.6	9.8	9.4	8.7	8.1	8.3	8.2	8	8.6	9.5	10.7	11.6	12.5	13.1	13	11.6	11	10.8	10.5	10	8.9	8.1	10.2
26	7.6	7.5	8	7.4	6.6	6.2	5.9	7.4	9.7	11.8	13.5	14.3	15.4	15.7	16.2	16.1	15	14.2	13.3	12.5	11.8	10.6	10.5	11	11.2
27	10.1	8.8	8.2	7.4	7.2	6.7	6.5	8.2	11	12.6	14.2	14.9	16.3	16.3	15.5	14.6	14.3	12.4	11.3	10.6	10.3	10.2	9.9	9.9	11.1
28	10	10	10.3	10.5	9.8	9.3	9	9	8.9	9.4	9.8	10.2	10.5	11.8	12.3	12.5	11.9	10.6	9.6	8.8	8	7.6	7.3	7	9.8
29	6.2	5.9	5.4	5.3	5.1	3.8	3.7	5.2	7.7	9.9	11.2	11.3	11.7	11.9	12	11.8	11.4	9.9	8.6	7	5.8	5.2	5.3	5.3	7.8
30	5.5	5.8	5.4	4.6	4	4.2	4.1	5.2	8.3	11.9	14.9	16.5	17.6	18.8	19.6	20	19.2	16.4	13.5	11.8	11.4	11	11.1	10.9	11.3
31	9.9	8.2	7	7.4	7.1	6.8	6.1	8.3	12	16.2	19	20.8	21.8	22	22.2	22.1	20.9	17.4	15.5	14.7	13.4	12.5	12.5	12.1	14
Avg	16.3	16	15.6	15.3	15.1	15	14.8	15.7	17.2	18.5	19.6	20.3	20.9	21.3	21.4	21	20.3	19.2	18.3	17.7	17.3	17	16.8	16.5	17.8
S D	5.2	5.4	5.4	5.5	5.7	5.8	6.1	5.8	5.3	5	4.8	4.9	4.8	4.6	4.5	4.3	4.2	4.3	4.4	4.6	4.9	5	5.1	5.1	4.7
S/A	0.32	0.34	0.35	0.36	0.38	0.39	0.41	0.37	0.31	0.27	0.25	0.24	0.23	0.22	0.21	0.2	0.21	0.22	0.24	0.26	0.28	0.3	0.3	0.31	0.26
Min	5.5	5.8	5.4	4.6	4	3.8	3.7	5.2	7.7	8	8.6	9.5	10.5	11.6	12	11.8	11.4	9.9	8.6	7	5.8	5.2	5.3	5.3	7.8
Max	24.4	24.3	24.4	24.2	24.2	24.1	24.5	24.9	25.3	26.1	26.3	27.2	28.1	27.8	27	26.6	26.4	25.9	25.3	24.9	24.6	24.9	24.7	24.6	24.6
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% 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

October 2005

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	97.2	97.3	98.2	99.6	100.6	100.9	100.3	96.1	87	76.5	71.2	67.8	67.3	65.3	65.2	65.5	66.7	71.9	79.9	85.7	89.5	91.5	92.9	97.1	84.6
2	101.1	103.5	103.4	104	104	102.2	101.4	97.4	86.3	79.1	72.5	69.3	70.4	71	72.3	73.8	77.4	84.8	91.8	96.7	99.8	102	103.7	104.8 ?	90.5
3	?	?	?	?	?	?	?	104.4 ?	102.6	99.3	93.5	90.6	88.5	86	85.5	90.3	91.3	98.6	101.5	103.9	104.8 ?	?	?	105	96.4 ?
4	?	?	?	?	?	?	?	104.6 ?	99.1	91	92.3	91.1	90.2	91	95.8	?	?	?	?	?	?	?	?	?	94.4 ?
5	?	?	?	?	?	?	?	104.8 ?	102.7	99.6	96.9	95.8	93.8	90.7	93.2	93.2	103.7 ?	?	?	?	?	?	?	?	97.4 ?
6	?	?	?	?	?	?	?	103.3 ?	100.1	95.5	93.6	90.9	85.1	86.8	89.6	94.2	94.7	97.8	101.2	104.4	103.3	102	101.4	102	96.8 ?
7	104	104.1	104.7	?	104.6 ?	104.8	104.3	102.6	101.6	102.8	104	102.1	102.9	104	103	102.5	104 ?	104.1	103.3	104.6 ?	103.3	104.6 ?	104.6 ?	104.7 ?	103.7 ?
8	103.4 ?	103.9	104.6	104.7	104.8 ?	104.9	103.7	104.2	104.1	103.3	102	102	102.8	103.2	103.7	100.3	98.1	99.6	101.9	103.2	104.3	104.9	104.6	104.7	103.2
9	104.9	104.8 ?	104.7	104.9	105 ?	?	?	?	104.9 ?	104.6	104.9 ?	104.5 ?	103.4	102.9	103.6	103.9	103.6	103.6	104.1	104.2	104.8 ?	?	?	?	104.3 ?
10	?	?	?	?	?	?	?	?	?	?	?	?	?	?	104.3	103.5	104.3	?	?	?	?	?	?	?	104 ?
11	?	?	?	?	?	?	?	?	?	102.9	100	100.5	102.1	101.8	102.1	101.9	102.6	103.4	104.5 ?	?	?	?	?	?	102.2 ?
12	?	?	104.7	104.6 ?	103.3	104.6	103.6	99.5	96.4	95.9	94.5	93.7	92.9	93.7	95.2	96	96.6	96.6	96.6	96.1	96.1	98.1	99.1	100.2	98.1
13	100.9	102.6	104.1	104.7	104.8 ?	104.4 ?	104.9 ?	?	?	?	104.2 ?	102.6	101.1	100.6	100.9	103.5	104.8 ?	?	?	?	?	?	?	?	103.2 ?
14	?	?	?	?	?	?	?	?	104.3 ?	102.3	100.9	99.4	99.9	99.4	100.9	98.4	98.2	99.1	99.1	97.7	97.3	96.6	96.8	95.3	99.1 ?
15	95.6	97.5	98.6	97.7	96	99	100.1	97.8	88.8	76.4	69.3	65	61.6	52.9	50.7	51.2	53.3	63	70.1	78	80	81.4	82	86.3	78.8
16	76.5	80.9	91.5	96.9	97.9	99.2	100.3	90.5	79	61.7	51.2	48.9	47.7	46.1	44.6	42.9	46.7	54.7	61.6	68.8	70.6	71.7	79.3	82.1	70.5
17	76.5	82.5	86.2	89.7	85	78.3	85.3	80.8	71.3	63.5	60.8	58.1	58.2	54.8	51.7	53.3	56.7	63.1	75.7	84.7	88.3	92	94	90	74.2
18	94.7	98.4	99.5	98.1	95.6	96.1	95.7	91.2	83.8	70.5	60.5	56.3	53.8	51.3	52.4	54.4	58.6	65.8	73.2	77.6	78.7	80.2	81.9	82.9	77.1
19	83.4	86.9	91.3	95.9	99.1	101.4	103.6	99.9	85.5	71.6	60.9	57.9	59.3	64	64.4	65.2	69.8	78.3	85.1	90.4	86.8	88.4	91.9	94.2	82.3
20	94.9	95.9	97.4	97.7	99.1	101.5	103.1	101.3	95.5	87.6	79.6	70.6	66	70.9	75.9	88	97.2	100.5	100.8	100.4	100.7	101.4	102.6	104.4	93
21	?	?	?	?	?	?	?	?	?	?	103.6 ?	96	86.6	82.3	80.7	84	91.6	98.8	102.4	103.7	104.9 ?	?	?	?	94.1 ?
22	?	?	?	?	104.1	104.5	104.6 ?	102.9 ?	97.2	94.7	92.8	91.1	86.3	84.1	83.4	83.6	84	93.9	97.2	99.5	101.2	101.9	97.5	92.1	94.8 ?
23	90.6	92.7	94.5	97.4	96	96.6	101.7	98.3	79.8	64.7	56	50.8	49.8	40.4	43.8	51.4	62.8	70	73.3	78	84.7	85.7	84.3	86.3	76.2
24	86.9	85.9	86.2	88	91.2	90.8	90.8	92	100.3	104.1 ?	?	?	?	?	?	?	?	?	?	104.9 ?	103.7	103.5	104.6 ?	?	95.2 ?
25	?	?	?	?	?	?	104.3 ?	103.4	104.5 ?	104.6 ?	101	96.7	90.7	85.5	73.7	64.2	62.1	66.7	69.5	73.3	76.8	79.5	74.6	79.9	83.9 ?
26	82.8	84.4	85.4	89.3	94.6	97	99.4	94.9	84.4	73.8	65.2	61.1	57	55.2	54.9	55.5	61.1	69.8	79.7	87.2	87.7	93.1	95.5	86.9	79
27	91.9	97.7	96.3	98.1	97.7	98.4	98.9	92.6	80.5	75.6	68.6	61.8	56.7	56.6	59.7	66.4	74	83.9	89.8	93.7	93	89	87.4	85.8	83.1
28	85.3	84.5	82.3	82.2	94.5	100.2	101.3	101	103	102.1	101.7	101.2	99.9	90.6	80.3	72.4	74	81.4	86.8	86.1	88.3	90.3	91.4	93.5	90.6
29	97.5	98.6	99.9	100.8	100.4	103.6 ?	?	101.6	92.3	73.2	65.1	66.9	63.7	55.6	53	52.6	53.4	61.9	69.6	79.7	87.2	91.5	90.3	91.4	80.4
30	92.6	91.9	92.3	95.4	97.4	95.2	94	89.8	78.7	66.7	52	38.7	35.4	34.1	31.8	30.1	34.2	45.3	60.8	67.7	66.2	68.1	66.7	66.3	66.3
31	72.4	83.5	90.5	87.2	88.3	89.4	95.3	87.7	75.8	59.7	52.7	43.1	37.4	39.6	37.7	38.4	44.5	60.5	69.5	73	74.7	77.9	80.6	85.8	68.5
Avg	91.7	93.9	96	96.8	98.4	98.7	99.8	97.7	92.2	85.8	81.8	78.4	76.2	74.5	75.1	75.2	78.3	81.4	86.5	90.1	91.4	91.1	91.6	92.2	89.2 ?
S D	9.7	8.2	7.2	6.6	5.5	6.4	5.1	6.3	10.5	15.8	19.4	21.2	21.7	22.2	22.8	22.8	21.8	18	14.7	12.5	11.7	10.7	10.5	9.9	11.5
S/A	0.11	0.09	0.08	0.07	0.06	0.07	0.05	0.06	0.11	0.18	0.24	0.27	0.28	0.3	0.3	0.3	0.28	0.22	0.17	0.14	0.13	0.12	0.12	0.11	0.13
Min	72.4	80.9	82.3	82.2	85	78.3	85.3	80.8	71.3	59.7	51.2	38.7	35.4	34.1	31.8	30.1	34.2	45.3	60.8	67.7	66.2	68.1	66.7	66.3	66.3
Max	104.9	104.8	104.7	104.9	105	104.9	104.9	104.8	104.9	104.6	104.9	104.5	103.4	104	104.3	103.9	104.8	104.1	104.5	104.9	104.9	104.9	104.6	105	104.3
n	236	237	252	236	234	245	232	265	300	324	332	344	348	348	359	347	320	312	309	303	291	272	263	264	6980

Data Recovery: 0.0% missing; 21.8% 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

October 2005

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	16.5	16.2	15.9	15.7	15.7	16	16.4	17.6	20.1	23.5	26.1	28.1	29	29.2	29.2	28.1	26.4	24.7	21.7	19.6	18.6	18	17.7	17.2	21.1
2	16.5	16.1	15.8	15.3	14.9	14.8	14.9	16.3	19.5	23	25.1	27	27.9	28.1	27.9	27.5	26.7	25.1	22.1	20	18.9	18.1	17.6	17.3	20.7
3	17.1	16.9	16.9	16.9	17.1	17.4	17.7	18.5	20.9	23.1	25.1	26.4	27.3	28.1	28.7	28.2	27.9	26.9	24.4	22.6	21.6	20.9	20.4	20.2	22.1
4	20.1	20.4	20.5	20.8	21	21.2	21.3	21.9	23.7	25.9	27.4	27.8	28	28.1	28	25.5	23.7	22.9	22.5	22.3	22	21.8	22	22.1	23.4
5	22.2	22.2	22.3	22.2	22.1	22.1	22.1	22.6	23.6	24.9	26.7	27.7	28.8	30.1	30.1	30.2	27.3	24.4	23.6	23.4	23.2	23	22.7	22.7	24.6
6	22.6	22.5	22.5	22.4	22.4	22.5	22.6	23.3	24.7	27.1	27.8	28.8	29.7	29.8	29.3	28.6	27.6	26.7	25.7	24.8	24.3	24.2	24.4	24.4	25.4
7	24.4	24.3	24.2	24.2	24.1	23.9	23.8	24.1	24.7	25.2	25.1	25	25.3	25.3	25.1	24.3	23.5	23.2	22.8	22.8	22.9	23	23.1	23.4	24.1
8	23.7	23.6	23.5	23.5	23.6	23.8	23.8	23.7	23.8	24.1	24.4	24.7	24.7	24.7	24.7	25.4	27.2	27.2	26.4	25.7	24.9	24.7	24.7	24.4	24.6
9	24	23.8	23.4	21.8	20.7	20.1	19.7	19.7	19.9	20.3	20.8	21	21.4	21.9	21.8	21.5	21.3	20.8	20.3	19.9	19.6	19.3	19.2	19	20.9
10	19.1	19.2	19.5	19.5	19.3	19.3	19.4	19.6	19.8	20	20.2	20.3	20.5	20.6	21.1	21.6	21.9	21.9	21.8	21.7	21.8	22	22.2	22.1	20.6
11	22	21.9	21.8	21.5	21.2	21	20.6	20.4	20.4	21	22.2	23	22.7	22.3	22	21.9	21.7	21.3	20.9	20.4	20.1	19.8	19.7	19.5	21.2
12	19.2	19	18.8	18.6	18.4	18.2	18	18.1	18.7	20	21.2	21.8	22.1	22	21.6	21.1	20.5	19.8	19.3	19	18.8	18.5	18.1	17.7	19.5
13	17.3	16.9	16.4	16	15.7	15.3	15.2	15.1	15.1	15.4	16	17	17.9	18.5	18.8	18.5	17.8	17.1	16.8	16.8	16.9	17	17.2	17.2	16.7
14	17.1	17	16.9	16.9	16.9	16.8	16.8	16.8	17.1	17.7	18.6	19.6	20.1	20.3	20.3	20.2	20.3	20.3	20	19.9	19.6	18.9	18.2	17.7	18.5
15	17.3	16.6	15.7	14.9	14.6	14.2	13.6	14.3	16.7	20.1	23.3	25.4	26.8	27.5	28.3	28.6	28	25.8	22.6	20.3	19	18.5	18.3	17.7	20.3
16	16.8	16.3	14.9	13.2	12	11.2	10.7	11.9	15.3	18.8	21.4	23.1	24	24.1	24.3	24.5	24.2	22.2	18.7	16.4	14.8	14	13	11.8	17.4
17	11.2	10.9	9.9	9	8.4	8.3	8.4	9.5	12.7	16	18.2	20.3	20.8	20.6	21.8	22.2	21.6	19.7	16.3	13.3	11.2	10.2	9.7	9.7	14.2
18	9.9	9.8	10	9.9	10.3	10.4	10.5	12.1	14.9	17.8	20.9	23.5	25.4	26.8	27.7	28	27.6	25.9	23.1	21.1	20.2	19.7	19.3	18.9	18.5
19	18.5	17.9	17.1	16	14.9	14	13.5	14.1	17.6	21.8	25	27.3	28.3	28.9	29.4	29.6	29.1	27	24	22.1	21	20.3	19.7	19.2	21.5
20	18.8	18.5	18	17.6	17.6	17.4	17	17.6	20	23	26.5	30	32.3	32.8	32.4	30	26	22.8	20.9	19.8	19.1	18.2	17.7	17.2	22.1
21	16.8	16.7	17.2	17.6	17.8	17.8	17.6	17.8	18.9	20.1	21.3	23.4	26.7	28.3	28.3	27.8	26	23.5	20.9	19.3	18.4	18.2	18.3	18.3	20.7
22	18.4	18.6	18.7	18.8	18.9	18.6	18.1	17.8	19.3	22	24.2	25.8	26.7	27.5	27.9	28.2	27.6	25.4	22.5	20.1	18.4	17.2	16.3	15.5	21.3
23	14.2	13	11.9	10.7	9.8	9.1	8.1	8.5	11.5	15.1	18.3	20.8	22.2	23	23.3	22.7	20.7	17.5	15.6	14.6	13.6	12.7	12.5	12.7	15.1
24	12.7	12.9	13.1	13.3	13.5	14	14.7	15.7	16.3	15.9	16	16.6	17.1	17.4	17.6	17.6	17.2	16.8	16.7	16.8	16.9	16.9	16.8	16.5	15.8
25	15.1	13.5	12.2	11.1	10.4	9.7	9	8.6	8.7	8.8	8.8	9.6	11	12.3	13.4	14.2	14.4	13.2	11.3	10.8	10.6	10.3	9.4	8.4	11
26	7.3	6.8	7.1	7.2	6.3	5.5	5.1	6.1	8.9	12.2	15	17	18.1	18.7	18.9	19.1	17.7	15.7	14.2	12.9	11.8	10.2	9.2	9.6	11.7
27	9.8	8.5	7.3	6.4	5.8	5.4	5	6	9.5	13	16	18.6	19.7	21.4	20.2	18.4	16.3	14.9	12.2	10.5	9.5	9	9	8.9	11.7
28	9	9.3	9.7	10.1	9.8	9.2	8.8	8.6	8.5	8.9	9.4	9.9	10.4	11.7	13.6	14.3	14.3	12.3	10.2	8.8	7.6	6.6	6.2	5.9	9.7
29	5.3	4.6	4.1	3.6	3.5	3.2	2.6	3.4	6.3	9.8	12.9	14.6	14.5	14.7	14.8	14.6	14.1	12	9.1	6.8	5.1	3.7	3	2.8	7.9
30	3.4	3.8	4.1	3.9	3.2	2.6	2.5	3.6	6.9	11.1	15.2	18.3	19.9	21	22	22.4	22.1	19.2	14.6	11.3	9.4	8.4	8.3	8.4	11.1
31	8.1	7.2	5.5	4.6	3.9	3.9	3.4	4.7	9.3	14.7	19.4	22.9	24.6	25.2	25.2	25	24.3	21.2	17.1	14.6	12.8	11.2	10.2	9.7	13.7
Avg	15.9	15.6	15.3	14.9	14.6	14.4	14.2	14.8	16.6	18.7	20.6	22.1	23	23.6	23.8	23.5	22.7	21.2	19.3	18	17.2	16.6	16.3	16	18.3
S D	5.6	5.7	5.9	6	6.2	6.3	6.5	6.2	5.6	5.2	5.1	5.2	5.4	5.3	5.1	4.8	4.5	4.5	4.6	4.9	5.2	5.5	5.7	5.7	4.9
S/A	0.35	0.37	0.38	0.4	0.42	0.44	0.45	0.42	0.34	0.28	0.25	0.24	0.23	0.22	0.21	0.2	0.2	0.21	0.24	0.27	0.3	0.33	0.35	0.36	0.27
Min	3.4	3.8	4.1	3.6	3.2	2.6	2.5	3.4	6.3	8.8	8.8	9.6	10.4	11.7	13.4	14.2	14.1	12	9.1	6.8	5.1	3.7	3	2.8	7.9
Max	24.4	24.3	24.2	24.2	24.1	23.9	23.8	24.1	24.7	27.1	27.8	30	32.3	32.8	32.4	30.2	29.1	27.2	26.4	25.7	24.9	24.7	24.7	24.4	25.4
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

October 2005

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	0.7	0.6	0.9	1	1	0.5	0.8	1	2.4	3.2	2.6	2.6	2.2	2.8	3	2.9	2.8	1.9	1.3	0.9	1.1	1.1	0.8	0.2	1.6
2	0.3	0.9	0.7	0.5	0.9	1.4	1	1	1.7	2.7	2.9	3.1	3.2	3.5	3.6	3.7	2.9	2.1	1	1.4	1.1	0.7	0.6	0.6	1.7
3	0.6	0.5	0.4	0.8	0.8	0.6	0.8	1.3	1.6	1.7	2.1	2.7	2.9	3.5	3	2.6	2.9	2.5	1.6	1.4	1.2	0.9	0.8	1	1.6
4	1.3	1.7	1.3	1.4	1.3	1.3	1.5	1.8	3.2	3.9	3.6	4.3	4.6	4.8	4.3	3	3.1	2.4	2.5	2.4	1.4	1.1	0.6	1.4	2.4
5	2.1	2.3	2.1	1.3	1.5	1.3	1.9	2.5	3.2	2.9	3.5	4	3.7	3.3	4	3.4	1.2	1.4	1.8	1.9	1.9	1.6	1.8	1.5	2.3
6	1.4	0.9	1.1	1.1	1.3	1.8	1.3	2.4	2.9	3.9	4.9	5.2	5.8	5	4.2	4	3.7	2.9	3.5	2.3	2.8	3.6	3.6	3.5	3
7	2.6	2.7	2.9	2.5	2.6	2.5	4.1	4.4	5.2	5.2	4.8	5.2	4.8	4.5	5.8	3.1	2.8	3.9	3.2	2.5	4.4	3.5	3	3.7	3.7
8	4.2	4.9	3.8	4.3	3.8	3.9	4.4	3.5	3.6	4.1	4.9	4.2	5.5	5.7	3.8	3.6	2.7	1.8	0.5	0.8	0.3	1.2	1.5	1.1	3.2
9	1.2	1.7	2.8	2.5	2	2.1	2.1	2.2	2.5	1.8	2.4	2.4	2.3	2.4	2.2	2.6	2	2.8	2.8	2.4	2.1	2	1.7	1.5	2.2
10	1.7	1.5	1.7	2.5	2.5	2.4	2.3	2.6	2.4	2.7	2.3	2.1	2.1	1.9	2.3	2.2	2	2	1.9	1	0.8	0.5	1.3	2.2	2
11	1.6	1.5	2	2.3	1.9	2.5	1.9	1.8	1.4	2	2.2	2.6	2.8	2.8	2	2.1	1.6	1.2	1.8	1.5	1.6	1.5	1.5	1.7	1.9
12	1.7	2.1	2.2	2.5	2.3	2.4	2.6	2.6	3.5	2.9	2.5	2.8	3	3.6	3.9	4.3	4	2.9	2.9	2.9	3.3	2.7	2.4	2.1	2.8
13	2.4	2.6	2.1	2.6	2.3	1.9	2	1.6	1.8	1.8	2.3	2	3	3.1	3.5	3.3	2.3	2.4	2.5	3	2.5	2.3	2.2	2.4	2.4
14	2.2	2.4	2.4	2.1	2	2.1	2.3	2.6	2.8	3.2	3	3.9	3.9	3.4	3.5	3.2	2.5	1.8	1.7	2.3	3.1	2.8	2.4	2.6	2.7
15	2.4	2.5	2.2	2.5	2.5	2.2	2.4	2.1	2.6	3.1	4.3	3.8	3.8	3.6	2.8	2.8	2.7	1.8	1.6	1.5	2.4	3	2.6	2.2	2.6
16	2.5	1.3	0.7	0.9	0.9	1.1	1.1	1	1.6	2.8	3	3.1	3.5	3.4	3.4	3.1	2.6	1.9	1.3	1.2	1.8	1.4	1.1	1.4	1.9
17	2.2	1.2	1.7	1.6	1.6	1.7	1.5	1.6	2.3	3.5	2.9	2.7	2.5	2.4	2.7	3.1	2.8	1.3	0.2	0.1	0.4	0.4	0.7	1.3	1.8
18	0.7	1.4	0.9	1.4	1.2	1.1	1.7	3.3	3.4	3.8	4.4	4.3	4.3	4.9	5.1	5.1	3.6	2.2	1.3	1.9	2.2	2.8	2.6	2.5	2.7
19	2.3	1.9	1.3	0.7	0.6	0.6	0.1	0	1.2	2.5	2.5	2.5	2.7	2.8	2.5	2.5	2.1	1.5	1	1.3	1.8	1.9	1.9	1.7	1.7
20	1.7	1.4	1.5	2.1	2.1	1.4	1.2	1.8	3	2	1.2	1	1.4	2.6	2.9	3.6	4.3	4.1	3.6	3.1	2.4	1.6	1.1	0.5	2.1
21	0.6	0.8	0.6	1	0.7	0.2	0	0	0.5	0.5	0.8	0.9	1.2	1.3	2.1	2.1	1.6	2	1.8	1.5	1.3	1.1	0.6	0.8	1
22	0.3	0.2	0.9	2.6	3.8	1.5	0.4	0.3	2	3.3	3	3.6	3.1	3.9	3.2	3	3.5	3.2	2.4	2.7	2.7	2.4	3.4	3	2.4
23	2.5	2.4	2.1	2.1	2.4	1.2	0.7	1.3	1.9	2.3	1.9	1.9	1.9	1.7	1.7	2.1	2.2	2.5	2.2	1.3	1.1	1.4	1.3	0.8	1.8
24	1.2	1.4	1.5	1.7	1.9	2.1	2.3	3.8	4.2	4.3	3.9	3.7	3.3	2.8	4.3	5.6	5.4	6.2	4.9	3.5	2.9	1.9	1.3	2.7	3.2
25	3.6	4.2	3.9	4.6	4.5	4.5	4.7	3.9	4.7	4.7	5.3	4.3	4	4.1	3.9	4.7	3.6	2.4	2.7	2.2	1.8	3.3	5.4	3.4	3.9
26	3.1	2.9	3.1	2.3	2	2	2.1	3	3.2	3.2	3.2	4	3.2	3	2.6	2	0.9	0.2	0	0.2	0.3	0	0.4	1.3	2
27	0.7	1.1	1.3	1	1.1	1.1	1.2	1.1	2.3	2.5	1.3	0.9	0.6	1.6	1.6	1.2	1.9	1.8	1.5	1.3	1.5	1.5	1.6	2	1.4
28	2.2	1.9	2.4	1.9	1.7	1.1	1	0.9	0.2	0.2	1	2.4	3.4	4.5	3.7	3.8	3.3	2.4	1.9	1.8	1.5	1.4	2	1.7	2
29	1.2	1.3	0.7	1.1	1.4	1.3	1.1	1.3	1.9	2.5	3	3.4	3.4	3.6	4	3.1	3.1	1.7	0.7	0.5	0.6	0.4	0.7	1.7	1.8
30	1.9	2	2	1.7	1.3	1.3	1.3	1.4	1.4	1.6	2.1	3.1	2.9	1.9	1.6	1.7	1.1	0.5	0.2	0.6	0.7	1.1	1.3	1.2	1.5
31	1.1	0.4	0.6	0.2	0.6	0.3	0.3	0.2	0.8	0.9	1	1.7	2.3	2.3	2.3	1.9	1.3	1.7	1.4	1.3	0.9	1	1	0.8	1.1
Avg	1.8	1.8	1.7	1.8	1.8	1.7	1.7	1.9	2.4	2.8	2.9	3	3.1	3.3	3.2	3.1	2.7	2.2	1.9	1.7	1.7	1.7	1.7	1.8	2.2
S D	1	1	0.9	1	1	0.9	1.1	1.1	1.2	1.2	1.2	1.2	1.1	1.1	1	1	1	1.1	1.1	0.9	1	0.9	1.1	0.9	0.7
S/A	0.55	0.58	0.53	0.54	0.52	0.57	0.67	0.61	0.48	0.42	0.43	0.38	0.37	0.33	0.32	0.32	0.38	0.49	0.58	0.51	0.55	0.57	0.63	0.51	0.32
Min	0.3	0.2	0.4	0.2	0.6	0.2	0	0	0.2	0.2	0.8	0.9	0.6	1.3	1.6	1.2	0.9	0.2	0	0.1	0.3	0	0.4	0.2	1
Max	4.2	4.9	3.9	4.6	4.5	4.5	4.7	4.4	5.2	5.2	5.3	5.2	5.8	5.7	5.8	5.6	5.4	6.2	4.9	3.5	4.4	3.6	5.4	3.7	3.9
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% 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

October 2005

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	18	3	3	25	11	5	32	35	60	69	62	61	66	75	68	57	56	52	58	72	68	69	68	50	56
2	13	20	0	353	357	356	350	358	16	28	24	49	45	53	53	48	46	33	360	356	8	0	8	8	32
3	350	351	346	355	2	355	5	344	4	31	47	37	42	55	63	55	44	37	35	4	3	7	24	38	32
4	20	355	2	347	348	356	354	19	44	51	43	55	51	51	50	48	49	64	63	64	55	66	57	61	43
5	68	66	64	60	60	62	50	54	61	54	54	64	59	62	69	68	36	53	60	60	62	56	52	49	60
6	58	55	54	61	65	73	62	74	87	105	111	114	105	102	110	98	96	86	98	92	98	104	107	110	97
7	103	102	102	108	124	112	115	118	123	124	123	124	126	126	131	164	161	156	152	159	154	154	141	150	131
8	149	151	148	149	149	138	154	143	161	137	133	132	123	144	200	226	232	222	203	211	195	177	181	181	156
9	204	249	353	355	2	6	24	23	23	24	24	27	35	15	9	23	21	34	15	2	6	357	350	347	11
10	354	351	345	357	357	2	14	9	6	359	3	14	6	5	353	8	348	357	350	15	11	4	346	347	360
11	6	0	341	354	4	5	12	15	10	356	3	2	358	356	3	354	360	348	341	350	355	354	352	357	358
12	357	351	351	355	2	350	350	353	2	7	13	358	344	346	341	344	336	339	332	334	334	336	326	312	346
13	318	314	307	314	304	299	295	295	295	297	301	302	304	304	306	298	300	301	306	310	311	305	307	304	305
14	304	306	304	303	299	293	295	297	308	307	311	315	313	319	321	320	319	311	308	312	315	311	307	303	309
15	301	288	287	294	292	286	282	286	294	297	304	302	292	309	304	270	276	253	233	219	223	226	259	305	283
16	328	312	293	268	281	267	267	274	283	294	305	303	286	281	279	286	286	294	287	291	312	311	298	291	292
17	309	283	290	284	296	295	285	294	300	309	316	309	275	266	256	246	238	237	219	201	207	208	213	223	279
18	220	221	201	208	202	213	215	227	232	235	234	231	236	232	233	230	226	219	209	216	221	225	227	228	227
19	235	240	246	263	293	343	341	63	60	83	96	126	161	191	198	200	197	199	191	194	192	192	201	203	187
20	207	209	212	220	223	218	218	220	230	236	252	276	241	81	60	49	42	45	49	56	58	49	48	32	67
21	353	16	25	15	56	29	322	14	123	164	204	175	263	280	261	295	301	333	350	333	350	338	46	65	325
22	80	154	158	167	172	163	157	162	200	220	213	231	202	206	200	213	232	286	289	282	286	289	288	285	230
23	283	283	285	290	303	280	235	279	325	16	25	8	18	49	73	85	87	91	92	73	75	69	67	54	16
24	69	57	63	49	62	59	60	58	59	63	70	67	66	55	60	60	62	66	62	53	50	34	297	288	58
25	300	303	295	289	290	286	280	282	273	270	273	273	264	264	263	258	255	234	234	243	245	263	266	267	272
26	269	261	259	259	244	238	236	261	280	291	306	293	290	290	297	297	284	282	309	315	320	0	305	324	278
27	305	306	307	311	317	309	316	329	349	2	1	64	331	92	92	110	55	45	33	17	21	8	350	356	6
28	356	352	8	355	355	331	346	14	34	0	339	352	8	18	17	4	353	337	325	322	311	313	310	313	351
29	305	307	310	309	298	281	289	297	301	302	302	313	298	295	310	300	308	312	286	247	238	230	224	238	297
30	253	261	266	274	282	286	272	291	290	290	298	314	323	310	296	306	279	247	222	221	230	227	242	248	282
31	252	220	218	220	234	225	215	249	258	264	242	222	206	190	191	187	157	131	146	174	188	190	185	171	196
Avg	312	307	317	317	315	322	321	335	344	355	357	0	353	9	358	342	348	18	22	355	347	317	296	299	343
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

October 2005

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	1.6	1.5	1.8	1.8	1.7	1.2	1.6	2.2	4.4	5.4	4.8	4.5	4.3	5	5	5	5	3.4	2.8	1.9	2.2	2	1.6	0.9	3
2	0.6	1.4	1.4	1.3	1.9	2.5	2	2.3	3.2	5	5.6	5.6	5.7	6.4	6.5	6.4	5	3.8	2.3	2.8	2.2	1.7	1.5	1.4	3.3
3	1.5	1.5	1.4	2	2	1.7	1.9	2.5	3	3.3	4	4.9	5	5.7	5.3	4.6	5.1	4.8	3.2	2.8	2.5	1.9	1.9	2.3	3.1
4	2.7	3.2	2.7	2.6	2.4	2.7	2.8	3.7	5.6	6.7	6.3	7.5	7.6	8.1	7.4	5.6	5.5	4.3	4.6	4.3	2.8	2.2	1.6	2.8	4.4
5	3.7	4.3	4	2.9	3	2.8	3.6	4.7	5.5	5	6	6.6	5.9	5.4	6.3	6.4	2.7	2.9	3.6	3.8	3.5	3.4	3.3	3	4.3
6	2.9	1.8	2.1	2	2.7	3.3	2.7	4.3	5.1	6.8	8.1	8.6	9.4	8.4	7.4	6.9	5.8	5.2	6.5	4.2	4.9	5.9	6	5.7	5.3
7	4.4	4.5	4.9	4.6	4.4	4.6	7	8.1	8.3	8.4	7.9	8.7	7.7	7.7	9.8	5.7	5.4	6.8	5.6	4.8	7.4	6.3	5.4	6.5	6.4
8	7.5	8.4	6.8	7.7	6.5	6.5	7.5	6	6.6	6.8	8.3	7.4	9.1	10	6.8	6.4	4.6	3.3	1.9	2.3	1.3	3.2	3.2	2.6	5.9
9	2.8	3.5	4.8	4.5	3.9	4.2	3.9	4.1	4.7	3.7	4.5	4.4	4.4	4.7	4.4	4.8	3.9	5.2	5	4.4	3.9	4	3.3	3.3	4.2
10	3.5	3.2	3.5	4.4	4.7	4.3	4.8	4.7	4.6	4.6	4.4	3.9	4	3.9	4.3	4.5	3.8	4	3.7	2.4	2.2	1.7	2.6	3.9	3.8
11	3.3	2.9	3.7	4.2	3.8	4.6	3.9	3.7	3.1	4.1	4.3	4.7	5	4.8	4	4	3.3	2.8	3.4	3.2	3.4	3.2	3.1	3.6	3.7
12	3.4	4	4.2	4.7	4.5	4.5	4.8	5.2	6.7	5.9	5	5.3	5.8	6.2	7	7.2	7.3	5.5	5.4	5.7	6.1	5.4	4.4	4.8	5.4
13	4.8	5	4.4	5.1	4.8	4.6	4.6	4	4.6	4.2	5.5	4.8	6.2	6.4	6.5	6.3	5.4	5.1	5.6	6.3	5.8	5.2	5.3	5.6	5.3
14	5.6	5.5	5.4	4.7	4.9	4.9	4.7	5.5	6	7	6.4	7.5	7.7	6.6	6.8	6.1	5	3.6	3.9	4.6	6	5.7	4.7	5.5	5.6
15	4.5	4.8	4.4	4.9	5	4.1	4.6	4.3	5.5	6.5	8.3	7.2	7.8	8	5.4	5.5	5.3	3	2.4	2.5	3.8	4.3	4.5	4.2	5
16	4.3	2.5	1.6	1.6	1.7	1.8	1.9	2.2	3.3	5.7	6.3	6	6.6	6.9	6.3	6	5.2	3.7	2.7	2.4	3.1	2.5	2.2	2.8	3.7
17	4.2	2.4	3	3.2	3.2	3.5	2.8	3.4	4.6	7.1	5.7	5.2	5.2	4.9	5.4	5.3	4.4	2	0.6	0.6	0.9	0.9	1.3	1.9	3.4
18	1.4	2.2	1.6	2.4	2.1	1.8	2.8	5	5.4	6.3	6.9	6.7	6.9	8.2	8.3	7.8	5.5	3.6	2.3	3.2	3.3	4.1	4	3.8	4.4
19	3.5	2.9	2.1	1.5	1.2	1.1	0.6	0.1	2.1	4	4.1	4.4	4.9	5.1	4.6	4.7	4	3.1	2.4	2.7	3.4	3.4	3.5	3.3	3
20	3.1	2.8	2.7	3.6	3.1	2.2	2	3.1	4.9	3.6	2.6	2.4	2.9	4.1	4.6	5.9	6.8	6.8	6	5.4	4.2	2.7	2	1.3	3.7
21	1.3	1.7	1.4	2	1.5	0.6	0.1	0	1.1	1.5	1.7	2.1	2.7	2.9	3.9	3.7	3.4	3.5	3.4	2.8	2.6	2.3	1.6	1.8	2.1
22	1	0.7	2	4.8	7.7	3.2	1.3	1.3	4.1	5.5	4.9	6	5.4	6.6	5.7	5.2	5.8	6.4	4.9	5.4	5.2	4.9	6.9	5.7	4.6
23	4.9	5.3	4	4.2	5	2.5	1.4	2.6	3.8	3.9	3.8	3.8	3.7	3.6	3.6	3.6	3.7	4.1	4	2.4	1.7	2.2	2.5	1.6	3.4
24	2.4	2.4	3	2.9	3.4	3.7	4.2	6.4	7.3	7.6	6.8	6.6	6.1	5.3	7.4	10.4	10.1	11	9	6.4	6.1	4.2	3	5.8	5.9
25	7.2	8.6	8.5	9.7	9.3	9.1	9.1	8.2	9.4	8.4	10	8.5	8	7.9	7.6	8.2	6.2	3.8	4.2	3.6	3.1	6	10.1	6.2	7.5
26	5.9	5	5.6	4	3.4	3.2	3.2	5.2	6.4	6.3	6.8	7.6	6.1	6.2	5	4.4	2	0.5	0.1	0.7	0.9	0	1.1	2.5	3.8
27	1.7	1.9	2.2	1.8	2.1	2	2.1	2.4	4.2	4.4	2.5	1.9	1.8	3.3	2.6	1.9	3.4	3.3	2.6	2.5	2.8	2.7	2.7	3.4	2.6
28	3.8	3.4	4.2	3.2	3.1	2.4	2.2	2	0.6	0.9	2.7	4.3	6.2	8.1	6.6	6.7	5.7	4.6	3.5	3.2	2.9	2.7	3.8	3.3	3.8
29	2.3	2.7	1.7	2.4	3.1	2.3	2.5	3.1	3.9	4.5	5.8	6.2	6.8	7.3	7.9	6.3	6.2	3.4	1.5	0.8	1.1	0.8	1.2	2.3	3.6
30	2.7	3.1	3.2	3.2	2.7	2.6	2.3	2.8	3	3.4	4.3	6	5.3	4	3.5	3.4	2.3	1	0.6	1	1.1	1.5	1.8	1.8	2.8
31	1.6	0.8	1	0.4	1.1	0.6	0.6	0.5	1.6	2	2.1	3	4.3	4.3	4.3	3.4	2.3	2.5	2.3	2.3	1.8	1.8	1.9	1.6	2
Avg	3.4	3.4	3.3	3.5	3.5	3.2	3.2	3.7	4.6	5.1	5.4	5.6	5.8	6	5.8	5.6	4.8	4.1	3.6	3.3	3.3	3.2	3.3	3.4	4.2
S D	1.7	1.9	1.7	1.9	1.9	1.8	2	2	2	1.9	2	1.9	1.8	1.8	1.6	1.7	1.7	1.9	1.9	1.6	1.7	1.7	2	1.6	1.3
S/A	0.52	0.57	0.52	0.54	0.53	0.55	0.64	0.55	0.43	0.37	0.37	0.34	0.31	0.3	0.28	0.3	0.34	0.47	0.53	0.48	0.52	0.53	0.6	0.48	0.31
Min	0.6	0.7	1	0.4	1.1	0.6	0.1	0	0.6	0.9	1.7	1.9	1.8	2.9	2.6	1.9	2	0.5	0.1	0.6	0.9	0	1.1	0.9	2
Max	7.5	8.6	8.5	9.7	9.3	9.1	9.1	8.2	9.4	8.4	10	8.7	9.4	10	9.8	10.4	10.1	11	9	6.4	7.4	6.3	10.1	6.5	7.5
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928

Data Recovery: 0.0% missing; 0.0% 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

October 2005

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	1020	1020	1020	1021	1021	1022	1022	1023	1023	1024	1024	1024	1024	1023	1023	1023	1023	1023	1024	1024	1024	1024	1024	1024	1024	1023
2	1024	1024	1024	1024	1024	1025	1025	1026	1026	1026	1026	1026	1025	1025	1025	1025	1025	1025	1024	1025	1025	1025	1025	1024	1024	1025
3	1024	1023	1023	1023	1023	1024	1024	1025	1025	1025	1025	1025	1024	1024	1024	1023	1023	1023	1023	1023	1023	1023	1024	1023	1023	1024
4	1023	1022	1022	1022	1022	1022	1022	1022	1023	1023	1023	1023	1022	1021	1021	1021	1021	1021	1021	1022	1022	1022	1022	1022	1021	1022
5	1021	1021	1021	1021	1021	1022	1022	1022	1022	1022	1022	1022	1021	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1019	1021
6	1019	1019	1019	1019	1019	1018	1018	1018	1018	1018	1018	1018	1017	1017	1016	1016	1015	1015	1015	1015	1015	1015	1015	1015	1014	1017
7	1014	1013	1013	1012	1012	1012	1012	1012	1012	1012	1011	1010	1010	1009	1008	1008	1008	1008	1008	1008	1008	1008	1008	1007	1006	1010
8	1006	1005	1005	1005	1004	1004	1004	1004	1004	1004	1003	1003	1001	1000	1000	1001	1001	1002	1002	1003	1004	1004	1005	1005	1003	1003
9	1005	1005	1006	1006	1007	1007	1008	1009	1009	1010	1010	1010	1010	1009	1010	1010	1010	1011	1011	1011	1012	1012	1012	1012	1009	1009
10	1011	1011	1011	1011	1011	1012	1012	1012	1012	1013	1013	1013	1012	1012	1011	1011	1011	1011	1012	1012	1012	1012	1012	1012	1012	1012
11	1012	1011	1011	1011	1011	1012	1012	1013	1013	1013	1013	1012	1012	1012	1012	1012	1012	1013	1013	1013	1014	1014	1014	1014	1013	1012
12	1013	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014	1013	1013	1013
13	1013	1013	1012	1012	1012	1012	1012	1012	1013	1012	1012	1012	1011	1011	1010	1010	1010	1010	1010	1010	1011	1011	1011	1010	1010	1011
14	1010	1009	1009	1009	1009	1009	1010	1010	1010	1010	1010	1009	1009	1008	1008	1008	1008	1008	1008	1008	1008	1008	1008	1008	1008	1009
15	1007	1006	1006	1006	1006	1006	1007	1007	1007	1007	1006	1006	1005	1004	1004	1004	1004	1004	1005	1005	1005	1005	1006	1006	1006	1006
16	1007	1007	1008	1008	1008	1009	1009	1010	1010	1011	1010	1010	1009	1008	1008	1007	1008	1008	1008	1008	1009	1009	1010	1010	1010	1009
17	1010	1010	1010	1010	1010	1011	1011	1012	1012	1012	1012	1011	1011	1010	1009	1009	1009	1009	1010	1010	1010	1011	1010	1010	1010	1010
18	1010	1010	1010	1009	1009	1010	1010	1010	1010	1010	1010	1009	1009	1008	1007	1007	1007	1008	1008	1009	1010	1010	1010	1010	1011	1009
19	1011	1011	1012	1012	1012	1013	1013	1013	1014	1014	1014	1013	1012	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1012
20	1011	1011	1011	1011	1011	1011	1011	1012	1012	1013	1013	1012	1011	1011	1011	1011	1012	1012	1013	1013	1013	1013	1013	1012	1012	1012
21	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1012	1011	1010	1010	1010	1010	1010	1010	1010	1010	1010	1009	1008	1011	1011
22	1007	1007	1007	1005	1004	1004	1003	1003	1004	1004	1003	1003	1001	1000	1000	1000	1000	1000	1001	1002	1003	1003	1004	1004	1003	1003
23	1005	1006	1006	1006	1006	1007	1008	1009	1010	1010	1010	1010	1009	1009	1009	1009	1010	1010	1010	1011	1011	1011	1010	1010	1009	1009
24	1010	1009	1008	1008	1008	1007	1006	1006	1005	1005	1004	1002	1001	1000	998	997	996	995	995	994	994	994	993	992	1001	1001
25	991	991	991	992	992	993	994	995	997	997	998	998	998	998	998	999	1000	1000	1001	1002	1002	1003	1004	1004	997	997
26	1005	1005	1006	1007	1008	1009	1010	1011	1012	1012	1013	1013	1013	1013	1013	1014	1014	1015	1016	1016	1017	1017	1018	1018	1012	1012
27	1018	1019	1019	1019	1019	1020	1020	1021	1021	1021	1021	1021	1020	1019	1019	1019	1019	1020	1020	1021	1021	1021	1022	1021	1020	1020
28	1021	1021	1020	1020	1020	1021	1021	1022	1022	1022	1021	1021	1021	1021	1021	1021	1021	1021	1021	1022	1022	1022	1022	1023	1023	1021
29	1022	1022	1022	1022	1023	1023	1024	1024	1025	1025	1025	1024	1023	1022	1022	1022	1022	1023	1023	1023	1024	1024	1024	1024	1023	1023
30	1024	1024	1024	1024	1025	1025	1025	1026	1027	1027	1026	1026	1025	1024	1024	1024	1024	1024	1024	1025	1025	1025	1025	1025	1025	1025
31	1025	1025	1024	1024	1024	1024	1025	1025	1026	1026	1025	1025	1024	1023	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1023
Avg	1013	1013	1013	1013	1013	1013	1014	1014	1015	1015	1014	1014	1013	1013	1013	1012	1013	1013	1013	1013	1014	1014	1014	1013	1013	1013
S/D	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8	8
S/A	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Min	991	991	991	992	992	993	994	995	997	997	998	998	998	998	998	997	996	995	995	994	994	994	993	992	997	997
Max	1025	1025	1024	1024	1025	1025	1025	1026	1027	1027	1026	1026	1025	1025	1025	1025	1025	1025	1024	1025	1025	1025	1025	1025	1025	1025
n	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	372	8928	

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

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

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

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

Prepared by: Afshin M. Andreas, NREL

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

October 2005

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

Prepared by: Afshin M. Andreas, NREL