

September 2011

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	18	130	322	526	700	841	914	920	855	732	553	339	128	16	0	0	0	0	0	6994
2	0	0	0	0	0	10	70	183	335	374	657	813	825	805	661	490	241	55	6	0	0	0	0	0	5524
3	0	0	0	0	0	12	90	283	388	609	776	845	854	804	686	511	310	113	14	0	0	0	0	0	6295
4	0	0	0	0	0	10	85	242	470	643	782	859	879	820	662	516	316	112	8	0	0	0	0	0	6404
5	0	0	0	0	0	11	99	214	348	559	681	543	482	525	225	243	233	64	12	0	0	0	0	0	4241
6	0	0	0	0	0	5	84	248	381	387	690	849	778	719	625	508	242	70	8	0	0	0	0	0	5595
7	0	0	0	0	0	5	80	278	491	676	585	475	599	532	332	323	147	48	6	0	0	0	0	0	4577
8	0	0	0	0	0	12	83	67	376	707	604	616	824	858	336	454	189	26	9	0	0	0	0	0	5161
9	0	0	0	0	0	5	51	235	484	666	804	808	798	736	644	522	275	91	4	0	0	0	0	0	6123
10	0	0	0	0	0	8	86	275	470	640	732	793	869	822	566	410	268	91	6	0	0	0	0	0	6035
11	0	0	0	0	0	10	85	263	461	632	596	900	888	787	671	482	278	83	7	0	0	0	0	0	6144
12	0	0	0	0	0	1	22	76	185	553	753	734	785	403	388	180	113	4 ?	6	0	0	0	0	0	4202
13	0	0	0	0	0	8	78	279	452	624	754	824	843	784	640	462	261	78	7	0	0	0	0	0	6095
14	0	0	0	0	0	7	89	270	449	623	753	810	799	728	611	441	257	73	7	0	0	0	0	0	5920
15	0	0	0	0	0	7	81	228	440	601	739	816	720	713	602	427	237	57	0	0	0	0	0	0	5669
16	0	0	0	0	0	3	28	168	194	269	340	302	288	306	245	72	42	11	1	0	0	0	0	0	2268
17	0	0	0	0	0	2	31	44	42 ?	76	114	144	144	107	80	84	44	14	3	0	0	0	0	0	929
18	0	0	0	0	0	2	18	87	279	324	457	638	428	280	157	169	92	18	2	0	0	0	0	0	2951
19	0	0	0	0	0	3	24	194	217	572	573	536	882	827	659	459	245	49	1	0	0	0	0	0	5240
20	0	0	0	0	0	5	60	201	433	596	404	277	190	285	182	86	61	11	0	0	0	0	0	0	2791
21	0	0	0	0	0	3	36	161	358	595	704	791	684	525	447	293	145	36	0	0	0	0	0	0	4779
22	0	0	0	0	0	3	63	143	153	393	284	363	132 ?	113 ?	166 ?	?	?	4	0	0	0	0	0	0	1816 ?
23	0	0	0	0	0	5	43	142	224	333	578	684	175	659	303	77 ?	?	14	0	0	0	0	0	0	3238 ?
24	0	0	0	0	0	1	7	47 ?	84	99	89	?	?	?	48 ?	32 ?	28 ?	8	0	0	0	0	0	0	443 ?
25	0	0	0	0	0	1	14	38	48	81	124	133	119	69	50 ?	53 ?	20 ?	5	0	0	0	0	0	0	755 ?
26	0	0	0	0	0	1	30	81	158	380	471	280	319	202	145	96	69	7	0	0	0	0	0	0	2236
27	0	0	0	0	0	2	22	89	250	409	370	291	254	269	416	314	178	40	0	0	0	0	0	0	2902
28	0	0	0	0	0	1	20	124	355	483	633	773	752	687	536	159	?	2	0	0	0	0	0	0	4525
29	0	0	0	0	0	1	36	203	393	560	652	655	474	655	511	347	178	48	0	0	0	0	0	0	4713
30	0	0	0	0	0	0	49	227	305	489	695	674	736	443	453	404	191	43	0	0	0	0	0	0	4710
Avg	0	0	0	0	0	5	56	180	325	488	575	626	601	563	426	316	185	47	4	0	0	0	0	0	4309
S D	0	0	0	0	0	4	32	84	140	183	213	241	281	258	221	176	97	37	5	0	0	0	0	0	1849
S/A	0	0	0	0	0	0.81	0.56	0.47	0.43	0.37	0.37	0.39	0.47	0.46	0.52	0.56	0.52	0.79	1.12	0	0	0	0	0	0.43
Min	0	0	0	0	0	0	7	38	42	76	89	133	119	69	48	32	20	2	0	0	0	0	0	0	443
Max	0	0	0	0	0	18	130	322	526	707	841	914	920	858	732	553	339	128	16	0	0	0	0	0	6994
n	0	0	0	0	0	83	359	354	352	360	359	348	343	338	335	327	308	336	62	0	0	0	0	0	4266

Daylight Data Recovery: 0.0% missing; 0.0% untested; 4.2% exceed the 15% QC threshold -- 4451 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.

September 2011

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	*
2	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
3	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
4	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
5	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
6	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
7	0	0	0	0	0	?	?	?	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
8	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
9	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
10	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
11	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
12	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
13	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
14	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
15	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
16	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
17	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
18	0	0	0	0	0	?	?	?	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
19	0	0	0	0	0	?	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
20	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
21	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
22	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
23	0	0	0	0	0	?	?	?	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
24	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
25	0	0	0	0	0	?	?	?	?	?	*	*	*	*	*	?	?	?	0	0	0	0	0	0	?
26	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
27	0	0	0	0	0	*	*	*	*	*	*	?	*	*	*	*	?	?	0	0	0	0	0	0	*
28	0	0	0	0	0	*	*	*	*	*	?	?	?	?	?	?	*	*	0	0	0	0	0	0	?
29	0	0	0	0	0	?	?	*	*	*	*	?	?	?	?	?	?	*	0	0	0	0	0	0	?
30	0	0	0	0	0	0	*	*	*	*	*	?	?	?	?	?	?	?	0	0	0	0	0	0	?

Avg	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	*?
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	0
Max	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	0	N/A	0
n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 88.4% missing; 0.0% untested; 11.6% exceed the 15% QC threshold -- 4451 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.

September 2011

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	11	34	47	59	69	70	73	73	73	71	67	65	48	13	0	0	0	0	0	774
2	0	0	0	0	0	11	69	147	259	348	356	374	338	333	244	212	174	55	6	0	0	0	0	0	2926
3	0	0	0	0	0	12	48	95	266	185	163	179	168	152	140	126	97	53	12	0	0	0	0	0	1695
4	0	0	0	0	0	12	61	116	144	152	140	132	102	91	109	95	76	47	8	0	0	0	0	0	1287
5	0	0	0	0	0	9	63	171	216	235	342	440	436	376	225	239	200	59	12	0	0	0	0	0	3024
6	0	0	0	0	0	5	51	165	276	287	278	198	222	245	167	135	106	42	8	0	0	0	0	0	2185
7	0	0	0	0	0	6 ?	62	100	117	267	400	382	412	342	281	200	114	41	6	0	0	0	0	0	2729
8	0	0	0	0	0	15 ?	77	67	281	281	434	425	345	263	242	240	113	26	9	0	0	0	0	0	2816
9	0	0	0	0	0	6 ?	51	111	85	99	103	195	240	246	185	122	94	37	4	0	0	0	0	0	1577
10	0	0	0	0	0	9 ?	39	73	91	102	116	201	166	149	200	157	96	42	5	0	0	0	0	0	1447
11	0	0	0	0	0	9	43	80	98	112	211	247	260	154	125	93	78	40	7	0	0	0	0	0	1555
12	0	0	0	0	0	1	22	76	148	308	286	360	302	238	242	155	97	4 ?	6	0	0	0	0	0	2245
13	0	0	0	0	0	8 ?	39	75	95	117	133	142	166	167	135	104	77	38	7	0	0	0	0	0	1303
14	0	0	0	0	0	6	39	77	100	114	131	207	243	277	221	143	123	44	7	0	0	0	0	0	1732
15	0	0	0	0	0	9 ?	47	111	137	200	190	309	272	253	205	169	104	34	0	0	0	0	0	0	2039
16	0	0	0	0	0	4 ?	28	165	194	269	338	300	288	300	239	72	42	11	1	0	0	0	0	0	2251
17	0	0	0	0	0	3 ?	31	44	37	76	114	144	144	107	80	79	40	14	3	0	0	0	0	0	916
18	0	0	0	0	0	2	18	87	265	319	432	493	398	273	157	169	92	18	2	0	0	0	0	0	2725
19	0	0	0	0	0	3	24	139	215	319	315	269	166	191	154	151	96	30	1	0	0	0	0	0	2073
20	0	0	0	0	0	6 ?	52	87	156	277	352	277	190	284	182	86	61	11	0	0	0	0	0	0	2021
21	0	0	0	0	0	5 ?	36	117	202	155	215	291	402	256	252	223	133	35	0	0	0	0	0	0	2323
22	0	0	0	0	0	5 ?	52	137	153	321	257	206	132 ?	81 ?	125 ?	?	?	4	0	0	0	0	0	0	1473 ?
23	0	0	0	0	0	?	43	128	211	293	399	349	174	347	270	50 ?	16 ?	14	0	0	0	0	0	0	2294
24	0	0	0	0	0	1	7	38 ?	84	99	85	44	43	38	39	29	25	9	0	0	0	0	0	0	542
25	0	0	0	0	0	0	14	38	46	81	124	133	119	67	39	46	18	5	0	0	0	0	0	0	731
26	0	0	0	0	0	1	30	81	158	340	374	280	317	202	145	96	69	7	0	0	0	0	0	0	2098
27	0	0	0	0	0	?	22	89	239	321	317	291	254	246	272	241	88	25	0	0	0	0	0	0	2405
28	0	0	0	0	0	?	20	113	204	337	233	172	147	124	140	94	27 ?	2	0	0	0	0	0	0	1613
29	0	0	0	0	0	?	25	104	127	172	187	274	298	245	205	140	105	31	0	0	0	0	0	0	1913
30	0	0	0	0	0	0	26	67	142	167	227	243	182	201	193	182	75	31	0	0	0	0	0	0	1736
Avg	0	0	0	0	0	6	39	98	160	214	244	254	233	211	176	135	86	29	4	0	0	0	0	0	1882
S D	0	0	0	0	0	4	17	37	72	96	112	108	105	92	68	61	42	17	4	0	0	0	0	0	656
S/A	0	0	0	0	0	0.67	0.44	0.38	0.45	0.45	0.46	0.43	0.45	0.44	0.38	0.45	0.49	0.6	1.08	0	0	0	0	0	0.35
Min	0	0	0	0	0	0	7	38	37	69	70	44	43	38	39	29	16	2	0	0	0	0	0	0	542
Max	0	0	0	0	0	15	77	171	281	348	434	493	436	376	281	241	200	59	13	0	0	0	0	0	3024
n	0	0	0	0	0	63	359	355	360	360	360	360	355	351	355	342	331	341	62	0	0	0	0	0	4355

Daylight Data Recovery: 0.0% missing; 0.0% untested; 2.2% exceed the 15% QC threshold -- 4451 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.

September 2011

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	17.7	17.6	16.9	16.6	16.5	16	17	19.9	22	23.7	24.8	25.4	25.6	25.9	25.9	25.7	25	23.9	22.4	21.5	20.8	20.4	19.9	19.3	21.3
2	18.7	18.5	18.6	18.4	18	18.7	19.6	21.1	22.7	23.5	24.7	25.7	25.9	26.4	26.4	26.2	25.4	24.2	23.2	21.9	21.2	20.8	20.5	20.1	22.1
3	20	19.1	18.2	17.8	18.1	18.6	19.6	21.4	23.1	24.8	26.3	27.6	28	27.6	26.9	26.4	26.1	25.2	23.9	22.9	22.3	21.8	21.5	21.1	22.8
4	20.9	20.8	20.3	19.7	19.4	19.1	19.7	21.5	23.7	26	27.3	28.4	29.4	29.8	30.1	30.1	28.3	27.2	26.4	26	25.2	24.7	24.4	23.9	24.7
5	23.5	23	22.5	22.3	22.1	21.8	22.6	24.3	25.8	27	28.2	28.5	28.7	28.8	27.4	27.3	28.1	27.9	27	26.4	26	25.9	25.8	25.6	25.7
6	25.6	25.7	25.6	25.4	25.5	25.4	25.6	26.7	27.8	28.7	29.9	30.9	31.4	31.6	31.4	31.2	30	28.5	27.5	27.1	26.7	26.6	26.6	26.4	27.8
7	26.3	26.2	26.2	26.2	26.2	26	26	27	28.1	29	29.7	29.3	28.8	28.8	29.1	29.7	29.6	28.9	27.8	26.7	26.2	25.7	25.6	25.5	27.5
8	25.2	24.9	24.9	24.6	24.5	24.2	24.5	24.9	25.9	27.8	28.4	29	29.9	29.7	28.4	28.4	27.9	27.4	26.4	25.7	25.5	25.2	25	24.9	26.4
9	24.2	24	23.8	23.4	22.8	22	21.7	21.9	24.2	26.8	27.7	28.4	28.7	28.8	29	29.4	28.9	28.1	26.1	24.7	24	22.8	22.7	21.8	25.2
10	21.2	20.8	20.5	20.2	19.9	19.8	20.3	22	24.3	26.6	28	29.6	30.1	30.9	30.7	30.6	30.5	29.7	27.7	26.2	24.8	24.2	23.6	22.5	25.2
11	21.6	21.6	21.4	21.1	20.6	20.2	20.9	22.7	25.3	27.8	29.3	30.2	30.4	30.9	31	30.9	30.3	28.8	27.5	26	25.1	24.5	23.9	23.3	25.6
12	22.5	22	21.6	21	21.2	21.2	21.5	21.8	22.5	25.5	28.2	29.5	30.2	29.6	29.7	27.9	23.3	20.3	19.9	20.5	20.5	20.9	19.9	19.6	23.4
13	19.3	18.8	18.9	18.8	18.3	18.1	18.7	21	22.9	24.3	26	27.5	28.7	28.9	28.9	29	28.3	27	25.7	24.8	24.2	23.6	23.1	22.8	23.6
14	22.5	22.1	21.7	21.3	21.1	20.9	21.1	22.8	24.6	27.4	28.6	29.6	29.8	30.5	30.2	29.8	28.7	27.3	25.6	24.7	24.4	23.8	23.3	22.8	25.2
15	22.2	21.6	21	21	20.5	20.3	20.8	22.5	24.9	26.9	28.3	29.5	29.8	30.4	30.5	30.7	30.5	29.4	27	22.1	19.3	18.2	17.1	16.4	24.2
16	16.4	16.2	15.7	15.3	15.3	15.3	15.3	15.7	16.2	16.7	17.4	17.5	17.8	18.1	18.2	17.7	16.9	16.3	16.2	16.6	16.1	16.3	16	15.5	16.5
17	15.3	15.4	15.5	15.4	15.6	15.7	16	16.3	16.7	17.1	17.3	16.7	16.8	16.8	16.4	16.2	16.1	16.3	16.2	16.6	17	16.7	16.9	17	16.3
18	16.7	16.6	16.6	16.5	16.7	16.8	17.1	17.4	18.7	19.8	20.6	21.4	21	20.8	19.5	19.8	19	18	17.6	17.7	17.8	17.7	17.5	17.4	18.3
19	17	16.9	16.6	16.5	16.8	17	17	17.9	19.2	20.9	21.9	22.3	23.2	23.6	23.7	23.2	22.3	20.9	19.7	19.1	18.9	18.7	18.5	18.6	19.6
20	18.8	18.4	18.5	18.2	17.8	17.4	18.3	19.9	21.9	23.6	25	25.3	24.8	25.5	25.7	24.4	23.8	23.2	22.1	21.7	21.6	21.3	21.2	21.2	21.7
21	21.3	21.2	21.1	21	20.9	21	21	21.8	23.1	24.7	25.4	26.4	26.6	26.3	25.9	25.7	25.1	24.1	23.5	23	22.7	22.8	23	23.1	23.4
22	22.8	22.9	22.9	22.7	22.3	22	22.2	23.4	23.9	25.5	26.6	26.5	25.8	24	23.4	22.4	21.6	21.4	21.5	21.8	22	22.1	22.5	22.9	23.1
23	22.9	22.7	22.5	22.3	22.2	22.3	22.3	22.8	23.5	25	26.9	28	27.9	27.7	28.4	25.7	23	22.9	22.9	23	23	22.9	22.8	22.7	24
24	22.7	22.5	22.1	21.8	21.4	21.4	21.5	21.6	21.7	22.3	22.7	22.7	22.6	22.8	22.9	22.7	22.5	22.2	22.1	21.9	21.9	21.6	21.4	21.3	22.1
25	21.2	21.2	21.4	21.4	21.5	21.7	21.8	21.8	21.9	22	22.2	22.5	22.8	23	22.9	22.7	22.6	22.6	22.4	22.3	22.2	21.9	21.6	21.5	22
26	21.5	21.6	21.8	21.7	21.7	21.7	21.8	22.2	22.7	24	25.6	26	26.7	26.6	26.1	26	25.7	24.2	23.8	23.8	23.5	23.5	23.4	22.9	23.7
27	22.5	22.1	21.8	22	22.5	22.7	22.7	22.9	23.9	25.5	26.3	26.1	26.3	26.1	27	26.8	26.9	26.2	25	24.3	23.9	23.6	23.3	23.1	24.3
28	23	22.7	22.5	22.4	22.4	22.3	22.3	22.9	24.4	25.7	26.4	27.4	28.9	29.5	29.2	27.6	24	21.2	20.6	21	20.8	21	21	21	23.8
29	21.1	21.9	22.6	21.1	20.2	20.1	20.3	21.3	23.3	24.6	26.4	27.2	27.2	27.5	27.7	27.7	27.2	26.7	24.6	23.3	22.2	21.8	21	20.4	23.6
30	20	19.6	19.4	19.1	19.5	19.7	19.9	21.2	22.9	25	26.6	27.6	28.1	28.1	28.6	29.1	28.7	27.1	25	22.8	19	17.1	15.7	15.4	22.7
Avg	21.1	20.9	20.8	20.5	20.4	20.3	20.6	21.7	23.1	24.6	25.8	26.4	26.7	26.8	26.7	26.4	25.6	24.6	23.6	22.9	22.3	21.9	21.6	21.3	23.2
S D	2.8	2.7	2.8	2.8	2.8	2.7	2.6	2.5	2.7	3	3.2	3.5	3.6	3.7	3.8	3.9	3.9	3.8	3.3	2.8	2.8	2.8	2.9	2.9	2.8
S/A	0.13	0.13	0.13	0.14	0.14	0.13	0.12	0.12	0.12	0.12	0.13	0.13	0.14	0.14	0.14	0.15	0.15	0.15	0.14	0.12	0.12	0.13	0.13	0.14	0.12
Min	15.3	15.4	15.5	15.3	15.3	15.3	15.3	15.7	16.2	16.7	17.3	16.7	16.8	16.8	16.4	16.2	16.1	16.3	16.2	16.6	16.1	16.3	15.7	15.4	16.3
Max	26.3	26.2	26.2	26.2	26.2	26	26	27	28.1	29	29.9	30.9	31.4	31.6	31.4	31.2	30.5	29.7	27.8	27.1	26.7	26.6	26.6	26.4	27.8
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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.

September 2011

Relative Humidity (Roof)
Hourly and Daily Averages
Instrument: CSI HMP-35C
Percent

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	103.1	103.4	104.8 ?	? ?	? ?	? ?	103.6 ?	98.8	94.2	80.7	69	67.5	67	69.7	70.8	73.5	80.7	85.9	94	99.4	102.5	104.7 ?	? ?	? ?	88.1 ?	
2	? ?	? ?	? ?	? ?	? ?	? ?	? ?	103.7 ?	98.5	93.8	79.6	72.5	70.2	67.8	69.3	70.9	71.4	75.7	82.6	92.5	98.4	102.3	102.9	103.4	85.6 ?	
3	104.4	105 ?	? ?	? ?	? ?	? ?	? ?	101.6	84.9	78.1	73	67.6	63.3	66.7	69.9	69	67.5	70.9	74.5	78.7	90.6	96.6	100.3	103.6	82.4 ?	
4	105 ?	? ?	? ?	? ?	? ?	? ?	? ?	? ?	95.7	74.2	66.1	60	51.4	53.6	62.9	68.9	83.6	90.8	96.6	95.6	101	103.4	103.9	104.1	83.3 ?	
5	104.7	? ?	? ?	? ?	? ?	? ?	? ?	103	98.1	92.9	86.6	84.9	84.6	82.8	89.9	93.5	90.9	92.5	96.8	99.1	102.2	103.7	104	104.6 ?	95.3 ?	
6	104.7 ?	104.5	104.8	? ?	? ?	? ?	104.7 ?	102.8	99.5	96	90.6	84.6	83.3	83.7	85.1	86.6	92.8	98.2	100.7	101.2	102.2	103.7	104.2	104	97 ?	
7	104.1	104.2	104	104	104.2	104.4	104.3	99.4	94.1	89.4	87.1	88	88.8	91.1	91.3	86.6	87	85.6	90.7	99.3	102	104.4 ?	104.9 ?	? ?	96.5	
8	? ?	? ?	? ?	? ?	? ?	? ?	? ?	? ?	103.9 ?	98.4	94.4	91.7	87.8	92	97.3	98.7	98.8	99.9	103.2 ?	? ?	104.9 ?	105 ?	? ?	105 ?	98.7 ?	
9	? ?	? ?	? ?	? ?	? ?	? ?	? ?	? ?	95.1	71	61.5	61.8	62.8	62.6	62.9	59.5	61.5	64.9	73.7	80.3	82.1	89.9	92.3	99.2	73.8 ?	
10	102.2	103.8	104.6	104	103.9	103.4	101.7	97.1	89.8	82.6	76.6	64.9	60.7	56.5	57.7	58.7	60.3	64.5	74.3	83.2	91.6	97.4	103	104.2 ?	85.3	
11	? ?	? ?	? ?	? ?	? ?	? ?	? ?	101.3	89.5	75.8	66.6	59.6	58.6	56	52.7	53.4	60.8	71.8	78.6	81.9	86	92.6	95.8	97.4	75.2 ?	
12	100.7	103.9	? ?	? ?	? ?	? ?	? ?	104.5 ?	101.9	86.9	70.3	65.4	63.2	64.9	69.6	76.8	92.8	99.6	103.4	101	99.4	97.4	100.2	100.2	89.6 ?	
13	103.3	104.7 ?	? ?	? ?	? ?	? ?	? ?	100.7	94.7	91.4	86.6	81.3	76.2	74.4	69.2	66.2	73.3	82.3	88.3	92.6	93.6	98.3	101.5	104.1	88.6 ?	
14	104.6 ?	? ?	? ?	? ?	? ?	? ?	? ?	103.2 ?	97.6	86.8	78.4	71.9	74.2	67.8	62.1	64.8	72.8	82.4	92.2	95.9	93.4	95.6	96.8	99.1	85.5 ?	
15	101.5	104	? ?	? ?	? ?	? ?	? ?	103.9 ?	94.1	82	75.7	72.2	71	69.5	66.9	66.4	69.1	75.4	84.6	97.8 ?	? ?	104.1 ?	99.2	84.6 ?		
16	86.8	83.3	82.2	77.9	77.3	79	82.4	85.3	86.3	87.8	87	85.3	83.6	80.6	82.4	86.9	94	98.5	100.2	98.7	102.8 ?	104.8 ?	104.5 ?	104.5 ?	89.3	
17	? ?	? ?	? ?	? ?	? ?	104.7 ?	103.7	102.6	102.6	103.4	104.5	105 ?	104.4	103.9	104.8	? ?	104.8	103.4	102.7	100.7	101.1	104	? ?	? ?	103.5 ?	
18	? ?	? ?	? ?	? ?	104.7	104.3	103.9	103.9	101	97.4	96	95.3	96.3	97.1	102.9	100.7	103.2	104.9 ?	? ?	104.8 ?	104.2	103.5	102.9	102.4	101.6 ?	
19	102.3	101.7	102.5	103.4	103.3	103.1	103.6	102.7	100.9	97.5	94.8	91.7	87.8	82.5	84.1	87	90.9	98.2	103.4 ?	? ?	? ?	? ?	? ?	? ?	96.9 ?	
20	? ?	? ?	? ?	? ?	? ?	? ?	? ?	103.4 ?	98.1	94.8	92.1	89.5	89.3	84.1	78.3	92.9	97.4	99.5	104.2	104	104.2	? ?	? ?	? ?	95.1 ?	
21	? ?	? ?	? ?	? ?	? ?	? ?	? ?	? ?	103.4	97.2	92.2	89.4	91.1	92.2	93.5	93.6	97.1	102.5	104.9 ?	? ?	? ?	? ?	? ?	? ?	96.1 ?	
22	? ?	? ?	105 ?	? ?	? ?	? ?	? ?	? ?	104.8	100.9	97.6	100.3	101.8	104.6	? ?	104.9 ?	? ?	? ?	? ?	? ?	105 ?	105	104.9	104.3	103.3 ?	
23	104.2	104.2	103.6	103.8	104.2	104.4	104.5	104.3	103.1	99.2	92.1	89.1	92	92.7	85.2	94.7	102.5	103.1	103.7	103.9	104	103.9	104.1	104.3	100.5	
24	104.5	104.6	104.7	104.7	104.8	104.9	104.9	104.8	104.7	104.6	104.4	104.1	104	104.2	104.3	104.1	103.9	103.3	102.9	102.9	103	103.1	103.5	103.8	104.1	
25	104	104	103.8	103.6	103.7	103.8	103.7	103.5	103.2	102.7	102	102.1	102	101.3	101.9	102.7	102.8	102.9	103.3	103.6	103.7	103.8	104.1	104.2	103.2	
26	104.2	104.3	104.4	104.4	104.4	104.3	104.1	103.8	103.1	99.9	92.9	90.6	87.5	87.8	91.8	93.2	94.8	99	100.3	100.1	101.5	102.1	102.8	102.4	99.3	
27	102.2	102.5	102.8	103.1	103	103.3	103.6	103.8	102.9	96.3	92.7	95.4	95.5	97.4	94.9	96	94.6	96.8	99.1	101.4	102.1	102.4	103	103.5	99.9	
28	104.1	104.6	104.9	? ?	? ?	? ?	? ?	104.8 ?	100.6	93.5	91.1	87.1	81	74.7	82.7	94.6	100.8	103.3	102.8	100.4	101.7	100.9	100.3	102	96.8 ?	
29	103	103.7	104.2	100.8	100.9	102.3	102.1	101.6	97.3	90.8	80.3	72.5	79.5	77.6	73.5	72.6	75.7	80.9	91.3	96	101	101.5	103.3	104.7 ?	92.4	
30	? ?	? ?	? ?	? ?	? ?	? ?	? ?	100.5	92.5	80.1	71.4	72	73.4	70.2	66.8	64.6	66.4	75.9	91	92.4	87.8	97	103.6 ?	? ?	81.6 ?	
Avg	102.7	102.7	102.6	101	101.3	101.8	102.2	101.8	97.9	90.9	85.1	82.1	81.1	80.3	80.2	82.1	85.9	90.1	94.4	96.4	99	101	102.1	102.8	92.4 ?	
S D	3.9	5.1	5.9	8.2	8	7.2	5.8	4	5.5	9.3	12	13.8	14.6	15.2	15.1	15.6	14.8	13	10.1	7.6	6.3	4.1	3.1	2.2	8.5	
S/A	0.04	0.05	0.06	0.08	0.08	0.07	0.06	0.04	0.06	0.1	0.14	0.17	0.18	0.19	0.19	0.19	0.17	0.14	0.11	0.08	0.06	0.04	0.03	0.02	0.09	
Min	86.8	83.3	82.2	77.9	77.3	79	82.4	85.3	84.9	71	61.5	59.6	51.4	53.6	52.7	53.4	60.3	64.5	73.7	78.7	82.1	89.9	92.3	97.4	73.8	
Max	105	105	105	104.7	104.8	104.9	104.9	104.8	104.8	104.6	104.5	105	104.4	104.6	104.8	104.9	104.8	104.9	104.9	104.9	104.8	105	105	104.9	105	104.1
n	219	188	157	120	132	137	152	255	350	360	360	351	360	360	347	341	346	343	320	298	303	294	267	233	6600	

Data Recovery: 0.0% missing; 0.0% untested; 23.6% failed QC -- 8640 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.

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

September 2011

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	16.6	16.3	15.9	15.5	15.2	15.1	15.6	19.1	23.3	26.4	28.5	29.9	30.5	30.4	30.8	31.2	31.3	30.1	27.1	23.3	21.3	20.2	19.5	19	23
2	18.4	18	17.9	18	17.8	17.9	18.5	20	22.7	25.5	27.7	30.4	31.6	31.7	32	32	31.2	28.6	26	24.1	22.2	21.1	20.2	19.7	23.9
3	19.3	18.8	18	17.5	17.1	17.4	18.2	21.2	25	28.4	32.4	34.7	35.5	34.6	33.4	32.3	31.8	30.6	27.8	24.5	22.7	21.6	20.9	20.5	25.2
4	20.2	20	19.9	19.4	19	18.7	19	21.4	25.3	29.8	33.2	34.7	35	34.8	35	35.5	35.2	33.1	30	27.4	26.1	25.2	24.7	24.1	27
5	23.4	22.8	22.1	21.6	21.4	21.2	21.6	23.9	26.5	29.1	32	33.6	33.3	33.2	32.4	30.5	30.6	30.5	29.2	27.6	26.8	26.3	26	25.7	27.1
6	25.6	25.6	25.6	25.6	25.3	25.3	25.3	27.2	29.6	31.2	32.5	34.6	35.4	35.5	35.7	35.8	35.5	33.3	30.4	28.4	27.5	26.9	26.7	26.6	29.6
7	26.4	26.2	26.1	26.1	26.3	26.3	26.2	27.6	30.2	32.1	33.3	33.6	33.2	33.6	33.5	32.9	32.7	32	29.9	28.1	26.8	26	25.5	25.3	29.2
8	24.9	24.6	24.4	24.5	24.4	24.2	24.1	25.1	26.1	29.9	33.7	34.7	35.9	35.7	35.2	33.2	32.7	31.1	28.8	27.2	26	25.3	24.8	24.5	28.4
9	24.1	23.9	23.6	23.3	23	22.6	22.4	22.8	26.3	30.5	33.3	35	35.3	35	34.6	35	34.8	33.4	30.4	26.3	23.8	22.6	21.6	21.3	27.7
10	20.7	20	19.6	19.4	19.1	18.9	19.4	22.5	26.7	31.3	34.9	36.9	37.3	36.7	36.4	36.2	35.7	34.9	31.9	28.1	25.8	24.1	23.1	22.3	27.6
11	21.5	20.9	20.8	20.5	20.2	19.7	19.7	22.7	27.7	32.8	36	37.3	38.2	37.4	37	36.9	36.3	34.6	31.2	27.9	25.9	24.5	23.7	23.1	28.2
12	22.3	21.5	21	20.6	20.5	20.6	20.7	21.2	22.1	25.4	31.6	36	37.7	36.8	35.3	34.4	30.6	25.5	21.2	20.1	19.9	19.9	19.8	19.2	25.2
13	18.8	18.4	18.2	18	17.8	17.6	17.8	20.7	25.4	29.7	32.2	34.1	35.5	35.8	35.5	34.9	34.3	32.5	29.3	26.2	24.6	23.6	22.8	22.3	26.1
14	21.9	21.6	21.2	20.8	20.6	20.4	20.5	22.8	27	31.6	35.4	37.5	37.1	36.8	37	36.4	34.9	32.6	29.3	26.4	24.8	23.9	23	22.3	27.7
15	21.5	20.7	20.1	20	19.8	19.5	19.8	22.1	25.9	29.9	32.6	34.7	35.6	35.3	35.6	35.4	35.2	34.2	30.9	27	23	20.3	18.7	17.3	26.5
16	16.2	16.3	16.3	15.9	15.6	15.6	15.7	16	17.1	18	19.1	20.1	20.5	20.6	21	20.4	19.2	18.1	17.3	17	16.7	16	15.9	15.7	17.5
17	15.6	15.5	15.6	15.6	15.6	15.7	15.7	16.1	16.6	16.9	17.3	17.5	17.4	17.3	17.1	16.9	16.6	16.4	16.2	16.1	16.4	16.8	16.8	17	16.4
18	17.1	17	17	16.9	16.8	16.9	17.1	17.4	18.5	20.7	22.3	24.2	25.7	24.9	23.4	21.9	21.4	19.8	18.7	18.1	18	17.8	17.7	17.5	19.4
19	17.1	16.7	16.5	16.3	16.2	16.6	16.9	17.8	19.9	22.4	25.8	26.9	27.8	28.9	29.5	29.7	29	26.6	22.9	20.3	19.1	18.5	18.2	18	21.6
20	18.1	18.1	18	17.9	17.6	17.4	17.5	18.8	22.3	26.1	30.2	30.9	29.8	29.2	29.6	28.7	26.5	25.2	23.7	22.3	21.5	21.2	21.1	21.1	23
21	21.2	21.2	21.2	21.1	21.1	21	21	21.8	23.8	27.6	30.6	32	32.9	32.5	31.2	30.6	29.4	27.3	25.3	23.9	23	22.7	22.6	22.7	25.3
22	22.7	22.6	22.6	22.5	22.2	21.8	21.7	22.8	24.5	26.6	30.2	30.6	29.4	26.8	24.9	23.7	22.7	22.1	21.8	21.7	21.8	21.8	22	22.4	23.8
23	22.7	22.7	22.6	22.4	22.3	22.3	22.3	22.7	23.9	25.8	28.5	31.2	32.1	30	30.9	29.8	26.1	24.1	23.4	23.2	23.2	23	22.8	22.7	25
24	22.6	22.7	22.4	22.2	21.9	21.7	21.6	21.7	21.9	22.3	22.8	23	22.9	22.9	23	23.1	22.9	22.7	22.3	22	21.8	21.6	21.3	21.2	22.3
25	21.2	21.1	21.2	21.3	21.4	21.5	21.6	21.8	21.9	22	22.3	22.6	22.9	22.9	22.9	22.8	22.7	22.6	22.4	22.2	22	21.8	21.6	21.2	22
26	21.2	21.3	21.5	21.6	21.6	21.6	21.6	21.8	22.5	24.5	28	29.9	30.4	30.7	29.6	28.5	27.6	26.5	25	24.2	23.7	23.2	23.1	22.9	24.7
27	22.4	21.8	21.5	21.3	21.7	22.1	22.4	22.7	23.9	27.3	29.5	29.6	29.2	28.7	29.4	30.1	30.2	29.6	27.3	25.2	24.1	23.5	23.1	22.7	25.4
28	22.6	22.4	22.3	22.1	22	22	22	22.4	24.2	27.8	30.4	33	34.6	35	35	33.8	29.6	24.4	22	21	20.5	20.4	20.2	20.2	25.4
29	20.3	20.6	21.4	21.8	20.6	20	19.8	21	24.2	27.7	30.2	32.5	32.6	31.9	31.9	31.7	31	30.2	27.4	24.4	22.4	21	20.1	19.4	25.2
30	19	18.7	18.4	18.2	18.1	18.3	18.8	20.8	23.9	27	30.3	32.7	33.7	33.3	32.6	33.3	33.7	32.3	28.5	25.5	22.8	19.9	17.6	16.1	24.7
Avg	20.8	20.6	20.4	20.3	20.1	20	20.2	21.5	24	26.9	29.6	31.1	31.6	31.3	31	30.6	29.7	28.2	25.9	24	22.8	22	21.5	21.1	24.8
S D	2.8	2.8	2.8	2.8	2.9	2.8	2.7	2.7	3.2	4	4.7	5.1	5.3	5.2	5.2	5.3	5.3	5.1	4.3	3.4	2.9	2.7	2.7	2.8	3.2
S/A	0.13	0.14	0.14	0.14	0.14	0.14	0.13	0.12	0.13	0.15	0.16	0.16	0.17	0.17	0.17	0.17	0.18	0.18	0.17	0.14	0.13	0.12	0.13	0.13	0.13
Min	15.6	15.5	15.6	15.5	15.2	15.1	15.6	16	16.6	16.9	17.3	17.5	17.4	17.3	17.1	16.9	16.6	16.4	16.2	16.1	16.4	16	15.9	15.7	16.4
Max	26.4	26.2	26.1	26.1	26.3	26.3	26.2	27.6	30.2	32.8	36	37.5	38.2	37.4	37	36.9	36.3	34.9	31.9	28.4	27.5	26.9	26.7	26.6	29.6
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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

September 2011

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	0.9	0.9	0.8	0.6	1	0.7	1	1.8	2.9	3.5	3.8	3.6	3.6	2.7	3.1	2.7	2.3	2.1	1.7	1	0.6	0.5	0.2	0	1.8
2	0	0	0.1	0	0	0	0.3	1.5	1.8	1.8	2.3	2.7	3.4	3	2.9	3.2	2.9	2.5	2.7	2.7	2.3	1.3	1	0.8	1.6
3	0.6	0	0	0	0.1	0.1	0	0.6	0.9	0.6	1.1	1.3	1.9	2.7	3.7	3.3	2.6	2.5	1.4	0.8	0.7	0.3	0.5	0.6	1.1
4	0.9	0.7	0.1	0	0	0	0	1	1.5	1.1	2	2.6	2.4	2.4	2.6	2.5	3.7	3.3	2	2.5	2.8	2.4	1.8	1.2	1.6
5	0.9	0.2	0.1	0.4	0.2	0.1	1.4	1.9	3.1	3.8	3.4	3.6	3.5	4.7	4	2.4	3.2	3.4	3.1	3.6	3.8	3.2	2.9	2.8	2.5
6	3.2	2.8	2.3	2.5	2.3	2.3	2.7	3.5	4.2	4.6	4.9	5.8	5.9	5.6	5.8	5.2	4.9	5.2	4.1	3.4	3.2	3.7	3.3	3.6	4
7	3.6	3.9	3.8	3	2.9	2.6	3.4	4.6	5.8	6.1	5.9	5	3.4	2.2	3.3	4.1	3	2.9	2.5	2.5	1.5	1.7	1.9	1.1	3.4
8	0.1	0.1	0.5	0.9	0	0	0.3	1.1	2.1	2.5	2.3	2.3	2.8	3.7	3.9	3.4	2.7	2.2	2	1.6	0.7	0.2	0.1	0	1.5
9	0.1	0.2	0	0	0.3	1	0.2	1.6	1.3	2	2	1.9	2.3	2.6	2.7	2.4	2.1	1.3	0.3	0.1	0.4	0	1	0.6	1.1
10	0.2	0.3	0.7	0.5	0.7	0.8	0.4	1.2	0.7	0.6	1	1.2	2.4	2.4	2.4	2.1	1.8	1.3	0.3	0.2	0	0	0	0	0.9
11	0.2	0.5	0.3	0	0	0	0	0.1	0.3	0.5	1.1	1.7	2.7	2.5	2.7	2.6	2.4	2.2	1.2	1.8	1.3	1.1	1.5	1	1.2
12	0.4	0.3	0.2	0.4	0.5	0.5	0.1	0.1	0.4	0.4	0.6	1	1.4	1.2	1.7	2.2	4.2	3.4	2.7	2.4	2.3	2	0.6	0.5	1.2
13	0.7	0.5	0.6	0	0	0	0	0.2	0.5	1.2	1.4	1.3	1.4	2.1	2.7	2.6	2.7	2.5	1.3	1.1	1	0.8	1	0.5	1.1
14	0.5	0.2	0.2	0.2	0.2	0.2	0.5	0.7	0.8	0.5	1	2.1	2.2	1.8	2.9	2.8	3.4	3.1	3.1	1.9	1.4	1	0.8	0.2	1.3
15	0	0	0.1	0.1	0	0.2	0.3	0.9	1.5	2.8	2.6	3.1	3.5	2.8	3.4	2.8	2.1	1.2	1.8	5	4.6	5.1	4.8	4.5	2.2
16	5.1	4.2	4	4.3	4.1	4	3.8	4.2	3.7	4	4	4.3	4.1	3.6	3.5	3	2.9	2.7	1.7	1.7	1.1	1.8	2.6	2.3	3.4
17	2.3	2.1	2.6	2.8	3.1	3.7	3.8	4	3.1	3.5	3.8	3.7	4.7	4.5	4.6	4.2	4.6	4.6	4.1	3	2.4	2.4	2.6	2.3	3.4
18	2.5	3.1	3.1	2.9	2.7	2.7	2.8	2.7	2.9	4	4.5	4.4	4.1	3.6	3.3	3.6	3.1	2.9	2.6	2.5	2.3	1.7	2	1.5	3
19	1.8	1.8	1.9	1	1.6	2	1.3	1.8	1.5	2.9	2.9	3.1	3.6	3.6	3.2	3.1	3.1	2.7	2.7	2	1.4	0.9	0.5	0.5	2.1
20	0.7	0.9	0.5	0.1	0	0	0	0.7	2	1.2	1.1	0.7	0.8	0.4	0.2	0.7	0.2	0.7	0.9	0.7	0.2	0.3	0.5	1	0.6
21	0.8	1.2	0.8	1.1	0.6	1.4	1	1.1	1.7	2.2	3.3	2.8	3.1	3.2	3.2	2.5	2.8	2.1	1.5	1.2	0.9	0.9	1.6	1.9	1.8
22	1.8	1.9	1.8	0.5	0	0	0.5	1	0.8	0.8	1	0.3	2.3	1.4	3.2	1.5	1	0.5	1.4	0.3	0.4	0.1	0.8	1.6	1
23	0.5	1.6	0.9	0.3	0.7	1.1	1.4	1.3	2.3	2.2	3.2	3.7	4.1	4.1	4.6	3.4	1.1	1.6	0.4	0.9	0.8	0.6	1.1	0.7	1.8
24	0.6	0.6	0.1	0.1	0.1	0.1	0.1	0.2	0.5	0.3	1	1.5	1.7	1.1	1.8	2	2.3	2.7	1.8	0.5	0.1	0.1	0.1	0.3	0.8
25	0.1	0.3	0.8	1.1	1.1	1.1	1.4	1.7	2.2	1.9	2.1	0.8	2	0.9	0.7	0.7	0.6	0.8	0.1	0	0	0.3	0.2	0.3	0.9
26	0.3	1	1.2	0.4	0.6	0.4	1.2	1	0.5	0.6	1	0.3	0.5	0.3	0.5	0.2	0.6	3.2	1.7	1.1	0.1	0.5	0.8	0.5	0.8
27	0.3	0.6	0.3	1.5	1.1	1.4	1	0.6	0.9	2.1	2.6	2.7	2.7	3.4	3.3	3.8	3.3	2.5	1.8	2.1	2.1	2.1	1.9	2	1.9
28	2.1	0.8	0.9	0.7	1.1	0.1	0	0.2	1.6	2.8	2.5	2.6	2.5	2.7	3.1	3.2	3.8	2	1.6	3	2	1.5	0.9	1.2	1.8
29	0.8	1	2.1	5.5	1.3	1.7	0.9	0.7	1.9	2.7	2.7	3.5	3.4	3.7	4	3.4	2.1	1	0.8	0.7	0.2	0.1	0	0.1	1.8
30	0	0.1	0.1	0.1	0.2	0.7	1	1.4	1.7	2	2.4	2.5	3.5	3	2.4	2.5	2.1	2.1	2.3	3.7	4.5	2.8	0.9	1.9	1.8
Avg	1.1	1.1	1	1	0.9	1	1	1.5	1.8	2.2	2.4	2.5	2.9	2.7	3	2.7	2.6	2.4	1.9	1.8	1.5	1.3	1.3	1.2	1.8
S D	1.2	1.1	1.1	1.4	1.1	1.1	1.2	1.2	1.3	1.4	1.3	1.4	1.2	1.2	1.2	1.1	1.1	1.1	1	1.2	1.3	1.2	1.1	1.1	0.9
S/A	1.15	1.08	1.13	1.33	1.25	1.18	1.12	0.84	0.68	0.66	0.55	0.55	0.41	0.45	0.4	0.39	0.44	0.45	0.55	0.69	0.86	0.95	0.88	0.93	0.5
Min	0	0	0	0	0	0	0	0.1	0.3	0.3	0.6	0.3	0.5	0.3	0.2	0.2	0.2	0.5	0.1	0	0	0	0	0	0.6
Max	5.1	4.2	4	5.5	4.1	4	3.8	4.6	5.8	6.1	5.9	5.8	5.9	5.6	5.8	5.2	4.9	5.2	4.1	5	4.6	5.1	4.8	4.5	4
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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.

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

September 2011

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	40	47	30	29	37	14	40	51	65	83	95	88	83	94	94	95	111	119	115	112	96	82	75	44	84
2	4	0	98	45	51	112	122	124	135	156	155	156	153	161	163	157	136	125	121	118	123	127	127	130	141
3	119	0	0	0	74	69	117	80	70	71	131	123	124	162	162	169	169	186	184	175	168	209	217	212	158
4	213	203	238	0	0	311	327	305	312	259	226	224	245	248	258	223	176	169	188	212	209	216	222	228	220
5	233	231	227	223	213	209	214	225	238	233	230	235	234	240	246	255	230	219	215	216	222	221	229	224	230
6	223	223	224	223	222	216	216	223	228	232	233	217	216	219	221	217	200	197	204	201	196	200	208	207	215
7	199	202	197	201	205	186	182	193	198	200	213	240	243	233	209	213	213	195	188	189	188	194	195	198	204
8	199	183	137	170	218	66	103	126	128	128	140	138	161	127	131	144	156	182	146	150	160	208	202	212	144
9	20	347	338	317	300	310	321	313	310	289	280	287	270	279	265	266	262	264	249	254	267	232	252	262	278
10	257	267	289	298	296	291	285	312	331	255	297	333	301	307	309	317	314	307	301	343	0	0	56	0	306
11	246	284	290	305	282	0	0	310	323	311	243	242	233	243	234	242	229	186	218	239	223	244	255	255	238
12	259	262	262	296	289	310	317	298	311	352	351	307	299	302	187	113	120	101	206	208	237	252	280	313	209
13	331	325	336	0	0	0	0	289	285	222	197	202	225	203	217	209	206	185	181	211	211	228	243	239	214
14	257	264	264	305	290	260	282	289	296	292	268	188	161	212	197	180	177	184	181	191	202	205	207	221	198
15	221	321	316	302	215	265	277	296	301	305	301	286	294	303	299	289	267	263	55	40	38	50	52	70	349
16	63	58	57	60	58	60	64	67	72	74	80	86	93	87	88	78	78	78	74	89	96	81	100	101	74
17	104	101	88	96	96	108	110	105	99	93	89	80	78	75	71	76	80	90	96	91	65	74	81	66	88
18	43	53	49	43	45	38	37	45	54	79	83	84	69	63	47	56	56	53	53	66	61	49	57	52	58
19	50	56	55	45	55	55	56	64	82	91	92	103	112	116	118	117	121	124	123	124	116	114	117	147	98
20	137	130	126	94	90	2	100	130	150	141	124	199	34	324	315	4	93	195	185	182	120	62	108	96	134
21	87	101	86	128	103	86	98	108	118	140	168	144	158	154	161	153	165	156	148	151	164	181	236	240	150
22	231	240	250	257	0	164	193	232	244	248	105	152	170	204	177	212	244	229	157	154	148	135	198	208	206
23	227	242	251	154	136	126	143	139	147	167	194	195	218	232	224	262	288	184	200	218	231	242	245	246	209
24	224	270	333	346	43	124	107	54	78	100	116	118	129	114	125	145	137	154	143	157	173	149	51	48	135
25	78	103	86	80	81	109	114	113	125	118	122	108	114	148	118	106	140	67	125	35	41	2	2	128	110
26	151	152	138	127	108	46	65	116	120	123	138	157	273	180	156	151	151	167	187	156	157	227	218	206	153
27	210	215	231	224	247	286	277	262	246	217	222	219	213	217	217	214	213	208	216	223	233	221	228	234	223
28	250	276	253	236	252	256	0	275	244	238	241	227	231	217	183	154	214	216	193	161	165	182	198	205	212
29	204	212	209	229	240	250	253	272	274	283	257	261	254	291	289	290	288	250	256	279	233	255	305	6	262
30	30	173	208	215	219	234	270	254	249	260	265	242	241	276	262	255	234	214	218	336	17	13	26	323	274
Avg	166	158	125	166	95	89	118	129	163	177	181	189	192	206	197	190	177	168	167	165	166	173	188	191	181
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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

September 2011

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	1.9	1.8	1.8	1.9	2	1.9	2.2	3.4	4.8	6.2	6.6	6.4	6.6	5.1	6	5.1	4.5	4	3.1	2.3	1.6	1.4	0.9	0.1	3.4
2	0	0	0.3	0	0	0.2	1	3.1	3.1	3.2	3.8	4.7	5.3	5.2	4.9	5.4	4.9	3.9	4.7	4.8	3.9	2.8	2.4	1.7	2.9
3	1.5	0	0	0	0.3	0.5	0	1.6	2	1.8	2.1	2.7	3.8	4.7	5.9	5.4	4.3	4.1	2.4	1.6	1.6	0.7	1.2	1.3	2.1
4	1.7	1.5	0.4	0	0	0.1	0.2	2.2	2.9	2.4	3.6	4.8	4.3	4.3	4.7	4.4	6	5.3	3.7	4.3	5	4.3	3.4	2.2	3
5	2	1	0.8	1.3	0.8	0.5	2.4	3.2	5.5	6.5	6	6.2	6.6	7.6	7	4.4	5.7	5.9	5.1	6.3	6.6	5.7	5.3	5.1	4.5
6	5.4	5.3	4.3	4.5	4.3	4.2	4.6	6.3	7.3	7.8	8.2	9.6	9.9	9.2	9.7	9	8.5	8.6	6.9	5.6	5.6	6.2	5.5	6.3	6.8
7	6	6.4	6.6	4.9	5.3	4.4	5.5	7.7	9.9	9.8	9.8	8.2	5.8	3.8	5.7	6.8	5.2	4.7	4.1	4.2	2.9	3.1	3.4	2.4	5.7
8	0.6	0.4	1.2	2.2	0.2	0	1.2	2.3	3.6	4.4	3.9	3.9	4.9	6.2	6.4	5.8	4.6	3.8	3.9	3.1	1.7	0.6	0.5	0.3	2.7
9	0.5	0.8	0.1	0.1	0.9	2.3	0.8	3	2.7	3.7	3.8	3.8	4.4	4.8	4.7	4.2	3.8	2.7	1	0.2	0.9	0.4	1.9	1.6	2.2
10	0.7	0.6	1.3	1.2	1.5	1.5	1.2	2.4	2.1	1.8	2.7	2.9	4.8	4.9	4.8	4	3.4	2.6	0.8	0.7	0	0	0.2	0	1.9
11	0.8	1.2	0.9	0.3	0.3	0	0	0.6	1.1	1.6	2.4	3.4	5.1	4.8	4.7	4.9	4.2	3.4	2.5	3.3	2.4	2.2	2.5	1.8	2.3
12	1.2	1.1	0.9	1.2	1.4	1.5	0.6	0.7	1.5	1.7	1.9	2.5	3.2	2.7	3.4	4.6	7.5	6.5	4.7	4.1	3.7	3.3	1.6	1.7	2.6
13	2	1.4	1.4	0	0	0	0	0.8	1.7	2.6	3.1	2.9	3	4	4.6	4.7	4.4	3.8	2.5	2.2	2	1.8	2.1	1.5	2.2
14	1.4	1	0.8	0.7	0.8	0.8	1.3	1.8	2.1	1.7	2.3	3.5	4	3.7	5.1	4.6	5.5	5.1	5	3.3	2.6	1.9	1.9	1	2.6
15	0.1	0	0.4	0.3	0.1	0.6	1.1	1.9	2.9	5.2	4.9	5.6	6.2	5.3	6.1	5	3.7	2.3	3.5	9.4	9.1	8.9	9	8.5	4.2
16	9.3	7.4	7.2	7.8	7.3	7.4	6.7	8	6.9	7.5	7.1	7.5	7.2	6.4	6.7	5.8	5.5	5.3	3.6	3.6	3.1	3.8	4.9	4.3	6.3
17	4.3	4.2	4.9	5.1	5.8	7	7	7.2	5.6	6.3	6.6	7.1	8.3	8.4	8.5	8.1	9	8.4	7.4	5.6	4.8	4.7	4.7	4.2	6.4
18	4.6	5.3	5.7	5.3	5	5.1	5.6	5.3	5.4	7.6	8	7.5	7	6.6	5.8	6.2	5.8	5.1	5.1	5.3	4.7	3.4	4.1	3.3	5.5
19	3.4	3.6	3.7	2.4	3.2	3.7	3	3.5	3.3	4.9	5	5.5	5.9	5.7	5.7	5.2	4.8	4.6	4.6	3.3	2.6	2.1	1.6	1.6	3.9
20	1.7	1.7	1.3	0.5	0	0	0.1	1.7	3.5	2.4	2.3	1.9	1.7	1.4	0.9	1.8	0.6	1.3	1.6	1.4	0.8	1.1	1.3	2	1.4
21	1.9	2.6	1.8	2.3	1.6	2.5	2	2.5	3.4	3.7	5.3	4.5	5	5.3	5.1	3.9	4.5	3.6	2.7	2.1	1.6	1.8	2.9	3.4	3.2
22	3.2	3.5	3	1.2	0	0.3	1.2	2	1.8	1.9	2	1.2	3.7	2.9	5.3	2.8	2.1	1.3	2.4	0.9	1.2	0.4	1.7	2.8	2
23	1.5	3.2	1.9	0.8	1.3	1.9	2.6	2.5	3.9	3.7	5.3	6.2	6.6	6.9	8	6.9	2.4	2.7	1.1	1.8	1.7	1.7	2.2	1.6	3.3
24	1.4	1.6	0.6	0.8	0.6	0.7	0.7	0.9	1.7	1.4	2.2	2.9	3.2	2.7	3.6	3.4	4.4	4.7	3.5	1.6	0.6	0.4	0.5	1	1.9
25	0.8	1.1	1.8	2.5	2.5	2.4	2.8	3.6	4	4	4	2	4	2.1	1.6	1.8	1.4	1.9	0.4	0.2	0.1	1.2	0.6	0.8	2
26	0.8	2.1	2.4	1.4	1.9	1.3	2.6	2.2	1.7	2.1	2.4	1.3	1.8	1.2	1	0.6	1.2	5.1	3	2.1	0.3	1.1	1.8	1	1.8
27	0.9	1.4	1.3	2.6	2.1	2.9	2	1.6	2.1	3.7	4.3	4.5	4.5	5.4	5.8	5.9	5.4	4.2	3	3.5	3.8	3.4	3.2	3.2	3.4
28	3.8	1.8	2	1.8	2.1	0.6	0	1.3	3.3	4.7	4.5	4.6	4.2	4.5	5	5	7.6	3.6	2.8	5	3.4	2.9	2.1	2.5	3.3
29	2	2.2	3.5	8.9	2.3	2.8	1.9	2.1	3.6	4.9	4.7	5.9	5.7	6.2	6.7	5.7	3.7	1.8	1.5	1.3	0.4	0.2	0	0.3	3.3
30	0.1	0.3	0.3	0.4	0.9	1.6	1.8	2.3	2.9	3.7	4.2	4.2	5.7	5.4	4.6	4.3	3.5	3.6	3.7	7.2	9.2	5.5	1.8	3.6	3.4
Avg	2.2	2.1	2.1	2.1	1.8	2	2.1	2.9	3.5	4.1	4.4	4.6	5.1	4.9	5.3	4.9	4.6	4.1	3.3	3.3	2.9	2.6	2.5	2.4	3.3
SD	2.1	1.9	2	2.3	1.9	2	2	2	2	2.2	2.1	2.1	1.8	1.9	1.9	1.7	2	1.8	1.7	2.2	2.4	2.1	1.9	1.9	1.5
S/A	0.94	0.9	0.94	1.11	1.07	1.03	0.96	0.69	0.56	0.54	0.47	0.46	0.35	0.39	0.37	0.36	0.43	0.43	0.5	0.65	0.82	0.82	0.77	0.79	0.44
Min	0	0	0	0	0	0	0	0.6	1.1	1.4	1.9	1.2	1.7	1.2	0.9	0.6	0.6	1.3	0.4	0.2	0	0	0	0	1.4
Max	9.3	7.4	7.2	8.9	7.3	7.4	7	8	9.9	9.8	9.8	9.6	9.9	9.2	9.7	9	9	8.6	7.4	9.4	9.2	8.9	9	8.5	6.8
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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

September 2011

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	1019	1019	1019	1018	1019	1019	1019	1019	1019	1019	1019	1019	1019	1018	1018	1018	1017	1016	1016	1016	1017	1017	1017	1017	1017	1018
2	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1017	1017	1016	1016	1016	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1016
3	1015	1015	1015	1014	1014	1014	1014	1015	1016	1016	1015	1015	1015	1014	1013	1013	1013	1013	1013	1013	1013	1013	1013	1014	1013	1014
4	1013	1012	1012	1012	1012	1013	1013	1013	1014	1014	1014	1013	1013	1012	1011	1011	1010	1010	1010	1010	1010	1011	1011	1011	1011	1012
5	1010	1010	1010	1009	1009	1009	1009	1009	1009	1009	1010	1009	1009	1009	1008	1008	1007	1007	1007	1007	1008	1008	1009	1009	1008	1009
6	1008	1008	1008	1008	1008	1008	1008	1009	1009	1009	1010	1010	1010	1009	1009	1009	1009	1009	1009	1010	1011	1011	1011	1012	1012	1010
7	1011	1011	1011	1011	1011	1011	1012	1012	1012	1013	1013	1012	1012	1012	1011	1010	1010	1010	1010	1011	1011	1011	1011	1011	1011	1011
8	1010	1010	1009	1010	1010	1010	1010	1010	1010	1010	1010	1009	1009	1008	1008	1007	1007	1007	1007	1008	1008	1008	1008	1008	1008	1009
9	1008	1008	1008	1008	1008	1008	1009	1009	1010	1010	1010	1010	1010	1009	1009	1009	1009	1009	1009	1010	1010	1010	1010	1010	1010	1009
10	1010	1010	1010	1010	1010	1010	1011	1011	1012	1012	1012	1012	1012	1011	1011	1011	1011	1011	1012	1012	1013	1013	1013	1013	1014	1011
11	1014	1014	1014	1014	1014	1015	1015	1016	1016	1017	1017	1016	1016	1015	1015	1014	1014	1014	1014	1014	1015	1015	1016	1016	1016	1015
12	1015	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1015	1014	1013	1013	1013	1014	1015	1015	1015	1015	1014	1014	1014	1015
13	1014	1013	1013	1014	1014	1014	1015	1015	1015	1015	1015	1015	1014	1014	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014
14	1013	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1013	1013	1012	1012	1012	1012	1011	1012	1013	1013	1012	1012	1012	1013
15	1012	1011	1011	1011	1011	1011	1011	1011	1011	1011	1011	1010	1010	1009	1009	1008	1008	1009	1010	1012	1014	1015	1017	1018	1018	1011
16	1018	1019	1019	1019	1020	1021	1022	1022	1023	1023	1024	1024	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1022
17	1022	1022	1022	1021	1021	1022	1022	1022	1023	1023	1023	1023	1023	1022	1022	1022	1021	1021	1022	1021	1022	1022	1022	1022	1022	1022
18	1021	1021	1021	1021	1021	1021	1022	1022	1022	1022	1023	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022	1022
19	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1021	1020	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1018	1020
20	1018	1017	1017	1017	1017	1018	1018	1019	1019	1019	1019	1019	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1019	1019	1019	1018
21	1019	1019	1018	1018	1018	1018	1019	1019	1019	1019	1019	1019	1018	1018	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018
22	1018	1017	1017	1017	1018	1018	1018	1019	1019	1019	1019	1019	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018	1018
23	1018	1017	1017	1016	1015	1015	1015	1016	1016	1016	1016	1015	1014	1013	1012	1011	1012	1012	1012	1012	1013	1013	1013	1013	1013	1014
24	1013	1013	1013	1012	1013	1013	1014	1014	1014	1015	1015	1015	1015	1014	1014	1014	1014	1015	1014	1015	1016	1016	1016	1015	1014	1014
25	1015	1015	1014	1014	1014	1015	1015	1015	1016	1016	1017	1017	1015	1016	1015	1014	1015	1015	1014	1014	1015	1015	1014	1014	1014	1015
26	1014	1013	1012	1013	1013	1013	1014	1014	1015	1015	1014	1014	1014	1013	1013	1012	1012	1012	1012	1013	1013	1013	1013	1012	1012	1013
27	1012	1012	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013	1012	1012	1011	1011	1010	1010	1010	1010	1011	1011	1011	1011	1011	1011
28	1011	1011	1010	1010	1010	1010	1010	1011	1011	1011	1011	1011	1010	1010	1009	1008	1008	1008	1009	1009	1009	1009	1009	1009	1009	1010
29	1008	1008	1007	1007	1007	1007	1007	1007	1007	1007	1007	1007	1008	1007	1006	1006	1005	1005	1005	1005	1005	1006	1007	1007	1007	1007
30	1007	1007	1006	1006	1006	1006	1006	1006	1006	1006	1006	1006	1005	1004	1003	1002	1002	1002	1001	1000	1001	1003	1004	1003	1003	1004
Avg	1014	1014	1014	1014	1014	1014	1014	1015	1015	1015	1015	1015	1014	1014	1013	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014
SD	4	4	4	4	4	4	4	4	4	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
StA	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min	1007	1007	1006	1006	1006	1006	1006	1006	1006	1006	1006	1005	1004	1003	1002	1002	1002	1001	1000	1001	1003	1004	1003	1003	1003	1004
Max	1022	1022	1022	1021	1021	1022	1022	1022	1023	1023	1024	1024	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1023	1022
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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.

September 2011

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	12.6	12.6	12.6	12.6	13.2	13.4	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	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	12.8	13.3	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
3	12.7	12.7	12.6	12.6	12.6	12.6	13.1	13.3	13.2	13.1	13	13	13	13	13.1	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
4	12.7	12.7	12.6	12.6	12.6	12.6	13	13.3	13.2	13.1	13	13	13	13	13	13	13	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
5	12.7	12.7	12.6	12.6	12.6	12.6	13.1	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.9
6	12.7	12.7	12.7	12.7	12.6	12.6	12.9	13.2	13.1	13.1	13.1	13	13	13	13	13	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
7	12.7	12.7	12.6	12.6	12.6	12.6	12.8	13.2	13.1	13.1	13	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.9
8	12.7	12.7	12.6	12.6	12.6	12.6	12.8	12.8	13.2	13.1	13	13	13	13	13	13.1	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8
9	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.3	13.2	13.1	13	13	13	13	13	13	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8
10	12.6	12.6	12.6	12.6	12.6	12.5	13	13.3	13.2	13.1	13	13	13	13	13	13	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8
11	12.6	12.6	12.6	12.6	12.6	12.5	13	13.3	13.1	13	13	13	13	13	13	13	13	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.8
12	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.7	13.1	13.2	13	13	13	13	13	13	13	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.8
13	12.6	12.6	12.6	12.5	12.5	12.5	13	13.3	13.2	13.1	13	13	13	13	13	13	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8
14	12.7	12.6	12.6	12.6	12.6	12.6	13	13.3	13.2	13	13	13	13	13	13	13	13	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
15	12.6	12.6	12.6	12.6	12.6	12.5	13	13.3	13.2	13.1	13	13	13	13	13	13	13	12.8	12.8	12.7	12.7	12.7	12.7	12.6	12.8
16	12.6	12.6	12.6	12.6	12.5	12.5	12.5	13.2	13.4	13.4	13.4	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	12.9
17	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.7	13.1	13.3	13.3	13.2	13	13	12.8	12.7	12.7	12.7	12.6	12.6	12.5	12.5	12.8
18	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.7	13.4	13.3	13.3	13.2	13.2	13.2	13.3	13.3	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
19	12.7	12.7	12.7	12.7	12.6	12.6	12.6	13.3	13.4	13.3	13.2	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	12.9
20	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.4	13.3	13.2	13.1	13.1	13.2	13.2	13.2	13	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9
21	12.7	12.7	12.7	12.6	12.6	12.6	12.7	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	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	12.7	13.2	13.2	13.2	13.1	13.1	13	12.8	13	12.7	12.7	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.8
23	12.6	12.6	12.6	12.6	12.6	12.6	12.6	13.1	13.2	13.2	13.1	13.1	13.1	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8
24	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	13	12.9	12.7	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6
25	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.9	13	13	12.8	12.7	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.4	12.6
26	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.6	12.8	13.2	13.1	13.1	13.1	13.1	13	12.9	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.7
27	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.7	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.8
28	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.1	13.1	13	13	13	13	13	13	12.8	12.7	12.7	12.6	12.6	12.6	12.6	12.8
29	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
30	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.3	13.2	13.2	13.1	13.1	13	13.1	13.1	13.1	13.1	12.8	12.8	12.7	12.7	12.7	12.7	12.6	12.9
Avg	12.6	12.6	12.6	12.6	12.6	12.6	12.8	13.1	13.1	13.1	13.1	13.1	13.1	13	13	13	13	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.8
S D	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
S/A	0	0	0	0	0	0	0.02	0.02	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0.01	0.01	0.01
Min	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.5	12.5	12.6	12.9	12.7	12.6	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.4	12.6
Max	12.7	12.7	12.7	12.7	12.6	12.6	13.2	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.3	13.2	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.9
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

Data Recovery: 0.0% missing; 0.0% untested; 0.0% failed QC -- 8640 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.