

September 2010

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	14	87	336	470	665	796	858	869	814	693	521	318	116	17	0	0	0	0	0	6572
2	0	0	0	0	0	5	48	132	368	394	348	465	543	480	466	245	100	36	5	0	0	0	0	0	3635
3	0	0	0	0	0	2	12	31	43 ?	57	69	144	252	337	404	245	211	118	27	0	0	0	0	0	1951
4	0	0	0	0	0	11	92	281	320	469	707	897	815	837	707	519	342	125	13	0	0	0	0	0	6136
5	0	0	0	0	0	16	123	314	453	699	792	868	825	677	492	432	341	85	18	0	0	0	0	0	6135
6	0	0	0	0	0	12	88	257	500	681	812	856	885	784	709	527	321	111	13	0	0	0	0	0	6556
7	0	0	0	0	0	13	117	283	484	660	788	876	865	822	694	522	314	109	12	0	0	0	0	0	6560
8	0	0	0	0	0	5	93	253	470	643	756	551	429	310	378	332	186	100	10	0	0	0	0	0	4517
9	0	0	0	0	0	7	95	295	492	676	798	875	889	828	602	486	260	100	12	0	0	0	0	0	6415
10	0	0	0	0	0	7	60	287	483	666	806	879	888	820	688	510	298	97	9	0	0	0	0	0	6497
11	0	0	0	0	0	9	93	285	482	666	802	796	769	507	278	296	183	45	4	0	0	0	0	0	5215
12	0	0	0	0	0	1	5 ?	26 ?	47 ?	72	82 ?	119	151	138	166	66	45	30	4	0	0	0	0	0	951 ?
13	0	0	0	0	0	5	73	207	335	546	765	830	856	782	663	480	275	76	2	0	0	0	0	0	5894
14	0	0	0	0	0	7	80	269	465	641	766	833	838	775	622	463	262	77	3	0	0	0	0	0	6098
15	0	0	0	0	0	9	102	299	466	643	769	838	843	775	651	470	269	77	5	0	0	0	0	0	6218
16	0	0	0	0	0	7	93	260	470	625	764	832	840	771	623	445	250	63	6	0	0	0	0	0	6046
17	0	0	0	0	0	6	79	211	436	580	737	694	661	509	408	325	195	66	4	0	0	0	0	0	4910
18	0	0	0	0	0	5	63	244	467	601	629	720	589	609	575	455	247	65	1	0	0	0	0	0	5269
19	0	0	0	0	0	7	87	287	476	630	757	800	823	755	624	442	243	58	0	0	0	0	0	0	5990
20	0	0	0	0	0	5	83	271	439	603	731	675	752	709	607	433	236	55	0	0	0	0	0	0	5599
21	0	0	0	0	0	5	74	263	453	622	747	813	742	654	615	432	229	52	0	0	0	0	0	0	5702
22	0	0	0	0	0	4	52	179	412	579	704	771	774	703	570	402	205	45	0	0	0	0	0	0	5400
23	0	0	0	0	0	2	53	211	389	551	680	745	745	679	549	373	185	42	0	0	0	0	0	0	5207
24	0	0	0	0	0	3	54	206	388	556	682	747	747	682	559	384	193	43	0	0	0	0	0	0	5244
25	0	0	0	0	0	3	67	246	438	605	729	797	789	641	532	413	196	39	0	0	0	0	0	0	5495
26	0	0	0	0	0	1	45	164	181	387	486	430	348	196	161 ?	42 ?	38 ?	12	0	0	0	0	0	0	2492 ?
27	0	0	0	0	0	1	16	37	?	48 ?	110 ?	254	?	104	139	92	46	3	0	0	0	0	0	0	851 ?
28	0	0	0	0	0	0	15	39 ?	54	65	99 ?	189	266	418	338	267	103	18	0	0	0	0	0	0	1869 ?
29	0	0	0	0	0	0	30	60 ?	47 ?	84	124	196	151	124	51 ?	55 ?	?	1	0	0	0	0	0	0	923 ?
30	0	0	0	0	0	0	6	?	?	?	80 ?	65 ?	96 ?	158	92	58	29	9	0	0	0	0	0	0	593 ?
Avg	0	0	0	0	0	6	66	215	376	507	597	647	657	580	488	358	211	62	5	0	0	0	0	0	4698
S D	0	0	0	0	0	4	33	93	152	219	273	273	257	244	201	156	92	36	7	0	0	0	0	0	1997
S/A	0	0	0	0	0	0.75	0.49	0.44	0.4	0.43	0.46	0.42	0.39	0.42	0.41	0.44	0.44	0.58	1.27	0	0	0	0	0	0.42
Min	0	0	0	0	0	0	5	26	43	48	69	65	96	104	51	42	29	1	0	0	0	0	0	0	593
Max	0	0	0	0	0	16	123	336	500	699	812	897	889	837	709	527	342	125	27	0	0	0	0	0	6572
n	0	0	0	0	0	81	356	329	312	340	339	354	343	358	350	345	342	346	59	0	0	0	0	0	4257

Daylight Data Recovery: 0.0% missing; 0.0% untested; 4.3% exceed the 15% QC threshold -- 4446 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31392F3 Calibration Factor: 7.3961 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 2010

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	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	*	*	*	*	*	?	?	*	*	?	129 ?	548 ?	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	129	548	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	129	548	0	0	0	0	0	0	0	N/A
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	129	548	0	0	0	0	0	0	0	N/A
n	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	3	4	0	0	0	0	0	0	0	0

Daylight Data Recovery: 96.6% missing; 0.0% untested; 3.2% exceed the 15% QC threshold -- 4446 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 2010

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	13	49	82	108	131	138	156	169	170	147	126	105	64	15	0	0	0	0	0	1471
2	0	0	0	0	0	5	47	130	318	386	345	447	487	411	328	235	100	36	5	0	0	0	0	0	3282
3	0	0	0	0	0	2	12	31	41	57	69	144	252	337	365	241	188	91	24	0	0	0	0	0	1854
4	0	0	0	0	0	11	48	94	266	337	272	166	250	97	86	85	52	31	6	0	0	0	0	0	1801
5	0	0	0	0	0	12	49	67	163	241	243	238	226	344	296	285	130	57	14	0	0	0	0	0	2366
6	0	0	0	0	0	9	36	56	69	80	86	95	138	177	105	74	58	35	10	0	0	0	0	0	1029
7	0	0	0	0	0	11 ?	36	57	72	80	92	130	149	93	79	70	60	37	9	0	0	0	0	0	975
8	0	0	0	0	0	5	58	134	190	183	338	422	403	310	318	214	109	44	9	0	0	0	0	0	2737
9	0	0	0	0	0	5	29	47	54	61	73	82	97	98	139	105	62	32	9	0	0	0	0	0	892
10	0	0	0	0	0	8 ?	43	61	70	84	79	74	70	66	62	57	45	28	7	0	0	0	0	0	753
11	0	0	0	0	0	8	33	57	68	73	86	134	159	232	256	231	131	44	4	0	0	0	0	0	1514
12	0	0	0	0	0	1	7	21 ?	33 ?	69	73	119	151	138	166	66	45	30	4	0	0	0	0	0	922
13	0	0	0	0	0	7 ?	54	144	243	213	164	128	152	85	69	56	43	20	1	0	0	0	0	0	1380
14	0	0	0	0	0	8 ?	36	69	75	78	80	84	84	91	98	77	58	40	2	0	0	0	0	0	881
15	0	0	0	0	0	8 ?	29	45	51	65	71	70	70	69	68	63	51	27	5	0	0	0	0	0	693
16	0	0	0	0	0	8 ?	38	83	110	133	104	103	106	108	118	92	73	32	6	0	0	0	0	0	1113
17	0	0	0	0	0	6	60	144	142	197	256	274	380	332	312	201	144	50	4	0	0	0	0	0	2502
18	0	0	0	0	0	5	45	93	185	238	213	244	271	213	126	76	58	24	1	0	0	0	0	0	1792
19	0	0	0	0	0	7 ?	30	53	63	99	90	92	76	72	66	62	47	21	0	0	0	0	0	0	778
20	0	0	0	0	0	6 ?	31	61	84	106	147	195	138	147	103	69	48	18	0	0	0	0	0	0	1151
21	0	0	0	0	0	7 ?	27	46	50	58	62	72	141	156	91	80	59	26	0	0	0	0	0	0	874
22	0	0	0	0	0	6 ?	46	127	158	174	181	175	181	157	155	117	82	30	0	0	0	0	0	0	1588
23	0	0	0	0	0	4 ?	41	114	166	197	203	202	193	181	168	138	95	33	0	0	0	0	0	0	1735
24	0	0	0	0	0	3	40	113	175	212	211	217	207	192	161	127	83	29	0	0	0	0	0	0	1768
25	0	0	0	0	0	?	26	56	70	76	81	86	110	198	160	99	73	26	0	0	0	0	0	0	1061
26	0	0	0	0	0	1	36	135	162	299	364	354	329	194	136	35 ?	33	12	0	0	0	0	0	0	2093
27	0	0	0	0	0	1	16	36	25 ?	43 ?	110 ?	252	45 ?	104	139	92	46	3	0	0	0	0	0	0	913 ?
28	0	0	0	0	0	0	15	31 ?	51	62	74	189	255	374	300	229	101	18	0	0	0	0	0	0	1698
29	0	0	0	0	0	0	30	56	30	84	124	195	151	110	40	55 ?	?	1	0	0	0	0	0	0	877 ?
30	0	0	0	0	0	0	6	17 ?	22 ?	35 ?	61	63 ?	74	158	92	58	28	9	0	0	0	0	0	0	624 ?
Avg	0	0	0	0	0	6	35	75	110	138	150	173	184	181	158	117	76	32	5	0	0	0	0	0	1437
S D	0	0	0	0	0	4	14	39	77	93	92	101	107	99	93	70	37	18	6	0	0	0	0	0	666
S/A	0	0	0	0	0	0.65	0.4	0.51	0.7	0.67	0.62	0.58	0.58	0.55	0.59	0.6	0.49	0.57	1.28	0	0	0	0	0	0.46
Min	0	0	0	0	0	0	6	17	22	35	61	63	45	66	40	35	28	1	0	0	0	0	0	0	624
Max	0	0	0	0	0	13	60	144	318	386	364	447	487	411	365	285	188	91	24	0	0	0	0	0	3282
n	0	0	0	0	0	67	360	339	339	351	351	355	356	360	357	347	346	346	59	0	0	0	0	0	4333

Daylight Data Recovery: 0.0% missing; 0.0% untested; 2.5% exceed the 15% QC threshold -- 4446 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 2010

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	22.8	21.8	21.3	21	20.6	20.5	21.4	24	26.4	28.4	30.2	31.2	32	31.8	31.7	31.6	30.8	29.4	28	26.8	26	25.3	24.6	24.1	26.3	
2	23.2	22.9	23.2	23	23.1	22.3	22.4	23.5	25.3	26.6	27.2	27.5	28	27.8	28	27.4	26.6	26.1	25.8	25.7	25.7	25.8	25.8	25.5	25.1	25.2
3	26.1	25.6	25.2	25.1	25	25.1	24.6	24.1	23.8	23.8	23	21.2	23.2	24.8	26.6	27.3	27.6	27.6	26.3	25.6	25.8	25.8	25.5	25.1	25.2	
4	24.9	24.3	24.2	23.6	22.5	22	22.3	23.4	24.2	24.9	26	26.7	27.1	27.6	28.4	28.4	28.5	27.8	25.3	23.5	22.3	21.1	20.4	19.3	24.5	
5	18.5	17.5	17.1	16.9	16.8	15.7	16.4	19.9	22.8	24.6	26	26.6	26.5	26.2	25.5	25.3	24.7	23.8	22.8	22	21.7	21.5	21.4	21.3	21.7	
6	20.8	19.8	18.8	18.7	18.5	18.5	20.1	23.1	24.5	25.8	26.7	27.4	28	27.8	27.9	27.6	26.8	26	24.4	23.4	22.8	22.3	22	21.7	23.5	
7	21.5	20.4	19.7	19.6	19.2	19.3	20.8	23.6	25.4	26.9	28.2	29.1	29.7	29.7	29.8	29.2	28.5	27.1	25.6	24.4	23.5	23	22.8	22.9	24.6	
8	23	22.8	22.8	22.5	22.3	22.3	22.8	24.4	26.1	27.2	28.7	29.6	29.8	30	30.2	29.9	29.7	29.2	27.6	26.6	26.2	25.2	24.3	23.6	26.1	
9	22.9	21.8	20.8	20.4	20.1	19.9	20	22.2	23.6	24.5	25.7	26.4	26.8	27.4	28.1	28.5	28.8	24.5	22.5	21.3	21.2	21.5	21.1	20.3	23.3	
10	20.3	20.3	19	18.6	17.9	18	18	19.6	20.8	21.8	22.6	23.5	24.4	25.3	26.4	26.3	26.1	23.3	21.5	21	20.1	19.6	19.1	17.5	21.3	
11	17.1	17.7	16.2	14.6	14.4	14.5	15.5	17.9	20.7	22.7	23.7	24.7	25.3	25.6	24.6	23.8	23.1	22.4	21.5	21.2	21.3	21.3	21.1	20.4	20.5	
12	18.3	17.8	17.6	18.1	18.2	18.5	18.9	19	19.4	20	20.3	20.4	20.6	20.8	20.9	20.9	20.4	20.3	20.2	20	19.8	19.6	19.7	19.7	19.6	
13	19.4	18.9	18.7	18.7	18.6	18.4	18.4	18.8	19.6	21.4	22.9	24.1	25	25.7	26.6	27.1	27.3	26.7	23.8	21.9	21	20.8	20.4	20.1	21.8	
14	19.7	19.2	18.9	18.7	18.6	18.2	18.4	20.6	23	25.1	27.1	28.8	30	31	31.7	32.1	31.9	30.4	26.6	24.9	23.9	23.4	22.9	22.5	24.5	
15	21.4	20.7	19.8	18.8	18	17.5	18.3	21.6	25.6	27	27.7	28.2	28.5	28.7	28.2	27.5	26.5	25.6	23.9	22.7	22	21.5	21.4	21.1	23.4	
16	21.1	21.1	21.3	21.2	20.9	20.6	21.2	23.4	25.3	26.5	27.5	28.6	29.4	29.9	30.1	30.1	29.3	28	26.5	25.7	25	24.7	24.4	24.2	25.3	
17	23.9	23.6	23.3	23.1	22.9	22.7	23	24.3	25.5	26.4	27.5	28.3	28.8	29.4	29.5	29.7	28.9	25.7	24.2	23.5	23.3	23	22.7	22.7	25.2	
18	22.5	21.6	21	20.7	20.5	20.1	20.5	21.7	23.5	24.7	24.6	25.4	25.7	26	26	25.4	24.5	23	21.4	20.5	20.2	20.1	19.6	18.7	22.4	
19	17.3	16.8	16.5	16.4	16.5	16.2	16.7	18.8	21	23	24.2	24.6	25.1	25.5	26	25.5	24.6	23.3	21.6	20.7	20	19.6	19.4	18.4	20.7	
20	17.3	16.8	16.6	16.6	16.7	16.9	17.1	18.6	21.7	24.2	25.9	26	26.2	26.5	26.4	26.1	24.7	22.5	21.2	20.3	19.6	18.5	16.2	21.2	21.2	
21	15.3	14.8	14.4	13.9	13.6	13.4	14.4	18.5	22	23.6	24.5	25.4	25.9	26	25.6	24.9	24.2	23.1	21.6	20.6	20.2	19.8	19.8	19.5	20.2	
22	19.2	19.2	19	19.1	19.1	19.2	20.1	21.7	24.1	25.6	26.8	28.2	29.1	29.8	30.6	30.4	29.9	27.9	26	24.9	24.5	24.2	24	23.6	24.4	
23	23.2	22.8	22.4	22	21.8	21.4	21.5	23.1	24.6	26.2	28.2	30.2	32.3	32.6	32.7	32.7	31.2	28.7	27.6	26.6	25.6	25.1	24.8	24.4	26.3	
24	24.1	23.8	23.5	23.2	22.8	22.5	22.6	23.9	25.7	27.6	29.3	30.4	31.1	31.5	31.5	31.5	30.6	28.8	26.6	25.2	24.5	24.1	23.7	23.4	26.3	
25	23.1	22.6	21.8	21.3	21.2	21.2	21.3	22.8	24.6	26.6	28.4	29.4	30.6	31.4	31.6	31.6	30.4	28.6	27.2	26.2	25.5	25	24.5	24.3	25.9	
26	24.3	24.1	24.2	24.3	24.3	24.1	23.6	24.3	25	26.5	27.4	27.9	27.7	27.1	25.8	24.4	23.1	22.4	22.7	24.3	24.2	24.2	24.2	24.3	24.8	
27	23.9	23.5	22.8	23	23.4	23.5	23.4	23.6	23.4	22.1	21.7	23.5	22.4	21.1	21.9	22.5	22.6	21.8	21.7	21.4	20.8	20.8	21.1	21.2	22.4	
28	22.1	22.3	22.7	22.9	23.1	23.3	23.4	23.4	23	23.2	23.4	23.8	24.3	25.6	25.7	25.6	25.5	25.2	23.8	23	21.8	21.4	21.2	21.2	23.4	
29	21	20.2	20.1	20.2	20.6	20.7	20.7	21.7	22.1	22.2	22.4	22.7	22.7	23	22.8	22.6	22.8	22.2	22.2	23	24	24.5	24.5	24.8	22.2	
30	24.3	24.9	24.7	24.3	24.9	25.1	25.3	25.2	26	25.7	25.9	25.4	24	25.5	26.1	25.7	26.5	26.8	26.1	25.6	20.5	20.6	20.7	20.6	24.6	
Avg	21.4	21	20.6	20.3	20.2	20.1	20.4	22	23.6	24.8	25.8	26.5	27	27.4	27.6	27.4	26.9	25.7	24.3	23.5	22.8	22.5	22.2	21.8	23.6	
S D	2.7	2.7	2.9	2.9	3	3	2.8	2.2	2	2.1	2.5	2.8	3	3	3	3.1	3	2.7	2.3	2.1	2.2	2.1	2.1	2.5	2	
S/A	0.13	0.13	0.14	0.14	0.15	0.15	0.13	0.1	0.08	0.08	0.1	0.1	0.11	0.11	0.11	0.11	0.11	0.1	0.09	0.09	0.09	0.1	0.1	0.11	0.09	
Min	15.3	14.8	14.4	13.9	13.6	13.4	14.4	17.9	19.4	20	20.3	20.4	20.6	20.8	20.9	20.9	20.4	20.3	20.2	20	19.8	19.6	18.5	16.2	19.6	
Max	26.1	25.6	25.2	25.1	25	25.1	25.3	25.2	26.4	28.4	30.2	31.2	32.3	32.6	32.7	32.7	31.9	30.4	28	26.8	26.2	25.8	25.8	26	26.3	
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.

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

September 2010

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	104.6 ?	?	?	?	?	?	?	101	92.8	78.8	66.8	66	62.9	63.4	57.1	60.7	69.2	75.6	75.1	78.1	86.3	94.3	99.6	102.1	79.7 ?
2	104.5	105 ?	104.9 ?	?	103.3 ?	?	?	101.9	95.9	92.4	90.5	91.6	89	90.6	90.9	94.8	97.5	99.3	101.3	102.3	103.1	103.4	104.2	104.1	98.6 ?
3	102.8	103.3	103.8	103.7	103.3	102.7	102.8	102.9	103.5	103.1	102.8	99.8	88.7	82.7	78.5	83.3	86.3	88.6	92.9	94.7	94.8	95.5	95.3	94.7	96.3
4	93.9	93.5	89.4	91.2	95.8	97.1	95.7	89.3	82	77	68.7	68.9	63.8	58.5	51.2	54.4	48.9	48.2	57.8	65.2	68.7	73.8	74.4	79.2	74.4
5	81.4	88.7	89.7	89.9	91	97.1	96	85.9	80.8	80.3	73.4	69.7	69.2	70.5	75.2	76.9	79.7	84.4	90.6	96.9	100.4	102.6	103	100.7	86.4
6	102.6	102.6 ?	?	?	?	?	?	100.5	94	80.9	72.6	67	63.8	66	64.2	62.6	73	74.4	85.5	90.3	95.2	98.3	101.1	103.1	84.1 ?
7	103.6	104.4 ?	?	104.8 ?	?	?	102.3 ?	96.8	88.8	77.5	71.4	66.8	64.7	60.6	58	60.9	65.3	73.7	76.3	77.7	86	92.7	98.8	103	82.6 ?
8	?	?	?	?	?	?	?	103.2 ?	98.2	93.7	87.7	81.5	80.1	80.8	80.7	81.4	80.6	80	87.2	89.6	86.3	89.1	92.7	95.5	87.6 ?
9	98.7	102.9	?	?	103.7 ?	98.6	96	83.7	79.9	74.5	67.4	59.9	59.5	58.3	58.6	56.7	57.2	84.5	91.8	96.9	94.9	96.2	98.8	100.8	82.7
10	99.9	98	100.6	98.3	98.6	90.9	84.3	73.7	68.8	63.4	58	56.7	54.3	52	49.4	48.1	48.7	68.8	75.4	79.9	83.7	85.2	90.1	97.1	76
11	98.3	96.3	100.4	104.1 ?	103.7	102.8	99	93.4	83.9	72.6	68.5	65	62.3	62.3	70.6	70.4	70.1	73	79.4	81.6	81.9	83.2	84.6	91.6	83.3
12	102.7 ?	?	?	?	?	?	?	?	?	?	?	?	?	104.8	104.3	103.6	104.7 ?	105	105 ?	?	?	?	?	?	104.3 ?
13	?	?	?	?	?	?	104.6 ?	102.2	99.4	92.3	85.6	77.4	70.3	62.5	58.1	55.1	53.3	57.5	74.3	87.2	91.1	91.8	95.1	96	80.8 ?
14	97.1	98.6	96.3	95	92.7	94.5	94.2	87.1	81.4	75.8	70.8	65.5	60.9	55.6	52.2	49.3	50.3	61.5	85.3	93.7	97.8	97.2	94.2	94.7	80.9
15	100.5	102.9	?	?	?	?	?	?	97 ?	66.3	55.9	49.9	47.2	47.1	48.2	50.1	54.1	57.5	65.3	70.1	77.2	81.2	86.4	90.7	70.7 ?
16	99.9	102.1	103	104.5 ?	?	?	?	104.4 ?	100.3	96	89.1	80.8	74.7	72.8	73.5	73	74.2	79.8	83.5	90.7	96.3	95.3	96.5	96.8	89.9 ?
17	98.9	101.4	102.5	103	103	103.1	101.3	95.7	89.2	86	82.4	80	78	74.9	73.9	72.5	78	92	93.9	97.1	93.2	91.5	93.4	96.3	90.9
18	97.9	101.7	104.6	?	104.7 ?	104.8 ?	?	102.6	95.1	88.1	89.1	83.1	81.4	79.2	79.4	82.8	86.7	91.8	97.8	100.9	101.1	100.7	102.3	103.6 ?	94.5 ?
19	?	?	?	?	?	?	?	101.9	96.3	87.7	81.8	77.8	75.7	73.4	69.4	75	77.4	81.9	88.6	97.1	100.5	102	103.3	104.3 ?	87.9 ?
20	?	?	?	?	?	?	?	102.4	93	86.2	80.8	77.4	73	72.8	64.1	57.3	56.6	50.8	56.7	59.6	66.6	74	81.4	93.3	73.3 ?
21	97.8	99	99.6	101.3	103.9	104.1	100.5	92.7	81.2	65.5	58.2	55.7	54.1	56.2	63.3	64.5	71.4	75.6	85	90.4	90.1	90.1	89	90.7	82.5
22	93.4	97.6	101.1	103.6	?	?	104.6 ?	101.6	92.5	85.2	84.4	80.5	78.6	76.2	74.4	75.6	77.9	85.7	91.9	96.3	98.6	99.4	97.6	98.3	90.7 ?
23	99.2	100	100.6	101	101.7	103.2	103.1	98.7	96.5	93.2	85.9	75.5	68.7	68.4	69.6	67.2	74.3	85.6	92.2	96.3	99.8	100.6	100.6	102.4	91
24	104.5 ?	?	?	?	?	?	?	101.8 ?	93.6	83.8	77.2	73.5	71.1	68.6	69.4	69.6	74.7	77.5	90.5	93.4	99.7	101.4	103.1	104.6	86.5 ?
25	104.5	104.9 ?	?	?	?	?	104.7 ?	102.3	97	89	82.2	75.3	63.5	56.3	57.3	59.6	69.9	79.1	85.3	89.7	96	97.8	99.8	101.8	85.8 ?
26	103.8	104.8 ?	?	?	?	?	?	103.9 ?	102.4	96	89.2	88.9	89.7	92.8	99.2	101.7	104.2	103.7	105 ?	105 ?	?	?	?	102.4 ?	99.5 ?
27	103.4 ?	?	?	?	?	104.3	104.4	104.5	104.6	102.9	103.5	103.2	101.6	102.6	102.4	101.3	101.9	103.5	104.2	104.3	104.3	103.7	103.3	102.8	103.3 ?
28	103.1	103	101.4	100.6	101.4	100.4	100	100	101.6	101.7	100.6	97.8	97	92.3	91.3	92.2	96.3	96.7	91.4	94.6	95.9	97.5	96.1	94.3	97.8
29	97	103.1	104.6	104.6	102.8	101.6	101	102.6	103.9	101.2	99.5	99.5	100.3	100.7	101.6	102	102.4	102.9	103.4	102	98.3	97.2	99.9	101	101.4
30	100.6	100.5	99.1	99.6	98	98.6	97.7	97.2	92.8	95.1	94.8	93.4	98.7	96.4	90.8	91.8	88.9	86.5	91.8	93.1	100.6	101.4	101.6	101.8	96.3

Avg	99.8	100.7	100.1	100.3	100.5	100.2	99.6	97.6	91.6	85.4	80.4	76.7	73.9	73.4	72.6	73.3	75.9	81.1	87	90.4	92.6	94.4	96.1	98.4	88 ?
SD	4.9	4	4.7	4.8	4.3	4.1	5.1	7.4	9.9	12	13.8	14.2	14.7	16	16.5	17	16.9	15.1	12.4	11	9.6	8	7.2	5.5	9.1
S/A	0.05	0.04	0.05	0.05	0.04	0.04	0.05	0.08	0.11	0.14	0.17	0.19	0.2	0.22	0.23	0.23	0.22	0.19	0.14	0.12	0.1	0.08	0.07	0.06	0.1
Min	81.4	88.7	89.4	89.9	91	90.9	84.3	73.7	66.3	55.9	49.9	47.2	47.1	48.2	49.4	48.1	48.7	48.2	56.7	59.6	66.6	73.8	74.4	79.2	70.7
Max	104.6	105	104.9	104.8	104.7	104.8	104.7	104.5	104.6	103.1	103.5	103.2	101.6	104.8	104.3	103.6	104.7	105	105	105	104.3	103.7	104.2	104.6	104.3
n	282	226	184	158	170	171	186	315	348	348	348	348	348	358	360	360	354	358	345	342	336	336	336	325	7244

Data Recovery: 0.0% missing; 0.0% untested; 16.2% 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.

Prepared by: Afshin M. Andreas, NREL

September 2010

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	21.3	21.2	20.9	20.8	20.3	20	20.4	24.1	29.3	33.4	36.8	39.6	40.3	39.5	38.4	38	37.6	35.4	32.1	28.8	26.8	25.6	24.6	23.7	29.1
2	22.6	21.8	21.6	21.5	21.5	21.3	21.3	21.9	24.4	27.7	29.8	30.6	31.9	32.3	32.7	32.1	30.3	28.5	27.3	26.6	26.3	26.2	26	25.8	26.3
3	26.1	25.9	25.5	25.2	25	24.9	24.8	24.5	24.1	24	23.8	22.8	22.3	24.4	26.9	28.9	29.5	29.7	29.2	26.7	25.5	25.2	25	24.8	25.6
4	24.5	24.3	24	23.7	23	22.2	22.1	24.6	27.6	28.4	30.7	32.8	33.6	32.8	32.5	32.6	32.9	32.6	30.1	25.4	22.3	20.5	19.1	18.1	26.7
5	17.1	16.5	15.7	15.3	15.1	14.8	15.3	19.8	24.8	28.4	31.6	33.7	34.3	33.5	32.4	30.7	30.3	29.4	26.3	23.6	21.9	21.1	20.4	20.1	23.8
6	19.7	19.1	18.6	18.1	17.9	17.8	18.4	22.2	26.4	29.5	31.9	33.6	34.5	34.1	33.4	33.4	32.9	31.4	28.6	25.1	23.3	22.2	21.3	20.9	25.6
7	20.5	20	19	18.5	18	17.8	18.4	22.8	28.1	32.9	36.4	38.1	38.3	36.9	35.9	35.6	34.6	32.8	29.7	26.3	24.2	23	22.3	22	27.2
8	22.1	22.2	22.2	22.1	22.1	22	22.3	24.4	27.6	30.5	32.6	34.1	34	33.5	33.2	33.3	33.1	32.5	31	28.2	26.8	25.8	24.7	23.8	27.7
9	23.1	22.3	21.1	20.1	19.4	18.7	19	22.6	27.1	30.6	33.3	35.2	34.9	33.6	33.4	33.7	34	32.6	27.9	23.6	21.6	21	20.7	20.1	26.2
10	19.6	19.6	19	18.3	17.9	17.3	17.4	19.3	23.2	26.1	27.6	29.1	30.2	30.5	31.6	32.6	32.6	31	26.4	22.3	20.2	18.9	18	17	23.6
11	15.9	15.5	15.3	14.4	13.6	13.2	14	18	23.1	27.2	29.9	32.2	32.9	32.5	31.2	29.1	27.5	25.7	23.9	22.5	21.9	21.7	21.6	21.3	22.7
12	19.9	18.6	18.2	18.1	18.3	18.5	18.8	19	19.3	19.8	20.4	20.8	21.2	21.7	22	22.4	22	21.2	20.8	20.5	20.2	20	19.8	19.7	20.1
13	19.5	19.2	18.8	18.7	18.7	18.7	18.6	19.5	21	23.5	26.9	29.2	30.5	30.7	31.3	32.5	33.2	32.6	29	24.2	21.4	20.3	19.9	19.4	24.1
14	19	18.6	18.2	17.9	17.8	17.7	17.9	20.7	25.2	28.9	31.7	34.2	35.5	35.8	36.3	36.9	36.9	35.8	32.1	27.6	25.2	23.7	22.7	22	26.6
15	21.3	20.4	19.6	18.6	17.7	17.1	17.1	20.7	26.2	31.2	33.7	35.4	36	35.4	34.6	33.8	32.6	30.8	27.7	24.4	22.5	21.4	20.6	20.3	25.8
16	20	19.8	19.8	19.9	19.9	19.9	20.1	22.7	26.6	29.9	32.1	33.4	34.1	34.1	34.3	34.7	34.3	32.8	29.7	27.2	25.9	25.2	24.8	24.4	26.9
17	24.1	23.8	23.4	23.1	22.9	22.7	22.7	24.3	27.1	29.8	32.2	34.5	35.1	35.4	34.9	34.7	34.2	31.9	28	25.2	23.8	23	22.5	22.2	27.6
18	22.4	21.6	20.8	20.3	20	19.7	19.7	21.7	25.3	28.5	30.4	31.1	32.1	32	32	31.8	31.2	29.2	25.4	22.1	20.4	19.6	19.1	18.3	24.8
19	17.4	16.6	16.1	15.8	15.7	15.7	15.8	18.4	22.4	26.1	29.3	31	31.5	31.2	31.5	32	31.2	29.4	25.5	22.1	20.3	19.2	18.6	18.1	23
20	17.3	16.7	16.4	16.2	16	16.1	16.3	18.8	23.1	27	29.6	31.5	31.8	31.6	31.6	31.8	31.5	30.1	26.3	22.6	20.4	18.8	17.6	16.3	23.1
21	14.7	13.8	13.2	12.7	12.2	11.9	12.3	16.9	23.8	29.1	31.3	33.5	34.1	33.1	32.2	31.2	30.1	28.1	24.9	22.2	20.6	19.7	19.2	18.9	22.5
22	18.5	18.1	17.8	17.7	17.9	18	18.6	20.4	24	28	30.9	33	34.4	34.7	35.1	35.5	35	33.2	29.5	26.7	25.3	24.6	24.2	23.9	26
23	23.5	23	22.6	22.1	21.7	21.4	21.2	22.9	26.2	29.7	32.8	36.1	38.3	39.4	39.3	38.8	37.7	34.5	30.6	28.3	26.8	25.7	25.1	24.7	28.9
24	24.3	23.9	23.6	23.2	22.9	22.5	22.3	23.8	27.1	30.6	33.7	35.9	37	37.2	36.9	36.8	36	33.8	30.2	27.2	25.4	24.3	23.7	23.3	28.6
25	22.9	22.5	21.9	21.2	20.7	20.5	20.6	22.9	26.6	30.1	32.9	34.9	35.6	35.7	36	36	35.6	33.3	30	27.7	26.4	25.5	24.8	24.4	27.9
26	24.3	24.1	24	24.1	24.3	24.4	23.9	24.8	26.8	29	32.3	34	33.3	32.1	30.3	27.8	25.4	24	23.2	23.3	23.8	23.9	24	24.1	26.3
27	24.1	23.8	23.3	22.8	22.8	23.1	23.2	23.3	23.5	23.3	22.4	22.9	24	22.5	22.1	22.6	22.7	22.5	22.2	22	21.6	21.1	21	21	22.7
28	21.2	21.8	22.1	22.4	22.6	22.8	22.9	23	23.1	23.1	23.4	23.9	25	26.9	28.5	28.6	28.2	27.2	25.9	24.5	23.3	22.1	21.5	21.2	24
29	21.1	20.7	20.2	20	20	20.1	20.2	20.9	21.8	22	22.2	22.9	23.4	23.3	23.4	23	22.8	22.8	22.5	22.6	22.9	23.6	24	24.2	22.1
30	24.5	24.3	24.6	24.4	24.3	24.5	24.7	24.7	24.8	24.9	25	25.1	24.5	24.5	25.5	25.5	26.2	26.6	26.5	25.6	23.9	21.9	21.3	21.1	24.5
Avg	21.1	20.7	20.2	19.9	19.7	19.5	19.7	21.8	25	27.8	29.9	31.5	32.1	32	32	31.9	31.4	30	27.4	24.8	23.4	22.5	21.9	21.5	25.3
S D	2.9	3	3.1	3.2	3.2	3.3	3.1	2.3	2.3	3.2	4.2	4.9	5	4.7	4.4	4.3	4.3	3.9	3	2.3	2.2	2.3	2.4	2.6	2.3
S/A	0.14	0.14	0.15	0.16	0.16	0.17	0.16	0.1	0.09	0.12	0.14	0.15	0.16	0.15	0.14	0.14	0.14	0.13	0.11	0.09	0.1	0.1	0.11	0.12	0.09
Min	14.7	13.8	13.2	12.7	12.2	11.9	12.3	16.9	19.3	19.8	20.4	20.8	21.2	21.7	22	22.4	22	21.2	20.8	20.5	20.2	18.8	17.6	16.3	20.1
Max	26.1	25.9	25.5	25.2	25	24.9	24.8	24.8	29.3	33.4	36.8	39.6	40.3	39.5	39.3	38.8	37.7	35.8	32.1	28.8	26.8	26.2	26	25.8	29.1
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.

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

September 2010

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	0.1	0.1	0	0	0	0	0.1	0.9	1.2	0.7	0.9	1.8	2.4	2.6	2.3	3.1	3.4	2.3	1.7	1.2	0.9	0.5	0	1.1
2	0	0	0.1	0.1	0.3	0.1	0.1	0.4	2.1	2.8	3.1	3.2	3.6	3.8	4.1	4	3.7	3.7	3.7	4	3.9	4.4	4.5	5.1	2.5
3	5.6	5.7	6.1	5.8	5.4	5.7	5.5	5.9	4.9	4	4.3	4.2	2.8	3.6	2.9	2.3	2.2	1.7	1.2	2	2.1	2.4	2.6	2	3.8
4	2.1	2.1	1.9	1.6	1.5	1.8	1.6	2.1	2.4	1.9	2	2.5	3.2	3.6	3.5	3.5	2.9	1.6	1	0.8	0.5	0.6	0.4	0.3	1.9
5	0.6	0.3	0.8	0.7	0.9	0.2	0.8	1.3	1.6	2	2.3	2	2.3	2.6	3.4	2.7	2.6	1.8	1.6	1.6	1.3	0.1	0.8	0.8	1.5
6	0.1	0.5	0.1	0	0.1	0	0	1.2	2.8	2.8	3	2.3	2.6	3.4	3.4	3.3	3.5	3	1.3	1.4	1	0.4	0.3	0.5	1.5
7	0.3	0	0	0	0	0	0	0.2	0.5	0.5	0.8	1	1.8	2.6	2.5	3.5	3.6	3.5	2.2	1.6	1.4	1.1	1.1	1.3	1.2
8	1.7	1.6	1.3	1.7	1.4	1.7	2.1	3.5	3.8	4.5	4.2	4	4	3.3	3.6	3.8	2.6	2.3	1.7	2.5	2.5	1.7	1.4	2	2.6
9	2.9	2.2	1.6	0.9	0.8	1.2	0.9	1	1.2	1	0.9	1.8	2.5	2.8	2.1	1.9	1.3	3.6	2.7	2.4	2.6	2.3	1.7	1.1	1.8
10	0.7	0.6	1.1	1.6	1.2	1.9	1.3	2.1	2.5	3.4	3.3	2.7	2.2	1.6	1.2	1.8	1.3	2.5	1.8	1.3	0.4	0.5	0.1	0.2	1.6
11	0.2	0.4	0.2	0.7	0.5	0.8	1.3	1.2	1.3	1.8	1.5	1.5	1.1	1	2.7	3.2	2.7	2.6	2.7	2.4	1.8	2.2	1.6	2.4	1.6
12	2	2.6	2.3	2.1	1.9	2.6	3.1	3.1	2	2	1.4	1.2	1.1	1.5	2.1	2.3	2	1.9	1.6	1.7	1.5	1.5	1.4	1.8	1.9
13	1.1	1.5	1.7	1.7	1.9	2	2.2	2.7	2.2	2.7	3	3	3.2	2.9	2.2	1.5	1.1	0.5	0.7	0.4	1	1.7	1.5	1.1	1.8
14	1.1	1.3	1	1.6	1.6	1.5	1.7	2.1	2	2.7	2.3	2.5	2.7	2.6	2.7	2.8	2.2	1.4	1.8	1.7	1.7	1.9	1.3	1.1	1.9
15	0.8	0.8	0.3	0	0.1	0	0.1	0.1	0.8	2	2.3	1.8	1.9	2.3	2.9	3.3	3.4	2.5	2.5	2.1	1.6	0.8	1.3	0.9	1.4
16	0.6	0.5	0.8	0.5	0.6	0.1	0.3	2.2	3.4	3.8	4.6	4.6	5.3	5.1	4.7	4.6	4.8	3.9	4	3.3	4.1	4.5	4	4	3.1
17	4.5	4.6	4	3.1	3.1	3	2.6	3.1	4	3.8	2.7	2.4	2.1	2.1	1.7	1.8	1.7	2.6	2.6	2.4	2.1	1.4	0.8	0.8	2.6
18	0.7	0.6	0.9	1.3	1.3	1	1.2	1.6	3.6	3.3	3.5	2.8	2.4	2.5	2.6	2.9	2.8	2.5	2.2	2	2.1	1.6	0.5	0.2	1.9
19	0.1	0.2	0.2	0.2	0.5	0.7	0.7	2	2.3	2.6	2.8	2.9	2.9	2.9	2.5	2.8	2.4	2	1.6	1.5	0.8	0.5	0.3	0.1	1.5
20	0.2	0.5	0.8	0.5	0.8	0.2	0.8	1.5	2.4	3.3	4.1	3.7	3.6	3.7	3.2	3.3	2.7	2.1	1.3	1	0.4	0.1	0.1	0	1.7
21	0	0.1	0.1	0	0.1	0.1	0.3	0.2	0.2	1.5	1.1	1.3	1.7	2.1	3.1	3.4	3.4	3	2.7	2	1.7	1.1	1.7	0.9	1.3
22	0.4	0.2	0.1	0.4	0	0.1	0.6	2	3.5	3.7	3.5	3.3	3.4	3.6	3.7	4	3.6	3.3	2.7	2.7	3.1	3.4	3.6	3.2	2.4
23	2.7	2	1.3	1.4	1.4	0.8	1.3	2.4	2.5	2.3	1.8	1.9	1.3	1.8	2.4	2.2	3.1	2.6	1.8	1.9	2	2	2.8	2.5	2
24	2.2	1.8	1.3	1.3	1	1.1	1.4	1.7	2.4	2.8	2.8	3	2.8	3.5	3.4	3.7	3.7	3.5	3.1	2.5	2.1	2.8	2.9	3	2.5
25	2.7	2.1	1.6	1.7	2	2.2	2.3	2.7	2.4	2.9	3	3.6	4	3.9	4.1	4.1	4.8	3.8	3.2	2.9	3.2	2.9	2.4	1.8	2.9
26	2.2	2.2	2.9	2.9	2.6	0.6	0.1	0.4	0.5	0.5	1.7	2.1	3.1	2.9	3	1.5	1	1.1	0.5	1.3	0.6	1.3	0.7	1.8	1.6
27	2.1	2.7	1	2.2	2.4	2.6	2.1	3.1	3.5	2.5	0.6	1.4	4.1	3.1	1.4	1	2	1	0.2	1.5	1.8	0.7	0.7	1.6	1.9
28	2.6	2.5	2.6	2.5	2	3	3.8	2.5	2.2	2	2.8	2.9	3.4	4	4.1	3.6	2.5	2.1	2.7	3.2	1.3	0.9	0.4	0.3	2.5
29	0.1	0	0	0.2	1.2	0.7	1.5	2.5	5.7	3.7	1.2	1.3	1.3	2.3	2.8	2	3	1.5	1.8	2.2	4	4.1	4.4	5.9	2.2
30	4.7	5.1	6.2	5.9	6.3	5.7	6.4	6.4	7.5	7.1	6.3	6.9	4.7	4.8	5.2	4	6.2	7.6	6.9	8.3	3	1.7	1.8	0.8	5.4
Avg	1.5	1.5	1.4	1.4	1.4	1.4	1.5	2	2.6	2.7	2.6	2.6	2.8	2.9	3	2.9	2.9	2.6	2.2	2.2	1.9	1.7	1.6	1.6	2.1
S D	1.5	1.5	1.6	1.5	1.5	1.5	1.5	1.5	1.6	1.3	1.3	1.3	1.1	0.9	0.9	0.9	1.2	1.3	1.3	1.4	1	1.2	1.3	1.5	0.9
S/A	1.01	1.02	1.14	1.06	1.02	1.09	1.01	0.73	0.61	0.48	0.51	0.49	0.38	0.32	0.3	0.32	0.4	0.5	0.57	0.62	0.55	0.71	0.8	0.92	0.41
Min	0	0	0	0	0	0	0	0.1	0.2	0.5	0.6	0.9	1.1	1	1.2	1	1	0.5	0.2	0.4	0.4	0.1	0.1	0	1.1
Max	5.6	5.7	6.2	5.9	6.3	5.7	6.4	6.4	7.5	7.1	6.3	6.9	5.3	5.1	5.2	4.6	6.2	7.6	6.9	8.3	4.1	4.5	4.5	5.9	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.

September 2010

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	261	234	247	259	0	0	0	261	219	221	211	189	112	128	130	107	118	119	124	127	140	142	147	147	133
2	0	360	118	97	75	39	14	48	56	51	65	56	62	62	59	48	37	30	29	26	26	28	23	16	40
3	11	358	343	335	318	310	304	296	297	292	274	274	276	267	268	255	229	211	198	192	192	192	195	199	294
4	222	233	242	259	258	266	267	277	287	289	287	257	255	238	234	247	272	283	263	283	281	287	273	236	259
5	272	258	286	312	308	294	304	327	353	26	34	46	62	80	92	82	87	90	89	106	106	131	140	135	64
6	119	344	350	7	0	6	73	86	94	99	90	94	93	117	101	95	106	101	111	122	121	114	117	127	101
7	126	0	157	167	0	0	0	145	146	263	190	213	145	158	173	151	127	123	153	159	161	165	169	187	154
8	194	200	214	217	222	220	223	224	223	229	221	227	233	230	231	229	245	242	219	225	233	231	244	253	227
9	263	280	295	317	339	343	334	7	20	113	211	267	234	266	266	268	309	72	64	59	77	97	75	48	339
10	60	27	350	352	322	336	322	330	337	343	338	326	330	332	340	325	349	79	72	59	28	38	44	220	350
11	356	339	301	267	288	288	300	300	347	30	40	8	344	297	112	110	96	91	90	97	108	109	118	129	81
12	118	124	110	86	80	104	102	104	99	96	75	47	25	356	343	344	346	332	338	353	334	321	331	341	51
13	331	320	314	321	324	319	316	318	333	334	335	332	319	330	334	328	302	266	205	195	206	198	198	216	315
14	219	226	217	225	238	245	252	263	277	275	261	269	268	253	258	263	251	331	10	47	57	60	51	43	269
15	33	30	11	358	261	0	355	31	67	55	63	71	97	91	127	132	124	110	127	135	139	142	137	148	108
16	151	158	162	153	210	177	160	189	183	174	184	175	185	179	180	170	163	162	163	176	181	187	189	190	177
17	191	192	191	198	196	193	203	220	234	253	269	245	243	246	239	223	26	47	61	57	46	51	48	53	211
18	9	357	355	1	8	5	7	17	56	49	45	51	31	21	33	47	45	53	60	66	70	73	53	20	41
19	299	305	303	323	337	323	326	352	22	29	40	20	28	34	46	58	46	48	51	58	54	47	39	303	32
20	300	276	294	298	299	276	282	288	308	340	352	347	344	352	5	24	15	22	42	45	53	42	39	0	350
21	258	305	301	292	293	307	309	301	328	46	33	68	70	91	103	138	120	122	128	131	136	140	141	151	113
22	167	188	169	147	148	180	179	192	192	197	214	202	201	195	183	174	180	165	167	176	184	188	191	193	188
23	196	197	202	197	198	196	223	235	255	250	238	253	208	175	172	175	134	122	150	138	158	179	186	195	191
24	198	197	205	205	208	198	195	204	208	210	210	204	194	183	182	179	166	157	165	163	172	182	189	191	187
25	196	202	218	193	193	188	190	190	200	206	184	183	192	183	178	182	164	155	167	179	183	184	184	193	184
26	191	189	188	192	193	227	263	204	222	30	58	77	73	36	52	63	337	20	66	120	110	120	138	147	119
27	124	137	131	121	130	128	134	134	139	123	199	147	180	188	189	111	103	190	299	282	61	81	96	100	138
28	118	121	131	134	141	150	151	171	169	178	170	177	169	171	171	162	163	171	183	188	192	183	206	163	162
29	159	318	256	73	52	9	50	60	96	107	57	15	27	38	64	46	70	150	129	70	91	82	95	129	84
30	128	123	140	146	136	145	143	144	133	142	153	165	181	142	152	139	128	127	128	130	273	314	15	10	141
Avg	172	180	198	197	205	212	214	225	177	169	198	211	190	169	149	144	121	113	120	124	133	141	148	160	150
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 2010

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	0	0.2	0.6	0.1	0	0	0	0.6	2.1	2.6	2	2.2	3.3	4.3	4.4	4.2	4.6	5.4	3.7	2.8	2.2	1.9	1.5	0.2	2
2	0	0.2	0.3	0.4	1.1	0.7	0.9	1.5	4	5.1	5.5	5.8	6.4	6.8	7.3	7	7.2	7	6.8	7.4	7	8	8.3	8.9	4.7
3	9.9	10.3	10.5	10.1	10.8	10.8	11.1	10.8	9.5	7.9	8.3	7.6	5.7	6.7	5.9	4.6	3.7	3.2	2.2	3.2	3.3	3.8	4.1	3.6	7
4	4	3.8	3.5	3	2.7	3	3.2	4.1	4.9	4.1	4	5	5.9	6.2	6.3	6.4	5.9	3.4	1.9	1.6	1.3	1.5	1.2	0.8	3.6
5	1.4	1	1.9	1.6	1.9	0.9	2.1	3.2	3.3	3.8	4.3	4.2	4.3	4.7	5.5	4.7	4.5	3.3	2.8	2.7	2.3	0.7	1.8	1.8	2.9
6	0.6	1.3	0.5	0.3	0.4	0.1	0.3	2.6	4.6	4.7	5.2	4.4	4.7	5.7	5.8	5.5	5.8	5.1	2.7	2.8	2.3	1.2	1	1.4	2.9
7	1	0	0	0.1	0	0	0	0.5	1.5	1.6	2.4	2.6	3.7	4.6	4.6	5.5	5.7	5.6	3.9	3	2.8	2.7	2.4	2.9	2.4
8	3.2	3.4	3.1	3.6	3	3.5	4.4	6.3	6.8	7.7	8	7.4	6.9	5.8	6.4	6.2	5.1	4.3	3.4	4.6	4.6	3.3	2.9	4	4.9
9	5	4.6	3.8	2	1.9	2	1.6	2.2	2.7	2.2	2.1	3.9	4.4	5.5	4.2	4.2	3	5.8	4.8	4.8	4.7	4	3.4	2.1	3.5
10	1.5	1.3	2	3	2.3	3.7	2.8	4.2	4.9	6.4	6.5	5.4	5	3.9	3.2	3.9	3	4.6	3.2	2.6	1.5	1.4	0.5	0.6	3.2
11	1	1	0.8	1.6	1.4	2.1	2.7	2.7	2.8	3.6	3.3	3.3	2.6	2.7	4.7	5.2	4.7	4.6	4.8	4.4	3.4	4	3	4.3	3.1
12	3.5	4.5	4.2	4.1	3.8	4.6	5.3	5.2	3.7	3.6	2.9	2.8	2.8	3.3	3.9	4.2	4.3	3.8	3.4	3.6	3.7	3.4	3.4	3.6	3.8
13	2.6	3.3	3.9	3.8	3.8	4.1	4.5	5.5	4.9	5.4	5.6	5.4	6.1	5.7	4.4	3.4	2.5	1.1	1.2	1	1.9	2.5	2.5	2.3	3.6
14	2.1	2.1	2	2.5	2.6	2.3	3	3.6	4.2	5.2	4.8	5	5.2	4.8	5.2	5.2	4.1	2.4	3.2	3	3.1	3.1	2.2	1.8	3.4
15	1.4	1.3	0.8	0	0.4	0	0.3	0.6	1.8	3.6	4.1	3.5	3.4	4.2	4.9	5.2	5.2	4.2	3.9	3.4	2.6	1.9	2.4	2.1	2.6
16	1.5	1.5	2	1.4	1.3	0.6	1.1	3.8	5.9	6.4	7.6	8	8.4	8.8	8.4	8	8.2	6.6	7	6.2	7.3	7.7	6.5	6.8	5.5
17	7.3	7.6	6.6	5.9	5.8	5.3	4.9	5.8	7.5	6.8	5.2	4.7	4.2	4.1	3.6	3.5	3.2	4.8	4.6	4.1	4.1	2.7	1.9	1.8	4.8
18	1.5	1.3	1.7	2.4	2.6	2	2.4	3.3	6.7	5.7	6.2	5.1	4.5	4.9	5	5.4	5.3	4.3	4.1	3.8	3.9	3	1.4	0.6	3.6
19	0.7	0.6	0.7	0.9	1.2	1.8	2	3.5	3.9	4.6	4.9	5.1	5.3	5.3	4.9	5.1	4.2	3.7	3	2.9	1.6	1.2	0.9	0.5	2.9
20	0.6	1.3	1.7	1.7	2	1.1	2.1	3.3	4.7	6.1	7	6.7	6.8	7.4	6.1	6	5.1	4.1	2.5	2.1	1.1	0.7	0.6	0	3.4
21	0.1	0.5	0.3	0.1	0.4	0.5	0.9	1	1	2.7	2.4	2.9	3.5	3.5	5.2	5.5	5.3	4.6	4.3	3.4	3.1	2.3	3	2.1	2.4
22	1.2	0.7	0.6	1.1	0.2	0.5	1.6	3.7	6	6.2	6.1	5.9	5.9	6.2	6.2	6.4	6.3	5.9	5.1	4.9	5.8	5.9	5.9	5.3	4.3
23	4.6	3.7	3	2.8	2.7	1.8	2.6	4.3	4.7	4.2	3.6	3.4	2.8	3.7	4.4	4.1	4.9	4.2	3.4	3.4	3.7	3.7	4.6	4.2	3.7
24	4	3.6	3.1	2.6	2.3	2.2	2.6	3.5	4.3	5	5.1	5.7	5.2	6.1	6	6.3	6.3	6.1	5.3	4.8	4	5.1	5.2	5.3	4.6
25	4.7	4	3.3	3.1	3.2	3.5	3.8	4.6	4.3	5	5.3	6.2	6.8	7.1	6.7	6.8	8	6.3	5.9	5.7	5.6	5	4.4	3.7	5.1
26	4	4.1	4.9	5.1	4.6	1.9	0.4	1.2	1.6	1.5	3	3.8	4.7	4.7	5.3	3.2	2.1	2.4	1.7	2.8	1.9	2.7	1.8	3.5	3
27	3.6	4.9	2.1	3.6	4.3	4.6	3.8	5.3	6.3	4.4	2	3	7.3	5.3	3	2	3.7	2.3	1	3.1	3.2	1.8	1.8	2.9	3.5
28	4.5	4.1	4.6	4.3	3.7	5.6	6.7	4.9	4.4	3.7	5.2	5.3	6.4	7.7	7.3	6.6	4.6	4.2	4.9	5.6	2.7	2	1.5	1.2	4.7
29	0.4	0.3	0.3	0.8	2.3	1.5	2.7	4.4	9.9	6.7	2.7	2.4	2.7	4.1	5.2	4.2	5.3	3	3.9	3.9	7	7.3	7.6	10.3	4.1
30	8.4	8.6	10.6	9.7	10.9	9.8	10.8	10.9	12.2	12.2	10.6	11.8	7.9	8.4	9.2	7.3	10.2	12	11	13.4	6.5	3.9	3.4	2	9.2
Avg	2.8	2.8	2.8	2.7	2.8	2.7	3	3.9	4.8	5	4.9	4.9	5.1	5.4	5.4	5.2	5.1	4.6	4	4	3.6	3.3	3	3	4
S D	2.5	2.6	2.7	2.5	2.6	2.6	2.7	2.5	2.5	2.2	2.1	2	1.6	1.5	1.4	1.4	1.7	2	2	2.2	1.8	2	2	2.4	1.5
S/A	0.89	0.91	0.96	0.91	0.95	0.97	0.9	0.63	0.53	0.43	0.43	0.41	0.31	0.28	0.26	0.26	0.35	0.43	0.5	0.55	0.49	0.6	0.67	0.8	0.37
Min	0	0	0	0	0	0	0	0.5	1	1.5	2	2.2	2.6	2.7	3	2	2.1	1.1	1	1	1.1	0.7	0.5	0	2
Max	9.9	10.3	10.6	10.1	10.9	10.8	11.1	10.9	12.2	12.2	10.6	11.8	8.4	8.8	9.2	8	10.2	12	11	13.4	7.3	8	8.3	10.3	9.2
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 2010

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1017	1017	1016	1016	1016	1016	1015	1016	1016	1016	1016	1016	1016	1017
2	1016	1015	1015	1015	1015	1015	1015	1015	1015	1015	1015	1014	1014	1013	1012	1011	1011	1010	1009	1009	1008	1007	1006	1004	1012	
3	1003	1001	1000	1000	999	999	1000	1000	1001	1002	1002	1003	1003	1004	1004	1004	1004	1003	1004	1004	1004	1004	1004	1004	1002	
4	1005	1005	1005	1005	1006	1006	1007	1008	1009	1009	1009	1008	1008	1008	1007	1007	1007	1008	1008	1009	1010	1010	1011	1011	1008	
5	1011	1011	1011	1011	1012	1013	1013	1014	1015	1015	1015	1015	1014	1014	1014	1014	1014	1014	1014	1015	1015	1016	1016	1016	1014	
6	1017	1017	1017	1017	1017	1018	1019	1020	1020	1021	1021	1021	1020	1020	1019	1020	1020	1020	1020	1020	1021	1021	1021	1021	1020	
7	1021	1021	1021	1021	1021	1021	1022	1023	1023	1023	1023	1022	1021	1020	1020	1019	1019	1019	1018	1018	1018	1018	1018	1018	1020	
8	1017	1016	1016	1015	1015	1015	1015	1015	1014	1014	1013	1012	1012	1011	1010	1009	1009	1009	1008	1009	1009	1009	1010	1010	1012	
9	1010	1010	1010	1010	1010	1010	1011	1011	1012	1012	1012	1011	1010	1009	1008	1008	1008	1008	1009	1009	1010	1010	1010	1010	1010	
10	1010	1010	1010	1010	1011	1011	1012	1012	1012	1012	1012	1012	1011	1011	1011	1010	1011	1011	1012	1012	1013	1013	1013	1013	1011	
11	1013	1013	1013	1013	1013	1014	1014	1015	1015	1015	1015	1015	1014	1014	1013	1013	1013	1013	1013	1014	1014	1014	1014	1014	1014	
12	1013	1013	1012	1012	1012	1011	1011	1011	1011	1011	1011	1011	1011	1010	1010	1010	1011	1011	1012	1012	1013	1013	1013	1012	1012	
13	1013	1012	1013	1013	1013	1014	1015	1015	1015	1016	1015	1015	1015	1014	1013	1013	1013	1013	1013	1013	1013	1013	1013	1013	1014	
14	1013	1013	1012	1012	1013	1013	1013	1014	1014	1014	1014	1013	1013	1012	1012	1011	1011	1012	1012	1013	1014	1014	1014	1015	1013	
15	1015	1015	1015	1016	1016	1016	1017	1018	1019	1019	1019	1019	1018	1018	1017	1017	1017	1017	1017	1018	1018	1018	1018	1017	1017	
16	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1017	1016	1015	1014	1014	1013	1013	1013	1013	1013	1013	1013	1013	1013	1015	
17	1013	1012	1012	1012	1013	1013	1013	1013	1014	1014	1014	1013	1013	1013	1012	1012	1013	1013	1014	1015	1015	1016	1016	1016	1014	
18	1016	1016	1016	1016	1017	1018	1018	1019	1020	1020	1020	1020	1019	1019	1018	1018	1018	1018	1018	1019	1018	1018	1019	1019	1018	
19	1018	1018	1018	1018	1018	1018	1018	1019	1019	1019	1018	1018	1017	1016	1015	1015	1015	1014	1014	1014	1015	1014	1014	1013	1016	
20	1013	1012	1011	1011	1012	1012	1012	1013	1013	1014	1014	1014	1014	1013	1013	1013	1013	1014	1014	1015	1016	1016	1017	1017	1014	
21	1017	1018	1018	1018	1019	1020	1020	1021	1022	1022	1022	1021	1021	1020	1020	1020	1019	1019	1019	1020	1020	1020	1019	1019	1020	
22	1019	1020	1020	1020	1020	1021	1021	1021	1021	1021	1020	1019	1019	1018	1017	1017	1016	1017	1017	1018	1018	1018	1019	1019	1019	
23	1019	1019	1019	1019	1019	1019	1020	1020	1021	1021	1021	1021	1020	1020	1019	1018	1018	1018	1018	1019	1020	1020	1020	1020	1019	
24	1020	1020	1020	1020	1020	1020	1020	1021	1021	1021	1020	1020	1019	1018	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1018	
25	1016	1016	1015	1015	1014	1014	1014	1014	1014	1014	1013	1013	1012	1011	1010	1009	1009	1009	1009	1010	1010	1010	1010	1011	1012	
26	1011	1011	1010	1010	1010	1010	1011	1011	1012	1012	1012	1012	1011	1010	1010	1010	1011	1011	1010	1011	1011	1011	1011	1011	1011	
27	1011	1010	1010	1010	1010	1010	1010	1010	1011	1011	1010	1010	1010	1010	1009	1009	1009	1010	1010	1010	1008	1008	1008	1007	1010	
28	1005	1005	1005	1004	1004	1004	1004	1005	1005	1005	1005	1006	1005	1005	1005	1005	1005	1005	1006	1007	1007	1008	1009	1009	1006	
29	1009	1009	1008	1008	1008	1009	1010	1010	1010	1010	1010	1010	1010	1009	1009	1008	1008	1008	1008	1007	1007	1006	1005	1004	1008	
30	1004	1003	1002	1002	1001	1001	1001	1001	1001	1001	1001	1001	1001	1000	1000	1000	999	998	998	996	998	997	997	997	1000	
Avg	1013	1013	1013	1013	1013	1013	1014	1014	1014	1015	1014	1014	1014	1013	1012	1012	1012	1012	1012	1013	1013	1013	1013	1013	1013	
S D	5	5	5	5	5	6	6	6	6	6	5	5	5	5	5	5	5	5	5	5	5	5	6	5		
S/A	0	0	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	0	0	0.01	0.01	0.01	0.01	0.01	0		
Min	1003	1001	1000	1000	999	999	1000	1000	1001	1001	1001	1001	1001	1000	1000	1000	999	998	998	996	998	997	997	997	1000	
Max	1021	1021	1021	1021	1021	1021	1022	1023	1023	1023	1023	1022	1021	1020	1020	1020	1020	1020	1020	1020	1021	1021	1021	1021	1020	
n	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.

Prepared by: Afshin M. Andreas, NREL

September 2010

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	12.6	12.6	12.6	12.5	12.5	12.5	13	13.2	13.1	13	13	12.9	12.9	12.9	13	13	13	12.9	12.7	12.7	12.7	12.7	12.7	12.6	12.8
2	12.6	12.6	12.6	12.6	12.5	12.5	12.6	13	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8
3	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.6	12.7	13.1	13.3	13.2	13.2	13.1	13.1	13	12.8	12.8	12.8	12.7	12.7	12.7	12.8
4	12.7	12.7	12.7	12.6	12.6	12.6	12.9	13.2	13.2	13.1	13.1	13	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
5	12.6	12.6	12.6	12.6	12.6	12.6	13.2	13.3	13.2	13.1	13.1	13	13	13.1	13.1	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
6	12.7	12.7	12.7	12.6	12.6	12.6	13.1	13.3	13.2	13.1	13.1	13	13	13.1	13.1	13.1	13.1	12.9	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	13.1	13.3	13.1	13	13	12.9	13	13	13	13	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8
8	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.2	13.2	13.1	13.1	13	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
9	12.7	12.7	12.6	12.6	12.6	12.6	13.1	13.3	13.2	13.1	13	13	13	13.1	13	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
10	12.7	12.6	12.6	12.6	12.6	12.6	12.9	13.4	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
11	12.7	12.6	12.6	12.6	12.6	12.6	13.2	13.4	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.2	13.2	12.9	12.8	12.8	12.7	12.7	12.7	12.7	12.9
12	12.7	12.7	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.7	12.8	12.9	13.2	13.2	13.2	12.9	12.8	12.8	12.7	12.7	12.7	12.6	12.6	12.6	12.8
13	12.6	12.5	12.5	12.5	12.5	12.5	12.8	13.4	13.3	13.2	13.2	13.1	13.1	13.1	13.1	13.1	13.1	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.9
14	12.7	12.7	12.6	12.6	12.6	12.6	13.1	13.3	13.2	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
15	12.7	12.6	12.6	12.6	12.6	12.6	13.2	13.3	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	12.9
16	12.7	12.6	12.6	12.6	12.6	12.6	13	13.3	13.2	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
17	12.7	12.7	12.6	12.6	12.6	12.6	12.9	13.2	13.2	13.1	13.1	13	13	13	13	13	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
18	12.7	12.7	12.6	12.6	12.6	12.6	12.9	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
19	12.7	12.6	12.6	12.6	12.6	12.6	13.1	13.4	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.8	12.7	12.7	12.7	12.7	12.7	12.9
20	12.7	12.7	12.6	12.6	12.6	12.6	13.1	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
21	12.7	12.6	12.6	12.6	12.6	12.5	13.2	13.4	13.2	13.1	13.1	13	13	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	12.6	12.6	12.6	12.6	12.6	12.8	13.3	13.2	13.1	13.1	13.1	13	13	13	13	13	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	13.3	13.2	13.1	13	13	13	12.9	12.9	13	13	12.8	12.8	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	12.8	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
25	12.6	12.6	12.6	12.6	12.6	12.6	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
26	12.7	12.6	12.6	12.6	12.6	12.6	12.7	13.2	13.1	13.1	13.1	13	13.1	13.1	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.8
27	12.6	12.6	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.7	13.2	12.8	12.9	13.2	13	12.8	12.7	12.7	12.6	12.6	12.5	12.5	12.5	12.7
28	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.6	13.1	13.2	13.2	13.1	13.1	13	12.8	12.7	12.7	12.7	12.7	12.7	12.6	12.7
29	12.6	12.6	12.6	12.6	12.5	12.5	12.5	12.5	12.5	12.7	13	13.2	13.1	13	12.8	12.7	12.7	12.7	12.6	12.6	12.5	12.5	12.5	12.5	12.7
30	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.9	12.9	12.7	12.6	12.5	12.5	12.5	12.5	12.4	12.4	12.4	12.5
Avg	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.1	13.1	13	13	13	13.1	13	13	13	13	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8
S D	0	0	0	0	0	0	0.2	0.3	0.3	0.2	0.2	0.1	0.1	0.1	0.1	0.1	0.1	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	0.02	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0.01	0.01	0.01	0.01	0.01
Min	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.5	12.6	12.9	12.8	12.7	12.6	12.5	12.5	12.5	12.4	12.4	12.4	12.4	12.5
Max	12.7	12.7	12.7	12.6	12.6	12.6	13.2	13.4	13.3	13.2	13.2	13.2	13.3	13.2	13.2	13.2	13.2	13	12.8	12.8	12.8	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.