

**September 2004**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	4	32	94	143	294	460	452	466 ?	456 ?	?	?	158 ?	96	31	0	0	0	0	0	2687 ?
2	0	0	0	0	0	9	65 ?	344 ?	500 ?	?	?	?	?	811 ?	725	528	324	129	19	0	0	0	0	0	3454 ?
3	0	0	0	0	0	7	76	218	370	356	398	472	417	723	653	385	177	43	17	0	0	0	0	0	4313
4	0	0	0	0	0	15	48	171	325	488	443	378	658	485	529	503	299	70	15	0	0	0	0	0	4426
5	0	0	0	0	0	6	54	171	267	347	629	538	534	643	527	349	324	73	14	0	0	0	0	0	4474
6	0	0	0	0	0	5	38	109	250	403	745	524	487	814	727	317	78	51	11	0	0	0	0	0	4562
7	0	0	0	0	0	6	98	251	467	714	581	544	427	375	196	250	100	57	8	0	0	0	0	0	4074
8	0	0	0	0	0	5	30	71	168	240	338	350	271	490	256	224	114	75	13	0	0	0	0	0	2645
9	0	0	0	0	0	22 ?	38	39 ?	75	459	571	752	405	363	447	434	284	60	7	0	0	0	0	0	3956
10	0	0	0	0	0	8	75	249	479	667	733	635	769	490	514	298	198	64	3	0	0	0	0	0	5182
11	0	0	0	0	0	4	32	41	108	150	186	222	310	290	202	184	130	56	12	0	0	0	0	0	1928
12	0	0	0	0	0	6	69	274	482	657	810	888	861	812	679	507	296	90	2	0	0	0	0	0	6432
13	0	0	0	0	0	5	106	274	422	661	683	711	694	655	654	464	206	38	2	0	0	0	0	0	5575
14	0	0	0	0	0	6	54	101	182	224	256	309	301	236	162	140	72	15	0	0	0	0	0	0	2059
15	0	0	0	0	0	6	43	112	229	324	446	481	170	454	430	218	140	34	2	0	0	0	0	0	3091
16	0	0	0	0	0	4	47	272	452	627	787	558	468	416	234	270	95	28	1	0	0	0	0	0	4258
17	0	0	0	0	0	10	64	157	274	593	513	324	615	655	629	388	156	47	2	0	0	0	0	0	4426
18	0	0	0	0	0	3	78	177	154	213	187	174	124	103	65 ?	38 ?	27	5 ?	0	0	0	0	0	0	1346
19	0	0	0	0	0	2	20	134	326	543	646	737	738	608	598	443	240	74	0	0	0	0	0	0	5109
20	0	0	0	0	0	2	33	133	422	422	398	529	578	581	582	469	264	66	0	0	0	0	0	0	4477
21	0	0	0	0	0	5	82	257	483	650	774	841	827	759	596	447	191	55	0	0	0	0	0	0	5966
22	0	0	0	0	0	4	72	262	462	633	756	824	820	741	610	438	231	52	0	0	0	0	0	0	5904
23	0	0	0	0	0	4	68	255	455	628	751	808	802	731	602	425	223	50	0	0	0	0	0	0	5803
24	0	0	0	0	0	4	47	260	293	381	586	837	848	767	618	419	240	44	0	0	0	0	0	0	5343
25	0	0	0	0	0	4	70	247	455	372	617	492	761	775	644	451	184	41	0	0	0	0	0	0	5115
26	0	0	0	0	0	4	50	198	349	613	688	653	840	750	608	330	170	42	0	0	0	0	0	0	5293
27	0	0	0	0	0	1	32	79	144	227	200	119	361	392	437	179	134	25	0	0	0	0	0	0	2330
28	0	0	0	0	0	2	47	108	231	329	130	672	580	396	131 ?	265	71 ?	3	0	0	0	0	0	0	2964
29	0	0	0	0	0	0	57	210	370	377	431	443	464	479	365	401	139	29	0	0	0	0	0	0	3764
30	0	0	0	0	0	0	51	220	407	582	722	643	556	284	153	168	181	27	0	0	0	0	0	0	3994
Avg	0	0	0	0	0	5	56	183	325	454	533	549	557	551	468	343	181	51	5	0	0	0	0	0	4165
S D	0	0	0	0	0	4	21	81	132	169	207	208	214	197	204	128	80	27	8	0	0	0	0	0	1322
S/A	0	0	0	0	0	0.8	0.37	0.44	0.41	0.37	0.39	0.38	0.38	0.36	0.44	0.37	0.44	0.52	1.47	0	0	0	0	0	0.32
Min	0	0	0	0	0	0	20	39	75	150	130	119	124	103	65	38	27	3	0	0	0	0	0	0	1346
Max	0	0	0	0	0	22	106	344	500	714	810	888	861	814	727	528	324	129	31	0	0	0	0	0	6432
n	0	0	0	0	0	77	354	346	355	348	346	347	343	350	339	342	346	341	57	0	0	0	0	0	4291

Daylight Data Recovery: 0.0% missing; 3.3% exceed the 15% QC threshold -- 4439 total daylight measurements.

Instrument: Eppley PSP    Serial Number: 31256F3    Calibration Factor: 7.561 μV/W/m<sup>2</sup>    Calibration Date: 08/2003

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

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

September 2004

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	0	0	0	0	0	0	1	0	1	2	2	1	2 ?	47 ?	?	?	0 ?	0	0	0	0	0	0	0	0	56 ?
2	0	0	0	0	0	0	0 ?	?	?	?	?	?	?	694 ?	685	598	525	373	113	0	0	0	0	0	2989 ?	
3	0	0	0	0	0	0	43	144	191	65	41	120	111	483	506	250	77	0	0	0	0	0	0	0	2031	
4	0	0	0	0	0	0	39	12	72	118	122	3	246	89	220	493	362	11	0	0	0	0	0	0	1789	
5	0	0	0	0	0	0	13	71	57	47	284	142	169	340	392	250	482	31	0	0	0	0	0	0	2277	
6	0	0	0	0	0	0	1	1	14	103	424	157	204	712	738	191	2	0	0	0	0	0	0	0	2547	
7	0	0	0	0	0	0	249	403	612	820	397	244	15	2	0	3	0	0	0	0	0	0	0	0	2747	
8	0	0	0	0	0	0	0	0	1	1	1	10 ?	9	155	41	8	4	16	1	0	0	0	0	0	247	
9	0	0	0	0	0	0	2	1	1	119	226	387	35	30	104	325	446	93	0	0	0	0	0	0	1770	
10	0	0	0	0	0	0	79	409	640	719	565	335	439	207	279	146	88	33	0	0	0	0	0	0	3939	
11	0	0	0	0	0	0	0	0	0	0	0	1	1	2	0	0	0	9	20	0	0	0	0	0	35	
12	0	0	0	0	0	10	183	531	700	730	850	869	827	818	785	763	654	343	0	0	0	0	0	0	8063	
13	0	0	0	0	0	8	216	291	336	532	387	362	334	442	573	507	230	1	0	0	0	0	0	0	4219	
14	0	0	0	0	0	5	21	0	3	1	2	2	1	0	0	0	0	0	0	0	0	0	0	0	35	
15	0	0	0	0	0	0	0	10	20	151 ?	118	78	6 ?	111	253	116	190	124	0	0	0	0	0	0	1177	
16	0	0	0	0	0	0	1	391	562	682	629	189	65	57	5	21	0	0	0	0	0	0	0	0	2601	
17	0	0	0	0	0	16	73	46	105	416	183	52	267	410	594	430	108	34	0	0	0	0	0	0	2734	
18	0	0	0	0	0	0	271	200	0	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	474	
19	0	0	0	0	0	0	0	42	177	324	416	538	466	357	533	499	438	268	0	0	0	0	0	0	4059	
20	0	0	0	0	0	0	0	54	386	172	42	73	200	332	480	675	652	325	0	0	0	0	0	0	3390	
21	0	0	0	0	0	11	307	656	786	838	863	880	859	845	731	666	413	221	0	0	0	0	0	0	8076	
22	0	0	0	0	0	8	300	603	746	817	847	865	855	828	795	740	591	278	0	0	0	0	0	0	8272	
23	0	0	0	0	0	5	254	563	714	783	816	824	809	779	746	672	532	222	0	0	0	0	0	0	7718	
24	0	0	0	0	0	0	40	374	231	214	400	803	865	845	765	582	485	109	0	0	0	0	0	0	5714	
25	0	0	0	0	0	0	212	516	653	132	335	280	573	709	796	717	363	124	0	0	0	0	0	0	5410	
26	0	0	0	0	0	0	6	394	563	608	496	353	689	734	648	317	135	17	0	0	0	0	0	0	4959	
27	0	0	0	0	0	0	0	0	1	1	1	0	16	39	142	0	34	0	0	0	0	0	0	0	233	
28	0	0	0	0	0	0	8	2	14	86	10	433	343	140	4 ?	100	0	0	0	0	0	0	0	0	1140	
29	0	0	0	0	0	0	107	373	493	107	52	18	63	135	71	484	109	21	0	0	0	0	0	0	2032	
30	0	0	0	0	0	0	119	390	503	599	607	427	345	87	26	57	307	31	0	0	0	0	0	0	3498	
Avg	0	0	0	0	0	2	85	223	296	317	314	291	304	348	376	331	241	89	4	0	0	0	0	0	3141	
S D	0	0	0	0	0	4	108	227	291	312	296	303	311	315	312	273	231	121	21	0	0	0	0	0	2507	
S/A	0	0	0	0	0	1.98	1.27	1.01	0.98	0.98	0.94	1.04	1.02	0.91	0.83	0.82	0.96	1.35	4.66	0	0	0	0	0	0.8	
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	35	
Max	0	0	0	0	0	16	307	656	786	838	863	880	865	845	796	763	654	373	113	0	0	0	0	0	8272	
n	0	0	0	0	0	78	354	345	348	344	347	342	337	350	343	348	352	344	57	0	0	0	0	0	4289	

Daylight Data Recovery: 0.0% missing; 3.4% exceed the 15% QC threshold -- 4439 total daylight measurements.

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

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

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

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

**September 2004**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0	0	0	0	5	32	94	142	290	440	439	397 ?	333 ?	?	?	131 ?	84	32	0	0	0	0	0	2418 ?
2	0	0	0	0	0	10	31 ?	83 ?	99 ?	?	?	?	197 ?	190	158	99	55	12	0	0	0	0	0	0	934 ?
3	0	0	0	0	0	9	65	155	250	304	362	356	312	288	251	232	137	43	17	0	0	0	0	0	2781
4	0	0	0	0	0	15	43	168	280	388	338	378	414	400	325	191	140	67	15	0	0	0	0	0	3162
5	0	0	0	0	0	6	50	145	235	310	374	408	368	344	215	188	122	65	14	0	0	0	0	0	2845
6	0	0	0	0	0	6 ?	38	109	245	322	367	378	312	186	168	185	75	51	11	0	0	0	0	0	2454
7	0	0	0	0	0	7 ?	33	78	98	109	224	288	415	375	196	250	100	57	8	0	0	0	0	0	2238
8	0	0	0	0	0	6 ?	30	71	168	240	338	347	263	348	223	220	114	73	13	0	0	0	0	0	2453
9	0	0	0	0	0	?	36	31	71	368	359	385	376	341	370	246	111	43	7	0	0	0	0	0	2744
10	0	0	0	0	0	7	58	89	116	143	242	320	355	312	280	203	160	60	3	0	0	0	0	0	2349
11	0	0	0	0	0	4	32	41	108	150	186	222	310	290	202	184	130	54	12	0	0	0	0	0	1925
12	0	0	0	0	0	6	39	65	87	124	92	103	108	113	103	78	56	30	1	0	0	0	0	0	1004
13	0	0	0	0	0	6 ?	56	153	215	270	343	370	381	264	230	184	109	37	2	0	0	0	0	0	2620
14	0	0	0	0	0	8 ?	51	101	182	224	256	309	301	236	162	140	72	15	0	0	0	0	0	0	2057
15	0	0	0	0	0	9 ?	43	107	215	243	341	418	149	342	255	140	85	27	2	0	0	0	0	0	2376
16	0	0	0	0	0	5 ?	47	115	135	138	262	367	398	365	230	255	95	28	1	0	0	0	0	0	2441
17	0	0	0	0	0	11 ?	57	140	209	290	354	281	363	298	203	137	115	41	2	0	0	0	0	0	2501
18	0	0	0	0	0	3	26	116	154	213	187	174	124	103	54	35	27	6	0	0	0	0	0	0	1221
19	0	0	0	0	0	2	20	113	218	290	276	247	307	299	219	176	100	33	0	0	0	0	0	0	2302
20	0	0	0	0	0	2	33	110	198	283	358	446	380	296	236	113	48	20	0	0	0	0	0	0	2522
21	0	0	0	0	0	5 ?	24	45	49	61	70	70	78	74	88	101	62	25	0	0	0	0	0	0	751
22	0	0	0	0	0	5 ?	27	53	62	68	72	70	70	71	67	58	48	19	0	0	0	0	0	0	691
23	0	0	0	0	0	4	30	58	72	85	90	93	101	107	98	82	57	22	0	0	0	0	0	0	899
24	0	0	0	0	0	?	37	107	155	235	255	135	96	90	92	108	82	26	0	0	0	0	0	0	1419
25	0	0	0	0	0	?	33	64	100	286	327	253	262	217	112	88	67	24	0	0	0	0	0	0	1832
26	0	0	0	0	0	?	44	76	89	172	279	337	238	162	167	151	121	38	0	0	0	0	0	0	1873
27	0	0	0	0	0	0	32	79	144	227	200	119	352	359	334	179	123	25	0	0	0	0	0	0	2174
28	0	0	0	0	0	?	45	99	225	267	104	267	283	279	107 ?	186	49	3	0	0	0	0	0	0	1914
29	0	0	0	0	0	0	35	70	117	302	383	426	404	359	318	165	103	25	0	0	0	0	0	0	2706
30	0	0	0	0	0	0	31	92	146	182	248	294	257	204	137	136	96	23	0	0	0	0	0	0	1846
Avg	0	0	0	0	0	6	39	94	153	227	266	286	282	255	194	157	94	37	5	0	0	0	0	0	2048
S D	0	0	0	0	0	3	11	35	64	88	105	118	114	102	84	58	33	20	8	0	0	0	0	0	680
S/A	0	0	0	0	0	0.62	0.29	0.37	0.42	0.39	0.39	0.41	0.4	0.4	0.43	0.37	0.35	0.53	1.49	0	0	0	0	0	0.33
Min	0	0	0	0	0	0	20	31	49	61	70	70	70	71	54	35	27	3	0	0	0	0	0	0	691
Max	0	0	0	0	0	15	65	168	280	388	440	446	415	400	370	255	160	84	32	0	0	0	0	0	3162
n	0	0	0	0	0	57	353	349	356	348	348	347	345	350	345	348	351	344	56	0	0	0	0	0	4297

Daylight Data Recovery: 0.0% missing; 3.2% exceed the 15% QC threshold -- 4439 total daylight measurements.

Instrument: Eppley PSP    Serial Number: 17880F3    Calibration Factor: 8.067 μV/W/m<sup>2</sup>    Calibration Date: 07/2002

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

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

**September 2004**

**Dry Bulb Temperature (Roof)**  
**Hourly and Daily Averages**  
**Instrument: CSI HMP-35C**  
**Degrees Celsius**

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	23.8	23.6	23.3	23.1	23.1	23.3	23.7	23.7	23.9	24.7	26	26.5	26.7	26.6	26.8	26.4	25.9	24.7	23.7	22.9	22.5	22	21.6	21.4	24.2
2	20.9	20.4	19.8	19	18.7	18.6	19.6	22.2	24.3	25.6	26.3	26.6	26.9	27.1	27	26.3	25.4	24.4	23	22	21.7	21.4	21.2	21.8	22.9
3	22.2	22.4	22.4	22.1	22.1	21.9	22	23.4	24.6	25.2	25.3	25.7	26.6	27.2	27.3	26.7	25.9	24.8	24.3	24	24	23.7	23.5	23.2	24.2
4	23.1	22.7	22.5	22.3	22.2	22.4	22.8	23.5	24.8	25.5	26	25.9	26.5	26.2	26.4	26.6	26.1	24.7	23.8	23.3	23.1	22.8	22.4	21.8	24.1
5	21.4	21.1	21.1	21	21	21.1	21.6	22.4	23.9	24.8	26.2	26.4	26.9	26.8	26.8	26.4	26.3	25.2	24.5	24.4	24.3	24.4	24.2	24	24
6	24	24	23.7	22.8	22.8	23.4	23.6	24.1	24.8	25.5	26.4	26.9	26.8	27.2	28.2	27.7	25.7	25.1	24.5	24.2	24	23.9	23.7	23.6	24.9
7	23.6	23.4	23	22.6	22.5	22.6	23.1	24.2	25.5	27.2	28.1	28.4	27.9	27.8	27.6	27.6	26.8	26.3	25.9	25.5	25	24.8	24.6	24.6	25.4
8	24.7	24.5	24.5	24.8	24.7	24.7	24.8	25.6	26.3	26.9	27.5	27.9	25.8	27.4	27.8	28.1	25.2	25.4	26	26.1	26	26.2	26.3	26.3	26
9	26.4	26.6	26.6	26.7	26.6	24.8	23.8	23.7	23.9	24.9	26.7	27.9	27.7	27.7	28.3	28.6	28.4	27.3	26.3	26	25.8	25.4	25.2	24.6	26.2
10	23.5	23.3	23.3	22.7	22.2	22.1	22.3	23.5	24.9	25.9	26.7	26.9	27.3	27.1	27.1	26	25.2	24.3	23.3	23	22.7	21.8	21.1	21	24
11	21.3	21.5	21.5	21	20.8	20.6	20.9	21.3	21.7	22.6	23.4	23.9	24.3	24.4	24.4	24.1	24	23.5	22.8	22.1	21.7	21.4	20.9	20.5	22.3
12	20	19.3	18.9	18.5	18.4	18.4	19.2	20.6	22.5	23.9	24.8	25.2	25.6	25.5	25.3	25.2	24.4	23	21.4	20.7	20.2	19.3	18.7	18	21.5
13	17.7	17.9	17.7	17.5	17.5	17.8	18.4	20.4	22.4	24.3	25.2	25.3	25.5	25.5	25.6	25.3	24.7	23.2	22.3	21.9	21.6	21.4	21.2	20.7	21.7
14	20.3	20.2	19.6	19.6	19.3	19.5	19.4	20.2	21.4	23	23.5	23.6	23.9	23.8	23.6	23.5	23.4	22.7	21.8	21.6	21.2	22	23	22.9	21.8
15	22.8	22.9	22.8	22.9	23.1	23.2	23.3	23.9	24.1	24.7	25.8	27	24.1	24.8	25.2	25.4	24.6	24.4	23.5	23	22.7	22.4	22.4	22.6	23.8
16	22.3	22.1	21.7	21.2	20.7	20.3	20.5	21.9	24.2	25.8	26.5	27.5	27.7	28.1	27.3	27.2	26.9	26.2	25.5	25	24.7	24.3	24.1	23.9	24.4
17	23.7	23.5	23.4	23.6	23.8	24	24.4	25.2	25.9	27.3	28.2	28.2	29.2	29.4	29.5	29.2	28.4	27.8	27.3	27.2	27.1	26	24	23.8	26.3
18	23.4	23.6	23.6	23.2	22.8	20.9	20.9	21.4	21.2	20.5	19.6	19.8	19.3	18.7	18.2	17.6	17.4	17.5	17.6	17.7	18	18.3	18.2	18.7	19.9
19	18.6	18.1	18.1	17.9	17.5	17	16.7	16.7	17.2	17.7	18.3	18.5	19	19.2	19.2	19	18.7	17.8	16.7	16.2	15.9	15.8	15.6	15.5	17.5
20	16.5	17.7	17.6	17.2	17.3	17.4	17.5	17.9	18.7	19.1	18.9	19.5	19.7	20	20.2	20	19.6	18.6	17.4	16.5	15.8	15.6	15.1	14.2	17.8
21	13.3	13.1	12.8	12.7	12.3	12.3	12.5	15.5	18.6	20.2	21.6	22.7	23.9	25	25.4	25.4	24.9	23.8	21.8	20.5	19.4	17.9	17.4	16.7	18.7
22	16.2	15.6	15.7	15.8	15.3	14.9	15.5	18.9	22.3	24.9	26.8	28.3	29.1	29.8	30.2	29.6	28.3	26.7	24.2	22.2	20.7	19.9	19.2	18.8	22
23	17.7	17.6	17.5	17.5	16.7	16.1	16.7	19.7	22.3	24.3	25.8	27.1	27.9	27.2	26.4	25.9	25.3	23.9	22.1	21.2	20.5	20	19.8	19.5	21.6
24	19.2	18.8	18.6	18.5	18.9	19.5	20.1	21.2	21.9	22.8	23.3	23.9	24.1	24.2	23.7	23.3	22.6	21.4	20.3	19.6	18.8	18.7	18	17.5	20.8
25	17.5	17.6	17.7	17.8	17.5	17	17.8	20.2	22.3	23.8	24.5	24.9	25.5	26	26.3	25.9	24.8	23.2	21.7	20.9	20.2	19.8	19.1	18.7	21.3
26	18.8	18.6	18.3	18.5	18.4	17.3	17.4	18.7	20.6	23.3	24.9	25	25.8	25.9	25.9	25	23.8	22.7	21.7	21.2	21.3	21.6	21.6	21.4	21.6
27	21.5	21.5	21.6	22	22.2	22.4	22.2	22.7	23.6	24.1	24.4	24.3	24.7	24.7	25.3	24.5	24.1	23.8	23.4	23.3	23.2	22.9	22.7	22.8	23.2
28	22.6	23	23.3	23.5	23.6	23.7	23.9	24.9	25.6	26	25	26.1	27.7	28.1	25.1	24.8	24.5	24	22.4	22.5	22.9	22.2	20.7	20.8	24
29	20.7	20.8	20.6	20.3	20	19.8	19.7	20.2	21.4	22.1	22.5	23.2	23.3	23.9	23.6	23.7	22.6	21.5	20.5	20.1	19.8	19.8	19.8	19.4	21.2
30	19.3	19.3	19.4	19.6	19.2	19	19.3	20.6	21.6	23	24	25.1	25.2	24.9	24	23.8	23.7	22.3	21.5	20.9	20.6	20.5	20.3	20.1	21.6
Avg	20.9	20.8	20.7	20.5	20.4	20.2	20.5	21.6	22.9	24	24.7	25.3	25.5	25.7	25.6	25.3	24.6	23.7	22.7	22.2	21.8	21.5	21.2	21	22.6
S D	3	3	3	3	3.1	3.1	3	2.5	2.2	2.3	2.5	2.6	2.6	2.7	2.7	2.5	2.5	2.5	2.6	2.7	2.7	2.8	2.9	2.3	
S/A	0.14	0.14	0.14	0.15	0.15	0.15	0.15	0.12	0.1	0.1	0.1	0.1	0.1	0.11	0.11	0.1	0.1	0.11	0.12	0.12	0.13	0.13	0.14	0.1	
Min	13.3	13.1	12.8	12.7	12.3	12.3	12.5	15.5	17.2	17.7	18.3	18.5	19	18.7	18.2	17.6	17.4	17.5	16.7	16.2	15.8	15.6	15.1	14.2	17.5
Max	26.4	26.6	26.6	26.7	26.6	24.8	24.8	25.6	26.3	27.3	28.2	28.4	29.2	29.8	30.2	29.6	28.4	27.8	27.3	27.2	27.1	26.2	26.3	26.3	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% 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 2004**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	?	?	?	?	?	104.8 ?	104.1	102.3	96.4	91.4	83.9	80.7	79.3	79	70.8	69.6	71.8	78.1	83.3	88.4	90.8	92.2	92.3	92.9	87 ?
2	97.3	97.3	98.5	101.1	101.5	101.1	98.8	91.8	81.6	73.6	70.2	65.2	63.7	62.4	66	70	72.7	78.2	83.3	90.8	96.8	99.3	101	101.4	86
3	101.3	101.4	101.5	102.1	101.3	102.2	102.7	99.7	96.2	94.6	95.5	95.3	92.1	88.8	87	89.8	92.2	96.2	98.6	100.1	100.6	102.1	103.4	104.1	97.9
4	104.7	?	?	?	?	104.8 ?	104.5	103.3	98.2	94	90.4	91.5	88	89.9	87.6	85.9	88.5	95.6	98.6	100.6	101.1	101.2	101.5	103.4	96.7 ?
5	104.7	?	104.6 ?	104.4	104.3	104.3	104.1	102.8	100.4	97.6	90.8	91.7	87.7	88.9	90.7	93.2	94.1	98.9	100.7	100.5	101.5	101.2	101.4	103.5	98.8
6	102	102.7	103.1	103.4	104.8	104.3	103.8	102.4	99.6	96.7	93.6	91	91.8	89	84.6	87.3	96.1	98.4	101.1	102.8	103.6	103.9	104.2	104.8	99
7	105 ?	?	?	?	?	?	?	103.1	98.7	90.5	84.9	77.5	85.9	88.1	86.7	90	93.5	97.7	97	96.5	102.5	103.4	104.2	104.5	95 ?
8	102.6	103.8	104.7	103.3	103	103.3	103.5	102.2	100.6	98.4	96.4	93.9	99.3	95.4	94.7	90.2	101.3	102.4	100.1	99.5	99.8	100.1	99.8	99.5	99.9
9	98.7	98.1	97.7	97.4	97.9	100.8 ?	103.8	103.5	103.6	100.1	93.4	88.3	91.3	90	84	81.5	82.3	87.3	90.6	90.8	92.2	94.7	94.9	94.8	94.1
10	96.9	96.2	91	90.7	92.2	92.9	92.6	87.7	81.9	78.4	74.2	74.4	74.2	74.3	74.6	77.7	81.2	85.8	92	92.5	94.1	98	101.4	102.5	87.4
11	102.7	101.2	100.4	103.1	104	104.1	103.4	102.6	101.7	99.4	96.3	92.5	88.6	85.2	84.6	83.6	84.9	90.8	95	98.4	99.8	100	99.8	100.2	96.8
12	100.7	102.8	103.9	104.6	104.8	104.3	101.3	97.1	91.6	81.9	73.6	70.7	67.5	68.1	70	68.7	72.6	77.6	87.4	92.5	94.5	99.3	101.3	103.3	89.2
13	104.1	104.7	104	103.6	104.1	103.2	101.5	96.8	89.9	81.2	74	73.3	70.8	70	69.6	71.1	75.5	83.8	90.2	94.6	96.2	96.8	98.4	99.9	89.9
14	100.7	101.2	102.8	103	103.5	103.5	103.8	102.3	99.2	94.9	90.2	90.4	90.5	90.7	91.7	94.6	95.4	95.9	96	98.6	101.1	102.3	101.3	101.5	98.1
15	102.1	103.2	103.9	104.6	104.9	?	104.8 ?	104	103	98.7	96.9	93.2	102.3	101.1	97.6	98	101.2	100.2	101.6	104.3	?	?	?	?	101.4 ?
16	?	?	?	?	?	?	?	102.4 ?	96.2	90.6	88.7	85	83.7	82.5	89	88.7	89.1	92.9	96.9	99.5	100.9	103.9	104.6	104.9 ?	94.1 ?
17	?	?	?	?	?	?	104.7 ?	102.6	100.1	95.8	91.3	90.1	84.2	84.3	84.1	85.5	88.9	92.1	94.7	95.3	95.9	99	100.2	99.3	93.8 ?
18	100.5	98.9	97.1	95.1	95.1	97.9	94.2	90.9	91	94.8	102.7	104.7	104.8 ?	104.9 ?	?	?	?	105 ?	?	104.9 ?	104.7	105 ?	104.2	100.1	99.8 ?
19	97.2	97.6	94.8	92.6	91.3	91.2	91.6	91	87	83	79	74.8	71.9	70.7	69.9	72.7	74.1	77.6	82.4	84.8	89.1	92	92.7	90.8	85
20	86.6	80	82	76.9	74.1	73.9	74.2	74.5	72.1	70.4	71.7	71.2	73.4	73.5	73.4	73.4	74.9	78.7	86.6	90.1	94.7	95.4	97.9	101.3	80
21	103.4	104.5	105 ?	104.8	?	104.6 ?	104.5 ?	98.4	88.2	79.6	70.9	59	61.7	56.8	53.5	47.2	52.8	53.6	64.1	75.8	80.4	85.8	87.4	92.6	79.8
22	94.3	97.6	97.3	96.2	97.9	100.6	99.9	88.7	75	64.7	57.8	47.8	46.6	48.1	44.3	51.8	59.3	65.1	73.4	82.5	86.2	91.5	97.8	99.7	77.7
23	102	99.9	98.5	98	100.7	101.9	100.5	93.9	86.7	77.4	70.2	64.2	60.1	64.6	66.7	70.1	72.7	79.9	90.9	96.2	99.4	101.3	102.9	103.9	87.6
24	104.3	?	?	?	?	?	104.5 ?	100.8	95.1	88.1	81.9	75	71.9	69.5	68.5	71.2	72.1	82.4	91.6	95.9	98.5	98.9	100.8	101.9	88 ?
25	102	102.5	103.2	103	104.1	104.7 ?	103.7 ?	99.6	94.6	88.5	85.1	81.3	77.9	71.9	68.3	69.5	75.4	86.5	93.2	99.9	103.5	104.9 ?	?	?	92 ?
26	?	?	?	?	?	?	?	?	103 ?	94.3	83.7	81.8	75.9	74.6	74.3	80.4	88.7	93.5	99.2	102	101.8	99.1	100.9	104.7 ?	91.1 ?
27	104.9 ?	105	104.7	104	103.5	101.7	102.8	102.3	100.1	100.3	100.1	101.3	98.8	96.4	96.5	99.2	101	102	104.1	104.3	104.9	104.8 ?	?	104.9	102.1 ?
28	105 ?	?	?	?	?	?	104.7 ?	102.6	100.6	98.1	102.6	98.3	88.8	81.2	93.7	98.1	98.4	96.4	104.3	103.8	102.3	101.2	101.8	99	99 ?
29	98.1	97.6	96.8	96.7	97.4	97.8	98.1	95.8	90.3	86.8	84.6	82.4	82.4	80.5	81.9	82.2	87.6	92.7	96.9	99.4	101.3	102.7	102.5	103.4	93.2
30	102.9	102.4	102.7	102.2	104	104.6	103.8	101.4	96.5	86.1	81.4	77.4	78.5	79.7	83.3	86.6	86.7	91.6	94.9	98.2	100.6	101.5	101.8	103	94.7

Avg	101	99.9	99.9	99.6	99.7	100.5	100.7	98.2	94	89	85.2	82.1	81.1	80	78.9	80.3	83.6	88.6	92.7	96.1	97.9	99.4	100	100.9	92.5 ?
S D	4.1	5.3	5.5	6.6	7.2	6.9	6.5	6.7	8.2	9.5	11.2	13.1	13.5	13.1	12.9	12.9	12.4	11.5	9	6.9	5.8	4.6	4.1	3.9	6.6
S/A	0.04	0.05	0.06	0.07	0.07	0.07	0.06	0.07	0.09	0.11	0.13	0.16	0.17	0.16	0.16	0.16	0.15	0.13	0.1	0.07	0.06	0.05	0.04	0.04	0.07
Min	86.6	80	82	76.9	74.1	73.9	74.2	74.5	72.1	64.7	57.8	47.8	46.6	48.1	44.3	47.2	52.8	53.6	64.1	75.8	80.4	85.8	87.4	90.8	77.7
Max	105	105	105	104.8	104.9	104.8	104.8	104	103.6	100.3	102.7	104.7	104.8	104.9	97.6	99.2	101.3	105	104.3	104.9	104.9	105	104.6	104.9	102.1
n	284	251	254	264	252	243	289	341	353	360	360	359	350	350	348	348	347	356	347	349	347	322	321	320	7720

Data Recovery: 0.0% missing; 10.6% 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.

**September 2004**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	23.9	23.9	23.8	23.4	23.2	23.2	23.3	23.5	23.7	24.8	26.5	28.5	29.4	29.7	30	30.5	30.1	28.2	26.2	24.1	22.6	21.6	20.9	20.4	25.2
2	20.1	19.6	19.1	18.6	18	17.7	18	20.4	23.9	26.9	28.8	30	30.4	30.6	30.9	31	30.3	28.6	26.3	23.4	21.7	20.9	20.6	20.5	24
3	21	21.5	21.8	21.8	21.6	21.6	21.7	22.8	24.7	26.5	27.6	27.9	28.7	29.5	30.8	30.9	30.2	28.2	26.3	25.1	24.4	24.1	23.9	23.6	25.3
4	23.4	23	22.8	22.6	22.5	22.3	22.5	23.2	24.8	26.5	28.3	28.5	28.9	29.7	29.6	29.8	30	28.7	26.2	24.5	23.6	23.1	22.6	22.1	25.4
5	21.5	21.1	20.9	20.8	20.8	20.8	21.1	22.1	23.7	25.5	27.2	29.4	30.2	30.2	30.7	30.4	29.9	29	26.6	25.5	25.1	24.9	24.7	24.4	25.3
6	23.9	23.7	23.8	23.4	22.9	22.9	23.1	23.6	24.6	26.3	28	29.9	30.2	29.5	30.8	32.1	30.1	27.6	26.2	25.2	24.6	24.4	24.1	23.7	26
7	23.6	23.4	23.1	22.8	22.5	22.4	22.6	23.8	25.9	28.8	31.5	32.4	31.9	31.4	30.8	30	29.5	27.9	27	26.2	25.6	25.2	24.9	24.7	26.6
8	24.7	24.5	24.4	24.6	24.7	24.7	24.8	25.2	25.9	27.1	28.2	29.4	28.3	27	28.4	27.9	27.9	26	25.6	25.9	26	26	26.1	26.2	26.2
9	26.2	26.4	26.6	26.6	26.7	26.3	24.9	24	23.8	24.1	26.5	28.9	30.4	30.1	30.2	30.8	31.1	30.4	28.4	26.8	26.3	25.9	25.6	25.2	27.2
10	24.1	23.3	23.4	23.1	22.5	22	22	23.2	25.6	28	30	31.5	31.5	31.7	31.5	30.8	29.2	27.3	25.3	23.6	22.7	21.8	20.9	20.4	25.6
11	20.3	20.5	20.7	20.7	20.5	20.4	20.4	20.8	21.2	21.8	22.9	24	25.1	26	26.2	25.9	25.7	25.1	24.1	23	22.1	21.4	20.8	20.2	22.5
12	19.6	19.1	18.7	18.3	18	17.9	17.9	19.3	22.2	25.1	27.1	28.4	29	29.1	29.1	29.2	29	27.5	24.4	21.5	19.8	18.8	18	17.4	22.7
13	16.9	16.8	17	16.9	16.7	16.7	16.9	18.5	21.3	24.7	27.4	28.6	29.1	29.4	29.3	29.4	29	26.7	23.9	22.3	21.4	21	20.6	20.3	22.5
14	19.8	19.5	19.2	19	18.9	18.9	19	19.4	20.4	22.1	23.7	24.5	25.4	25.7	25.6	25.2	24.9	24.2	23.2	22.2	21.8	21.6	22.2	22.7	22
15	22.9	23	23	23	23.1	23.3	23.3	23.5	23.9	24.8	25.5	27.7	27.8	26.1	27	28	26.6	25.6	24.8	23.5	22.9	22.5	22.3	22.6	24.4
16	22.6	22.5	22.2	21.7	21.2	21	20.8	21.6	24.9	28.4	31.2	32.5	32.3	32	31.4	30.2	29.5	28.2	26.8	25.6	25	24.5	24.2	23.9	26
17	23.7	23.5	23.4	23.4	23.5	23.6	23.8	24.4	25.7	27.7	29.8	30.5	30.4	31.6	32.1	32.3	31.5	30.1	28.9	27.9	27.6	26.7	25.1	23.8	27.1
18	23.6	23.7	23.8	23.7	23.3	22.4	21.3	22.2	22.6	22.5	21.9	21.2	20.8	20	19.4	18.8	18.1	17.8	17.7	17.7	17.8	18	18.2	18.1	20.6
19	18.2	18.4	18.3	18.3	18.2	17.9	17.5	17.4	18	19	20.4	21.2	21.7	22	22	22.2	21.8	21	18.9	17.1	16.1	15.3	15	15	18.8
20	14.9	15.9	17	17.3	17.3	17.4	17.5	17.9	18.8	20.6	21.2	21.6	22.4	22.7	23.1	23.5	23.4	22.2	19.6	17.2	15.7	14.7	14.2	13.5	18.7
21	12.7	12.2	11.9	11.7	11.4	11.2	11.4	13.4	17.1	20.9	23.7	25.7	27.1	28	28.9	29.1	28.7	27.3	24.4	21.4	19.5	17.9	16.7	15.9	19.5
22	15.2	14.5	14.2	14.1	14.1	13.8	13.8	16.3	20.5	24.9	28.8	31.6	33	33.3	33.9	34.2	33.5	31.7	27.8	23.6	21	19.3	18	17.4	22.9
23	16.9	16.2	15.9	15.8	15.7	15.4	15.3	17.4	21.2	24.6	27.6	30	31.6	31.9	31.2	30.5	29.7	28.2	25.1	22.5	21	20.1	19.4	19.1	22.6
24	18.9	18.5	18.3	18.2	18.3	18.7	19.1	20	21.8	23.5	24.9	26.4	27.4	27.6	27.6	27.3	26.6	25	22.3	20.3	19.2	18.7	18.2	17.5	21.8
25	17	16.9	16.8	16.9	16.9	16.7	16.7	18.4	21.7	24.9	26.6	28.9	29.2	30.2	30.7	30.8	30	27.5	24.2	21.7	20.4	19.6	19.2	18.9	22.5
26	18.7	18.5	18.2	18.2	18.2	18.1	17.8	18.4	20.6	23.3	26.9	28.9	29.6	30.1	30.2	29.8	28	25.8	23.6	22.3	21.8	21.8	21.8	21.5	23
27	21.5	21.4	21.4	21.5	21.8	22.2	22.2	22.5	23.3	24.1	25.2	25.7	25.8	26.7	27.5	27.6	26.6	25.6	24.5	23.8	23.5	23.3	23	22.8	23.9
28	22.6	22.6	22.9	23.1	23.3	23.4	23.5	24.1	25.3	26.1	26.2	25.6	27.5	29.4	28.7	25.8	25.4	25.1	23.8	22.9	22.5	22.6	21.9	21.2	24.4
29	21.1	21.1	21.1	21	20.7	20.4	20.1	20.5	22.3	24	25.1	26.1	26.9	27.6	27.5	27.3	26.9	24.8	22.4	20.8	19.9	19.6	19.5	19.4	22.8
30	18.9	18.7	18.7	18.9	18.8	18.4	18.4	19.5	22	24.4	27	29.4	30	29.4	27.7	26.4	25.9	25.1	22.9	21.5	20.4	19.9	19.7	19.5	22.6
Avg	20.6	20.5	20.4	20.3	20.2	20.1	20	20.9	22.7	24.7	26.5	27.8	28.4	28.6	28.8	28.6	28	26.6	24.6	23	22.1	21.5	21.1	20.7	23.6
S D	3.3	3.3	3.4	3.4	3.4	3.4	3.3	2.9	2.4	2.4	2.7	3.1	3	3.1	3.1	3.2	3.1	2.8	2.6	2.7	2.9	3	3.1	3.2	2.3
S/A	0.16	0.16	0.17	0.17	0.17	0.17	0.17	0.14	0.1	0.1	0.1	0.11	0.11	0.11	0.11	0.11	0.11	0.11	0.12	0.13	0.14	0.15	0.15	0.1	
Min	12.7	12.2	11.9	11.7	11.4	11.2	11.4	13.4	17.1	19	20.4	21.2	20.8	20	19.4	18.8	18.1	17.8	17.7	17.1	15.7	14.7	14.2	13.5	18.7
Max	26.2	26.4	26.6	26.6	26.7	26.3	24.9	25.2	25.9	28.8	31.5	32.5	33	33.3	33.9	34.2	33.5	31.7	28.9	27.9	27.6	26.7	26.1	26.2	27.2
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% 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 2004**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0	0.2	0.8	1	0.2	1.3	1.1	2.5	1.7	2.6	2.3	2.8	3.4	3.1	3.2	3.9	3	2.1	1.7	1.1	1.1	0.9	0.9	1	1.7
2	1.1	1.1	1.2	1.1	1	1.4	1.5	1.3	2.4	3.6	3.6	3.5	4	3.9	3.4	3.7	3.8	3	2.4	1.7	1.3	1.4	1.4	1.4	2.3
3	2	1.8	2	2.2	2.3	1.9	2.1	2.4	3.5	3.5	3.5	3.1	3.3	3.9	3.8	3.3	3.6	3.1	2.6	2.4	1.8	1.6	1.5	1.7	2.6
4	1.2	1.2	1.7	2.1	1.6	2.1	2	2.6	3.3	4.1	4.4	3.9	4.4	4.5	4.2	3.9	3.8	3.3	2.6	2.5	2.1	2	1.3	1.3	2.8
5	1.1	1.5	1.9	2.2	2.4	2.2	2.2	2.4	2.5	3.1	3.2	3.4	3.8	4.1	3.7	3.9	4.1	3.8	3.1	3	3.7	3.5	3.9	4	3
6	4.3	3.2	4.1	2.7	1.9	3.2	3.4	3.4	4.3	4.7	4.7	4.5	4.1	4.5	3.7	3.3	3.4	3	2.5	2.3	2.3	2.6	2.2	2.1	3.4
7	0.8	0.3	0.9	0.7	0.7	0.9	1.4	2.2	2.7	2.6	2.8	2.6	2.7	3.1	2.4	2.2	2.4	1.9	1	1.3	2.1	1.9	2	1.8	1.8
8	1.7	1.9	2.4	2.1	2	2.3	2.8	3.2	4	4.6	4.2	4.5	4.6	5.1	4.8	6.1	4.4	3.5	4	3.7	3.9	4.5	4.9	4.4	3.7
9	4.2	4.7	4.6	4.6	4.6	4.1	4.1	3.9	3.5	4	5.2	5.5	4	4.1	4.2	4.8	4	2.6	1.7	1.9	1.5	1.5	1.2	1.5	3.6
10	1.4	1.9	1.9	1.8	1.4	1.6	1.6	1.5	2.5	2.8	2.3	2.5	2.1	2	2.3	2.6	2.7	2.2	1.4	1.4	1	0.2	0	0.3	1.7
11	0.5	1	1	1	0.9	1.1	0.8	1	1.3	1.5	2.1	2	2.8	3	2.4	2.5	2.1	2	1.6	2	1.6	1.5	1.3	1.2	1.6
12	0.9	1.2	1.4	1.4	1.3	1.2	1.6	2.5	2.7	3.1	3.8	4.2	3.8	3.8	3.3	3.2	3.2	3.2	1.7	1.2	0.8	0.2	0.4	0.5	2.1
13	0.6	1.3	1.7	1.5	1.2	1.2	1.3	1.6	1.6	2.8	3.4	3.5	3.5	3.5	3.5	3.3	2.3	2.4	1.9	1.4	1.5	1.7	1.4	1.3	2
14	1.2	1.2	0.9	1	0.9	0.9	0.6	1	1.1	2.3	3.4	3.5	3.9	3.3	3.1	3.1	3	2.2	1.9	1.3	1.3	1.5	2.6	3.2	2
15	2.8	2.9	2.4	1.9	2.1	1.9	1.4	1.6	3.3	3	3.2	3.6	1.4	1.8	2.4	2.8	2.4	2.1	0.6	0.6	0.4	0.4	0.1	0.1	1.9
16	0.6	0.1	0.1	0.1	0.6	0.3	0.5	0.5	0.6	0.6	1.6	1.4	1.7	1.9	2.3	1.9	1.3	0.4	0.4	0.2	0.7	1.4	1.5	1.2	0.9
17	1.1	0.7	0.7	1.1	1.4	1.4	2.4	2.9	3.3	4.7	4.9	4.9	5.8	6	6.8	7.1	6.9	6.5	5.9	6.3	7	7.2	4	3.9	4.3
18	3.5	3.5	3.7	4.3	4.4	4.5	3.4	3.8	3.8	4.6	3.2	2.8	2.8	2.6	2.8	3.6	2.6	3.5	3.3	3.7	3.5	4.9	5.3	4.9	3.7
19	5.5	5.1	4.7	5.3	5.3	5.2	5.4	5.1	5	5.2	5	5.3	5.2	4.9	4.7	4.8	4.1	4.2	3.2	2.3	1.8	1.7	1.7	1.4	4.3
20	2.3	3.3	4.8	4.4	4.3	4.5	4.3	4.6	4.5	5.1	5	4.3	4.4	4.1	4.2	4.1	3.9	3.4	2.2	1.9	1.4	1.2	0.7	0.5	3.5
21	0.7	0.6	0.6	0.4	0.5	0.5	0.3	0.7	1.3	2.3	2.3	2.2	2	2.1	2.1	2.2	2	1.5	0.6	0.7	0.4	0.3	0.5	0	1.1
22	0.2	0.6	0.8	1.3	0.9	0.8	0.9	1.3	1.5	1.2	1	1.4	1.8	1.7	2	1.9	1.7	1.4	0.7	0.4	0.7	0.6	0.7	0.8	1.1
23	0.5	1.2	1.2	1.4	1.1	1.2	1.5	1.9	2.6	2.8	2.5	2.1	2.6	3.6	3.6	3.2	3	2.2	1.7	2.2	1.7	1.3	1.4	1.4	2
24	1.1	1	1.6	2.1	1.8	2.3	2.4	2.7	4.1	3.7	3.9	4.3	4.1	4.2	4.8	4.1	4	2.7	1.9	2	1.6	1.5	1.7	1.7	2.7
25	1.5	1.3	1.7	1.2	1	0.8	1.4	1.2	2.4	1.9	2	2.2	2.4	3.1	3	3	2.9	2.3	1.6	1.2	1	1	1	1.1	1.8
26	0.9	0.3	0.3	0.5	0.6	0.8	0.8	0.8	1.6	2	2.7	2.9	3.6	3.6	3.7	3.5	3.4	2.6	2.3	2	2.2	1.8	2.1	1.9	2
27	1.8	1.6	1.4	2.1	2.4	2.7	1.8	2	3	3.7	3.3	3.6	3.3	3.8	3.6	2.9	3.4	2.6	2.8	2.5	2.4	2.2	1.5	1.7	2.6
28	0.9	1.6	2	1.8	2.1	2.9	3.2	3.8	4.5	5.5	5.3	5.5	6.1	6.7	5.6	3.9	2.5	4.7	2.9	3.2	3.8	5.2	4.7	4	3.8
29	3.2	4.1	3.8	3.5	3.1	2.6	2.1	2.4	2.4	2.1	2.4	1.7	1.9	1.9	2.4	2.4	2.4	2.3	1.8	1.5	1.5	1.4	1.6	0.3	2.3
30	0.3	0.3	0.7	0.8	0.4	0.7	0.7	1.3	2.9	2.3	1.7	1.4	2.1	2.4	2.4	2.9	3.1	2.3	1.9	1.2	1.3	1.4	1.1	0.9	1.5
Avg	1.6	1.7	1.9	1.9	1.8	2	2	2.3	2.8	3.2	3.3	3.3	3.4	3.6	3.5	3.5	3.2	2.8	2.1	2	1.9	1.9	1.8	1.7	2.5
SD	1.3	1.3	1.4	1.3	1.3	1.3	1.2	1.2	1.1	1.3	1.2	1.2	1.2	1.2	1.1	1.1	1	1.1	1.1	1.2	1.3	1.6	1.4	1.3	1
S/A	0.84	0.79	0.71	0.68	0.73	0.65	0.62	0.52	0.41	0.39	0.35	0.37	0.35	0.35	0.32	0.33	0.33	0.4	0.52	0.61	0.71	0.82	0.76	0.78	0.39
Min	0	0.1	0.1	0.1	0.2	0.3	0.3	0.5	0.6	0.6	1	1.4	1.4	1.7	2	1.9	1.3	0.4	0.4	0.2	0.4	0.2	0	0	0.9
Max	5.5	5.1	4.8	5.3	5.3	5.2	5.4	5.1	5	5.5	5.3	5.5	6.1	6.7	6.8	7.1	6.9	6.5	5.9	6.3	7	7.2	5.3	4.9	4.3
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% 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

**September 2004**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	359	342	1	344	328	18	38	43	46	54	48	46	56	54	50	64	59	59	51	49	56	47	56	47	49
2	22	3	348	339	347	341	1	30	49	51	57	56	59	61	51	52	54	48	53	45	35	25	19	14	42
3	31	35	26	25	30	358	353	27	38	42	30	28	49	54	52	51	48	40	38	46	23	15	18	355	34
4	358	337	349	355	341	338	357	5	27	37	32	31	35	38	34	39	36	38	37	35	35	37	19	349	25
5	354	338	354	358	355	358	358	360	26	27	35	33	52	61	61	60	64	65	62	56	62	69	68	69	43
6	72	68	72	68	57	64	63	64	71	70	72	75	73	80	84	81	70	71	62	59	61	70	74	84	71
7	102	48	52	45	58	63	73	77	86	94	90	132	98	84	94	101	95	89	98	98	96	100	102	99	92
8	103	91	105	107	98	91	103	108	117	124	129	138	131	134	140	148	143	139	149	146	146	154	157	163	133
9	166	168	171	167	164	197	188	173	185	197	208	199	200	214	222	221	229	232	240	249	249	261	263	279	200
10	307	352	7	1	360	2	3	16	23	26	21	36	46	48	53	56	58	63	75	73	52	28	328	333	31
11	2	40	32	359	1	347	6	342	46	42	46	51	65	65	52	57	54	51	44	52	47	47	30	34	43
12	8	351	349	338	338	346	359	353	12	26	40	51	37	35	34	48	55	51	57	51	35	333	5	329	28
13	321	341	349	344	350	357	350	4	35	62	59	66	67	70	66	72	68	73	76	71	81	76	60	58	53
14	52	50	11	23	353	3	323	2	18	49	54	58	59	54	42	42	47	33	21	28	8	59	68	70	44
15	68	72	72	67	71	89	103	103	117	135	155	161	241	73	87	107	145	164	197	201	210	163	292	324	113
16	325	294	309	296	288	287	305	336	321	297	240	244	245	231	231	233	261	232	113	123	134	123	160	159	233
17	127	119	123	129	130	129	124	130	143	135	148	143	147	147	151	152	153	151	153	148	151	158	175	182	149
18	170	171	181	190	199	221	213	215	222	219	213	233	281	288	289	306	300	305	312	324	324	336	341	349	258
19	350	355	353	356	0	358	354	1	4	8	1	4	18	21	9	360	357	352	353	20	34	12	348	346	2
20	36	45	52	42	40	47	52	50	47	46	44	38	38	33	36	25	41	35	24	25	3	43	10	327	40
21	330	326	332	322	320	323	301	302	338	354	13	23	6	23	351	351	359	349	354	13	353	280	274	267	353
22	295	306	289	304	307	310	311	345	2	33	24	14	356	20	34	68	85	65	55	185	217	263	288	314	4
23	316	308	319	319	298	299	314	340	359	26	32	26	47	46	36	39	41	46	42	25	3	13	24	13	18
24	350	356	359	358	14	36	46	46	55	51	47	52	48	53	61	57	51	45	27	20	358	9	356	359	39
25	8	32	44	36	21	22	45	39	52	35	58	55	60	72	74	67	67	63	69	47	51	33	17	17	52
26	31	54	8	64	44	7	15	8	18	47	48	45	71	72	73	69	70	56	45	43	53	51	66	63	55
27	56	49	52	62	70	70	62	69	75	79	83	99	101	107	102	96	110	105	104	90	99	114	102	109	89
28	97	109	119	128	133	122	126	133	142	152	161	156	162	171	195	194	197	218	214	211	223	261	273	286	179
29	284	267	271	270	271	273	283	299	313	317	339	335	343	326	345	356	25	14	20	53	65	80	119	152	315
30	132	140	70	87	64	104	74	75	91	83	101	85	87	86	88	85	100	101	102	94	101	103	102	61	91
Avg	37	32	33	24	26	23	35	42	56	63	64	69	66	70	66	68	69	63	63	63	68	69	53	40	57
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% 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 2004**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	0.2	0.8	1.8	2.2	0.9	2.6	2.8	4.5	3.4	4.5	4.4	4.8	5.8	5.3	5.4	6.2	5	3.5	2.9	1.9	1.9	1.6	1.5	1.7	3.1
2	1.8	1.9	1.8	1.8	1.8	2.4	2.7	2.8	4.4	6	5.9	5.8	6.9	6.8	6.3	6.6	6.7	5	4.2	3	2.4	2.5	2.5	2.7	3.9
3	3.5	3.3	3.6	4.1	4.1	3.1	3.4	4.1	6	6.2	6.2	5.7	5.9	6.6	6.5	5.7	6.1	5.7	4.5	4.4	3.4	2.8	2.8	2.8	4.6
4	2.1	2.2	3.2	3.7	3	3.6	3.6	4.6	6.2	7.6	7.6	6.9	7.7	8	7.6	7.1	6.7	6.1	4.9	4.5	4.1	3.6	2.6	2.2	5
5	2	2.5	3.3	3.8	4	3.8	3.9	4.1	4.4	5.7	5.7	6.1	6.7	7.1	6.3	6.7	7.1	6.3	5.3	5.3	6.5	6.1	6.6	7.1	5.3
6	7.4	5.7	7.2	4.9	4	5.8	6.4	6.1	7.5	7.7	7.5	7	6.5	7.3	5.9	5.3	5.5	4.7	4	3.9	3.8	4.2	3.7	3.4	5.6
7	1.5	1	1.7	1.5	1.5	1.7	2.7	3.8	4.6	4.1	4.6	4.4	4.2	4.6	3.9	3.8	3.8	3.2	1.9	2.1	3.2	3.1	3.2	2.8	3
8	2.8	3.1	3.9	3.4	3.2	3.9	4.6	5.4	6.8	7.3	7.1	7.9	7.7	8.3	8.1	10.4	7.3	6	6.8	6.3	6.6	8.1	8.2	7.7	6.3
9	6.9	8.2	8.1	8.1	7.8	7.2	7.8	7.4	6.6	7.1	9.1	9.6	7.1	7	6.9	7.6	6.7	4.1	2.7	3.1	2.4	2.6	2.2	2.9	6.2
10	2.6	3.4	3.6	3	2.5	2.7	3	3.1	4.9	4.8	4.1	4.1	4	3.7	4.2	4.3	4.3	3.5	2.4	2.4	1.6	0.6	0.1	0.6	3.1
11	0.9	1.6	1.5	1.6	1.6	1.8	1.5	1.9	2.4	2.6	4.1	3.6	4.6	4.9	4.3	4.2	3.7	3.4	3	3.3	2.6	2.6	2.4	2.4	2.8
12	1.6	1.8	2.1	2	2.3	2.1	2.8	4.3	4.9	5.4	6.4	7.5	6.6	6.7	5.6	5.9	5.7	5.4	2.8	2	1.3	0.7	0.9	0.9	3.7
13	1.1	2	2.7	2.5	2.1	2.1	2.2	2.7	3.1	4.6	5.6	5.9	5.8	5.7	5.6	5.5	3.9	3.8	3.2	2.4	2.6	2.6	2.2	2.2	3.4
14	2	1.9	1.4	1.7	1.6	1.6	1.2	1.9	2.2	4	5.8	6.2	6.8	5.7	5.4	5.3	5.1	4	3.4	2.4	2.3	2.6	4.3	5.3	3.5
15	4.5	4.6	4.1	3.2	3.4	3.3	2.9	3.3	5.8	5	5.4	6	2.9	3.1	3.9	4.5	4.2	3.8	1.4	1.6	1.4	1.2	0.4	0.6	3.3
16	1.8	0.7	0.7	0.6	1.8	1.4	1.7	1.6	1.7	1.6	3	3	3.2	3.2	3.8	3.1	2.6	0.9	0.9	0.7	1.3	2.3	2.8	2.1	1.9
17	1.9	1.4	1.6	2.1	2.7	2.8	3.8	4.8	5.6	7.8	8.4	8	9.5	10.3	11.9	11.5	11.2	11.6	9.8	10.9	11.9	12.3	7.3	7.2	7.3
18	6.6	6.4	7.1	7.5	7.6	7.9	6	5.9	6.7	7.5	5.2	4.4	5.6	5.6	6.3	7.6	5.7	7.3	7.2	7.2	7	9.5	9.6	8.9	6.9
19	9.6	9.7	8.5	9.4	9.2	9.3	9.4	9.2	9.1	9.1	8.9	9.8	9.5	8.6	8.6	8.5	7.4	7	5.1	4.3	3.2	3.1	2.8	2.4	7.6
20	4.3	5.7	8.9	8	7.7	7.8	7.4	8.4	8.1	9.2	8.9	8.1	7.5	7.6	7.7	7.2	6.9	6.3	4.3	3.4	2.5	2.1	1.5	1	6.3
21	1.2	1	1.2	1.1	1.1	1.3	1	2	2.6	4.1	4.1	3.9	3.6	3.9	4	4	3.4	2.6	1.3	1.1	0.9	0.6	1.1	0.3	2.1
22	0.7	1.1	1.4	2.1	1.6	1.4	1.6	2.4	2.7	2.1	2.1	2.9	3.9	3.6	3.6	3.3	2.5	2.2	1.1	0.8	1	1	1.4	1.3	2
23	0.9	1.9	2	2.3	2	2.1	2.8	3.3	4.3	5.1	4.3	3.7	4.4	6	6.2	5.6	5.3	4	3.1	4	2.9	2.3	2.9	2.5	3.5
24	2.1	1.8	2.7	3.4	3.3	3.9	4.1	4.9	7	6.5	6.6	7.2	6.7	7.7	7.8	7	7	4.5	3.7	3.5	2.9	2.6	2.9	2.8	4.7
25	2.4	2.3	2.8	2.3	1.8	1.5	2.1	2.6	3.9	3.3	3.5	3.8	4.2	5	5.1	5	4.6	3.8	2.6	2	1.8	1.7	1.9	2.1	3
26	2	1	0.9	1.3	1.5	1.9	2.1	2.2	3.4	3.7	4.8	4.9	5.7	5.9	5.8	5.8	5.3	4.3	3.7	3.5	3.7	3.1	3.7	3.9	3.5
27	3.4	3.1	3.1	3.9	4.1	4.5	3.5	3.8	4.8	6	5.3	5.9	5.4	5.7	5.9	4.7	5.5	4.3	4.7	4.1	4	4.1	2.8	3.3	4.4
28	2.2	2.9	3.6	3.7	3.9	4.5	5.5	6.4	7.6	9.5	9.3	9.8	10.7	13	9.9	6.9	5.3	8.3	5.2	5.7	6.6	9.2	9.9	8.7	7
29	7	7.4	7.2	6.3	5.8	5.1	4.2	4.9	5.1	4.5	4.2	3.4	3.7	3.9	4.3	4.3	4.3	3.8	3	2.6	2.5	2.4	2.6	0.9	4.3
30	0.8	0.8	1.2	1.5	0.9	1.3	1.3	2.3	4.2	3.8	3	2.6	3.7	4.2	3.8	4.7	4.8	3.8	3.2	1.9	2.2	2.1	1.7	1.5	2.6
Avg	2.9	3	3.4	3.4	3.3	3.5	3.6	4.2	5	5.5	5.7	5.8	5.9	6.2	6	5.9	5.5	4.8	3.7	3.5	3.4	3.4	3.3	3.1	4.3
SD	2.4	2.4	2.4	2.3	2.2	2.2	2.1	2	1.9	2.1	2	2.1	2	2.2	2	1.9	1.7	2	1.9	2.1	2.3	2.8	2.5	2.4	1.7
S/A	0.8	0.78	0.71	0.67	0.68	0.63	0.58	0.47	0.38	0.37	0.34	0.36	0.33	0.35	0.33	0.32	0.32	0.43	0.51	0.61	0.7	0.82	0.77	0.78	0.38
Min	0.2	0.7	0.7	0.6	0.9	1.3	1	1.6	1.7	1.6	2.1	2.6	2.9	3.1	3.6	3.1	2.5	0.9	0.9	0.7	0.9	0.6	0.1	0.3	1.9
Max	9.6	9.7	8.9	9.4	9.2	9.3	9.4	9.2	9.1	9.5	9.3	9.8	10.7	13	11.9	11.5	11.2	11.6	9.8	10.9	11.9	12.3	9.9	8.9	7.6
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% 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 2004**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	1018	1018	1017	1017	1017	1018	1018	1019	1019	1020	1020	1020	1020	1020	1019	1019	1019	1019	1019	1019	1020	1020	1019	1020	1019	
2	1019	1019	1019	1019	1019	1019	1020	1020	1020	1021	1021	1021	1021	1020	1020	1020	1020	1019	1019	1019	1019	1020	1020	1019	1020	1020
3	1019	1019	1018	1018	1018	1018	1019	1019	1019	1020	1019	1019	1018	1018	1018	1018	1018	1017	1017	1017	1017	1017	1017	1017	1018	1018
4	1017	1016	1016	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1017	1017	1017	1017	1017	1017	1017	1017	1018	1018	1018	1017
5	1017	1017	1016	1016	1016	1017	1017	1017	1018	1018	1018	1018	1018	1018	1017	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1017
6	1018	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018	1018	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1015	1017
7	1015	1015	1015	1014	1015	1015	1015	1015	1015	1015	1015	1015	1015	1014	1014	1013	1013	1013	1013	1013	1013	1013	1014	1014	1013	1013
8	1013	1012	1012	1012	1012	1012	1012	1012	1012	1012	1013	1012	1011	1011	1010	1009	1009	1009	1009	1009	1009	1010	1010	1010	1010	1010
9	1010	1009	1009	1009	1009	1010	1010	1011	1011	1012	1012	1012	1011	1011	1011	1011	1012	1012	1013	1014	1014	1015	1016	1016	1012	
10	1016	1016	1016	1017	1017	1018	1019	1019	1020	1020	1020	1020	1020	1019	1019	1018	1018	1018	1018	1019	1019	1020	1020	1020	1020	1018
11	1019	1019	1019	1019	1019	1019	1020	1020	1020	1020	1021	1021	1021	1021	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020	1020
12	1019	1019	1019	1019	1019	1020	1020	1020	1020	1021	1021	1021	1021	1021	1020	1020	1019	1019	1019	1019	1019	1020	1020	1020	1020	1020
13	1020	1020	1019	1019	1019	1020	1020	1020	1021	1021	1021	1021	1021	1020	1019	1019	1019	1019	1019	1019	1020	1020	1020	1020	1020	1020
14	1020	1020	1019	1019	1019	1020	1021	1021	1021	1022	1022	1022	1022	1021	1021	1021	1021	1021	1021	1020	1021	1021	1021	1020	1020	1021
15	1020	1019	1019	1018	1018	1018	1019	1019	1019	1019	1019	1019	1019	1018	1018	1018	1018	1017	1017	1018	1018	1018	1018	1018	1018	1018
16	1018	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1018	1017	1017	1016	1016	1016	1015	1015	1015	1015	1015	1015	1015	1017
17	1014	1014	1013	1013	1012	1012	1012	1012	1012	1011	1011	1010	1008	1007	1006	1005	1005	1004	1004	1003	1002	1001	1001	1001	1001	1008
18	1001	1000	999	999	999	1000	1000	1001	1001	1002	1002	1002	1003	1004	1004	1005	1006	1006	1006	1007	1008	1009	1010	1010	1011	1004
19	1012	1012	1013	1013	1014	1015	1016	1017	1018	1019	1019	1019	1019	1019	1019	1019	1019	1020	1020	1021	1021	1021	1021	1021	1021	1018
20	1021	1021	1021	1021	1022	1022	1022	1023	1024	1025	1025	1025	1025	1024	1024	1024	1023	1023	1023	1023	1024	1024	1024	1024	1024	1023
21	1024	1023	1023	1022	1022	1023	1023	1024	1024	1024	1024	1024	1023	1022	1022	1022	1021	1021	1021	1021	1022	1022	1022	1021	1021	1022
22	1021	1021	1021	1021	1021	1021	1021	1022	1022	1022	1022	1022	1021	1021	1020	1020	1020	1020	1019	1019	1019	1019	1019	1019	1019	1021
23	1019	1019	1018	1018	1018	1019	1019	1020	1020	1020	1020	1020	1020	1019	1020	1019	1019	1019	1019	1019	1019	1020	1020	1020	1020	1019
24	1019	1019	1019	1018	1018	1019	1019	1019	1020	1020	1020	1020	1020	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019	1019
25	1018	1018	1017	1017	1017	1017	1017	1018	1018	1018	1018	1018	1018	1017	1017	1016	1016	1016	1016	1017	1017	1017	1017	1017	1016	1017
26	1016	1016	1016	1015	1015	1015	1016	1017	1017	1017	1017	1017	1017	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1016	1016
27	1016	1015	1015	1015	1015	1015	1015	1016	1016	1016	1016	1016	1015	1014	1014	1014	1013	1013	1013	1013	1013	1013	1013	1013	1012	1014
28	1011	1010	1009	1009	1008	1008	1008	1007	1007	1006	1005	1003	1002	1001	1000	1000	1000	1000	1001	1001	1001	1002	1003	1003	1003	1004
29	1004	1005	1005	1006	1007	1008	1009	1009	1010	1011	1011	1011	1011	1011	1011	1011	1011	1011	1012	1012	1013	1013	1013	1013	1014	1010
30	1014	1014	1013	1014	1014	1014	1015	1016	1016	1016	1016	1016	1016	1015	1015	1015	1015	1016	1016	1017	1017	1017	1018	1018	1015	
Avg	1016	1016	1016	1016	1016	1016	1016	1017	1017	1017	1017	1017	1017	1016	1016	1016	1016	1016	1016	1016	1016	1016	1017	1016	1016	1016
S D	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
S/A	0	0	0	0	0	0	0	0	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0
Min	1001	1000	999	999	999	1000	1000	1001	1001	1002	1002	1002	1002	1001	1000	1000	1000	1000	1000	1001	1001	1001	1001	1001	1001	1004
Max	1024	1023	1023	1022	1022	1023	1023	1024	1024	1025	1025	1025	1024	1024	1024	1023	1023	1023	1023	1023	1024	1024	1024	1024	1024	1023
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% 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 2004**

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily	
1	12.7	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13.1	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.9
2	12.8	12.8	12.7	12.7	12.7	12.7	13.1	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	12.9	12.9	12.8	12.8	12.8	12.8	12.8	12.8	13
3	12.8	12.8	12.8	12.7	12.7	12.7	12.8	13.3	13.3	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.2	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
4	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13.2	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13	12.9	12.8	12.8	12.8	12.8	12.8	12.8	13
5	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13	12.9	12.8	12.8	12.8	12.8	12.8	12.8	13
6	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.9	13.2	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.9
7	12.8	12.7	12.7	12.7	12.7	12.7	12.9	13.3	13.3	13.2	13.2	13.1	13.2	13.2	13.2	13.2	13.2	13	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
8	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13	13.2	13.2	13.2	13.2	13.3	13.2	13.3	13.1	13	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.9
9	12.8	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	12.9	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.9
10	12.8	12.8	12.7	12.7	12.7	12.7	12.9	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
11	12.8	12.7	12.7	12.7	12.7	12.7	12.7	12.6	12.9	13.1	13.3	13.3	13.3	13.3	13.3	13.3	13.3	12.9	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.9
12	12.8	12.7	12.7	12.7	12.7	12.6	13	13.4	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
13	12.7	12.7	12.7	12.7	12.7	12.7	13.1	13.4	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
14	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.9	13.2	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
15	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13	13.1	13.3	13.3	13.2	13.1	13.3	13.3	13.3	13.2	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
16	12.8	12.8	12.7	12.7	12.7	12.7	12.7	13.3	13.3	13.2	13.1	13.1	13.1	13.2	13.2	13.2	13.1	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.9
17	12.8	12.7	12.7	12.7	12.7	12.7	12.9	13.2	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	13.1	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
18	12.8	12.8	12.7	12.7	12.7	12.7	13	13.3	13.3	13.4	13.4	13.4	13.4	13.3	13	12.8	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.7	13	
19	12.7	12.6	12.6	12.6	12.6	12.6	12.6	12.9	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
20	12.8	12.8	12.8	12.7	12.7	12.7	12.7	13.1	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.3	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.7	13
21	12.7	12.7	12.7	12.7	12.6	12.6	13.2	13.6	13.5	13.4	13.3	13.3	13.3	13.2	13.2	13.2	13.2	12.9	12.9	12.8	12.8	12.8	12.8	12.8	12.8	13
22	12.7	12.7	12.7	12.7	12.7	12.6	13.1	13.5	13.4	13.3	13.2	13.1	13.1	13.1	13.1	13.1	13.1	12.9	12.9	12.8	12.8	12.8	12.8	12.8	12.7	13
23	12.7	12.7	12.7	12.7	12.7	12.6	13.1	13.5	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.2	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
24	12.7	12.7	12.7	12.7	12.7	12.7	12.8	13.4	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
25	12.7	12.7	12.7	12.7	12.7	12.6	13.1	13.4	13.4	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
26	12.8	12.7	12.7	12.7	12.7	12.7	12.8	13.4	13.4	13.3	13.2	13.2	13.2	13.2	13.2	13.2	13.3	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
27	12.8	12.8	12.7	12.7	12.7	12.7	12.7	12.8	13.1	13.3	13.3	13.2	13.3	13.3	13.3	13.3	13.2	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.9
28	12.8	12.7	12.7	12.7	12.7	12.7	12.8	13.1	13.2	13.2	13.1	13.3	13.2	13.2	13	13.2	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	12.7	12.9
29	12.7	12.7	12.7	12.7	12.6	12.6	12.9	13.4	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	13.3	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
30	12.8	12.7	12.7	12.7	12.7	12.7	12.9	13.4	13.4	13.3	13.2	13.2	13.2	13.2	13.3	13.3	13.3	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
Avg	12.8	12.7	12.7	12.7	12.7	12.7	12.8	13.2	13.3	13.3	13.3	13.2	13.2	13.2	13.2	13.2	13.2	12.9	12.8	12.8	12.8	12.8	12.8	12.8	12.8	13
SD	0	0	0	0	0	0	0.2	0.3	0.2	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0.01	0.02	0.01	0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0	0	0	0	0	0	0	0	0
Min	12.7	12.6	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	12.8	12.8	12.8	12.8	12.8	12.8	12.7	12.7	12.7	12.9	
Max	12.8	12.8	12.8	12.7	12.7	12.7	13.2	13.6	13.5	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13.4	13	12.9	12.8	12.8	12.8	12.8	12.8	12.8	13
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% 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.