

September 2008

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	59 ?	?	?	?	?	?	?	?	?	?	?	68 ?	13	0	0	0	0	0	154 ?
2	0	0	0	0	0	13	67 ?	?	?	?	?	?	?	?	?	?	?	69 ?	15	0	0	0	0	0	163 ?
3	0	0	0	0	0	9	68 ?	?	?	?	?	?	?	?	?	?	?	60 ?	13	0	0	0	0	0	150 ?
4	0	0	0	0	0	11	64 ?	?	?	?	?	?	?	?	?	?	?	65 ?	14	0	0	0	0	0	155 ?
5	0	0	0	0	0	13	61 ?	?	318 ?	347	406	259	92 ?	91 ?	125	100	134	60	15	0	0	0	0	0	2023 ?
6	0	0	0	0	0	1	34	112	219	105 ?	102 ?	104	129	159	129	165	201 ?	72 ?	15	0	0	0	0	0	1547
7	0	0	0	0	0	12	69	145	?	?	?	?	?	371 ?	237 ?	277 ?	254 ?	56	10	0	0	0	0	0	1431 ?
8	0	0	0	0	0	8	48 ?	?	?	?	?	?	?	?	680	465	296	90	14	0	0	0	0	0	1601 ?
9	0	0	0	0	0	15	72	193 ?	309 ?	?	429 ?	443 ?	495 ?	355 ?	?	179 ?	109	52	9	0	0	0	0	0	2659 ?
10	0	0	0	0	0	1	41	53 ?	140	192	142	232	145	131	172	133	51	15	3	0	0	0	0	0	1450
11	0	0	0	0	0	3	35	108	199	261	344	513 ?	825 ?	520 ?	428	431 ?	172 ?	42	4	0	0	0	0	0	3885 ?
12	0	0	0	0	0	9	71 ?	?	?	322	212 ?	403 ?	466 ?	593 ?	607 ?	493	236 ?	38 ?	7	0	0	0	0	0	3457 ?
13	0	0	0	0	0	4	42 ?	?	?	?	?	?	?	?	413 ?	?	?	46	14	0	0	0	0	0	520 ?
14	0	0	0	0	0	7	54 ?	?	?	?	?	?	?	590 ?	?	?	146 ?	68	3	0	0	0	0	0	867 ?
15	0	0	0	0	0	3	46 ?	?	?	?	?	?	365 ?	400 ?	252	115	39	7	0	0	0	0	0	0	1227 ?
16	0	0	0	0	0	0	23	90	166	109	140	66 ?	83 ?	74	149	92	64	10	3	0	0	0	0	0	1069 ?
17	0	0	0	0	0	5	45	103	206	285	273	369	564 ?	451 ?	339 ?	177	113	57	8	0	0	0	0	0	2994
18	0	0	0	0	0	1	34	?	?	?	?	863 ?	850 ?	779 ?	652	477	259	61	1	0	0	0	0	0	3975 ?
19	0	0	0	0	0	3	49	?	171 ?	261 ?	373 ?	425 ?	605 ?	719 ?	613 ?	270 ?	132 ?	46	0	0	0	0	0	0	3667 ?
20	0	0	0	0	0	3	35	165	158	160	205	176	213	248	256	245	70	16	0	0	0	0	0	0	1948
21	0	0	0	0	0	3	55 ?	?	?	362 ?	368	402	371	464 ?	358 ?	279	119	26	0	0	0	0	0	0	2806 ?
22	0	0	0	0	0	0	18	67	192	349	390	349	419	441	239	174	120	43	0	0	0	0	0	0	2802
23	0	0	0	0	0	2	54	119	138	269	292	477 ?	408 ?	322	295	201	149 ?	51	0	0	0	0	0	0	2778 ?
24	0	0	0	0	0	1	32	126	302 ?	365	467	474	472	318	329	129	75	13	0	0	0	0	0	0	3103
25	0	0	0	0	0	0	5	48 ?	81	167	98 ?	65 ?	310 ?	492	378	111	39	4	0	0	0	0	0	0	1799 ?
26	0	0	0	0	0	1	26	?	?	?	?	?	?	711 ?	384 ?	222	81	26	0	0	0	0	0	0	1451 ?
27	0	0	0	0	0	1	31	140 ?	236	214 ?	315 ?	812 ?	815 ?	719 ?	571	312 ?	175	25	0	0	0	0	0	0	4365 ?
28	0	0	0	0	0	3	47	164	?	488 ?	488	512	331	381	215	164 ?	86 ?	21	0	0	0	0	0	0	2900 ?
29	0	0	0	0	0	0	60	235	389 ?	610 ?	?	432 ?	263 ?	601	477	291	157	32	0	0	0	0	0	0	3548 ?
30	0	0	0	0	0	0	29	100	181	343	381	476	476	293	286	193	82	15	0	0	0	0	0	0	2856

Avg	0	0	0	0	0	5	46	123	213	289	301	393	414	426	358	237	134	42	5	0	0	0	0	0	2112 ?
S D	0	0	0	0	0	5	17	50	80	128	125	211	229	204	168	122	71	23	6	0	0	0	0	0	1259
S/A	0	0	0	0	0	1.02	0.37	0.41	0.38	0.44	0.42	0.54	0.55	0.48	0.47	0.52	0.53	0.55	1.15	0	0	0	0	0	0.6
Min	0	0	0	0	0	0	5	48	81	105	98	65	83	74	125	92	39	4	0	0	0	0	0	0	150
Max	0	0	0	0	0	15	72	235	389	610	488	863	850	779	680	493	296	90	15	0	0	0	0	0	4365
n	0	0	0	0	0	78	302	168	155	180	174	165	175	208	247	251	242	299	57	0	0	0	0	0	2715

Daylight Data Recovery: 0.0% missing; 0.0% untested; 38.8% exceed the 15% QC threshold -- 4439 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 2008

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	3	9?	?	?	?	?	?	?	?	?	?	?	6?	1	0	0	0	0	0	19?
2	0	0	0	0	0	1	10?	?	?	?	?	?	?	?	?	?	?	4?	0	0	0	0	0	0	15?
3	0	0	0	0	0	0	7?	?	?	?	?	?	?	?	?	?	?	3?	0	0	0	0	0	0	10?
4	0	0	0	0	0	1	8?	?	?	?	?	?	?	?	?	?	?	2?	0	0	0	0	0	0	11?
5	0	0	0	0	0	1	5?	?	2?	3	4	2	0	0	0	1	3	1	0	0	0	0	0	0	23?
6	0	0	0	0	0	0	1	2	2	0	0	0	1	1	1	2?	3?	0	0	0	0	0	0	0	13
7	0	0	0	0	0	1	2	5	?	?	?	?	0?	2	4?	3?	0	0	0	0	0	0	0	0	17?
8	0	0	0	0	0	1	4?	?	?	?	?	?	?	?	771	590	500	213	26	0	0	0	0	0	2105?
9	0	0	0	0	0	0	2	12?	11?	?	5?	3?	6?	2?	?	1?	0	0	0	0	0	0	0	0	41?
10	0	0	0	0	0	0	0	0	1	1	0	0	0	0	3	2	0	0	0	0	0	0	0	0	8
11	0	0	0	0	0	0	0	0	0	0	0	0?	?	?	0?	?	0?	0	0	0	0	0	0	0	0?
12	0	0	0	0	0	0	1?	?	0?	0	0?	0?	0?	1?	?	?	?	0?	0	0	0	0	0	0	2?
13	0	0	0	0	0	0	0?	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0?
14	0	0	0	0	0	0	1?	?	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	1?
15	0	0	0	0	0	0	0?	?	?	?	?	?	0?	0?	0	0	0	0	0	0	0	0	0	0	0?
16	0	0	0	0	0	0	0	0	0	0	1	0	0	0	2	1	2	0	0	0	0	0	0	0	7
17	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
18	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0?
19	0	0	0	0	0	0	0	?	0?	0?	0?	0?	?	?	?	0?	0?	0	0	0	0	0	0	0	0?
20	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
21	0	0	0	0	0	0	1?	?	?	0?	0	0	0	0?	0?	0	0	0	0	0	0	0	0	0	1?
22	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
23	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?
24	0	0	0	0	0	0	0	0	0?	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	2
26	0	0	0	0	0	0	0	?	?	?	?	?	?	?	0?	0	0	0	0	0	0	0	0	0	0?
27	0	0	0	0	0	0	0	0?	0	2?	0?	?	?	?	?	?	?	0	0	0	0	0	0	0	3?
28	0	0	0	0	0	0	0	0	?	0?	0	0?	0	0	0	0?	0?	0	0	0	0	0	0	0	1?
29	0	0	0	0	0	0	0	0	0?	?	?	?	34?	569	467	403	262	91	0	0	0	0	0	0	1825?
30	0	0	0	0	0	0	1	2	2	31	24	65	76	3	21	13	0	1	0	0	0	0	0	0	239

Avg	0	0	0	0	0	0	2	1	1	2	2	4	7	32	67	51	35	11	1	0	0	0	0	0	145?
S D	0	0	0	0	0	1	3	3	3	7	6	16	20	134	201	155	118	42	5	0	0	0	0	0	498
S/A	0	0	0	0	0	1.8	1.62	2.32	2.51	3.32	2.94	3.86	2.84	4.19	3.02	3.06	3.36	3.83	5.12	0	0	0	0	0	3.44
Min	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Max	0	0	0	0	0	3	10	12	11	31	24	65	76	569	771	590	500	213	26	0	0	0	0	0	2105
n	0	0	0	0	0	78	304	180	159	176	185	169	168	174	196	212	210	297	57	0	0	0	0	0	2577

Daylight Data Recovery: 0.1% missing; 0.0% untested; 41.9% exceed the 15% QC threshold -- 4439 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 2008

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	31 ?	?	?	?	?	?	?	?	?	?	?	25 ?	7	0	0	0	0	0	76 ?
2	0	0	0	0	0	11	29 ?	?	?	?	?	?	?	?	?	?	?	25 ?	9	0	0	0	0	0	75 ?
3	0	0	0	0	0	6	29 ?	?	?	?	?	?	?	?	?	?	?	29 ?	10	0	0	0	0	0	75 ?
4	0	0	0	0	0	9	33 ?	?	?	?	?	?	?	?	?	?	?	32 ?	11	0	0	0	0	0	84 ?
5	0	0	0	0	0	14 ?	38 ?	?	303 ?	329	394	259	80 ?	91 ?	112	93	132	59	15	0	0	0	0	0	1918 ?
6	0	0	0	0	0	1	34	112	214	89	89	104	129	159	129	156	180 ?	37 ?	13	0	0	0	0	0	1446
7	0	0	0	0	0	15 ?	66	127	?	?	?	?	?	324 ?	232	232 ?	185 ?	48	10	0	0	0	0	0	1238 ?
8	0	0	0	0	0	10 ?	36 ?	?	?	?	?	?	?	?	107	109	102	55	13	0	0	0	0	0	432 ?
9	0	0	0	0	0	18 ?	68	155 ?	217 ?	?	330 ?	403 ?	416 ?	305 ?	?	149 ?	105	51	9	0	0	0	0	0	2227 ?
10	0	0	0	0	0	1	41	46	140	180	134	231	145	131	172	133	49	15	3	0	0	0	0	0	1419
11	0	0	0	0	0	3	35	108	199	261	344	461 ?	244 ?	299 ?	363	149 ?	119 ?	39	3	0	0	0	0	0	2628 ?
12	0	0	0	0	0	11 ?	49 ?	?	232 ?	276	212 ?	366 ?	436 ?	305	173 ?	130	81 ?	30 ?	7	0	0	0	0	0	2308 ?
13	0	0	0	0	0	4	33 ?	?	?	?	?	?	?	?	147 ?	?	?	42	14	0	0	0	0	0	240 ?
14	0	0	0	0	0	8 ?	29 ?	?	?	?	?	?	?	188 ?	?	?	110 ?	51	3	0	0	0	0	0	388 ?
15	0	0	0	0	0	4 ?	27 ?	?	?	?	?	?	346 ?	357 ?	246	114	39	7	0	0	0	0	0	0	1140 ?
16	0	0	0	0	0	0	23	90	166	109	132	53 ?	65	71	149	92	64	10	3	0	0	0	0	0	1027
17	0	0	0	0	0	5	45	103	206	284	272	368	504 ?	401 ?	299 ?	176	106	50	8	0	0	0	0	0	2826
18	0	0	0	0	0	0	28	?	?	?	?	137 ?	105 ?	98 ?	81	59	45	21	0	0	0	0	0	0	575 ?
19	0	0	0	0	0	3	33	?	148 ?	219 ?	302 ?	374 ?	278 ?	252 ?	170 ?	197 ?	99 ?	42	0	0	0	0	0	0	2116 ?
20	0	0	0	0	0	4 ?	35	156	158	160	205	176	213	247	255	238	70	16	0	0	0	0	0	0	1932
21	0	0	0	0	0	4 ?	28 ?	?	?	293 ?	352	377	355	325 ?	247 ?	238	117	26	0	0	0	0	0	0	2363 ?
22	0	0	0	0	0	0	18	67	189	338	360	344	393	396	230	173	120	42	0	0	0	0	0	0	2671
23	0	0	0	0	0	1	46	116	138	266	275	407 ?	366	306	265	196	113 ?	39	0	0	0	0	0	0	2536 ?
24	0	0	0	0	0	1	32	126	261 ?	310	399	422	428	315	304	129	75	13	0	0	0	0	0	0	2814
25	0	0	0	0	0	0	6	30	81	166	84	48 ?	257	422	370	111	38	5	0	0	0	0	0	0	1618
26	0	0	0	0	0	0	19	?	?	?	?	?	?	267 ?	262 ?	217	81	23	0	0	0	0	0	0	868 ?
27	0	0	0	0	0	1	22	119 ?	224	186 ?	270 ?	121 ?	96 ?	93 ?	116	117 ?	74	22	0	0	0	0	0	0	1463 ?
28	0	0	0	0	0	?	41	127	171 ?	378 ?	456	463	317	348	215	159 ?	65 ?	19	0	0	0	0	0	0	2759 ?
29	0	0	0	0	0	0	56	169 ?	329 ?	318 ?	?	230 ?	186 ?	152	174	109	81	25	0	0	0	0	0	0	1829 ?
30	0	0	0	0	0	0	29	100	181	318	366	418	408	293	274	189	82	15	0	0	0	0	0	0	2672
Avg	0	0	0	0	0	5	35	109	198	249	276	288	275	256	212	153	93	30	5	0	0	0	0	0	1525 ?
S D	0	0	0	0	0	5	13	38	60	83	112	140	136	107	80	50	38	15	5	0	0	0	0	0	959
S/A	0	0	0	0	0	1.05	0.38	0.35	0.3	0.34	0.4	0.48	0.49	0.42	0.38	0.33	0.4	0.5	1.14	0	0	0	0	0	0.63
Min	0	0	0	0	0	0	6	30	81	89	84	48	65	71	81	59	38	5	0	0	0	0	0	0	75
Max	0	0	0	0	0	18	68	169	329	378	456	463	504	422	370	238	185	59	15	0	0	0	0	0	2826
n	0	0	0	0	0	64	303	172	160	185	184	180	187	211	250	255	244	301	57	0	0	0	0	0	2766

Daylight Data Recovery: 0.0% missing; 0.0% untested; 37.7% exceed the 15% QC threshold -- 4439 total daylight measurements.

Instrument: Eppley PSP Serial Number: 31393F3 Calibration Factor: 7.6820 $\mu\text{V}/\text{W}/\text{m}^2$ Calibration Date: 07/2007

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

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

September 2008

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	0.8	1	0.8	1	0.8	1	1	1.5	1.9	2.2	2.9	2.8	2.5	2.6	2.7	2.8	2.4	2	0.5	0.3	0	0.1	0.4	0.2	1.4
2	0.7	0.2	0.7	0.5	0.7	0.4	0.7	1.4	1.9	1.8	1.9	2	1.7	2.1	1.7	1.6	1.5	1.7	1.3	1.4	0.9	0.1	0.2	0.1	1.1
3	0.3	0.3	0.8	1.2	0.9	0.1	0.6	1.6	2.1	1.3	2.4	2.3	2.4	2.4	1.3	2.7	2.1	1.4	1.3	0.9	1.3	1.5	1.3	1.6	1.4
4	1.7	1.8	1.4	1.1	0.9	0.7	0.5	1.5	1.4	1.8	1.1	1.8	2.7	2.4	3.5	3.9	3.4	3.2	2.8	2.7	2.5	1.4	0.4	1.1	1.9
5	1	0.9	1.5	1.5	1.4	1.7	2.1	2.6	3.9	3.8	3.9	4.4	4	3.5	4.8	4.2	4.7	3.6	2.9	2.7	3.5	3	3.6	3.7	3
6	5	5.3	6.2	6.1	7.4	9.3	9.4	9.2	9.3	9.9	9.4	8.5	8.5	8.5	8.4	7.4	6.3	5.4	2.6	1.7	2.3	2.4	1.8	1.2	6.3
7	0.4	0.1	0.5	1	1.1	1	0.4	0.8	1.6	2	1.8	1.8	1.5	1.7	2.8	2.9	2.8	2.5	2	1.7	1.6	1.5	2	2	1.6
8	1.5	0.9	0.1	0.6	0.6	0.8	1.4	1.8	2.7	3.3	4.1	4.2	4.2	4.3	3.8	4.1	3.7	2.8	2.1	2.2	2.2	1.7	1.5	1.5	2.3
9	1.4	0.7	0.5	0.8	0.6	0.2	0.5	1	2.8	3.6	4	3.6	3	3.6	3.7	2.9	2.2	1.9	2.3	2.5	2.8	2.2	1.7	1.6	2.1
10	1.2	1.6	1.6	1.1	0.8	1.6	0.5	0.4	0.8	1.6	2.1	2.6	2.6	1.8	2.1	2.2	2	2.1	1.4	1.7	1.7	0.9	0.6	0.7	1.5
11	0.8	0.6	0.2	1.3	1.7	1.3	0.9	2.1	2.8	3	4	4	4.4	3.9	3.3	4.1	4.4	3.6	2.7	3	2.3	2.1	1.6	1.8	2.5
12	1.5	1.3	1.5	1.8	1.4	1.1	1.9	2.8	3.3	2.8	2.7	3.2	3.4	3.6	3	4.3	3.4	3.1	1.7	1.7	1.5	1.4	1.7	2	2.3
13	2.6	2.8	2.9	2.9	2.4	2.5	2.6	2.5	3.1	3.2	2.9	2.8	2.4	2.6	2.2	2.7	2.5	1.1	0.8	0.7	0.8	0.8	0.8	1	2.2
14	1.1	1.4	1.5	1.9	2.1	1.9	1.6	2.7	3.5	4.1	3.4	3.7	4.5	4.7	4.3	4.3	2.9	2.1	1.9	2.1	2.4	3	3.2	3.4	2.8
15	3.2	3	3.5	3	3.1	3.1	3.5	3.9	4.5	3.8	2.8	2.7	2.6	2.1	2	2	2	1.6	2.2	1.8	1.6	1.8	2.1	2	2.7
16	2.1	2.4	3.1	2.7	3	2.1	1.9	2.3	3.3	4.1	3.9	3	1.1	1.2	2.3	3	2.8	1.9	1.5	1.4	1.4	2.1	1.3	1.5	2.3
17	1.8	2	2.4	2.4	2.7	2.9	3.1	2.9	3.1	2.8	3.6	3.1	3.5	3.7	3	3.7	2.6	2.3	0.9	0.7	0.8	0.9	0.5	0.6	2.3
18	1.3	1.7	1.1	1.4	1.4	1	0.8	1.3	1.8	3.3	2.9	3.6	4.1	4.5	4.3	4.3	4.3	3.1	2	1.3	1.7	1.7	1.6	1.5	2.3
19	1.8	2.3	2.1	2.3	3.1	3.4	3.1	3.8	5.2	5.1	5.6	5.6	6.1	6.1	6.4	6.3	5.8	4.8	4.1	3.8	4.6	4.6	4.1	3.8	4.3
20	3.6	3.4	3.1	2.8	2.7	2.8	3.6	3.7	4.1	4.3	4.7	4.3	4.2	3.9	4.1	3.8	3.2	3.3	2.9	2.7	2.3	2	1.9	2	3.3
21	1.7	2.3	1.8	1.8	1.6	1.5	1.3	2.5	3.2	3.4	3.2	3.2	2.9	2.6	2.4	2.1	2.1	1.9	1.8	1.7	1.4	0.9	1.4	1.4	2.1
22	1.1	1.3	1.8	1.7	1.6	2.2	2.7	2.5	2.1	3	3.2	3.6	3.6	3.8	4.3	3.9	4.1	3.3	3	2.9	3	3.6	3.9	4.1	2.9
23	4	3.6	4.3	4	4.2	3.7	4.3	4.5	5.3	5.7	5.9	6.6	6.1	6.3	6.3	6.9	6.2	5.8	4.8	4.5	4.2	4	4	4.3	5
24	3.7	3.9	4.4	4.4	4.1	4.2	4.8	4.7	6	6.2	6.6	7	6.9	7.5	7.5	6.6	6.5	5.6	5.7	5.5	6.3	6.5	6.5	6.9	5.8
25	7.3	7.1	6.7	7	6.8	7.3	6.5	7.2	7.4	7.6	7.3	8.5	6.2	5.3	4.9	5.2	3.4	2.4	3.5	3.5	3.1	3.7	4	3.3	5.6
26	3	2.8	2.7	2.4	2.2	2.2	1.1	1.4	3.1	4.3	5.7	5.7	5.3	5.7	4.7	4.1	3.8	2.7	3.5	2.8	3.1	1.8	0.7	0.7	3.1
27	1.5	1.2	0.7	0.5	0.4	0.3	0.1	0.5	0.9	0.7	0.9	1.7	1.9	1.5	2.2	2.8	2.7	2.7	2.3	2.1	0.6	1.1	0.5	1.2	1.3
28	1.3	1.1	0.8	1	0.7	0.1	0.9	1.2	1.5	1.9	2	2.2	2.6	2.7	2.3	2.4	2.1	1.2	1.3	1.1	1.1	1.5	1.8	1.2	1.5
29	1.3	1.2	1	1	1.5	1.4	1	1.6	2	2.3	2.5	1.7	1.5	1.5	1.6	1.5	1	2.4	2	1.6	1.4	0.8	0.3	0	1.4
30	0.8	1.1	0.7	0.3	0.4	1.1	0.8	0.9	2.1	2.5	2.3	3.1	2.7	2.4	2.4	2.5	1.7	1.6	0.2	1.2	0.5	0.7	1.1	1.1	1.4
Avg	2	2	2	2.1	2.1	2.1	2.1	2.6	3.2	3.5	3.7	3.8	3.6	3.6	3.6	3.7	3.3	2.8	2.3	2.1	2.1	2	1.9	1.9	2.7
SD	1.5	1.5	1.7	1.6	1.7	2	2	1.9	1.9	1.9	1.9	1.9	1.8	1.8	1.8	1.5	1.5	1.2	1.2	1.2	1.3	1.4	1.5	1.5	1.4
S/A	0.76	0.78	0.83	0.78	0.83	0.97	0.97	0.75	0.59	0.55	0.52	0.5	0.49	0.5	0.49	0.42	0.44	0.45	0.54	0.55	0.64	0.7	0.79	0.78	0.53
Min	0.3	0.1	0.1	0.3	0.4	0.1	0.1	0.4	0.8	0.7	0.9	1.7	1.1	1.2	1.3	1.5	1	1.1	0.2	0.3	0	0.1	0.2	0	1.1
Max	7.3	7.1	6.7	7	7.4	9.3	9.4	9.2	9.3	9.9	9.4	8.5	8.5	8.5	8.4	7.4	6.5	5.8	5.7	5.5	6.3	6.5	6.5	6.9	6.3
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: NRG MAX-40 Serial Number: 0 Calibration Factor: 0.76171 m/s/mV Calibration Date: 06/1995

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

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

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

September 2008

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	16	2	356	1	5	358	16	33	33	55	61	55	55	65	57	58	60	72	62	72	109	119	265	251	47
2	259	287	300	305	322	297	306	304	311	332	340	343	334	338	340	13	29	87	121	144	131	120	146	222	342
3	202	196	225	235	236	210	237	268	267	280	269	253	244	255	136	153	175	171	127	132	166	186	198	206	217
4	207	214	216	222	216	214	200	219	240	261	287	125	73	139	132	102	100	118	127	126	128	133	121	108	141
5	98	104	85	65	61	72	80	75	86	82	76	79	75	66	76	99	113	127	123	120	123	116	111	109	94
6	115	116	116	112	113	118	127	128	139	162	176	191	198	216	232	237	237	235	223	207	204	213	208	203	168
7	216	246	220	234	250	260	283	318	25	43	34	69	75	103	98	100	102	108	84	72	71	67	69	78	79
8	76	82	86	17	51	64	59	77	93	92	98	94	100	114	114	117	110	114	101	98	103	107	107	124	100
9	130	138	142	142	140	168	210	201	216	229	231	218	228	242	230	241	227	177	200	218	230	217	244	249	220
10	249	244	253	266	250	276	155	277	6	349	37	57	66	64	56	31	19	24	30	19	27	19	354	354	18
11	358	353	306	346	1	358	23	52	54	54	61	62	62	62	57	60	60	53	55	66	60	63	62	65	53
12	48	48	50	64	59	63	78	94	109	126	119	135	128	111	154	141	149	150	167	169	174	183	197	209	127
13	223	228	230	234	237	233	241	249	258	263	258	264	259	250	265	243	254	48	207	195	202	216	207	199	243
14	207	220	213	225	228	224	219	228	230	234	235	212	215	217	210	214	206	211	207	202	194	200	210	208	216
15	208	210	213	215	218	222	231	235	252	262	263	242	248	275	296	341	48	35	48	36	37	36	34	16	251
16	5	346	8	22	33	24	25	6	355	355	353	39	26	334	15	10	18	27	15	19	352	31	21	2	11
17	1	4	359	352	0	0	8	5	9	12	12	14	26	357	7	352	1	357	350	318	313	319	306	307	2
18	319	321	323	321	310	308	309	319	344	355	26	39	42	49	49	39	34	33	10	16	26	6	7	357	17
19	2	26	4	34	48	45	40	45	48	40	36	38	34	35	33	28	34	35	32	25	27	31	16	13	33
20	4	357	360	343	352	13	13	19	26	29	27	24	22	21	25	22	23	33	35	10	1	356	0	354	15
21	341	0	356	3	353	344	344	4	23	19	38	42	43	43	46	48	52	54	54	34	28	40	4	15	25
22	4	12	9	352	352	354	358	12	21	32	24	28	35	37	31	33	27	21	13	11	31	29	28	28	22
23	28	26	31	32	34	30	31	26	30	26	19	32	30	27	28	30	28	21	15	17	18	20	27	25	26
24	31	29	26	33	32	33	30	34	36	35	34	37	34	33	29	27	23	22	21	19	25	26	25	24	29
25	24	19	23	21	26	22	18	22	26	24	32	39	23	3	11	22	25	45	73	71	78	87	78	75	31
26	77	80	74	78	78	73	64	63	78	95	109	107	100	101	98	111	115	109	106	117	128	115	102	65	98
27	94	102	84	94	79	61	37	69	113	129	136	116	128	195	125	97	118	126	118	112	216	78	163	230	119
28	227	227	236	247	231	214	222	225	240	261	247	224	256	242	249	240	261	260	245	256	256	255	272	276	247
29	269	282	296	313	310	291	285	321	340	38	7	343	1	313	337	319	333	99	95	81	88	123	169	55	351
30	154	166	165	186	197	139	140	101	135	160	166	163	166	176	170	169	174	164	3	55	95	127	205	238	161
Avg	33	24	23	19	27	33	37	33	41	38	42	61	57	46	52	54	58	68	66	62	64	59	44	36	50
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.

September 2008

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

Day	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	Daily
1	1.8	1.6	1.7	1.6	1.6	1.7	2.1	3	3.4	4.2	4.8	4.9	4.7	5	4.8	5.1	4.1	3.6	1.1	0.6	0.2	0.3	0.7	0.4	2.6
2	1.2	0.7	1.3	1.2	1.3	1.1	1.5	3.1	4	3.7	3.7	4.5	3.9	4	3.6	3.2	3	2.8	2.1	2.2	1.6	0.4	0.5	0.4	2.3
3	0.7	0.9	1.3	1.7	1.3	0.4	1.1	2.8	3.5	2.6	4.3	4.1	4.6	4.4	2.7	4.7	3.9	2.9	2	1.5	2.4	2.9	2.4	2.9	2.6
4	2.7	2.8	2.2	1.7	1.4	1.3	1.3	2.6	2.6	3.2	2.7	3.1	4.4	4.5	5.8	6.3	5.6	5.4	4.7	4.1	3.8	2.2	0.9	1.8	3.2
5	1.6	1.5	2.5	2.4	2.3	2.9	3.8	4.3	6.7	6.9	6.5	7.1	7	6.4	8.4	7.5	8.3	6.1	5	4.5	5.9	5.4	6.1	6.3	5.2
6	8.6	9	10.5	10.2	12.8	15.4	15.4	15.2	15	18	16.8	14	14.6	13.4	13.4	12.4	10.5	8.9	4.1	2.9	3.7	4	3.1	1.9	10.6
7	1	0.5	1	1.7	1.8	1.9	1.4	2.1	3.2	3.7	3.2	3.4	2.9	3	4.4	4.6	4.1	3.8	3.3	2.9	2.6	2.6	3.3	3.2	2.7
8	2.5	1.5	0.4	1.1	1.2	1.4	2.3	3	4.3	5.2	6.2	6.4	6.4	6.7	6.3	6.5	5.8	4.7	3.4	3.4	3.4	2.6	2.5	2.5	3.7
9	2.3	1.6	1.2	1.6	1.4	0.8	1.4	2.3	4.7	6	6.5	5.8	5.1	6	6	4.9	3.7	3.8	4.3	4.1	4.2	3.6	2.8	2.8	3.6
10	2	2.6	2.6	2.2	1.7	3	1.2	1.1	1.9	2.9	4	4.8	4.5	3.3	3.8	4	4.3	4.2	3	3.4	3	2.2	1.3	1.7	2.9
11	1.8	1.6	0.8	2.6	3	2.7	2.2	4.1	5.1	5.5	6.8	6.5	7.3	6.5	5.7	6.9	7.5	6	5	5.5	4.3	3.9	3	3.3	4.5
12	2.4	2.1	2.4	3	2.4	2	3.1	4.3	5.3	4.6	4.5	5.6	5.6	5.8	5	6.5	5.6	5.1	3.2	2.8	2.6	2.7	3	3.4	3.9
13	4.2	4.5	4.6	4.6	4.1	4	4	4.6	5.5	5.8	5.4	5.1	4.8	4.5	4.3	4.5	4.2	2.1	1.7	1.4	1.5	1.4	1.5	1.7	3.7
14	1.9	2.4	2.4	3	3.3	3	2.8	4.6	5.7	6.6	5.8	6.2	7.7	7.9	7.5	7.4	5	3.6	3.1	3.7	4.3	5.3	5.3	5.9	4.8
15	5.5	5.2	5.8	5.3	5.2	5	5.3	6.4	7.6	6.7	5.6	4.6	4.8	4	4	3.6	2.9	3.9	3.4	2.8	3.5	3.5	3.5	3.4	4.7
16	3.7	4.4	5.5	5.2	5.4	3.7	3.4	3.9	5.5	7.2	6.8	5.4	2.7	2.8	4.5	5.4	5.6	4	2.9	2.9	3.2	4	2.9	3.1	4.3
17	3.5	3.6	4.3	4.4	4.8	5.3	5.5	5.1	5.6	5.3	6.2	5.7	6.3	6.4	5.3	6.1	5.1	4.1	1.8	1.3	1.5	1.6	1.1	1.2	4.2
18	2.2	2.9	2	2.8	2.8	2.2	1.7	2.9	3.6	5.9	5.3	6.5	7	7.5	7.4	7.5	7.7	5.4	3.5	2.5	3.1	3.1	2.7	2.5	4.2
19	3	3.8	3.3	4.2	5.7	5.6	5.5	6.6	8.8	9.2	9.4	9.6	10.4	10.4	11	11	10.2	8.7	7.5	7.6	8.2	8	7.4	6.8	7.6
20	6.1	5.8	5.2	5	4.7	5	6.7	6.8	7.9	7.5	8.6	7.7	7.3	6.7	7	6.8	6.3	5.6	5.2	5	3.9	3.7	3.3	3.2	5.9
21	3.1	3.9	3.3	3.2	3	2.7	2.8	4.4	5.8	5.8	5.4	5	5.1	4.4	4	3.8	3.5	3.4	3.2	2.9	2.8	1.7	2.4	2.5	3.7
22	1.9	2.3	2.9	2.9	2.6	3.8	4.5	4.2	3.9	5.2	5.8	6.1	6.6	7	7.6	7.3	7.1	6.2	5.2	5.2	5.7	6.7	6.8	7.4	5.2
23	7.2	6.9	7.9	7.1	7.1	7	7.4	8.2	9.3	9.9	9.7	10.6	10.9	11.1	10.9	12	11.4	10.2	8.7	8.3	7.6	7.5	7.4	8	8.8
24	6.8	7.1	8.1	8	7.6	8.1	8.6	8.8	9.7	11.1	11.3	12.1	12.2	12.9	13.5	11.9	11.3	10.2	10.3	10.7	11.4	11.4	11.6	11.8	10.3
25	12.3	11.9	11.9	12.6	12.2	12.7	11.1	11.9	13	13.6	13.2	14.5	10.4	10	8.5	8.9	6.2	4.8	6.4	6.3	5.7	6.6	6.7	5.8	9.9
26	5.4	5.2	4.7	4.4	4	3.8	2.6	3.1	5.1	7	8.7	9.8	9.1	9.3	7.7	7	6.2	4.8	5.3	4.8	5.1	3.2	1.7	1.4	5.4
27	2.7	2.5	1.7	1.2	1	1	0.5	1.4	2	1.7	2.2	3.4	3.5	3.1	3.6	4.4	4.2	4	3.8	3.4	1.2	2	1.1	1.8	2.4
28	2.2	1.8	1.6	1.8	1.4	0.8	1.8	2.3	2.8	3.6	3.6	3.9	4.4	5	3.9	4	3.6	2	2.1	2	2	2.4	3.3	2.2	2.7
29	2.2	2.6	2.2	2.1	3.1	2.8	2.3	3.5	3.8	3.9	4.2	3.6	3.4	3.7	3.5	3.4	2.1	4.2	3.2	2.7	2.3	1.5	0.7	0.2	2.8
30	1.4	1.9	1.4	0.9	0.9	1.8	1.5	1.7	3.3	4.1	4.2	5	5	4.3	4.1	4.3	3.3	2.9	0.7	2	1.1	1.4	1.9	1.6	2.5
Avg	3.5	3.5	3.6	3.7	3.7	3.8	3.8	4.6	5.6	6.2	6.4	6.5	6.4	6.3	6.3	6.4	5.8	4.9	4	3.8	3.7	3.6	3.4	3.4	4.7
S D	2.6	2.6	2.9	2.8	3	3.4	3.3	3.1	3.1	3.4	3.2	3	2.9	2.9	2.9	2.6	2.5	2.2	2.2	2.4	2.5	2.6	2.6	2.6	2.4
S/A	0.74	0.74	0.81	0.76	0.81	0.9	0.86	0.67	0.55	0.55	0.5	0.47	0.45	0.46	0.46	0.41	0.44	0.44	0.54	0.58	0.64	0.68	0.76	0.78	0.51
Min	0.7	0.5	0.4	0.9	0.9	0.4	0.5	1.1	1.9	1.7	2.2	3.1	2.7	2.8	2.7	3.2	2.1	2	0.7	0.6	0.2	0.3	0.5	0.2	2.3
Max	12.3	11.9	11.9	12.6	12.8	15.4	15.4	15.2	15	18	16.8	14.5	14.6	13.4	13.5	12.4	11.4	10.2	10.3	10.7	11.4	11.4	11.6	11.8	10.6
n	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	360	8640

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

Instrument: 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.

