

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	4	49	219	425	596	735	817	844	802	707	562	372	174	18	0	0	0	0	0	6324
2	0	0	0	0	0	2	62	213	408	595	732	817	838	810	522	516	389	156	10	0	0	0	0	0	6070
3	0	0	0	0	0	0	37 ?	219	397	581	592	658	661	724	608	307	145	163	33	0	0	0	0	0	5124
4	0	0	0	0	0	0	54	235	438	587	708	851	870	835	736	567	385	186	19	0	0	0	0	0	6471
5	0	0	0	0	0	0	26 ?	207	429	612	755	844	865	822	724	567	375	176	16	0	0	0	0	0	6417
6	0	0	0	0	0	0	31 ?	211	413	601	739	823	841	801	701	548	356	160	18	0	0	0	0	0	6242
7	0	0	0	0	0	0	48	218	411	590	730	813	838	801	697	542	352	143	11	0	0	0	0	0	6193
8	0	0	0	0	0	0	8	34	66 ?	127	151	391	637	732	662	506	365	163	16	0	0	0	0	0	3857
9	0	0	0	0	0	0	51	204	418	602	743	831	855	802	652	540	318	116	17	0	0	0	0	0	6150
10	0	0	0	0	0	0	42	245	377	581	719	804	825	780	688	521	296	86	10	0	0	0	0	0	5974
11	0	0	0	0	0	0	12	42 ?	202	199	71	101	91	127	157	243	264	44	10	0	0	0	0	0	1562
12	0	0	0	0	0	0	12	92	246	261	498	549	729	520	515	495	240	124	8	0	0	0	0	0	4288
13	0	0	0	0	0	0	37 ?	205	363	573	717	797	815	771	671	513	327	131	6	0	0	0	0	0	5926
14	0	0	0	0	0	0	39	217	366	572	708	791	809	751	547	476	279	95	12	0	0	0	0	0	5662
15	0	0	0	0	0	0	41	201	352	556	690	818	817	541	316	533	323	121	3	0	0	0	0	0	5313
16	0	0	0	0	0	0	30	65	108	231	341	302	233	128	147	409	276	81	15	0	0	0	0	0	2367
17	0	0	0	0	0	0	22	93	173	298	330	569	636	761	551	505	283	113	5	0	0	0	0	0	4339
18	0	0	0	0	0	0	59	149	375	565	699	779	796	748	638	479	293	97	0	0	0	0	0	0	5676
19	0	0	0	0	0	0	46	192	377	548	681	762	778	731	626	465	303	83	6	0	0	0	0	0	5598
20	0	0	0	0	0	0	45	196	356	534	666	676	737	736	508	305	290	76	5	0	0	0	0	0	5129
21	0	0	0	0	0	0	31	175	358	521	658	740	754	713	608	456	271	84	4	0	0	0	0	0	5373
22	0	0	0	0	0	0	27	161	311	422	658	526	493	615	555	436	249	79	4	0	0	0	0	0	4537
23	0	0	0	0	0	0	24	128	335	515	641	688	587	437	632	441	255	75	3	0	0	0	0	0	4760
24	0	0	0	0	0	0	29	157	344	520	660	755	615	598	566	449	264	84	3	0	0	0	0	0	5045
25	0	0	0	0	0	0	13	66	86	193	312	605	739	695	508	370	168	54	0	0	0	0	0	0	3808
26	0	0	0	0	0	0	2	22	29 ?	?	61 ?	70 ?	?	?	60 ?	?	?	4 ?	1	0	0	0	0	0	249 ?
27	0	0	0	0	0	0	6	13 ?	77 ?	137	308	220	168	149	278	119	104	20	2	0	0	0	0	0	1602 ?
28	0	0	0	0	0	0	6	35	81	148	196	265	363	466	340	315	140	44	1	0	0	0	0	0	2401
29	0	0	0	0	0	0	23	106	202	238	322	223	179	72	69	48	28	16	1	0	0	0	0	0	1525
30	0	0	0	0	0	0	3	6 ?	40 ?	102	143	91	93	133	59	52 ?	20 ?	15	3	0	0	0	0	0	760 ?
Avg	0	0	0	0	0	0	31	144	285	435	532	599	638	607	502	424	266	99	9	0	0	0	0	0	4491
S/D	0	0	0	0	0	1	17	78	139	185	236	261	255	249	216	148	99	52	8	0	0	0	0	0	1862
S/A	0	0	0	0	0	3.76	0.57	0.54	0.49	0.43	0.44	0.44	0.4	0.41	0.43	0.35	0.37	0.53	0.88	0	0	0	0	0	0.41
Min	0	0	0	0	0	0	2	6	29	102	61	70	91	72	59	48	20	4	0	0	0	0	0	0	249
Max	0	0	0	0	0	4	62	245	438	612	755	851	870	835	736	567	389	186	33	0	0	0	0	0	6471
n	0	0	0	0	0	4	298	331	327	348	353	357	347	346	354	337	338	356	166	0	0	0	0	0	4262

Daylight Data Recovery: 0.0% missing; 0.0% untested; 4.2% exceed the 15% QC threshold -- 4450 total daylight measurements.

Instrument: Eppley PSP Serial Number: 25821F3 Calibration Factor: 9.020 μV/W/m² Calibration Date: 05/1998

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	0	*	
6	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
7	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
8	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
9	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
10	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
11	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
12	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
13	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
14	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
15	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
16	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
17	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
18	0	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	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*	
Avg	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0	0	0	0	0	N/A	*
SD	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	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	N/A	N/A	N/A	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	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 100.0% missing; 0.0% untested; 0.0% exceed the 15% QC threshold -- 4450 total daylight measurements.

Instrument: Eppley NIP Serial Number: 17664E6 Calibration Factor: 8.480 μV/W/m² Calibration Date: 05/1998

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	?	51	242 ?	?	?	?	?	?	215	83	68	54	41	11	0	0	0	0	0	764 ?
2	0	0	0	0	0	?	47	52	59	71	82	91	108	128	128	376 ?	?	182	11	0	0	0	0	0	1336 ?
3	0	0	0	0	0	0	23	65	86	119	265	307	240	215	220	267	156	167	35	0	0	0	0	0	2166
4	0	0	0	0	0	0	20	46	68	149	173	125	101	111	86	134	340 ?	168 ?	22	0	0	0	0	0	1542
5	0	0	0	0	0	0	20	42	47	54	62	67	66	64	64	66	210	192	18	0	0	0	0	0	970
6	0	0	0	0	0	0	19	42	48	59	64	71	78	75	72	67	106	133	18	0	0	0	0	0	854
7	0	0	0	0	0	0	18	38	52	69	84	93	91	86	83	79	77	72	10	0	0	0	0	0	850
8	0	0	0	0	0	0	8	33	34	138	162	336	382	281	235	165	73	51	12	0	0	0	0	0	1910
9	0	0	0	0	0	0	19	39	46	58	63	70	71	89	116	73	73	55	15	0	0	0	0	0	790
10	0	0	0	0	0	0	19	42	48	59	65	72	75	77	83	78	61	65	11	0	0	0	0	0	757
11	0	0	0	0	0	0	13	33	203	199	74	107	97	137	167	229	155	48	12	0	0	0	0	0	1474
12	0	0	0	0	0	0	12	91	208	227	251	191	218	184	166	150	92	47	8	0	0	0	0	0	1845
13	0	0	0	0	0	0	20	43	56	63	72	77	77	73	70	61	51	32	7	0	0	0	0	0	700
14	0	0	0	0	0	0	21	66	109	80	74	73	76	104	125	94	88	62	12	0	0	0	0	0	985
15	0	0	0	0	0	0	20	46	54	70	78	129	117	162	143	107	64	33	4	0	0	0	0	0	1027
16	0	0	0	0	0	0	28	69	115	225	346	274	238	122	157	171	135	68	15	0	0	0	0	0	1963
17	0	0	0	0	0	0	24	93	175	286	215	239	190	183	138	105	66	37	6	0	0	0	0	0	1758
18	0	0	0	0	0	0	18	44	54	58	68	69	66	62	57	50	39	21	1	0	0	0	0	0	608
19	0	0	0	0	0	0	20	43	56	66	79	84	83	77	75	80	78	45	6	0	0	0	0	0	791
20	0	0	0	0	0	0	19	44	60	78	95	157	154	156	149	135	132	41	5	0	0	0	0	0	1226
21	0	0	0	0	0	0	18	53	80	98	104	106	112	106	103	95	77	39	5	0	0	0	0	0	996
22	0	0	0	0	0	0	23	119	173	224	315	339	405	254	143	126	99	42	5	0	0	0	0	0	2267
23	0	0	0	0	0	0	22	71	95	99	113	154	207	201	189	137	83	37	4	0	0	0	0	0	1412
24	0	0	0	0	0	0	24	104	165	132	131	197	213	203	160	94	64	32	4	0	0	0	0	0	1522
25	0	0	0	0	0	0	13	70	91	186	294	289	210	181	146	117	98	51	0	0	0	0	0	0	1745
26	0	0	0	0	0	0	2	23	26 ?	34 ?	49	69	45 ?	38 ?	49	26 ?	?	4 ?	1	0	0	0	0	0	365 ?
27	0	0	0	0	0	0	6	14 ?	80 ?	146	326	240	183	158	279	110	111	21	2	0	0	0	0	0	1676
28	0	0	0	0	0	0	6	36	86	151	205	277	325	281	246	169	92	42	1	0	0	0	0	0	1916
29	0	0	0	0	0	0	26	107	207	246	324	232	183	74	73	48	30	16	1	0	0	0	0	0	1566
30	0	0	0	0	0	0	3	12	31	107	151	96	95	141	62	37	18	15	2	0	0	0	0	0	770
Avg	0	0	0	0	0	0	19	61	90	122	151	160	155	141	129	117	97	62	9	0	0	0	0	0	1285
S/D	0	0	0	0	0	0	10	43	56	69	98	92	96	67	61	73	63	51	8	0	0	0	0	0	519
S/A	0	0	0	0	0	0	0.54	0.71	0.62	0.57	0.65	0.58	0.62	0.48	0.47	0.62	0.65	0.83	0.89	0	0	0	0	0	0.4
Min	0	0	0	0	0	0	2	12	26	34	49	67	45	38	49	26	18	4	0	0	0	0	0	0	365
Max	0	0	0	0	0	0	51	242	208	286	346	339	405	281	279	376	340	192	35	0	0	0	0	0	2267
n	0	0	0	0	0	2	308	349	337	342	348	348	345	355	360	347	328	351	167	0	0	0	0	0	4287

Daylight Data Recovery: 0.0% missing; 0.0% untested; 3.7% exceed the 15% QC threshold -- 4450 total daylight measurements.

Instrument: Eppley PSP Serial Number: 17860F3 Calibration Factor: 7.010 μV/W/m² Calibration Date: 05/1998

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.