

June 2005

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	2	15	65	156	334	434	459	369	559	642	732	546	234	117	46	0	0	0	0	0	4710
2	0	0	0	0	1	12	81	182	341	340	301	840	542	513	814	619	388	228	41	0	0	0	0	0	5244
3	0	0	0	0	3	65	190	408	614	779	861	908	800	846	737	621	415	193	29	0	0	0	0	0	7469
4	0	0	0	0	3	48	199	386	584	751	870	916	885	746	653	601	402	203	47	0	0	0	0	0	7293
5	0	0	0	0	2	48	210	401	553	727	888	896	794	716	594	532	349	194	21	0	0	0	0	0	6926
6	0	0	0	0	0	22	89	278	452	704	799	965	709	825	578	447	407	223	56	0	0	0	0	0	6555
7	0	0	0	0	3	45	208	403	590	761	878	941	940	875	761	590	385	157	21	0	0	0	0	0	7558
8	0	0	0	0	3	57	206	411	514	639	811	802	910	734	807	501	116 ?	?	4 ?	2	0	0	0	0	6518 ?
9	0	0	0	0	1	65	176	341	575	641	748	735	763	359	153	177	110	75	29	3	0	0	0	0	4949
10	0	0	0	0	4	71	126	409	585	705	878	833	894	391	607	612	415	194	72	3	0	0	0	0	6799
11	0	0	0	0	1	52	195	396	430	511	480	554	467	321	281	277	365	185	50	7	0	0	0	0	4572
12	0	0	0	0	2	53	223	422	580	765	826	888	987	907	779	611	404	189	53	1	0	0	0	0	7688
13	0	0	0	0	4	50	209	405	592	766	733	834	747	726	673	555	337	178	51	2	0	0	0	0	6861
14	0	0	0	0	3	48	196	384	576	741	857	925	924	850	459	393	423	200	49	2	0	0	0	0	7030
15	0	0	0	0	2	51	213	410	604	770	886	957	960	901	782	611	430	222	56	0	0	0	0	0	7854
16	0	0	0	0	3	54	226	408	626	757	808	957	953	869	703	528	419	193	46	2	0	0	0	0	7550
17	0	0	0	0	3	34	180	319	304	79 ?	128	258	189	94	114	85	84	38	31	4	0	0	0	0	1945
18	0	0	0	0	3	52	217	421	622	787	906	971	943	909	676	362	309	128	57	1	0	0	0	0	7363
19	0	0	0	0	1	50	220	424	626	794	909	977	975	918	803	652	405	167	57	1	0	0	0	0	7980
20	0	0	0	0	2	47	197	388	596	732	608	661	910	828	661	550	392	199	46	0	0	0	0	0	6818
21	0	0	0	0	2	52	182	364	556	714	838	950	921	846	743	582	349	178	55	2	0	0	0	0	7333
22	0	0	0	0	2	48	188	375	565	732	815	891	867	687	726	571	373	191	45	0	0	0	0	0	7075
23	0	0	0	0	2	43	175	303	554	709	841	905	958	867	732	511	345	187	44	1	0	0	0	0	7177
24	0	0	0	0	1	40	167	337	525	684	801	793	600	652	452	239	225	146	42	1	0	0	0	0	5705
25	0	0	0	0	0	18	124	324	526	583	694	890	817	697	679	395	306	154	46	6	0	0	0	0	6259
26	0	0	0	0	1	31	114	320	504	489	430	626	562	564	366	209	118	48	26	1	0	0	0	0	4408
27	0	0	0	0	3	47	151	340	525	512	571	595	751	488	456	383	172	105	48	1	0	0	0	0	5149
28	0	0	0	0	2	37	164	338	518	690	787	895	639	773	787	623	326	187	48	3	0	0	0	0	6818
29	0	0	0	0	2	40	171	355	543	713	842	955	948	434	208	425	358	198	58	4	0	0	0	0	6255
30	0	0	0	0	1	42	188	377	567	732	571	535	777	889	781	621	409	213	55	2	0	0	0	0	6761
Avg	0	0	0	0	2	45	175	359	536	658	728	807	790	696	610	481	326	169	44	2	0	0	0	0	6421
S D	0	0	0	0	1	14	44	65	85	158	197	186	188	212	205	154	107	50	14	2	0	0	0	0	1324
S/A	0	0	0	0	0.5	0.32	0.25	0.18	0.16	0.24	0.27	0.23	0.24	0.3	0.34	0.32	0.33	0.29	0.31	1.1	0	0	0	0	0.21
Min	0	0	0	0	0	12	65	156	304	79	128	258	189	94	114	85	84	38	4	0	0	0	0	0	1945
Max	0	0	0	0	4	71	226	424	626	794	909	977	987	918	814	652	430	228	72	7	0	0	0	0	7980
n	0	0	0	0	56	360	360	360	360	357	360	360	359	358	357	359	354	348	357	48	0	0	0	0	5113

Daylight Data Recovery: 0.0% missing; 0.6% exceed the 15% QC threshold -- 5144 total daylight measurements.

Instrument: Eppley PSP Serial Number: 18036F3 Calibration Factor: 7.430 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.

June 2005

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	*	
2	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
3	0	0	0	0	?	?	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
4	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
5	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
6	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
7	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
8	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
9	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
10	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
11	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
12	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
13	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
14	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
15	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
16	0	0	0	0	?	?	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
17	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
18	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
19	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
20	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
21	0	0	0	0	?	?	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
22	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
23	0	0	0	0	?	339 ?	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
24	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
25	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
26	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
27	0	0	0	0	*	*	?	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
28	0	0	0	0	*	*	?	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
29	0	0	0	0	*	*	?	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
30	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
Avg	0	0	0	0	N/A	339	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	N/A	339	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	N/A	339	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	4	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0

Daylight Data Recovery: 98.3% missing; 1.5% exceed the 15% QC threshold -- 5144 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25796E6 Calibration Factor: 8.670 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.

Mississippi Valley State University
33.5 N Latitude 90.33 W Longitude 52 Meters AMSL Time Zone -6

June 2005

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	4 ?	15	67	161	334	308	340	372	441	450	310	166	163	96	40	0	0	0	0	0	3267
2	0	0	0	0	1	12	84	186	339	323	312	369	505	417	312	204	175	115	29	0	0	0	0	0	3384
3	0	0	0	0	4 ?	51	185 ?	393 ?	?	448	205	233	290	220	202	120	104	75	20	0	0	0	0	0	2550 ?
4	0	0	0	0	4 ?	51	196 ?	?	?	542 ?	245	204	212	246	189	129	105	76	31	2	0	0	0	0	2234 ?
5	0	0	0	0	3 ?	52	225 ?	311 ?	515 ?	588 ?	286	239	293	254	197	183	107	75	20	0	0	0	0	0	3347 ?
6	0	0	0	0	0	23	93	214 ?	362 ?	562 ?	512	188	217	291	258	149	161	111	41	0	0	0	0	0	3182
7	0	0	0	0	2	50	172 ?	?	?	?	501	151	142	140	115	114	106	68	22	0	0	0	0	0	1584 ?
8	0	0	0	0	3	63	180 ?	?	411 ?	545 ?	575	295	283	295	242	165	80 ?	?	4 ?	3	0	0	0	0	3144 ?
9	0	0	0	0	1	39 ?	178 ?	268 ?	?	505 ?	590 ?	411	307	225	149	178	92	78	29	3	0	0	0	0	3052 ?
10	0	0	0	0	5 ?	47 ?	130	?	?	?	650 ?	339	305	251	244	138	134	126	62	3	0	0	0	0	2434 ?
11	0	0	0	0	1	59	144 ?	355 ?	394	500	473	464	432	329	288	282	255	150	49	9	0	0	0	0	4184 ?
12	0	0	0	0	2	60	?	?	555 ?	?	636 ?	377	156	106	88	81	85	100	43	2	0	0	0	0	2291 ?
13	0	0	0	0	6 ?	55	171 ?	?	?	?	424 ?	411	289	285	233	170	137	96	39	3	0	0	0	0	2320 ?
14	0	0	0	0	5 ?	52	207	340 ?	?	?	?	477	216	256	230	205	170	96	37	3	0	0	0	0	2294 ?
15	0	0	0	0	2	57	172 ?	?	?	?	?	445	115	101	94	86	72	59	30	1	0	0	0	0	1233 ?
16	0	0	0	0	3	31 ?	?	?	?	630 ?	569 ?	475 ?	137	209	232	192	131	71	34	4	0	0	0	0	2716 ?
17	0	0	0	0	4 ?	35	187	329	313	79	131	262	184	96	111	85	86	38	33	6	0	0	0	0	1979
18	0	0	0	0	2	56	171 ?	?	?	?	?	502 ?	273	224	255	237	164	88	50	1	0	0	0	0	2024 ?
19	0	0	0	0	1	56	?	?	?	?	?	482 ?	147	128	154	208	159	77	37	3	0	0	0	0	1453 ?
20	0	0	0	0	2	51	204 ?	?	?	?	594 ?	490	367	344	301	251	214	143	42	1	0	0	0	0	3004 ?
21	0	0	0	0	2	55	202	353 ?	?	?	?	627 ?	372	298	264	239	195	123	49	3	0	0	0	0	2781 ?
22	0	0	0	0	3 ?	52	209	343 ?	?	?	?	586 ?	329	332	271	225	164	107	38	1	0	0	0	0	2661 ?
23	0	0	0	0	3 ?	47	195	310	?	?	?	604 ?	315	295	272	250	195	126	39	2	0	0	0	0	2653 ?
24	0	0	0	0	1	43	182	369	?	?	?	610	401	406	348	197	213	127	39	1	0	0	0	0	2937 ?
25	0	0	0	0	0	18	128	310 ?	427 ?	569 ?	602 ?	667	463	395	354	291	240	149	47	6	0	0	0	0	4666 ?
26	0	0	0	0	1	32	119	334	506 ?	488	431	576	535	532	374	217	122	50	28	1	0	0	0	0	4345
27	0	0	0	0	3	49	163	365	?	463 ?	502 ?	484	442	337	325	272	159	99	46	1	0	0	0	0	3710 ?
28	0	0	0	0	2	39	177	369	?	?	634 ?	558	355	361	359	355	222	127	45	3	0	0	0	0	3606 ?
29	0	0	0	0	2	42	188	349 ?	?	?	?	560	361	290	215	214	191	138	51	5	0	0	0	0	2606 ?
30	0	0	0	0	1	45	183 ?	?	?	?	361 ?	324	268	240	200	178	122	88	39	3	0	0	0	0	2053 ?
Avg	0	0	0	0	2	45	167	314	416	468	456	426	305	278	240	193	151	99	37	2	0	0	0	0	2790 ?
S D	0	0	0	0	1	14	40	66	84	145	155	143	114	105	80	65	50	30	12	2	0	0	0	0	819
S/A	0	0	0	0	0.61	0.3	0.24	0.21	0.2	0.31	0.34	0.34	0.37	0.38	0.33	0.34	0.33	0.3	0.31	0.92	0	0	0	0	0.29
Min	0	0	0	0	0	12	67	161	313	79	131	151	115	96	88	81	72	38	4	0	0	0	0	0	1233
Max	0	0	0	0	6	63	225	393	555	630	650	667	535	532	374	355	255	150	62	9	0	0	0	0	4666
n	0	0	0	0	46	350	250	146	71	115	190	332	360	360	359	360	357	348	357	48	0	0	0	0	4060

Daylight Data Recovery: 0.0% missing; 21.1% exceed the 15% QC threshold -- 5144 total daylight measurements.

Instrument: Eppley PSP Serial Number: 18039F3 Calibration Factor: 7.470 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.