

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

**May 2001**

**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	16	94	221	461	588	688	838	650	768	752	511	276	132	27	0	0	0	0	0	6023	
2	0	0	0	0	0	27	159	365	574	749	795	880	934	887	753	584	305	147	27	0	0	0	0	0	7185	
3	0	0	0	0	0	30	170	380	590	734	854	829	454	424	463	470	311	131	28	0	0	0	0	0	5869	
4	0	0	0	0	0	41	124	306	522	490	762	622	662	596	447	280	279	133	11	0	0	0	0	0	5277	
5	0	0	0	0	0	16	74	252	376	273	264	165	145	260	270	292	199	107	41	0	0	0	0	0	2734	
6	0	0	0	0	0	11	50	173	162	431	798	974	607	853	767	598	384	163	12	0	0	0	0	0	5984	
7	0	0	0	0	0	30	167	209	325	576	719	564	402	331	82	66	128	171	21	0	0	0	0	0	3789	
8	0	0	0	0	0	15	77	75	142	203	366	264	271	584	770	579	374	148	24	0	0	0	0	0	3893	
9	0	0	0	0	0	30	134	267	485	774	760	524	1010	863	776	649	400	137	33	0	0	0	0	0	6843	
10	0	0	0	0	0	34	175	372	566	667	741	733	854	738	638	529	343	116	32	0	0	0	0	0	6539	
11	0	0	0	0	0	37	187	398	603	687	820	890	802	652	543	597	353	151	26	0	0	0	0	0	6745	
12	0	0	0	0	0	29	190	360	567	681	764	851	638	734	662	584	377	168	33	0	0	0	0	0	6637	
13	0	0	0	0	0	39	203	414	617	784	903	963	966	894	765	583	389	150	40	0	0	0	0	0	7709	
14	0	0	0	0	0	40	202	412	615	783	897	955	957	887	754	587	385	170	26	0	0	0	0	0	7668	
15	0	0	0	0	0	41	181	417	621	790	906	966	960	896	763	572	307	144	36	0	0	0	0	0	7599	
16	0	0	0	0	0	39	207	430	639	805	925	984	982	908	734	607	400	182	39	0	0	0	0	0	7880	
17	0	0	0	0	0	39	203	415	620	765	799	923	893	888	708	621	389	179	40	0	0	0	0	0	7482	
18	0	0	0	0	0	42	204	402	588	737	706	855	810	749	747	563	385	138	40	0	0	0	0	0	6968	
19	0	0	0	0	1	32	208	397	513	704	863	931	953	854	702	467	320	136	22	0	0	0	0	0	7104	
20	0	0	0	0	0	21	203	381	572	761	661	740	734	578	644	579	378	155	29	0	0	0	0	0	6436	
21	0	0	0	0	0	2	98	93	326	788	908	673	1011	743	733	535	184	67	6	0	0	0	0	0	6167	
22	0	0	0	0	0	50	233	453	663	832	904	1012	965	678	756	616	419	196	41	0	0	0	0	0	7820	
23	0	0	0	0	0	49	224	439	643	815	934	993	990	918	782	619	398	193	42	0	0	0	0	0	8038	
24	0	0	0	0	0	14	39	159	603	800	843	786	645	570	556	523	402	191	46	0	0	0	0	0	6177	
25	0	0	0	0	0	52	227	447	651	827	941	1010	1010	939	809	630	424	198	38	0	0	0	0	0	8201	
26	0	0	0	0	1	52	213	438	639	797	934	980	842	914	766	554	364	199	44	0	0	0	0	0	7736	
27	0	0	0	0	5	28	158	250	448	626	546	644	215	201	660	262	37	34	37	0	0	0	0	0	4151	
28	0	0	0	0	0	17	48	87	154	287	236	239	503	649	726	420	152	50	6	0	0	0	0	0	3572	
29	0	0	0	0	1	31	83	203	311	608	770	815	917	914	617	526	283	159	24	0	0	0	0	0	6262	
30	0	0	0	0	2	41	70	345	463	391	373	612	758	440	622	278	325	190	48	0	0	0	0	0	4956	
31	0	0	0	0	0	16	28	76	70	210	364	456	763	385	295	290	131	126	21	0	0	0	0	0	3233	
Avg	0	0	0	0	0	31	149	311	488	644	734	764	752	700	647	502	316	147	30	0	0	0	0	0	6215	
S/D	0	0	0	0	1	13	64	124	171	193	207	237	249	215	173	142	100	41	11	0	0	0	0	0	1553	
S/A	0	0	0	0	2.83	0.42	0.43	0.4	0.35	0.3	0.28	0.31	0.33	0.31	0.27	0.28	0.32	0.28	0.38	0	0	0	0	0	0.25	
Min	0	0	0	0	0	2	28	75	70	203	236	165	145	201	82	66	37	34	6	0	0	0	0	0	2734	
Max	0	0	0	0	5	52	233	453	663	832	941	1012	1011	939	809	649	424	199	48	0	0	0	0	0	8201	
n	0	0	0	0	16	356	371	370	371	372	371	372	372	372	372	372	372	372	368	318	0	0	0	0	0	5145

Daylight Data Recovery: 0.0% missing; 0.2% exceed the 15% QC threshold -- 5154 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.

May 2001

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	*
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	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	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	*
31	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	*
Avg	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	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	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	N/A	N/A	0	0	0	0	0	N/A
Max	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	N/A	N/A	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: 98.5% missing; 1.3% exceed the 15% QC threshold -- 5154 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25796E6 Calibration Factor: 8.670 μV/W/m<sup>2</sup> 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**

**May 2001**

**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	14	81	190	355	379	403	473	475	423	331	247	163	98	25	0	0	0	0	0	3658
2	0	0	0	0	0	24	89	131	156	177	233	269	183	200	177	149	106	71	20	0	0	0	0	0	1986
3	0	0	0	0	0	24	80	112	134	186	173	304	279	294	276	229	148	71	24	0	0	0	0	0	2335
4	0	0	0	0	0	37	106	238	262	356	359	277	346	324	338	242	212	97	10	0	0	0	0	0	3203
5	0	0	0	0	0	14	65	210	293	239	237	145	128	226	239	252	182	92	35	0	0	0	0	0	2358
6	0	0	0	0	0	10	44	150	143	333	378	207	529	358	207	117	91	67	10	0	0	0	0	0	2644
7	0	0	0	0	0	24	116	161	254	368	447	489	352	296	73	58	111	148	18	0	0	0	0	0	2914
8	0	0	0	0	0	12	67	65	124	179	327	231	240	409	185	113	89	65	20	0	0	0	0	0	2127
9	0	0	0	0	0	24	103	193	269	233	248	276	259	242	159	214	186	89	29	0	0	0	0	0	2524
10	0	0	0	0	0	30	106	175	248	269	338	314	335	309	268	197	166	72	29	0	0	0	0	0	2856
11	0	0	0	0	0	29	90	127	148	209	285	285	301	252	222	170	120	82	20	0	0	0	0	0	2343
12	0	0	0	0	0	27	119	152	227	256	278	300	326	319	256	177	130	83	26	0	0	0	0	0	2674
13	0	0	0	0	0	26	72	98	115	128	131	131	128	121	111	100	94	72	33	0	0	0	0	0	1360
14	0	0	0	0	0	27	71	89	101	108	113	118	118	117	112	102	85	63	17	0	0	0	0	0	1242
15	0	0	0	0	0	27	70	97	111	119	126	131	140	168	147	142	145	85	28	0	0	0	0	0	1537
16	0	0	0	0	0	28	80	99	109	122	126	126	134	146	128	101	87	65	25	0	0	0	0	0	1376
17	0	0	0	0	0	28	85	116	134	200	284	194	196	215	214	180	108	80	29	0	0	0	0	0	2063
18	0	0	0	0	0	30	87	132	175	236	334	323	391	379	273	201	139	112	35	0	0	0	0	0	2847
19	0	0	0	0	1	26	89	164	261	340	263	197	199	206	218	226	192	116	19	0	0	0	0	0	2517
20	0	0	0	0	0	17	103	176	228	308	386	388	393	310	318	204	197	115	27	0	0	0	0	0	3173
21	0	0	0	0	0	2	72	83	223	158	207	444	375	270	225	188	157	60	5	0	0	0	0	0	2468
22	0	0	0	0	0	28	66	79	87	93	110	118	135	215	194	138	82	63	25	0	0	0	0	0	1432
23	0	0	0	0	0	29	71	90	99	107	113	109	101	98	110	105	90	67	29	0	0	0	0	0	1217
24	0	0	0	0	0	12	34	138	132	141	200	322	414	417	315	210	156	117	31	0	0	0	0	0	2638
25	0	0	0	0	0	30	66	79	85	91	101	95	94	93	85	77	71	57	21	0	0	0	0	0	1046
26	0	0	0	0	1	38	88	97	104	129	130	198	327	173	169	159	142	84	27	0	0	0	0	0	1867
27	0	0	0	0	4	24	128	212	374	460	463	456	175	158	292	194	32	31	32	0	0	0	0	0	3035
28	0	0	0	0	0	15	42	76	135	250	206	209	391	397	292	275	136	44	5	0	0	0	0	0	2471
29	0	0	0	0	1	27	73	178	278	440	451	456	319	212	185	211	206	131	22	0	0	0	0	0	3189
30	0	0	0	0	2	36	62	314	384	345	333	447	522	323	453	223	178	115	44	0	0	0	0	0	3781
31	0	0	0	0	0	14	25	66	61	185	324	400	511	344	266	243	117	112	19	0	0	0	0	0	2688
Avg	0	0	0	0	0	24	79	138	187	230	261	272	284	259	221	176	133	85	24	0	0	0	0	0	2373
S D	0	0	0	0	1	8	24	58	91	106	112	124	133	98	86	58	45	27	9	0	0	0	0	0	725
S/A	0	0	0	0	2.9	0.36	0.3	0.42	0.48	0.46	0.43	0.46	0.47	0.38	0.39	0.33	0.34	0.31	0.37	0	0	0	0	0	0.31
Min	0	0	0	0	0	2	25	65	61	91	101	95	94	93	73	58	32	31	5	0	0	0	0	0	1046
Max	0	0	0	0	4	38	128	314	384	460	463	489	529	423	453	275	212	148	44	0	0	0	0	0	3781
n	0	0	0	0	16	356	372	370	371	372	371	372	372	372	372	372	372	368	318	0	0	0	0	0	5146

Daylight Data Recovery: 0.0% missing; 0.2% exceed the 15% QC threshold -- 5154 total daylight measurements.

Instrument: Eppley PSP    Serial Number: 18039F3    Calibration Factor: 7.470 μV/W/m<sup>2</sup>    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.