

**Global Solar Radiation on a Horizontal Surface  
Hourly Integrated and Daily Totals  
Watt-Hours per Square Meter  
Mississippi Valley State Unive - February 1998**

Field: GHI

Hour 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	32	72	36	124	128	38	28	20	24	12	1	0	0	0	0	0	0	513
2	0	0	0	0	0	0	0	28	94	129	165	127	91	92	70	71	23	5	0	0	0	0	0	0	896
3	0	0	0	0	0	0	0	43	134	255	385	568	600	498	476	223	151	7	0	0	0	0	0	0	3338
4	0	0	0	0	0	0	0	66	248	440	586	679	698	645	523	345	150	13	0	0	0	0	0	0	4393
5	0	0	0	0	0	0	1	67	231	432	409	644	607	487	256	112	63	5	0	0	0	0	0	0	3312
6	0	0	0	0	0	0	0	52	156	248	404	490	466	325	191	247	132	16	0	0	0	0	0	0	2726
7	0	0	0	0	0	0	0	73	206	332	572	509	319	323	184	97	70	6	0	0	0	0	0	0	2691
8	0	0	0	0	0	0	0	29	195	165	191	274	533	596	420	238	45	9	0	0	0	0	0	0	2693
9	0	0	0	0	0	0	1	106	225	411	492	650	642	627	344	328	106	17	0	0	0	0	0	0	3947
10	0	0	0	0	0	0	0	18	100	305	557	609	500	422	303	119	47	4	0	0	0	0	0	0	2984
11	0	0	0	0	0	0	0	7	40	71	138	218	281	278	191	151	110	20	0	0	0	0	0	0	1505
12	0	0	0	0	0	0	1	79	272	468	618	703	662	480	230	147	79	14	0	0	0	0	0	0	3751
13	0	0	0	0	0	0	0	35	208	461	603	693	736	683	479	396	156	18	0	0	0	0	0	0	4470
14	0	0	0	0	0	0	1	70	201	459	528	580	703	656	454	321	111	13	0	0	0	0	0	0	4097
15	0	0	0	0	0	0	1	20	84	193	239	239	191	179	202	115	35	3	0	0	0	0	0	0	1500
16	0	0	0	0	0	0	0	8	39	69	129	262	219	153	91	94	110	4	0	0	0	0	0	0	1178
17	0	0	0	0	0	0	0	22	91	72	146	144	158	262	215	51	15	3	0	0	0	0	0	0	1177
18	0	0	0	0	0	0	3	95	291	487	643	735	755	692	565	389	194	27	0	0	0	0	0	0	4877
19	0	0	0	0	0	0	2	23	91	170	331	399	393	351	320	254	121	29	0	0	0	0	0	0	2484
20	0	0	0	0	0	0	5	101	308	493	642	733	762	666	288	287	106	31	0	0	0	0	0	0	4422
21	0	0	0	0	0	0	5	110	307	496	652	732	749	672	546	349	178	15	0	0	0	0	0	0	4812
22	0	0	0	0	0	0	0	10	19	13	27	40	69	100	83	31	23	3	0	0	0	0	0	0	418
23	0	0	0	0	0	0	6	115	310	507	668	746	768	687	602	410	205	34	0	0	0	0	0	0	5056
24	0	0	0	0	0	0	8	114	322	513	671	761	781	723	597	422	205	31	0	0	0	0	0	0	5147
25	0	0	0	0	0	0	7	107	291	488	638	695	721	558	529	350	133	20	0	0	0	0	0	0	4537
26	0	0	0	0	0	0	1	23	99	79	2	4	98	205	318	179	70	24	0	0	0	0	0	0	1101
27	0	0	0	0	0	0	9	137	348	539	681	632	484	602	453	301	145	40	0	0	0	0	0	0	4371
28	0	0	0	0	0	0	9	86	237	522	701	789	793	574	318	235	123	57	0	0	0	0	0	0	4445
Avg	0	0	0	0	0	0	2	60	186	316	427	492	493	449	331	224	104	17	0	0	0	0	0	0	3101
S D	0	0	0	0	0	0	3	39	98	180	227	249	253	214	169	123	57	13	0	0	0	0	0	0	1503
S/A	0	0	0	0	0	0	1.35	0.65	0.53	0.57	0.53	0.51	0.51	0.48	0.51	0.55	0.55	0.8	0	0	0	0	0	0	0.48
Min	0	0	0	0	0	0	0	7	19	13	2	4	38	28	20	24	12	1	0	0	0	0	0	0	418
Max	0	0	0	0	0	0	9	137	348	539	701	789	793	723	602	422	205	57	0	0	0	0	0	0	5147

Daylight Data Recovery: 0% missing; 17% exceed the 15% QC threshold -- 60861 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station: MV  
Latitude: 33.50° N  
Longitude: 90.33° W  
Elevation: 52 Meters AMSL  
Time Zone: -6

Instrument: PSP  
Calibration Constant: 8.50 uV/Wm-2  
Serial Number: 18038F3  
Calibration Date: 9/13/96

**Direct Normal Solar Radiation  
Hourly Integrated and Daily Totals  
Watt-Hours per Square Meter  
Mississippi Valley State Unive - February 1998**

Field: DNI

Hour 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	2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	2
2	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1
3	0	0	0	0	0	0	0	0	4	117	124	382	449	412	642	159	412	1	0	0	0	0	0	0	2702
4	0	0	0	0	0	0	0	377	690	804	854	897	903	883	840	741	583	122	0	0	0	0	0	0	7696
5	0	0	0	0	0	0	0	248	560	687	51	574	409	288	80	1	0	10	0	0	0	0	0	0	2908
6	0	0	0	0	0	0	0	3	8	11	35	170	56	46	3	173	235	58	0	0	0	0	0	0	797
7	0	0	0	0	0	0	0	239	125	140	691	345	67	43	0	0	0	0	0	0	0	0	0	0	1649
8	0	0	0	0	0	0	0	0	171	2	1	1	182	595	309	190	0	2	0	0	0	0	0	0	1452
9	0	0	0	0	0	0	4	298	400	443	457	735	680	747	211	493	98	50	0	0	0	0	0	0	4618
10	0	0	0	0	0	0	0	0	0	37	557	542	184	91	53	1	0	0	0	0	0	0	0	0	1466
11	0	0	0	0	0	0	0	0	0	0	0	1	6	21	13	27	120	132	0	0	0	0	0	0	320
12	0	0	0	0	0	0	2	354	653	770	836	850	622	232	0	0	3	0	0	0	0	0	0	0	4322
13	0	0	0	0	0	0	0	0	145	727	778	814	798	740	488	649	428	116	0	0	0	0	0	0	5684
14	0	0	0	0	0	0	1	49	66	549	520	456	703	760	533	487	95	0	0	0	0	0	0	0	4220
15	0	0	0	0	0	0	0	0	0	3	2	1	1	0	0	0	0	0	0	0	0	0	0	0	7
16	0	0	0	0	0	0	0	0	0	1	1	7	2	0	0	1	69	0	0	0	0	0	0	0	81
17	0	0	0	0	0	0	0	0	1	0	1	0	0	1	0	0	0	0	0	0	0	0	0	0	3
18	0	0	0	0	0	0	13	322	606	730	795	830	834	788	749	669	511	145	0	0	0	0	0	0	6994
19	0	0	0	0	0	0	1	0	1	3	36	48	46	19	31	14	35	119	0	0	0	0	0	0	355
20	0	0	0	0	0	0	26	396	617	743	779	802	828	678	165	289	92	119	0	0	0	0	0	0	5535
21	0	0	0	0	0	0	43	468	699	808	848	838	821	681	557	412	285	10	0	0	0	0	0	0	6469
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	36	415	612	712	807	812	791	766	796	685	581	215	0	0	0	0	0	0	7225
24	0	0	0	0	0	0	53	486	710	799	844	864	865	845	810	742	578	186	0	0	0	0	0	0	7780
25	0	0	0	0	0	0	16	80	288	514	645	596	585	308	452	327	66	0	0	0	0	0	0	0	3877
26	0	0	0	0	0	0	0	0	1	0	0	?	0	1	3	81	56	0	0	0	0	0	0	0	143
27	0	0	0	0	0	0	89	549	740	820	812	406	105	341	171	264	253	239	0	0	0	0	0	0	4789
28	0	0	0	0	0	0	87	147	120	604	852	834	791	360	68	70	81	196	0	0	0	0	0	0	4209
Avg	0	0	0	0	0	0	13	158	258	358	405	422	383	345	252	230	162	61	0	0	0	0	0	0	3047
S D	0	0	0	0	0	0	25	188	289	347	371	355	356	327	296	265	203	78	0	0	0	0	0	0	2692
S/A	0	0	0	0	0	0	1.9	1.19	1.12	0.97	0.92	0.84	0.93	0.95	1.17	1.15	1.26	1.27	0	0	0	0	0	0	0.88
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	0	89	549	740	820	854	897	903	883	840	742	583	239	0	0	0	0	0	0	7780

Daylight Data Recovery: 0% missing; 18% exceed the 15% QC threshold -- 60861 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station: MV  
Latitude: 33.50° N  
Longitude: 90.33° W  
Elevation: 52 Meters AMSL  
Time Zone: -6

Instrument: NIP  
Calibration Constant: 7.46 uV/Wm-2  
Serial Number: 25792E6  
Calibration Date: 9/13/96

**Diffuse Solar Radiation on a Horizontal Surface**  
**Hourly Integrated and Daily Totals**  
**Watt-Hours per Square Meter**  
**Mississippi Valley State Unive - February 1998**

Field: DHI

Hour 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	29	67	34	116	120	35	26	18	22	11	1	0	0	0	0	0	0	480
2	0	0	0	0	0	0	0	26	88	121	155	119	85	85	65	67	21	5	0	0	0	0	0	0	836
3	0	0	0	0	0	0	0	40	123	186	289	286	262	222	118	157	69	6	0	0	0	0	0	0	1758
4	0	0	0	0	0	0	0	24	50	63	71	68	68	69	64	63	38	6	0	0	0	0	0	0	586
5	0	0	0	0	0	0	0	35	62	106	344	219	290	275	197	103	59	4	0	0	0	0	0	0	1694
6	0	0	0	0	0	0	0	48	145	230	357	336	407	285	181	173	91	12	0	0	0	0	0	0	2264
7	0	0	0	0	0	0	0	35	172	240	139	259	265	275	170	90	65	6	0	0	0	0	0	0	1716
8	0	0	0	0	0	0	0	27	132	153	178	255	360	188	237	154	41	8	0	0	0	0	0	0	1734
9	0	0	0	0	0	0	1	57	89	185	190	130	139	117	201	133	77	14	0	0	0	0	0	0	1334
10	0	0	0	0	0	0	0	17	93	272	191	212	349	356	261	109	43	4	0	0	0	0	0	0	1908
11	0	0	0	0	0	0	0	6	37	66	128	201	261	256	170	133	87	12	0	0	0	0	0	0	1358
12	0	0	0	0	0	0	1	33	64	79	82	87	187	295	211	136	74	13	0	0	0	0	0	0	1261
13	0	0	0	0	0	0	0	32	149	93	99	100	137	162	183	121	57	11	0	0	0	0	0	0	1142
14	0	0	0	0	0	0	1	56	173	144	173	226	164	117	123	106	82	12	0	0	0	0	0	0	1377
15	0	0	0	0	0	0	1	19	78	177	221	223	179	168	188	107	32	2	0	0	0	0	0	0	1396
16	0	0	0	0	0	0	0	8	36	64	120	244	202	143	85	88	93	4	0	0	0	0	0	0	1087
17	0	0	0	0	0	0	0	21	84	67	135	134	148	241	198	48	14	3	0	0	0	0	0	0	1093
18	0	0	0	0	0	0	2	48	82	98	106	107	108	119	108	95	83	24	0	0	0	0	0	0	982
19	0	0	0	0	0	0	2	21	85	157	307	366	349	322	293	237	110	28	0	0	0	0	0	0	2277
20	0	0	0	0	0	0	3	45	81	92	111	121	110	161	169	152	75	21	0	0	0	0	0	0	1141
21	0	0	0	0	0	0	3	36	56	62	70	84	94	152	179	147	105	13	0	0	0	0	0	0	1002
22	0	0	0	0	0	0	0	9	17	12	25	37	63	92	76	29	21	3	0	0	0	0	0	0	384
23	0	0	0	0	0	0	4	45	81	107	102	108	130	108	97	85	54	16	0	0	0	0	0	0	938
24	0	0	0	0	0	0	4	39	59	68	77	82	84	84	79	70	51	14	0	0	0	0	0	0	711
25	0	0	0	0	0	0	7	90	169	182	170	202	229	300	231	180	112	18	0	0	0	0	0	0	1890
26	0	0	0	0	0	0	1	21	90	72	2	3	88	185	256	137	64	22	0	0	0	0	0	0	942
27	0	0	0	0	0	0	6	37	55	64	83	254	375	298	313	165	77	18	0	0	0	0	0	0	1746
28	0	0	0	0	0	0	6	58	165	149	80	107	124	272	263	189	102	41	0	0	0	0	0	0	1556
Avg	0	0	0	0	0	0	2	34	92	119	147	168	189	192	169	118	65	12	0	0	0	0	0	0	1307
S D	0	0	0	0	0	0	2	18	43	64	88	89	106	89	75	49	29	9	0	0	0	0	0	0	492
S/A	0	0	0	0	0	0	1.3	0.51	0.47	0.54	0.6	0.53	0.56	0.46	0.44	0.42	0.44	0.74	0	0	0	0	0	0	0.38
Min	0	0	0	0	0	0	0	6	17	12	2	3	35	26	18	22	11	1	0	0	0	0	0	0	384
Max	0	0	0	0	0	0	7	90	173	272	357	366	407	356	313	237	112	41	0	0	0	0	0	0	2277

Daylight Data Recovery: 0% missing; 18% exceed the 15% QC threshold -- 60861 total daylight 5-minute measurements.

Note: Fractional values that do not appear in the hour columns are included in the calculation for daily values.

Data and Flag	Hour Column	Day Column
<value>*	20% < Missing < 100%	10% < Missing < 100%
<value>?	20% < Fail QC < 100%	10% < Fail QC < 100%
<blank>*	100% Missing	100% Missing
<blank>?	100% Fail QC	100% Fail QC

Station: MV  
Latitude: 33.50° N  
Longitude: 90.33° W  
Elevation: 52 Meters AMSL  
Time Zone: -6

Instrument: PSP  
Calibration Constant: 9.04 uV/Wm-2  
Serial Number: 25818F3  
Calibration Date: 9/13/96