

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - January 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	37	114 ?	?	?	?	?	?	?	140 ?	53	0	0	0	0	0	0	0	344 ?
2	0	0	0	0	0	0	0	16	96	212	293	407	377 ?	365	279	114	45	0	0	0	0	0	0	0	2205
3	0	0	0	0	0	0	0	28	99	194	237	312	306	362 ?	?	176 ?	37	0	0	0	0	0	0	0	1752
4	0	0	0	0	0	0	0	22	149	245 ?	420 ?	?	251	196	215	100	26	0	0	0	0	0	0	0	1623 ?
5	0	0	0	0	0	0	0	8	70	61	160	110	265	99	71	112	39	0	0	0	0	0	0	0	995
6	0	0	0	0	0	0	0	2	12	15	78	90	63	47	18	15	12	0	0	0	0	0	0	0	352
7	0	0	0	0	0	0	0	3	23	62	79	88	81	30	19	34	7	0	0	0	0	0	0	0	426
8	0	0	0	0	0	0	0	15	51	83	137	151	87	93	76	102	14	0	0	0	0	0	0	0	810
9	0	0	0	0	0	0	0	43	120 ?	180 ?	229	243	185	171	116	78	27	0	0	0	0	0	0	0	1391
10	0	0	0	0	0	0	0	43	122 ?	425 ?	265 ?	152	83	155	166	31	12	1	0	0	0	0	0	0	1456
11	0	0	0	0	0	0	0	22	35	41	78 ?	?	325 ?	260	145	179	55	0	0	0	0	0	0	0	1141
12	0	0	0	0	0	0	0	35	112 ?	?	?	323 ?	270	167	121	60	12	0	0	0	0	0	0	0	1101 ?
13	0	0	0	0	0	0	0	14	54	61	66	97	99	71	71	53	11	0	0	0	0	0	0	0	598
14	0	0	0	0	0	0	0	14	154	225 ?	245	343 ?	400	121	80	94	41	3	0	0	0	0	0	0	1720
15	0	0	0	0	0	0	0	8	30	67	111	79	44	18	16	11	3	0	0	0	0	0	0	0	386
16	0	0	0	0	0	0	0	18	98	225 ?	291 ?	330 ?	?	?	?	169 ?	48	0	0	0	0	0	0	0	1178 ?
17	0	0	0	0	0	0	0	15	104 ?	?	?	?	?	?	?	185 ?	80	1	0	0	0	0	0	0	384 ?
18	0	0	0	0	0	0	0	35	136	58	66	56	169	43	32	18	8	1	0	0	0	0	0	0	621
19	0	0	0	0	0	0	0	11	43	92	187	283	400 ?	366 ?	?	184 ?	90	2	0	0	0	0	0	0	1657 ?
20	0	0	0	0	0	0	0	68	?	?	?	?	?	?	?	225	60	3	0	0	0	0	0	0	355 ?
21	0	0	0	0	0	0	0	5	21	51	124	83	158	49	67	55	8	0	0	0	0	0	0	0	621
22	0	0	0	0	0	0	0	10	36	37	52	113	84	109	58	17	9	0	0	0	0	0	0	0	525
23	0	0	0	0	0	0	0	8	37	73	125	165	199	151	118	71	40	2	0	0	0	0	0	0	987
24	0	0	0	0	0	0	0	40	172	243 ?	439 ?	350 ?	?	?	277 ?	225 ?	102	4	0	0	0	0	0	0	1852 ?
25	0	0	0	0	0	0	0	42	180	272 ?	?	?	419 ?	393 ?	342 ?	174	69	3	0	0	0	0	0	0	1895 ?
26	0	0	0	0	0	0	0	9	29	38	82	57	36	65	55	40	19	1	0	0	0	0	0	0	431
27	0	0	0	0	0	0	0	38	136	256 ?	?	?	?	?	?	265 ?	79 ?	5	0	0	0	0	0	0	780 ?
28	0	0	0	0	0	0	0	46	116 ?	?	?	?	?	?	445 ?	378 ?	73 ?	7	0	0	0	0	0	0	1063 ?
29	0	0	0	0	0	0	0	44	189	283	468	519	549	523	396	239	118	5	0	0	0	0	0	0	3332
30	0	0	0	0	0	0	0	57	220	403	543	628	645	597	480	312	126	7	0	0	0	0	0	0	4017
31	0	0	0	0	0	0	0	57	231	418	563	656	673	618	489	237	90	6	0	0	0	0	0	0	4039
Avg	0	0	0	0	0	0	0	26	100	166	222	245	257	211	173	132	46	2	0	0	0	0	0	0	1292
S/D	0	0	0	0	0	0	0	18	61	124	156	176	183	179	151	94	35	2	0	0	0	0	0	0	982
S/A	0	0	0	0	0	0	5.48	0.68	0.61	0.75	0.7	0.72	0.71	0.85	0.87	0.71	0.76	1.31	0	0	0	0	0	0	0.76
Min	0	0	0	0	0	0	0	2	12	15	52	56	36	18	16	11	3	0	0	0	0	0	0	0	344
Max	0	0	0	0	0	0	0	68	231	425	563	656	673	618	489	378	126	7	0	0	0	0	0	0	4039

Daylight Data Recovery: 0% missing; 19% exceed the 15% QC threshold -- 57176 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 - January 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	157	337 ?	?	?	?	?	?	?	428 ?	258	0	0	0	0	0	0	0	1179 ?
2	0	0	0	0	0	0	0	0	1	6	9	40	24 ?	41	45	1	32	0	0	0	0	0	0	0	200
3	0	0	0	0	0	0	0	0	1	3	4	10	15	42 ?	?	285 ?	49	0	0	0	0	0	0	0	410
4	0	0	0	0	0	0	0	1	36	86 ?	86 ?	?	24	19	24	7	0	0	0	0	0	0	0	0	283 ?
5	0	0	0	0	0	0	0	0	4	1	4	0	10	0	0	9	4	0	0	0	0	0	0	0	35
6	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
7	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	1
8	0	0	0	0	0	0	0	0	0	0	1	1	0	0	0	0	0	0	0	0	0	0	0	0	2
9	0	0	0	0	0	0	0	118	286 ?	81 ?	15	2	0	0	0	0	0	0	0	0	0	0	0	0	502
10	0	0	0	0	0	0	0	100	244 ?	196 ?	17 ?	0	0	2	2	0	0	0	0	0	0	0	0	0	562
11	0	0	0	0	0	0	0	1	11	0	3 ?	?	84 ?	52	4	52	31	0	0	0	0	0	0	0	237
12	0	0	0	0	0	0	0	86	287 ?	?	?	45 ?	5	0	0	0	0	0	0	0	0	0	0	0	423 ?
13	0	0	0	0	0	0	0	0	0	3	0	0	0	0	0	0	0	0	0	0	0	0	0	0	4
14	0	0	0	0	0	0	0	0	27	33 ?	5	52 ?	32	0	0	0	1	0	0	0	0	0	0	0	149
15	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
16	0	0	0	0	0	0	0	0	0	0	65 ?	56 ?	88 ?	?	?	?	420 ?	110	1	0	0	0	0	0	740 ?
17	0	0	0	0	0	0	0	2	70 ?	?	?	?	?	?	?	?	478 ?	331	16	0	0	0	0	0	898 ?
18	0	0	0	0	0	0	0	90	95	0	0	0	2	0	0	0	0	0	0	0	0	0	0	0	187
19	0	0	0	0	0	0	0	0	0	0	0	1	62 ?	18 ?	?	448 ?	327	21	0	0	0	0	0	0	878 ?
20	0	0	0	0	0	0	0	194	?	?	?	?	?	?	?	227	11	6	0	0	0	0	0	0	438 ?
21	0	0	0	0	0	0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0	0	0	0	3
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	1
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	66	206	116 ?	141 ?	66 ?	?	?	175 ?	287 ?	276	24	0	0	0	0	0	0	1357 ?
25	0	0	0	0	0	0	0	57	138	153 ?	?	?	173 ?	123 ?	157 ?	40	9	0	0	0	0	0	0	0	851 ?
26	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
27	0	0	0	0	0	0	0	10	10	82 ?	?	?	?	?	?	417 ?	225 ?	30	0	0	0	0	0	0	774 ?
28	0	0	0	0	0	0	0	62	340 ?	?	?	?	?	?	472 ?	409 ?	225 ?	18	0	0	0	0	0	0	1528 ?
29	0	0	0	0	0	0	0	15	71	123	333	398	498	576	362	363	386	30	0	0	0	0	0	0	3154
30	0	0	0	0	0	0	0	356	676	770	824	852	855	849	807	745	562	97	0	0	0	0	0	0	7392
31	0	0	0	0	0	0	0	394	711	825	881	916	918	897	817	398	59	0	0	0	0	0	0	0	6817
Avg	0	0	0	0	0	0	0	55	118	98	99	107	113	109	119	162	93	8	0	0	0	0	0	0	936
S/D	0	0	0	0	0	0	0	99	190	210	238	253	255	258	241	211	148	19	0	0	0	0	0	0	1744
S/A	0	0	0	0	0	0	0	1.79	1.6	2.14	2.4	2.36	2.26	2.36	2.01	1.31	1.58	2.39	0	0	0	0	0	0	1.86
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	0	394	711	825	881	916	918	897	817	745	562	97	0	0	0	0	0	0	7392

Daylight Data Recovery: 0% missing; 19% exceed the 15% QC threshold -- 57176 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 - January 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	14	27 ?	?	?	?	?	?	?	27 ?	14	0	0	0	0	0	0	0	82 ?
2	0	0	0	0	0	0	0	15	90	200	277	343	335 ?	314	237	106	40	0	0	0	0	0	0	0	1958
3	0	0	0	0	0	0	0	26	93	182	224	294	283	317 ?	?	74 ?	27	0	0	0	0	0	0	0	1520
4	0	0	0	0	0	0	0	20	132	186 ?	321 ?	?	216	175	191	93	24	0	0	0	0	0	0	0	1358 ?
5	0	0	0	0	0	0	0	7	67	57	152	105	249	94	68	105	37	0	0	0	0	0	0	0	940
6	0	0	0	0	0	0	0	3	12	15	74	85	61	44	17	14	11	0	0	0	0	0	0	0	337
7	0	0	0	0	0	0	0	3	22	60	75	84	78	28	18	33	6	0	0	0	0	0	0	0	407
8	0	0	0	0	0	0	0	15	48	79	131	145	84	90	72	98	14	0	0	0	0	0	0	0	774
9	0	0	0	0	0	0	0	17	40 ?	104 ?	207	229	175	163	110	74	26	0	0	0	0	0	0	0	1146
10	0	0	0	0	0	0	0	19	44 ?	264 ?	238 ?	143	79	147	159	30	12	1	0	0	0	0	0	0	1136
11	0	0	0	0	0	0	0	21	30	39	73 ?	?	228 ?	205	135	156	45	0	0	0	0	0	0	0	933
12	0	0	0	0	0	0	0	15	33 ?	?	?	261 ?	254	159	116	57	11	0	0	0	0	0	0	0	907 ?
13	0	0	0	0	0	0	0	14	51	58	64	93	95	68	68	51	11	0	0	0	0	0	0	0	572
14	0	0	0	0	0	0	0	13	136	192 ?	230	275 ?	358	115	76	90	38	2	0	0	0	0	0	0	1525
15	0	0	0	0	0	0	0	8	29	64	107	76	43	17	15	10	3	0	0	0	0	0	0	0	372
16	0	0	0	0	0	0	0	16	91	178 ?	230 ?	231 ?	?	?	?	40 ?	20	0	0	0	0	0	0	0	807 ?
17	0	0	0	0	0	0	0	14	79 ?	?	?	?	?	?	?	34 ?	21	1	0	0	0	0	0	0	149 ?
18	0	0	0	0	0	0	0	23	99	56	63	53	159	40	30	17	7	1	0	0	0	0	0	0	547
19	0	0	0	0	0	0	0	10	41	88	179	268	333 ?	345 ?	?	43 ?	28	1	0	0	0	0	0	0	1337 ?
20	0	0	0	0	0	0	0	30	?	?	?	?	?	?	?	116	56	2	0	0	0	0	0	0	204 ?
21	0	0	0	0	0	0	0	5	20	49	118	79	149	47	64	53	8	0	0	0	0	0	0	0	590
22	0	0	0	0	0	0	0	9	35	35	50	108	80	104	56	16	8	0	0	0	0	0	0	0	501
23	0	0	0	0	0	0	0	8	35	70	120	158	191	144	113	68	38	1	0	0	0	0	0	0	948
24	0	0	0	0	0	0	0	32	102	164 ?	299 ?	281 ?	?	?	150 ?	101 ?	42	3	0	0	0	0	0	0	1174 ?
25	0	0	0	0	0	0	0	30	132	157 ?	?	?	247 ?	274 ?	215 ?	147	64	3	0	0	0	0	0	0	1271 ?
26	0	0	0	0	0	0	0	9	27	36	78	54	34	62	53	38	18	1	0	0	0	0	0	0	410
27	0	0	0	0	0	0	0	36	124	191 ?	?	?	?	?	?	124 ?	68 ?	6	0	0	0	0	0	0	549 ?
28	0	0	0	0	0	0	0	31	87 ?	?	?	?	?	?	204 ?	244 ?	71 ?	7	0	0	0	0	0	0	643 ?
29	0	0	0	0	0	0	0	42	164	204	255	231	192	143	190	100	50	4	0	0	0	0	0	0	1574
30	0	0	0	0	0	0	0	20	43	59	67	69	67	63	58	45	29	4	0	0	0	0	0	0	524
31	0	0	0	0	0	0	0	18	40	48	52	50	50	48	57	78	74	6	0	0	0	0	0	0	521
Avg	0	0	0	0	0	0	0	18	66	109	153	162	168	134	103	74	30	1	0	0	0	0	0	0	829
S/D	0	0	0	0	0	0	0	10	41	70	86	92	99	95	66	50	20	2	0	0	0	0	0	0	465
S/A	0	0	0	0	0	0	5.48	0.56	0.62	0.64	0.56	0.57	0.59	0.71	0.64	0.68	0.69	1.31	0	0	0	0	0	0	0.56
Min	0	0	0	0	0	0	0	3	12	15	50	50	34	17	15	10	3	0	0	0	0	0	0	0	82
Max	0	0	0	0	0	0	0	42	164	264	321	343	358	345	237	244	74	7	0	0	0	0	0	0	1958

Daylight Data Recovery: 0% missing; 20% exceed the 15% QC threshold -- 57176 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