

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - February 1999

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	15	72	117	193	213	153	124	82	74	57	4	0	0	0	0	0	0	1104		
2	0	0	0	0	0	0	0	65	205	269	275	341	408	?	256	284	165	81	8	0	0	0	0	0	2358		
3	0	0	0	0	0	0	0	74	242	400	?	?	?	?	402	?	259	51	3	0	0	0	0	0	1430		
4	0	0	0	0	0	0	0	72	248	396	?	?	?	?	?	326	?	143	11	0	0	0	0	0	1195		
5	0	0	0	0	0	0	0	75	249	395	?	?	?	?	?	381	?	299	125	8	0	0	0	0	1533		
6	0	0	0	0	0	0	0	28	82	140	181	152	248	193	120	181	126	12	0	0	0	0	0	0	1464		
7	0	0	0	0	0	0	1	64	229	326	?	453	?	551	?	553	?	465	?	330	142	11	0	0	3653		
8	0	0	0	0	0	0	1	73	120	170	390	381	?	600	?	539	?	410	?	262	133	7	0	0	3087		
9	0	0	0	0	0	0	0	40	180	?	150	219	214	256	322	308	138	117	13	0	0	0	0	0	1959		
10	0	0	0	0	0	0	0	31	64	115	263	?	416	349	287	261	261	144	12	0	0	0	0	0	2204		
11	0	0	0	0	0	0	1	49	211	?	326	?	410	?	292	405	286	350	259	93	15	0	0	0	2698		
12	0	0	0	0	0	0	1	60	?	?	?	?	?	?	?	?	390	?	177	20	0	0	0	0	647		
13	0	0	0	0	0	0	1	67	?	?	?	?	?	?	?	?	?	371	?	175	14	0	0	0	629		
14	0	0	0	0	0	0	2	68	?	?	484	?	632	?	?	711	?	676	?	537	?	332	?	175	?	3636	
15	0	0	0	0	0	0	3	64	?	?	?	434	?	?	?	?	?	?	87	?	14	0	0	0	601		
16	0	0	0	0	0	0	3	45	125	259	334	214	107	91	97	84	51	7	0	0	0	0	0	0	1418		
17	0	0	0	0	0	0	0	10	39	86	157	143	192	207	228	274	?	164	32	0	0	0	0	0	1531		
18	0	0	0	0	0	0	1	46	134	275	387	?	476	?	?	466	?	188	?	108	23	0	0	0	2104		
19	0	0	0	0	0	0	1	50	?	?	?	405	?	?	380	?	369	?	?	99	?	26	0	0	0	1329	
20	0	0	0	0	0	0	5	83	?	?	?	630	?	471	?	331	179	63	19	1	0	0	0	0	2195		
21	0	0	0	0	0	0	0	44	40	105	?	154	184	180	236	230	151	51	13	0	0	0	0	0	1389		
22	0	0	0	0	0	0	5	78	?	?	?	?	774	?	?	713	?	574	?	451	?	208	?	30	0	2833	
23	0	0	0	0	0	0	0	30	99	?	305	?	?	?	?	?	?	?	?	?	33	0	0	0	0	467	
24	0	0	0	0	0	0	7	83	?	?	532	?	666	?	752	?	766	?	708	?	587	?	441	?	260	?	4837
25	0	0	0	0	0	0	3	51	151	253	?	242	?	182	153	210	158	126	144	24	0	0	0	0	1698		
26	0	0	0	0	0	0	4	57	163	?	?	424	?	462	?	395	?	363	?	341	208	105	19	0	0	2541	
27	0	0	0	0	0	0	3	35	64	265	401	?	348	?	226	362	199	?	10	?	18	28	0	0	0	1959	
28	0	0	0	0	0	0	11	94	?	?	?	?	?	?	?	?	?	?	?	43	0	0	0	0	0	148	
Avg	0	0	0	0	0	0	2	55	143	268	363	364	361	359	317	235	117	17	0	0	0	0	0	0	1880		
S D	0	0	0	0	0	0	3	21	71	127	152	185	189	186	150	118	57	10	0	0	0	0	0	0	1055		
S/A	0	0	0	0	0	0	1.29	0.37	0.5	0.47	0.42	0.51	0.52	0.52	0.47	0.5	0.48	0.61	0	0	0	0	0	0	0.56		
Min	0	0	0	0	0	0	0	10	39	86	154	143	107	91	82	10	18	1	0	0	0	0	0	0	148		
Max	0	0	0	0	0	0	11	94	249	532	666	774	766	713	587	451	260	43	0	0	0	0	0	0	4837		

Daylight Data Recovery: 0% missing; 36% exceed the 15% QC threshold -- 3685 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
Note: Instrument was changed during month.

Direct Normal Solar Radiation
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - February 1999

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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
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	0	
3	0	0	0	0	0	0	0	0	0	0	?	?	?	?	0	?	0	0	0	0	0	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
5	0	0	0	0	0	0	0	0	0	?	?	?	?	?	0	?	0	0	0	0	0	0	0	0	0	0
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	0
7	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
9	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
10	0	0	0	0	0	0	0	0	0	0	?	0	?	0	0	0	0	0	0	0	0	0	0	0	0	0
11	0	0	0	0	0	0	0	0	0	?	0	?	0	0	0	0	0	0	0	0	0	0	0	0	0	0
12	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	0	?	0	0	0	0	0	0	0	0	0
13	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	0	?	0	0	0	0	0	0	0	0	0
14	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	0	?	0	0	0	0	0	0	0	0
15	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	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
17	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
18	0	0	0	0	0	0	0	0	0	0	?	0	?	?	0	?	0	?	0	0	0	0	0	0	0	0
19	0	0	0	0	0	0	0	0	?	?	?	0	?	?	0	?	?	0	?	0	0	0	0	0	0	0
20	0	0	0	0	0	0	0	0	?	?	?	?	0	?	0	0	0	0	0	0	0	0	0	0	0	0
21	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
22	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	0	?	0	0	0	0	0	0	0	0
23	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	0	?	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0
25	0	0	0	0	0	0	0	0	0	0	?	0	?	0	0	0	0	0	0	0	0	0	0	0	0	0
26	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	0	0	0	?	0	?	0	?	0	?	0	0	0	0	0	0	0	0	0
28	0	0	0	0	0	0	0	0	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	0	0	0
Avg	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 D	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	3.17	4.6	2.87	4.12	2.88	0	3.87	0	0	0	4.9	5.2	0	0	0	0	0	0	0	2.98
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	0
Max	0	0	0	0	0	0	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1

Daylight Data Recovery: 0% missing; 39% exceed the 15% QC threshold -- 3685 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
Note: Instrument was changed during month.

Diffuse Solar Radiation on a Horizontal Surface (Shadow Band PSP)
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - February 1999

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	67	109	180	198	143	116	77	69	53	4	0	0	0	0	0	0	1029	
2	0	0	0	0	0	0	0	62	196	253	255	291	380	236	233	143	77	8	0	0	0	0	0	0	2134	
3	0	0	0	0	0	0	0	67	?	353	?	?	?	?	328	?	218	?	48	3	0	0	0	0	1016	
4	0	0	0	0	0	0	0	67	175	?	?	?	?	?	?	?	125	12	0	0	0	0	0	0	379	
5	0	0	0	0	0	0	0	70	171	?	?	?	?	?	334	?	287	?	118	8	0	0	0	0	989	
6	0	0	0	0	0	0	0	26	77	131	169	142	229	179	112	169	116	11	0	0	0	0	0	0	1360	
7	0	0	0	0	0	0	0	60	216	283	?	409	?	471	?	475	?	139	11	0	0	0	0	0	2064	
8	0	0	0	0	0	0	1	68	110	159	339	323	?	543	?	460	?	340	?	245	122	7	0	0	2716	
9	0	0	0	0	0	0	0	37	150	?	138	207	199	242	305	283	126	109	11	0	0	0	0	0	1808	
10	0	0	0	0	0	0	0	30	60	108	244	?	393	326	266	235	242	137	11	0	0	0	0	0	2053	
11	0	0	0	0	0	0	1	43	185	?	263	?	378	?	267	390	268	333	249	88	15	0	0	0	2480	
12	0	0	0	0	0	0	1	30	?	?	?	?	?	?	?	?	?	136	?	19	0	0	0	0	186	
13	0	0	0	0	0	0	1	21	?	?	?	?	?	?	?	?	?	350	?	150	?	?	?	?	535	
14	0	0	0	0	0	0	1	20	?	?	70	?	58	?	?	65	?	67	?	97	?	116	?	76	?	580
15	0	0	0	0	0	0	2	46	?	?	?	338	?	?	?	?	?	45	?	9	0	0	0	0	440	
16	0	0	0	0	0	0	3	41	115	235	302	197	100	85	91	79	47	7	0	0	0	0	0	0	1301	
17	0	0	0	0	0	0	0	10	36	80	146	134	179	192	210	236	?	141	28	0	0	0	0	0	1391	
18	0	0	0	0	0	0	1	42	122	247	338	?	403	?	?	320	?	177	?	97	19	0	0	0	1765	
19	0	0	0	0	0	0	1	41	?	?	321	?	?	348	?	313	?	?	52	?	17	0	0	0	1093	
20	0	0	0	0	0	0	3	39	?	?	?	148	?	236	?	311	?	294	166	59	18	1	0	0	1275	
21	0	0	0	0	0	0	0	39	37	99	?	143	170	167	220	213	139	47	12	0	0	0	0	0	1288	
22	0	0	0	0	0	0	3	26	?	?	?	?	68	?	?	132	?	60	?	69	?	53	?	11	422	
23	0	0	0	0	0	0	0	27	90	?	248	?	?	?	?	?	?	?	?	?	14	0	0	0	0	380
24	0	0	0	0	0	0	4	32	?	?	78	?	82	?	85	81	?	75	?	66	?	57	?	46	?	619
25	0	0	0	0	0	0	3	47	140	219	?	221	?	168	143	197	148	118	127	23	0	0	0	0	1554	
26	0	0	0	0	0	0	4	53	148	?	?	341	?	409	?	354	?	322	?	310	187	97	17	0	0	2242
27	0	0	0	0	0	0	3	33	59	235	357	?	303	?	210	324	176	?	9	?	16	25	0	0	0	1751
28	0	0	0	0	0	0	5	27	?	?	?	?	?	?	?	?	?	?	?	?	15	0	0	0	0	48
Avg	0	0	0	0	0	0	1	40	120	184	249	248	260	225	207	159	88	13	0	0	0	0	0	0	1246	
S D	0	0	0	0	0	0	2	17	55	83	101	114	134	102	99	86	41	6	0	0	0	0	0	0	724	
S/A	0	0	0	0	0	0	1.07	0.42	0.46	0.45	0.41	0.46	0.52	0.45	0.48	0.54	0.46	0.5	0	0	0	0	0	0	0.58	
Min	0	0	0	0	0	0	0	10	36	70	58	68	65	67	60	9	16	1	0	0	0	0	0	0	48	
Max	0	0	0	0	0	0	5	70	216	353	409	471	543	460	340	350	150	28	0	0	0	0	0	0	2716	

Daylight Data Recovery: 0% missing; 40% exceed the 15% QC threshold -- 3685 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
Note: Instrument was changed during month.