

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - February 1997

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	28	93	275	397	374	505	507	465	307	125	7	0	0	0	0	0	0	3082
2	0	0	0	0	0	0	0	23	74	239	421	279	341	459	438	227	60	3	0	0	0	0	0	0	2565
3	0	0	0	0	0	0	0	36	80	116	230	286	360	365	166	85	18	2	0	0	0	0	0	0	1745
4	0	0	0	0	0	0	0	19	61	188	194	526	241	203	432	317	137	12	0	0	0	0	0	0	2331
5	0	0	0	0	0	0	0	41	192	381	618	599	678	454	389	258	132	11	0	0	0	0	0	0	3752
6	0	0	0	0	0	0	0	29	81	154	167	214	164	239	179	126	29	2	0	0	0	0	0	0	1384
7	0	0	0	0	0	0	0	48	136	140	156	46	42	67	24	16	12	3	0	0	0	0	0	0	692
8	0	0	0	0	0	0	0	12	60	140	113	155	175	129	107	66	23	1	0	0	0	0	0	0	980
9	0	0	0	0	0	0	0	8	39	63	108	152	127	131	119	86	30	3	0	0	0	0	0	0	864
10	0	0	0	0	0	0	0	21	143	228	414	499	463	228	207	174	57	6	0	0	0	0	0	0	2440
11	0	0	0	0	0	0	0	23	182	354	495	295	475	292	228	269	164	18	0	0	0	0	0	0	2795
12	0	0	0	0	0	0	0	45	63	63	87	125	121	76	53	33	16	1	0	0	0	0	0	0	683
13	0	0	0	0	0	0	0	1	22	65	107	161	149	234	85	40	26	3	0	0	0	0	0	0	892
14	0	0	0	0	0	0	1	17	30	70	172	200	163	145	84	101	73	24	0	0	0	0	0	0	1080
15	0	0	0	0	0	0	2	88	269	457 ?	677 ?	724	745	691	563	389	186	23	0	0	0	0	0	0	4813
16	0	0	0	0	0	0	2	89	279	467	622	715	736	684	565	391	191	27	0	0	0	0	0	0	4769
17	0	0	0	0	0	0	3	105	305	494	649	742	757	695	579	399	202	27	0	0	0	0	0	0	4955
18	0	0	0	0	0	0	3	127	277	425	607	737	736	686	473	404	153	24	0	0	0	0	0	0	4652
19	0	0	0	0	0	0	2	95	162	303	434	578	592	483	405	266	105	17	0	0	0	0	0	0	3443
20	0	0	0	0	0	0	3	61	211	282	387	634	686	633	324	85	49	24	0	0	0	0	0	0	3379
21	0	0	0	0	0	0	2	33	245	497	655	748	765	706	589	416	188	38	0	0	0	0	0	0	4882
22	0	0	0	0	0	0	3	119	264	342	505	731	810	756	611	426	214	35	0	0	0	0	0	0	4816
23	0	0	0	0	0	0	2	102	304	490	607	709	743	712	612	463 ?	85 ?	24	0	0	0	0	0	0	4853
24	0	0	0	0	0	0	1	42	228	293	538	770	738	559	360	239	132	28	0	0	0	0	0	0	3927
25	0	0	0	0	0	0	1	53	176	169	283	328	347	265	327	123	50	9	0	0	0	0	0	0	2131
26	0	0	0	0	0	0	1	22	70	145	237	253	300	573 ?	387 ?	351 ?	71	36	0	0	0	0	0	0	2447
27	0	0	0	0	0	0	5	34	105	287	421	589	487	410	416	254	122	23	0	0	0	0	0	0	3153
28	0	0	0	0	0	0	3	32	93	156	200	272	337	421	416	210	59	28	0	0	0	0	0	0	2227
Avg	0	0	0	0	0	0	1	48	152	260	375	444	457	421	343	233	97	16	0	0	0	0	0	0	2848
S D	0	0	0	0	0	0	1	35	90	141	196	237	246	220	183	137	64	12	0	0	0	0	0	0	1448
S/A	0	0	0	0	0	0	1.08	0.72	0.59	0.54	0.52	0.53	0.54	0.52	0.53	0.59	0.66	0.72	0	0	0	0	0	0	0.51
Min	0	0	0	0	0	0	0	1	22	63	87	46	42	67	24	16	12	1	0	0	0	0	0	0	683
Max	0	0	0	0	0	0	5	127	305	497	677	770	810	756	612	463	214	38	0	0	0	0	0	0	4955

Daylight Data Recovery: 0% missing; 2% exceed the 15% QC threshold -- 7482 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 1997**

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	37	174	78	362	510	666	609	402	44	0	0	0	0	0	0	2883
2	0	0	0	0	0	0	0	5	13	57	222	14	76	236	384	184	4	0	0	0	0	0	0	0	1196
3	0	0	0	0	0	0	0	0	0	1	2	13	43	58	15	0	0	0	0	0	0	0	0	0	132
4	0	0	0	0	0	0	0	0	0	15	3	406	36	3	413	560	426	60	0	0	0	0	0	0	1923
5	0	0	0	0	0	0	0	12	106	227	516	427	565	168	221	190	270	9	0	0	0	0	0	0	2709
6	0	0	0	0	0	0	0	0	0	0	0	3	0	4	0	1	0	0	0	0	0	0	0	0	7
7	0	0	0	0	0	0	0	44	7	0	1	0	0	0	0	0	0	0	0	0	0	0	0	0	51
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
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	2	1	22	171	203	1	0	0	0	0	0	0	0	0	0	0	401
11	0	0	0	0	0	0	0	0	151	290	348	10	91	28	12	233	452	123	0	0	0	0	0	0	1736
12	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
13	0	0	0	0	0	0	0	0	0	0	0	1	1	3	0	0	0	0	0	0	0	0	0	0	5
14	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	1	0	0	0	0	0	0	3
15	0	0	0	0	0	0	0	143	657	750 ?	813 ?	845	849	836	793	734	573	158	0	0	0	0	0	0	7151
16	0	0	0	0	0	0	8	238	542	685	739	759	775	781	761	711	573	182	0	0	0	0	0	0	6753
17	0	0	0	0	0	0	33	484	729	830	873	893	893	875	844	749	627	204	0	0	0	0	0	0	8034
18	0	0	0	0	0	0	15	411	428	336	668	791	683	535	476	640	231	12	0	0	0	0	0	0	5225
19	0	0	0	0	0	0	0	22	5	39	135	249	230	175	145	83	3	1	0	0	0	0	0	0	1087
20	0	0	0	0	0	0	0	1	22	38	88	391	456	499	80	1	3	27	0	0	0	0	0	0	1605
21	0	0	0	0	0	0	0	20	463	752	825	849	831	808	748	306	180	0	0	0	0	0	0	0	6630
22	0	0	0	0	0	0	22	481	442	137	224	524	778	769	818	740	572	204	0	0	0	0	0	0	5711
23	0	0	0	0	0	0	0	250	494	586	522	554	616	742	826	774 ?	166 ?	6	0	0	0	0	0	0	5537
24	0	0	0	0	0	0	0	108	57	225	397	434	434	109	36	4	4	0	0	0	0	0	0	0	1807
25	0	0	0	0	0	0	0	1	6	1	13	1	21	2	13	0	0	0	0	0	0	0	0	0	59
26	0	0	0	0	0	0	0	0	1	2	1	2	3	277 ?	162 ?	269 ?	4	7	0	0	0	0	0	0	728
27	0	0	0	0	0	0	0	0	0	12	54	220	121	41	110	27	3	0	0	0	0	0	0	0	589
28	0	0	0	0	0	0	0	0	0	1	2	4	7	67	80	23	0	0	0	0	0	0	0	0	184
Avg	0	0	0	0	0	0	3	75	149	173	231	272	289	281	276	261	165	44	0	0	0	0	0	0	2220
S D	0	0	0	0	0	0	8	148	233	272	297	314	323	321	322	311	224	71	0	0	0	0	0	0	2604
S/A	0	0	0	0	0	0	2.73	1.97	1.56	1.57	1.29	1.16	1.12	1.14	1.17	1.19	1.36	1.63	0	0	0	0	0	0	1.17
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	33	484	729	830	873	893	893	875	844	774	627	204	0	0	0	0	0	0	8034

Daylight Data Recovery: 0% missing; 2% exceed the 15% QC threshold -- 7482 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 1997

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	27	90	250	283	309	234	160	100	71	44	4	0	0	0	0	0	0	1572
2	0	0	0	0	0	0	0	21	66	213	269	252	270	281	207	148	57	3	0	0	0	0	0	0	1788
3	0	0	0	0	0	0	0	33	74	108	212	269	321	319	147	78	17	2	0	0	0	0	0	0	1580
4	0	0	0	0	0	0	0	18	56	171	179	216	199	189	193	90	46	8	0	0	0	0	0	0	1366
5	0	0	0	0	0	0	0	38	149	266	284	274	253	321	241	172	65	11	0	0	0	0	0	0	2075
6	0	0	0	0	0	0	0	28	76	144	155	199	153	225	167	116	27	2	0	0	0	0	0	0	1291
7	0	0	0	0	0	0	0	41	126	132	146	43	39	63	22	15	11	3	0	0	0	0	0	0	641
8	0	0	0	0	0	0	0	11	57	131	106	146	164	121	101	62	22	1	0	0	0	0	0	0	923
9	0	0	0	0	0	0	0	8	36	59	101	143	120	124	113	81	28	3	0	0	0	0	0	0	816
10	0	0	0	0	0	0	0	20	131	212	383	346	300	210	192	160	53	6	0	0	0	0	0	0	2013
11	0	0	0	0	0	0	0	21	116	212	257	270	383	255	210	174	63	10	0	0	0	0	0	0	1971
12	0	0	0	0	0	0	0	41	58	58	81	114	110	70	49	30	14	1	0	0	0	0	0	0	627
13	0	0	0	0	0	0	0	1	20	59	98	147	137	213	78	37	24	3	0	0	0	0	0	0	817
14	0	0	0	0	0	0	1	16	28	65	160	184	151	134	77	93	67	22	0	0	0	0	0	0	997
15	0	0	0	0	0	0	1	44	69	81 ?	89 ?	85	84	88	83	68	49	12	0	0	0	0	0	0	754
16	0	0	0	0	0	0	2	47	82	101	117	124	122	108	94	73	49	13	0	0	0	0	0	0	934
17	0	0	0	0	0	0	2	31	50	58	62	62	64	61	60	61	48	11	0	0	0	0	0	0	568
18	0	0	0	0	0	0	3	64	116	228	132	116	178	279	177	110	85	23	0	0	0	0	0	0	1511
19	0	0	0	0	0	0	2	84 ?	151	268	324	360	387	343	305	227	95	16	0	0	0	0	0	0	2561
20	0	0	0	0	0	0	2	56	187	228	311	306	303	252	268	80	45	21	0	0	0	0	0	0	2057
21	0	0	0	0	0	0	2	28	57	85	81	84	89	88	81	70	94	22	0	0	0	0	0	0	782
22	0	0	0	0	0	0	2	37	110	250	330	304	184	180	101	89	69	18	0	0	0	0	0	0	1673
23	0	0	0	0	0	0	2	48	111	156	220	257	233	151	102	142 ?	72 ?	22	0	0	0	0	0	0	1516
24	0	0	0	0	0	0	1	39	172	256	366	438	362	229	281	220	119	25	0	0	0	0	0	0	2508
25	0	0	0	0	0	0	1	49	163	155	260	305	317	239	279	114	46	8	0	0	0	0	0	0	1936
26	0	0	0	0	0	0	1	21	65	134	220	234	277	459 ?	292 ?	253 ?	65	32	0	0	0	0	0	0	2053
27	0	0	0	0	0	0	5	32	97	266	387	395	394	365	369	229	112	21	0	0	0	0	0	0	2671
28	0	0	0	0	0	0	3	31	88	148	188	254	305	317 ?	373	190	54	26	0	0	0	0	0	0	1978
Avg	0	0	0	0	0	0	1	33	93	160	207	223	219	209	170	116	55	12	0	0	0	0	0	0	1499
S D	0	0	0	0	0	0	1	17	44	73	99	103	103	101	98	64	28	9	0	0	0	0	0	0	622
S/A	0	0	0	0	0	0	1.11	0.52	0.47	0.45	0.48	0.46	0.47	0.48	0.57	0.55	0.5	0.73	0	0	0	0	0	0	0.41
Min	0	0	0	0	0	0	0	1	20	58	62	43	39	61	22	15	11	1	0	0	0	0	0	0	568
Max	0	0	0	0	0	0	5	84	187	268	387	438	394	459	373	253	119	32	0	0	0	0	0	0	2671

Daylight Data Recovery: 0% missing; 3% exceed the 15% QC threshold -- 7482 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