

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Watt-Hours per Square Meter
Mississippi Valley State Unive - April 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	1	63 ?	304 ?	524	728	879	946 ?	960	889	753	560	330	96 ?	3	0	0	0	0	0	7034
2	0	0	0	0	0	1	93	298	513	718	863	916	889	827	669	254	221	47	2	0	0	0	0	0	6310
3	0	0	0	0	0	0	16	226	402	651	784	927	868	830	741	?	363 ?	63 ?	4	0	0	0	0	0	5876
4	0	0	0	0	0	2	60	118	177	152	197	296	396	397	418	285	158	97	3	0	0	0	0	0	2756
5	0	0	0	0	0	2	98	311	541	716	882	966	974	902	758	562	334	114	3	0	0	0	0	0	7162
6	0	0	0	0	0	4	112	320	535	734	879	960	966	897	747	552	325	111	4	0	0	0	0	0	7145
7	0	0	0	0	0	2	27	120	114	143	354	571	712	830	657	532	266	101	5	0	0	0	0	0	4433
8	0	0	0	0	0	4	66	146	250	295	613	627	750	583	621	273	75	117	6	0	0	0	0	0	4426
9	0	0	0	0	0	3	94	327	539	422	427	516	572	624	484	234	139	89	8	0	0	0	0	0	4478
10	0	0	0	0	0	5	119	335	547	768	689	1013	788	713	657	636	342	127	7	0	0	0	0	0	6743
11	0	0	0	0	0	7	116	332	564	765	910	987	991	927	777	585	352	123	10 ?	0	0	0	0	0	7445
12	0	0	0	0	0	7	129	347	571	771	918	994	999	925	775	579	346	125	7	0	0	0	0	0	7491
13	0	0	0	0	0	2	48	67	266	357	505	629	401	361	295	66	32	8	0	0	0	0	0	0	3038
14	0	0	0	0	0	5	91	191	363	431	494	423	469	777	663	515	249	80	4	0	0	0	0	0	4754
15	0	0	0	0	0	1	9	85	169	142	139	160	157	175	209	155	93	58	8	0	0	0	0	0	1561
16	0	0	0	0	0	8	100	232	266	225	457	182	414	510	486	309	56	56	5	0	0	0	0	0	3306
17	0	0	0	0	0	11	101	235	180	110	135	371	363	88	250	94	69	48	0	0	0	0	0	0	2055
18	0	0	0	0	0	0	5	19	50	78	70	50	69	56	47	44	14	7	1	0	0	0	0	0	510
19	0	0	0	0	0	5	39	351	592	753	929	1024	1007	922	796	598	366	142	9	0	0	0	0	0	7534
20	0	0	0	0	0	17	122	253	481	629	907	986	976	905	745	569	341	120	13 ?	0	0	0	0	0	7064
21	0	0	0	0	0	3	31	67	142	177	321	562	794	793	613	381	359	98	7	0	0	0	0	0	4349
22	0	0	0	0	0	14	155 ?	361	581	775	923	879	756	328	202 ?	166	221	140	10	0	0	0	0	0	5510
23	0	0	0	0	0	15	75 ?	354	567	753	903	891	947	913	760	522	352	137	10	0	0	0	0	0	7201
24	0	0	0	0	0	18	77 ?	452 ?	582	775	944	807	848	899	724	497	338	146	8	0	0	0	0	0	7115
25	0	0	0	0	0	19	170 ?	346 ?	579	770	908	975	972	899	753	574	350	138	13	0	0	0	0	0	7467
26	0	0	0	0	0	8	80	207	367	621	630	394	777	722	245	82	131	77	11	0	0	0	0	0	4351
27	0	0	0	0	0	7	85 ?	297	426	623	847	910	763	519	396	288	143	34	2	0	0	0	0	0	5340
28	0	0	0	0	0	10	56	128	438 ?	450	504	399	183	199	111	100	40	27	6	0	0	0	0	0	2650
29	0	0	0	0	0	1	14	68	117	321	241	221	204	444	177	43	98	28	2	0	0	0	0	0	1981
30	0	0	0	0	0	7	52 ?	422 ?	515	681	798	688	503	398	458	404	292	131	17	0	0	0	0	0	5365
Avg	0	0	0	0	0	6	77	244	399	518	635	676	682	642	533	361	226	90	6	0	0	0	0	0	5082
S D	0	0	0	0	0	5	42	116	174	249	285	303	288	277	235	201	123	42	4	0	0	0	0	0	2053
S/A	0	0	0	0	0	0.87	0.54	0.48	0.44	0.48	0.45	0.45	0.42	0.43	0.44	0.56	0.54	0.47	0.65	0	0	0	0	0	0.4
Min	0	0	0	0	0	0	5	19	50	78	70	50	69	56	47	43	14	7	0	0	0	0	0	0	510
Max	0	0	0	0	0	19	170	452	592	775	944	1024	1007	927	796	636	366	146	17	0	0	0	0	0	7534

Daylight Data Recovery: 0% missing; 16% exceed the 15% QC threshold -- 69993 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 - April 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	1	123 ?	697 ?	792	844	871	875 ?	871	856	829	774	683	408 ?	24	0	0	0	0	0	8647
2	0	0	0	0	0	6	350	559	722	807	826	743	650	631	446	46	67	0	0	0	0	0	0	0	5854
3	0	0	0	0	0	0	0	249	349	490	564	740	632	658	758	?	680 ?	282 ?	21	0	0	0	0	0	5422
4	0	0	0	0	0	0	97	27	27	0	0	1	2	5	43	18	42	94	0	0	0	0	0	0	358
5	0	0	0	0	0	8	323	586	615	697	802	838	847	830	795	739	662	443	37	0	0	0	0	0	8222
6	0	0	0	0	0	19	386	647	750	795	816	834	837	824	784	721	607	363	23	0	0	0	0	0	8405
7	0	0	0	0	0	0	0	2	0	1	17	141	316	566	504	559	320	171	6	0	0	0	0	0	2602
8	0	0	0	0	0	1	1	4	7	14	203	220	270	245	346	99	0	214	17	0	0	0	0	0	1639
9	0	0	0	0	0	2	197	635	625	42	32	31	59	186	176	27	13	56	24	0	0	0	0	0	2107
10	0	0	0	0	0	35	433	653	704	786	364	746	444	393	482	685	567	390	34	0	0	0	0	0	6715
11	0	0	0	0	0	9	366	661	762	817	840	852	853	847	816	768	678	465	41	0	0	0	0	0	8773
12	0	0	0	0	0	46	464	681	769	809	839	852	851	830	787	731	609	366	24	0	0	0	0	0	8657
13	0	0	0	0	0	0	1	1	36	27	60	55	4	8	7	0	0	0	0	0	0	0	0	0	199
14	0	0	0	0	0	0	30	28	180	151	153	112	161	502	514	484	252	62	0	0	0	0	0	0	2629
15	0	0	0	0	0	0	0	1	1	1	1	1	1	1	0	0	0	4	1	0	0	0	0	0	12
16	0	0	0	0	0	2	76	114	62	5	60	1	36	103	113	68	0	1	0	0	0	0	0	0	640
17	0	0	0	0	0	41	131	104	10	0	0	24	23	0	5	0	1	6	0	0	0	0	0	0	346
18	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
19	0	0	0	0	0	0	0	391	656	639	740	861	824	802	810	764	667	485	83	0	0	0	0	0	7722
20	0	0	0	0	0	15	58	89	261	401	770	791	785	777	705	682	580	312	40	0	0	0	0	0	6265
21	0	0	0	0	0	0	0	0	1	1	4	148	406	508	386	240	521	160	17 ?	0	0	0	0	0	2393
22	0	0	0	0	0	54	376 ?	570	678	711	735	546	358	127	85 ?	33	111	397	44	0	0	0	0	0	4825
23	0	0	0	0	0	57	243 ?	505	590	621	663	571	626	661	640	517	453	323	50	0	0	0	0	0	6519
24	0	0	0	0	0	19	248 ?	603 ?	653	707	735	440	504	628	497	395	401	339	27	0	0	0	0	0	6195
25	0	0	0	0	0	54	341 ?	496 ?	645	703	715	702	717	695	666	631	511	306	39	0	0	0	0	0	7221
26	0	0	0	0	0	0	15	51	177	248	165	49	360	387	10	0	0	0	1	0	0	0	0	0	1463
27	0	0	0	0	0	0	70 ?	129	143	286	502	467	304	105	45	36	0	0	0	0	0	0	0	0	2086
28	0	0	0	0	0	0	1	14	250 ?	68	39	19	0	1	0	0	0	0	0	0	0	0	0	0	394
29	0	0	0	0	0	0	0	1	2	15	3	3	2	36	4	0	1	0	0	0	0	0	0	0	66
30	0	0	0	0	0	0	8 ?	602 ?	343	368	486	300	63	15	97	170	244	288	36	0	0	0	0	0	3019
Avg	0	0	0	0	0	12	145	303	360	368	400	399	394	408	378	317	289	198	20	0	0	0	0	0	3980
S D	0	0	0	0	0	19	159	280	305	334	345	346	325	326	318	315	277	174	20	0	0	0	0	0	3145
S/A	0	0	0	0	0	1.54	1.1	0.92	0.85	0.91	0.86	0.87	0.83	0.8	0.84	0.99	0.96	0.88	1.04	0	0	0	0	0	0.79
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	57	464	697	792	844	871	875	871	856	829	774	683	485	83	0	0	0	0	0	8773

Daylight Data Recovery: 0% missing; 16% exceed the 15% QC threshold -- 69993 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 - April 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	1	31 ?	62 ?	71	85	99	208 ?	?	?	?	?	?	65 ?	3	0	0	0	0	0	624 ?
2	0	0	0	0	0	1	46	102	97	102	103	169	232	236	335	227	207	41	2	0	0	0	0	0	1898
3	0	0	0	0	0	0	14	135	201	259	246	178	224	214	193	?	?	50 ?	3	0	0	0	0	0	1717 ?
4	0	0	0	0	0	1	42	99	145	131	170	256	340	356	361	242	131	77	3	0	0	0	0	0	2354
5	0	0	0	0	0	2	53	98	171	157	139	129	123	123	117	103	76	42	2	0	0	0	0	0	1336
6	0	0	0	0	0	3	47	73	87	105	117	119	117	115	109	100	81	48	4	0	0	0	0	0	1126
7	0	0	0	0	0	1	23	106	98	124	316	412	374	279	234	171	132	70	5	0	0	0	0	0	2347
8	0	0	0	0	0	3	56	124	221	263	400	388	428	325	334	195	64	80	5	0	0	0	0	0	2888
9	0	0	0	0	0	3	51	80	157	372	366	474	489	432	319	204	123	77	7	0	0	0	0	0	3153
10	0	0	0	0	0	4	50	79	110	129	329	242	318	330	247	194	104	56	5	0	0	0	0	0	2199
11	0	0	0	0	0	5	52	76	88	98	102	107	105	100	93	83	65	39	4 ?	0	0	0	0	0	1016
12	0	0	0	0	0	6	50	74	91	105	109	114	114	114	112	100	85	55	6	0	0	0	0	0	1134
13	0	0	0	0	0	2	41	58	220	318	408	541	353	318	263	56	27	7	0	0	0	0	0	0	2614
14	0	0	0	0	0	4	81	172	243	286	332	294	277	272	215	183	131	61	3	0	0	0	0	0	2555
15	0	0	0	0	0	1	8	73	146	123	119	138	135	151	180	133	80	50	7	0	0	0	0	0	1343
16	0	0	0	0	0	7	88	189	221	201	392	157	364	400	381	256	49	47	4	0	0	0	0	0	2756
17	0	0	0	0	0	10	78	187	161	94	116	328	315	76	222	81	60	42	0	0	0	0	0	0	1769
18	0	0	0	0	0	0	4	17	43	67	60	43	60	48	41	38	12	6	1	0	0	0	0	0	439
19	0	0	0	0	0	4	34	178	163	210	192	114	137	131	111	91	77	49	6	0	0	0	0	0	1498
20	0	0	0	0	0	15	110	228	306	270	146	147	148	139	144	115	88	57	8	0	0	0	0	0	1921
21	0	0	0	0	0	3	26	58	121	152	274	382	345	283	278	205	130	63	6	0	0	0	0	0	2327
22	0	0	0	0	0	14	87 ?	117	140	175	201	302	374	210	123 ?	140	173	64	8	0	0	0	0	0	2126
23	0	0	0	0	0	15	74 ?	145	184	230	246	279	281	256	214	172	153	76	9	0	0	0	0	0	2334
24	0	0	0	0	0	18	78 ?	171 ?	154	173	216	326	303	256	273	220	169	80	7	0	0	0	0	0	2444
25	0	0	0	0	0	19	81 ?	211 ?	162	169	195	225	208	205	181	147	120	75	11	0	0	0	0	0	2010
26	0	0	0	0	0	7	71	180	233	412	447	323	386	325	211	71	113	66	9	0	0	0	0	0	2854
27	0	0	0	0	0	6	77 ?	262	347	367	341	402	427	401	342	260	123	29	1	0	0	0	0	0	3385
28	0	0	0	0	0	9	48	112	317 ?	389	445	357	157	171	95	86	35	24	5	0	0	0	0	0	2249
29	0	0	0	0	0	2	12	59	101	288	205	190	181	389	155	37	85	24	2	0	0	0	0	0	1729
30	0	0	0	0	0	6	45 ?	?	383 ?	444 ?	320	357	417	357	358	278	188	68	16	0	0	0	0	0	3236 ?
Avg	0	0	0	0	0	6	52	122	173	210	238	257	267	242	215	150	103	53	5	0	0	0	0	0	2046
S D	0	0	0	0	0	5	26	59	83	107	116	122	118	108	94	70	48	20	3	0	0	0	0	0	740
S/A	0	0	0	0	0	0.93	0.5	0.49	0.48	0.51	0.48	0.48	0.44	0.45	0.44	0.47	0.46	0.38	0.66	0	0	0	0	0	0.36
Min	0	0	0	0	0	0	4	17	43	67	60	43	60	48	41	37	12	6	0	0	0	0	0	0	439
Max	0	0	0	0	0	19	110	262	383	444	447	541	489	432	381	278	207	80	16	0	0	0	0	0	3385

Daylight Data Recovery: 0% missing; 17% exceed the 15% QC threshold -- 69993 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