

Mississippi Valley State University
33.5 N Latitude 90.33 W Longitude 52 Meters AMSL Time Zone -6

November 2001

Global Solar Radiation on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

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	26	135	330	487	607	549	600	507	244	153	48	0	0	0	0	0	0	0	3686
2	0	0	0	0	0	0	17	85	264	422	576	628	606	531	373	206	53	0	0	0	0	0	0	0	3760
3	0	0	0	0	0	0	23	129	305	456	565	610	590	516	364	178	27	1	0	0	0	0	0	0	3763
4	0	0	0	0	0	0	22	140	331	489	600	650	633	557	398	180	46	0	0	0	0	0	0	0	4046
5	0	0	0	0	0	0	22	133	314	470	580	626	601	521	382	194	49	0	0	0	0	0	0	0	3891
6	0	0	0	0	0	0	23	136	325	481	595	644	603	537	396	209	46	0	0	0	0	0	0	0	3995
7	0	0	0	0	0	0	20	127	306	460	571	614	593	509	370	196	42	0	0	0	0	0	0	0	3808
8	0	0	0	0	0	0	16	116	289	438	546	591	572	541	368	185	43	0	0	0	0	0	0	0	3705
9	0	0	0	0	0	0	13	95	250	400	517	574	556	479	353	182	38	0	0	0	0	0	0	0	3456
10	0	0	0	0	0	0	14	78	265	375	515	440	522	469	288	91	23	0	0	0	0	0	0	0	3080
11	0	0	0	0	0	0	14	110	263	413	520	566	548	472	339	174	38	0	0	0	0	0	0	0	3457
12	0	0	0	0	0	0	17	122	276	452	558	598	589	527	366	192	53	0	0	0	0	0	0	0	3750
13	0	0	0	0	0	0	14	104	333	384	436	537	523	496	348	177	38	0	0	0	0	0	0	0	3389
14	0	0	0	0	0	0	11	98	266	418	525	577	562	493	342	139	28	0	0	0	0	0	0	0	3460
15	0	0	0	0	0	0	16	88	284	419	528	575	555	488	343	173	37	0	0	0	0	0	0	0	3506
16	0	0	0	0	0	0	17	111	267	417	523	574	556	484	345	175	35	0	0	0	0	0	0	0	3504
17	0	0	0	0	0	0	14	99	262	417	521	572	548	457	322	166	23	0	0	0	0	0	0	0	3400
18	0	0	0	0	0	0	17	104	308	417	479	568	542	473	334	163	31	0	0	0	0	0	0	0	3435
19	0	0	0	0	0	0	10	90	186	283	441	341	319	234	55	38	7	0	0	0	0	0	0	0	2003
20	0	0	0	0	0	0	8	97	274	434	549	606	585	504	358	186	44	0	0	0	0	0	0	0	3646
21	0	0	0	0	0	0	11	97	260	427	533	592	572	494	350	175	14	0	0	0	0	0	0	0	3525
22	0	0	0	0	0	0	6	29	105	246	539	557	389	332	292	163	35	0	0	0	0	0	0	0	2693
23	0	0	0	0	0	0	2	40	118	234	492	495	542	487 ?	152 ?	118	34	0	0	0	0	0	0	0	2713 ?
24	0	0	0	0	0	0	0	14	53 ?	209	246	220	183	429	319	154	62	0	0	0	0	0	0	0	1889
25	0	0	0	0	0	0	5	85	251	404	509	572	555	477	337	171	32	0	0	0	0	0	0	0	3399
26	0	0	0	0	0	0	1	12	49	242	438	402	344	245	120	53	11	0	0	0	0	0	0	0	1919
27	0	0	0	0	0	0	0	2	7 ?	16 ?	23 ?	32 ?	25 ?	33 ?	26	18	3	0	0	0	0	0	0	0	185 ?
28	0	0	0	0	0	0	0	7	6	12 ?	55	50	95 ?	125	113 ?	30	3	0	0	0	0	0	0	0	497 ?
29	0	0	0	0	0	0	0	5	4	9 ?	6	12	51	60	32	18	13	0	0	0	0	0	0	0	210
30	0	0	0	0	0	0	1	12	76	224	422	498	522	448	332	169	37	0	0	0	0	0	0	0	2740
Avg	0	0	0	0	0	0	12	83	221	352	467	496	483	431	292	147	33	0	0	0	0	0	0	0	3017
S/D	0	0	0	0	0	0	8	45	110	142	165	182	174	143	113	58	15	0	0	0	0	0	0	0	1088
S/A	0	0	0	0	0	0	0.67	0.54	0.5	0.4	0.35	0.37	0.36	0.33	0.39	0.39	0.46	4.38	0	0	0	0	0	0	0.36
Min	0	0	0	0	0	0	0	2	4	9	6	12	25	33	26	18	3	0	0	0	0	0	0	0	185
Max	0	0	0	0	0	0	26	140	333	489	607	650	633	557	398	209	62	1	0	0	0	0	0	0	4046
n	0	0	0	0	0	0	165	357	349	343	353	352	353	349	346	358	329	4	0	0	0	0	0	0	3658

Daylight Data Recovery: 0.0% missing; 2.1% exceed the 15% QC threshold -- 3738 total daylight measurements.

Instrument: Eppley PSP Serial Number: 18036F3 Calibration Factor: 7.430 μV/W/m² Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

November 2001

Direct Normal Solar Radiation
 Hourly Integrated and Daily Totals
 Instrument: Eppley NIP
 Watt-Hours per Square Meter

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	*
2	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	*
4	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	*
6	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
7	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
8	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	*
10	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	*
12	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	*
14	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	*
16	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	*
18	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	*
20	0	0	0	0	0	0	*	*	*	?	?	402 *?	440 ?	*	*	*	157 *	?	0	0	0	0	0	0	*
21	0	0	0	0	0	0	*	374 ?	605 ?	217 ?	*	*	*	*	*	*	*	?	0	0	0	0	0	0	*
22	0	0	0	0	0	0	?	?	?	?	833 ?	*	*	*	*	*	*	*	0	0	0	0	0	0	*
23	0	0	0	0	0	0	?	?	?	?	?	?	65 ?	167 ?	?	?	?	?	0	0	0	0	0	0	?
24	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	*
26	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
27	0	0	0	0	0	0	249 *?	509 ?	?	?	?	?	?	?	*	?	626 *?	?	0	0	0	0	0	0	?
28	0	0	0	0	0	0	*	*	*	?	?	?	?	?	?	?	?	?	0	0	0	0	0	0	?
29	0	0	0	0	0	0	*	*	?	?	?	?	*	*	?	?	?	?	0	0	0	0	0	0	?
30	0	0	0	0	0	0	*	*	*	*	*	*	*	*	*	*	*	*	0	0	0	0	0	0	*
Avg	0	0	0	0	0	0	249	442	605	217	833	402	252	167	N/A	N/A	391	0	0	0	0	0	0	0	N/A *?
SD	0	0	0	0	0	0	0	95	0	0	0	0	265	0	0	0	332	0	0	0	0	0	0	0	0
S/A	0	0	0	0	0	0	0	0.22	0	0	0	0	1.05	0	0	0	0.85	0	0	0	0	0	0	0	0
Min	0	0	0	0	0	0	249	374	605	217	833	402	65	167	N/A	N/A	157	0	0	0	0	0	0	0	N/A
Max	0	0	0	0	0	0	249	509	605	217	833	402	440	167	N/A	N/A	626	0	0	0	0	0	0	0	N/A
n	0	0	0	0	0	0	1	4	5	2	2	3	6	5	0	0	5	0	0	0	0	0	0	0	0

Daylight Data Recovery: 86.0% missing; 13.1% exceed the 15% QC threshold -- 3738 total daylight measurements.

Instrument: Eppley NIP Serial Number: 25796E6 Calibration Factor: 8.670 μV/W/m² Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.

Mississippi Valley State University
33.5 N Latitude 90.33 W Longitude 52 Meters AMSL Time Zone -6

November 2001

Diffuse Solar Radiation (Shadow Band) on a Horizontal Surface
Hourly Integrated and Daily Totals
Instrument: Eppley PSP
Watt-Hours per Square Meter

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	24	130	327	462 ?	?	508 ?	467 ?	459 ?	234	144	45	0	0	0	0	0	0	0	2800 ?
2	0	0	0	0	0	0	17	80	245	380 ?	?	?	?	501 ?	386	199	52	0	0	0	0	0	0	0	1859 ?
3	0	0	0	0	0	0	20	124	298	448	?	?	?	488 ?	369	89 ?	25	1	0	0	0	0	0	0	1862 ?
4	0	0	0	0	0	0	21	138	325 ?	?	?	?	?	387 ?	142	43	0	0	0	0	0	0	0	0	1056 ?
5	0	0	0	0	0	0	21	130	310	421 ?	?	?	?	?	392 ?	195	47	0	0	0	0	0	0	0	1516 ?
6	0	0	0	0	0	0	21	134	325 ?	?	?	?	?	?	368 ?	190 ?	48	0	0	0	0	0	0	0	1087 ?
7	0	0	0	0	0	0	18	124	302	419 ?	?	?	?	466 ?	384	199	41	0	0	0	0	0	0	0	1953 ?
8	0	0	0	0	0	0	17	118	283	441	?	?	?	?	357 ?	184	41	0	0	0	0	0	0	0	1441 ?
9	0	0	0	0	0	0	12	87	234	391	512	565 ?	539 ?	479	356	181	36	0	0	0	0	0	0	0	3393 ?
10	0	0	0	0	0	0	14	73	253	369	497 ?	401	505	467	280	89	21	0	0	0	0	0	0	0	2969
11	0	0	0	0	0	0	14	105	254	413	522	557 ?	547 ?	473	341	174	38	0	0	0	0	0	0	0	3438 ?
12	0	0	0	0	0	0	16	119	256	392 ?	?	?	?	?	359 ?	127 ?	51	0	0	0	0	0	0	0	1319 ?
13	0	0	0	0	0	0	13	98	226 ?	364	428	535	500 ?	?	354	178	38	0	0	0	0	0	0	0	2733 ?
14	0	0	0	0	0	0	10	92	255	413	?	?	?	?	351	140	27	0	0	0	0	0	0	0	1288 ?
15	0	0	0	0	0	0	15	84	269 ?	400 ?	?	?	?	?	360	179	36	0	0	0	0	0	0	0	1343 ?
16	0	0	0	0	0	0	16	112	254	400 ?	?	?	?	443 ?	373 ?	180	36	0	0	0	0	0	0	0	1813 ?
17	0	0	0	0	0	0	13	95	248	389 ?	?	?	?	453 ?	334	170	23	0	0	0	0	0	0	0	1724 ?
18	0	0	0	0	0	0	16	99	253 ?	376 ?	422 ?	?	?	461 ?	339	163	29	0	0	0	0	0	0	0	2158 ?
19	0	0	0	0	0	0	9	85	178	277	392	322	278	225	54	43	7	0	0	0	0	0	0	0	1869
20	0	0	0	0	0	0	8	94	239 ?	?	?	?	?	?	?	166 ?	43	0	0	0	0	0	0	0	549 ?
21	0	0	0	0	0	0	11	93	214 ?	?	?	?	?	?	?	165	14	0	0	0	0	0	0	0	497 ?
22	0	0	0	0	0	0	6	28	101	210	?	?	342	268 ?	292	161	33	0	0	0	0	0	0	0	1440 ?
23	0	0	0	0	0	0	2	39	116	204	454 ?	410 ?	?	416 ?	168	113	31	0	0	0	0	0	0	0	1951 ?
24	0	0	0	0	0	0	0	14	45	202	238	213	178	417	335 ?	143	59	0	0	0	0	0	0	0	1845
25	0	0	0	0	0	0	5	82	215 ?	368 ?	?	?	?	?	368 ?	168	34	0	0	0	0	0	0	0	1239 ?
26	0	0	0	0	0	0	1	11	48	232	380 ?	384	309	238	115	51	11	0	0	0	0	0	0	0	1780
27	0	0	0	0	0	0	0	2	6	15	21	33	23	33	26	17	3	0	0	0	0	0	0	0	178
28	0	0	0	0	0	0	0	7	5	12	53	54	91	115	103	29	3	0	0	0	0	0	0	0	472
29	0	0	0	0	0	0	0	4	4	10	6	11	49	58	31	18	12	0	0	0	0	0	0	0	202
30	0	0	0	0	0	0	0	11	72	215	384 ?	417 ?	494 ?	419 ?	?	169	37	0	0	0	0	0	0	0	2220 ?

Avg	0	0	0	0	0	0	11	80	205	316	332	339	332	362	289	139	32	0	0	0	0	0	0	0	0	1666 ?
S D	0	0	0	0	0	0	8	44	104	138	188	200	194	155	120	56	15	0	0	0	0	0	0	0	0	849
S/A	0	0	0	0	0	0	0.67	0.55	0.5	0.43	0.57	0.59	0.58	0.43	0.41	0.41	0.46	5.07	0	0	0	0	0	0	0	0.51
Min	0	0	0	0	0	0	0	2	4	10	6	11	23	33	26	17	3	0	0	0	0	0	0	0	0	178
Max	0	0	0	0	0	0	24	138	327	462	522	565	547	501	392	199	59	1	0	0	0	0	0	0	0	3438
n	0	0	0	0	0	0	165	360	307	240	130	123	110	159	263	337	329	4	0	0	0	0	0	0	0	2536

Daylight Data Recovery: 0.0% missing; 32.2% exceed the 15% QC threshold -- 3738 total daylight measurements.

Instrument: Eppley PSP Serial Number: 18039F3 Calibration Factor: 7.470 μV/W/m² Calibration Date: 05/1998

Data & Flag	Hour Column	Day Column
<value> *	> 20% Missing	> 10% Missing
<value> ?	> 20% Fail QC	> 10% Fail QC
<blank> *	> 90% Missing	> 90% Missing
<blank> ?	> 90% Fail QC	> 90% Fail QC

Note: Daily values with a missing flag (*) are not used in monthly statistics.