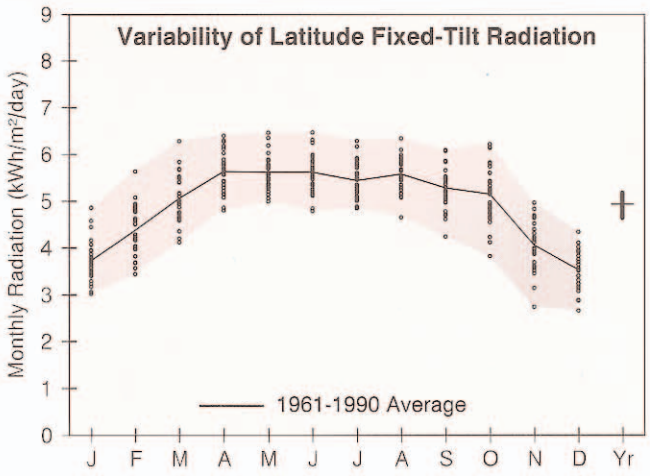


Birmingham, AL

WBAN NO. 13876

LATITUDE: 33.57° N
LONGITUDE: 86.75° W
ELEVATION: 192 meters
MEAN PRESSURE: 996 millibars

STATION TYPE: Secondary

Solar Radiation for Flat-Plate Collectors Facing South at a Fixed Tilt (kWh/m²/day), Uncertainty ±9%

Tilt (°)		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
0	Average	2.5	3.3	4.4	5.5	6.0	6.2	5.9	5.6	4.8	4.0	2.8	2.3	4.4
	Min/Max	2.3/3.0	2.8/4.0	3.7/5.2	4.7/6.1	5.3/6.8	5.3/7.2	5.3/6.8	4.8/6.3	4.0/5.4	3.2/4.6	2.2/3.3	2.0/2.7	4.2/4.6
[illegible]	[illegible]	2.0/4.6	2.1/5.5	2.5/6.1	3.3/6.3	3.3/6.3	2.0/5.4	2.3/4.7	2.8/5.6	2.6/5.5	2.8/6.1	1.5/4.6	1.6/4.1	3.3/4.4
verage		3.2	3.8	4.2	4.9	4.7	4.5	3.9	4.0	3.9	4.5	3.6	3.2	4.0
n/Max		2.1/4.9	2.2/5.6	2.5/6.1	3.3/6.4	3.5/6.6	2.2/5.9	2.4/5.1	2.9/5.8	2.6/5.6	2.9/6.1	1.6/4.9	1.8/4.5	3.4/4.6

2-Axis

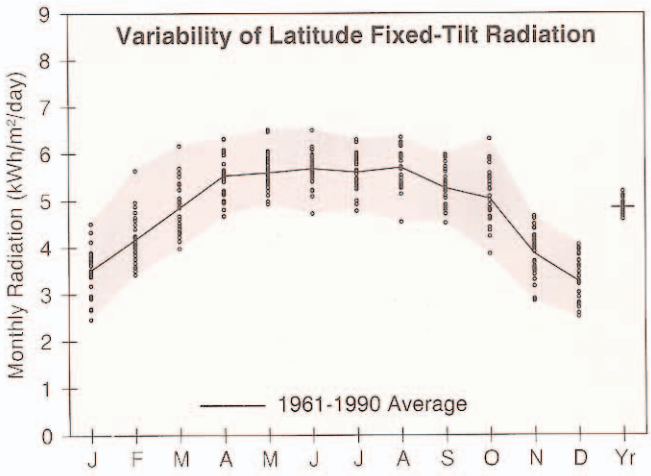
Average Climatic Conditions

Huntsville, AL

WBAN NO. 03856

LATITUDE: 34.65° N
LONGITUDE: 86.77° W
ELEVATION: 190 meters
MEAN PRESSURE: 995 millibars

STATION TYPE: Secondary



Solar Radiation for Flat-Plate Collectors Facing South at a Fixed Tilt (kWh/m²/day), Uncertainty ±9%

Tilt (°)		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
0	Average	2.4	3.1	4.1	5.3	5.9	6.3	6.1	5.7	4.7	3.9	2.7	2.1	4.4
	Min/Max	1.9/2.8	2.7/3.9	3.5/5.1	4.5/6.0	5.3/6.9	5.2/7.2	5.2/6.9	4.7/6.3	4.2/5.3	3.2/4.6	2.2/3.0	1.9/2.5	4.2/4.6
Latitude -15	Average	3.1	3.8	4.7	5.6	5.9	6.2	6.0	5.9	5.2	4.7	3.5	2.9	4.8
	Min/Max	2.3/3.9	3.2/5.1	3.9/5.9	4.8/6.4	5.2/6.9	5.1/7.1	5.1/6.8	4.7/6.6	4.5/5.9	3.7/5.8	2.7/4.1	2.3/3.5	4.6/5.1
Latitude	Average	3.5	4.2	4.8	5.5	5.6	5.7	5.6	5.7	5.3	5.0	3.9	3.3	4.8
	Min/Max	2.5/4.5	3.4/5.6	4.0/6.2	4.7/6.3	4.9/6.5	4.7/6.5	4.8/6.3	4.5/6.3	4.5/6.0	3.9/6.3	2.9/4.7	2.5/4.1	4.6/5.2
Latitude +15	Average	3.7	4.3	4.7	5.1	5.0	4.9	4.9	5.2	5.0	5.1	4.1	3.5	4.6
	Min/Max	2.5/4.8	3.5/5.9	3.9/6.1	4.3/5.9	4.4/5.7	4.1/5.6	4.2/5.5	4.1/5.8	4.3/5.8	3.8/6.5	2.9/4.9	2.6/4.4	4.4/5.0
90	Average	3.2	3.4	3.3	2.9	2.4	2.1	2.2	2.7	3.2	3.9	3.4	3.1	3.0
	Min/Max	2.1/4.3	2.8/4.8	2.7/4.2	2.5/3.3	2.2/2.6	1.9/2.3	2.1/2.4	2.3/3.0	2.8/3.7	2.8/5.0	2.4/4.3	2.2/4.0	2.8/3.2

Solar Radiation for 1-Axis Tracking Flat-Plate Collectors with a North-South Axis (kWh/m²/day), Uncertainty ±9%

Axis Tilt (°)		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
0	Average	3.2	4.2	5.5	7.0	7.6	8.0	7.6	7.3	6.1	5.3	3.6	2.9	5.7
	Min/Max	2.3/4.1	3.4/5.7	4.5/7.3	5.6/8.2	6.5/9.4	6.3/9.3	6.2/9.1	5.5/8.3	5.0/7.1	4.0/6.7	2.7/4.4	2.2/3.6	5.3/6.2
Latitude -15	Average	3.8	4.7	5.9	7.3	7.6	7.9	7.6	7.5	6.5	5.9	4.2	3.4	6.0
	Min/Max	2.6/4.9	3.8/6.6	4.8/7.9	5.8/8.6	6.5/9.4	6.2/9.3	6.2/9.0	5.6/8.5	5.3/7.6	4.4/7.6	3.0/5.2	2.6/4.4	5.6/6.6
Latitude	Average	4.1	5.0	6.0	7.2	7.4	7.6	7.3	7.3	6.6	6.2	4.5	3.8	6.1
	Min/Max	2.7/5.4	4.0/7.1	4.9/8.1	5.7/8.5	6.3/9.1	5.9/8.9	5.9/8.7	5.4/8.4	5.3/7.7	4.5/8.0	3.2/5.7	2.8/4.8	5.7/6.7
Latitude +15	Average	4.3	5.1	5.9	6.9	6.9	7.1	6.8	7.0	6.4	6.2	4.7	3.9	5.9
	Min/Max	2.8/5.7	4.0/7.2	4.8/8.0	5.5/8.2	5.9/8.6	5.5/8.3	5.5/8.1	5.1/8.0	5.2/7.6	4.5/8.1	3.3/5.9	2.9/5.1	5.5/6.5

Solar Radiation for 2-Axis Tracking Flat-Plate Collectors (kWh/m²/day), Uncertainty ±9%

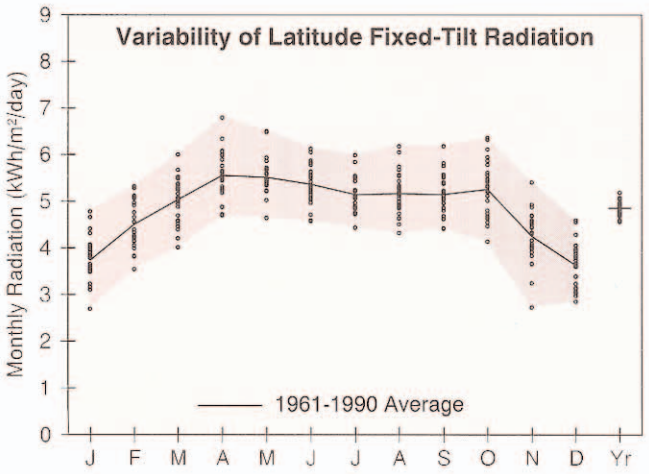
Tracker		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
2-Axis	Average	4.3	5.1	6.0	7.3	7.7	8.1	7.7	7.5	6.6	6.3	4.7	4.0	6.3
	Min/Max	2.8/5.8	4.1/7.3	4.9/8.1	5.8/8.6	6.6/9.5	6.3/9.4	6.3/9.2	5.6/8.6	5.3/7.7	4.6/8.1	3.3/5.9	2.9/5.2	5.8/6.9

Direct Beam Solar Radiation for Concentrating Collectors (kWh/m²/day), Uncertainty ±8%

Tracker		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
1-Axis, E-W Horiz Axis	Average	2.4	2.7	2.9	3.4	3.5	3.7	3.5	3.4	3.1	3.4	2.7	2.3	3.1
	Min/Max	1.2/3.6	1.7/4.6	2.0/4.5	2.4/4.4	2.6/5.0	2.4/5.0	2.4/4.7	1.9/4.2	2.1/4.0	2.1/4.8	1.4/3.6	1.3/3.3	2.7/3.6
1-Axis, N-S Horiz Axis	Average	1.9	2.6	3.4	4.5	4.7	4.9	4.5	4.4	3.7	3.5	2.3	1.7	3.5
	Min/Max	1.0/2.9	1.7/4.4	2.4/5.4	3.0/5.8	3.5/6.7	3.1/6.4	3.1/6.1	2.5/5.5	2.5/4.9	2.2/5.1	1.2/3.1	1.0/2.5	3.1/4.1
1-Axis, N-S Tilt=Latitude	Average	2.7	3.3	3.8	4.7	4.5	4.5	4.2	4.5	4.1	4.2	3.0	2.5	3.8
	Min/Max	1.4/4.0	2.2/5.6	2.7/6.1	3.1/6.0	3.4/6.4	2.9/6.0	2.9/5.8	2.5/5.5	2.7/5.3	2.6/6.1	1.6/4.2	1.4/3.5	3.4/4.5
2-Axis	Average	2.9	3.4	3.8	4.7	4.7	4.9	4.5	4.6	4.1	4.3	3.2	2.7	4.0
	Min/Max	1.4/4.3	2.2/5.7	2.7/6.1	3.2/6.1	3.6/6.8	3.2/6.5	3.1/6.2	2.5/5.7	2.7/5.3	2.6/6.2	1.7/4.4	1.5/3.8	3.5/4.7

Average Climatic Conditions

Element	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Temperature (°C)	3.8	6.2	11.1	16.0	20.2	24.3	26.1	25.7	22.3	16.2	10.8	6.1	15.7
Daily Minimum Temp	-1.6	0.3	4.9	9.4	14.1	18.3	20.5	19.9	16.4	9.6	4.7	0.6	9.8
Daily Maximum Temp	9.0	11.9	17.1	22.5	26.3	30.3	31.7	31.6	28.2	22.8	16.9	11.4	21.7
Record Minimum Temp	-23.9	-14.4	-14.4	-3.3	2.2	7.2	12.2	12.2	4.4	-1.7	-9.4	-19.4	-23.9
Record Maximum Temp	24.4	26.1	28.9	32.2	33.9	38.3	38.9	39.4	38.3	32.2	28.3	25.0	39.4
HDD, Base 18.3°C	451	341	232	88	23	0	0	0	7	96	228	381	1846
CDD, Base 18.3°C	0	0	6	18	82	180	241	229	127	31	3	0	917
Relative Humidity (%)	72	68	66	63	69	71	74	74	74	70	71	72	70
Wind Speed (m/s)	4.1	4.4	4.5	4.2	3.5	3.0	2.8	2.7	3.1	3.3	3.8	4.2	3.6



Mobile, AL

WBAN NO. 13894

LATITUDE: 30.68° N
LONGITUDE: 88.25° W
ELEVATION: 67 meters
MEAN PRESSURE: 1010 millibars

STATION TYPE: Secondary

Solar Radiation for Flat-Plate Collectors Facing South at a Fixed Tilt (kWh/m²/day), Uncertainty ±9%

Tilt (°)		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
0	Average	2.7	3.5	4.4	5.4	5.9	5.9	5.6	5.2	4.7	4.2	3.1	2.5	4.4
	Min/Max	2.2/3.2	2.9/4.0	3.7/5.2	4.7/6.6	4.9/6.9	5.0/6.8	4.8/6.5	4.5/6.2	4.1/5.5	3.5/5.0	2.3/3.7	2.2/3.0	4.2/4.7
Latitude -15	Average	3.3	4.1	4.9	5.6	5.8	5.8	5.5	5.3	5.1	4.9	3.8	3.2	4.8
	Min/Max	2.5/4.1	3.3/4.8	4.0/5.8	4.8/6.9	4.9/6.9	4.9/6.6	4.7/6.4	4.5/6.4	4.4/6.0	3.9/5.9	2.5/4.7	2.6/3.9	4.5/5.1
Latitude	Average	3.7	4.5	5.0	5.6	5.5	5.4	5.1	5.2	5.1	5.2	4.3	3.6	4.9
	Min/Max	2.7/4.8	3.5/5.3	4.0/6.0	4.7/6.8	4.6/6.5	4.6/6.1	4.4/6.0	4.3/6.2	4.4/6.2	4.1/6.4	2.7/5.4	2.8/4.6	4.6/5.2
Latitude +15	Average	4.0	4.6	4.9	5.2	4.9	4.7	4.5	4.7	4.9	5.3	4.5	3.9	4.7
	Min/Max	2.7/5.1	3.6/5.5	3.9/5.9	4.4/6.3	4.2/5.7	4.0/5.3	3.9/5.2	4.0/5.6	4.2/6.0	4.1/6.5	2.8/5.8	3.0/5.0	4.4/5.0
90	Average	3.3	3.6	3.2	2.7	2.1	1.9	1.9	2.3	3.0	3.9	3.7	3.4	2.9
	Min/Max	2.2/4.5	2.8/4.3	2.5/3.8	2.3/3.1	2.0/2.3	1.8/2.0	1.8/2.1	2.1/2.6	2.5/3.6	2.9/4.8	2.1/4.9	2.5/4.5	2.7/3.1

Solar Radiation for 1-Axis Tracking Flat-Plate Collectors with a North-South Axis (kWh/m²/day), Uncertainty ±9%

Axis Tilt (°)		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
0	Average	3.6	4.7	5.8	7.0	7.4	7.4	6.8	6.5	6.1	5.7	4.2	3.4	5.7
	Min/Max	2.6/4.6	3.6/5.8	4.5/7.1	5.7/9.1	5.8/9.2	6.0/8.8	5.6/8.3	5.2/8.1	5.0/7.4	4.4/7.1	2.7/5.4	2.7/4.4	5.3/6.2
Latitude -15	Average	4.1	5.2	6.1	7.2	7.4	7.3	6.7	6.6	6.3	6.2	4.7	3.9	6.0
	Min/Max	2.8/5.3	3.9/6.3	4.7/7.5	5.8/9.4	5.8/9.2	5.9/8.7	5.6/8.2	5.2/8.2	5.3/7.8	4.8/7.8	2.9/6.2	3.0/5.1	5.5/6.5
Latitude	Average	4.4	5.5	6.2	7.1	7.2	7.0	6.5	6.5	6.4	6.5	5.1	4.2	6.1
	Min/Max	2.9/5.8	4.1/6.7	4.7/7.7	5.7/9.4	5.6/8.9	5.7/8.3	5.3/7.9	5.1/8.1	5.3/8.0	4.9/8.1	3.0/6.7	3.2/5.6	5.6/6.6
Latitude +15	Average	4.6	5.5	6.2	6.9	6.7	6.5	6.1	6.2	6.2	6.6	5.3	4.4	5.9
	Min/Max	3.0/6.1	4.2/6.8	4.6/7.6	5.5/9.0	5.2/8.4	5.3/7.7	5.0/7.4	4.8/7.7	5.1/7.8	4.9/8.2	3.0/7.0	3.3/5.9	5.5/6.4

Solar Radiation for 2-Axis Tracking Flat-Plate Collectors (kWh/m²/day), Uncertainty ±9%

Tracker		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
2-Axis	Average	4.6	5.6	6.3	7.2	7.5	7.4	6.8	6.6	6.4	6.6	5.3	4.5	6.2
	Min/Max	3.0/6.1	4.2/6.9	4.7/7.7	5.8/9.5	5.8/9.3	6.0/8.9	5.6/8.4	5.2/8.3	5.3/8.0	4.9/8.2	3.1/7.0	3.4/6.0	5.8/6.8

Direct Beam Solar Radiation for Concentrating Collectors (kWh/m²/day), Uncertainty ±8%

Tracker		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
1-Axis, E-W Horiz Axis	Average	2.5	3.0	3.0	3.4	3.4	3.2	2.8	2.7	2.8	3.5	3.0	2.6	3.0
	Min/Max	1.1/3.8	2.0/4.0	1.8/4.2	2.3/5.2	2.0/4.9	2.2/4.3	2.0/4.1	1.6/4.1	1.8/4.2	2.3/4.9	1.2/4.4	1.5/3.8	2.6/3.5
1-Axis, N-S Horiz Axis	Average	2.2	3.0	3.6	4.5	4.4	4.2	3.6	3.6	3.6	3.8	2.7	2.1	3.4
	Min/Max	1.0/3.3	2.0/4.2	2.1/5.1	3.0/7.0	2.6/6.5	2.8/5.7	2.6/5.3	2.1/5.4	2.4/5.2	2.5/5.4	1.1/4.1	1.2/3.2	3.0/4.0
1-Axis, N-S Tilt=Latitude	Average	2.9	3.6	4.0	4.5	4.2	3.9	3.4	3.6	3.8	4.5	3.4	2.8	3.7
	Min/Max	1.3/4.3	2.4/5.0	2.3/5.6	3.0/7.1	2.5/6.3	2.6/5.3	2.4/4.9	2.1/5.3	2.5/5.6	2.9/6.3	1.4/5.1	1.6/4.2	3.2/4.3
2-Axis	Average	3.1	3.7	4.0	4.6	4.5	4.2	3.6	3.7	3.8	4.5	3.6	3.0	3.9
	Min/Max	1.3/4.6	2.5/5.2	2.3/5.6	3.1/7.2	2.6/6.6	2.8/5.7	2.6/5.3	2.2/5.5	2.5/5.6	2.9/6.3	1.5/5.4	1.8/4.6	3.3/4.5

Average Climatic Conditions

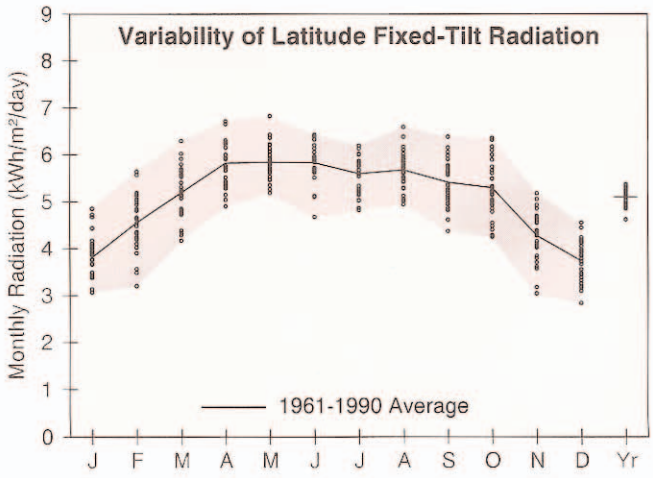
Element	Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
Temperature (°C)	9.9	11.8	15.8	19.9	23.6	26.9	27.9	27.7	25.5	20.2	15.4	11.7	19.7
Daily Minimum Temp	4.4	5.9	10.1	13.9	18.0	21.5	22.9	22.7	20.4	14.1	9.5	6.2	14.1
Daily Maximum Temp	15.4	17.6	21.6	25.8	29.2	32.2	32.9	32.5	30.5	26.4	21.3	17.2	25.2
Record Minimum Temp	-16.1	-11.7	-6.1	0.0	6.1	9.4	15.6	15.0	5.6	0.0	-5.6	-13.3	-16.1
Record Maximum Temp	28.9	27.8	32.2	34.4	37.8	38.9	40.0	38.9	37.2	33.9	30.6	27.2	40.0
HDD, Base 18.3°C	273	191	98	27	0	0	0	0	0	29	109	218	946
CDD, Base 18.3°C	13	8	21	73	164	257	298	289	215	87	22	12	1459
Relative Humidity (%)	72	70	71	70	71	73	76	78	75	71	73	74	73
Wind Speed (m/s)	4.5	4.7	4.7	4.6	3.9	3.4	3.0	2.9	3.4	3.6	4.1	4.4	3.9

Montgomery, AL

WBAN NO. 13895

LATITUDE: 32.30° N
LONGITUDE: 86.40° W
ELEVATION: 62 meters
MEAN PRESSURE: 1011 millibars

STATION TYPE: Primary



Solar Radiation for Flat-Plate Collectors Facing South at a Fixed Tilt (kWh/m²/day), Uncertainty ±9%

Tilt (°)		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
0	Average	2.7	3.5	4.5	5.7	6.2	6.4	6.1	5.7	4.9	4.2	3.0	2.5	4.6
	Min/Max	2.2/3.2	2.6/4.1	3.7/5.3	4.8/6.4	5.5/7.2	5.2/7.1	5.2/6.7	5.0/6.6	4.1/5.7	3.5/4.9	2.4/3.5	2.1/2.9	4.2/4.9
Latitude -15	Average	3.4	4.2	5.0	5.9	6.2	6.3	6.0	5.9	5.3	4.9	3.8	3.3	5.0
	Min/Max	2.7/4.2	3.0/5.1	4.1/6.0	5.0/6.8	5.5/7.2	5.0/6.9	5.1/6.6	5.1/6.8	4.4/6.3	4.0/5.9	2.8/4.5	2.6/3.9	4.6/5.3
Latitude	Average	3.8	4.6	5.2	5.8	5.8	5.8	5.6	5.7	5.4	5.3	4.3	3.7	5.1
	Min/Max	3.1/4.8	3.2/5.6	4.2/6.3	4.9/6.7	5.2/6.8	4.7/6.4	4.8/6.2	4.9/6.6	4.4/6.4	4.3/6.3	3.0/5.2	2.8/4.6	4.6/5.4
Latitude +15	Average	4.0	4.7	5.1	5.4	5.2	5.1	4.9	5.2	5.2	5.4	4.5	4.0	4.9
	Min/Max	3.2/5.2	3.2/5.9	4.1/6.2	4.6/6.2	4.6/6.1	4.1/5.6	4.3/5.4	4.5/6.0	4.1/6.1	4.2/6.5	3.1/5.5	3.0/4.9	4.4/5.1
90	Average	3.5	3.7	3.4	2.9	2.3	2.1	2.2	2.6	3.2	4.0	3.8	3.5	3.1
	Min/Max	2.7/4.6	2.5/4.6	2.7/4.2	2.5/3.3	2.2/2.6	2.0/2.2	1.9/2.3	2.3/2.9	2.5/3.7	3.1/4.8	2.5/4.7	2.5/4.5	2.8/3.2

Solar Radiation for 1-Axis Tracking Flat-Plate Collectors with a North-South Axis (kWh/m²/day), Uncertainty ±9%

Axis Tilt (°)		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
0	Average	3.6	4.7	5.9	7.3	7.8	7.9	7.3	7.1	6.3	5.7	4.1	3.4	5.9
	Min/Max	2.8/4.7	3.2/6.0	4.7/7.5	5.9/8.7	6.8/9.5	5.8/9.1	5.9/8.4	5.9/8.5	5.0/7.7	4.5/7.0	2.9/5.0	2.6/4.2	5.3/6.4
Latitude -15	Average	4.2	5.3	6.3	7.6	7.8	7.8	7.3	7.2	6.6	6.2	4.7	4.0	6.3
	Min/Max	3.2/5.5	3.5/6.7	5.0/8.0	6.1/9.0	6.8/9.6	5.7/9.0	5.9/8.3	6.0/8.7	5.2/8.1	4.8/7.7	3.2/5.8	3.0/5.0	5.6/6.7
Latitude	Average	4.5	5.5	6.5	7.5	7.6	7.5	7.0	7.1	6.7	6.5	5.1	4.4	6.3
	Min/Max	3.5/6.0	3.7/7.1	5.1/8.2	6.1/8.9	6.6/9.3	5.5/8.6	5.7/8.0	5.9/8.6	5.2/8.2	5.0/8.1	3.4/6.3	3.2/5.5	5.6/6.8
Latitude +15	Average	4.7	5.6	6.4	7.2	7.1	7.0	6.5	6.7	6.5	6.6	5.2	4.6	6.2
	Min/Max	3.6/6.3	3.7/7.3	5.0/8.2	5.8/8.6	6.2/8.8	5.1/8.0	5.3/7.5	5.6/8.1	5.0/8.0	5.0/8.2	3.4/6.5	3.3/5.8	5.5/6.6

Solar Radiation for 2-Axis Tracking Flat-Plate Collectors (kWh/m²/day), Uncertainty ±9%

Tracker		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
2-Axis	Average	4.7	5.6	6.5	7.6	7.9	8.0	7.4	7.2	6.7	6.6	5.3	4.7	6.5
	Min/Max	3.7/6.3	3.8/7.3	5.1/8.3	6.2/9.1	6.9/9.7	5.8/9.2	6.0/8.5	6.1/8.7	5.2/8.2	5.1/8.2	3.4/6.6	3.3/5.9	5.8/7.0

Direct Beam Solar Radiation for Concentrating Collectors (kWh/m²/day), Uncertainty ±8%

Tracker		Jan	Feb	Mar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
1-Axis, E-W Horiz Axis	Average	2.7	3.0	3.1	3.6	3.5	3.5	3.0	3.0	3.0	3.5	3.0	2.7	3.1
	Min/Max	1.7/4.0	1.8/4.4	1.9/4.5	2.5/4.7	2.6/4.9	1.7/4.5	1.9/3.9	2.2/4.4	2.0/4.1	2.3/4.7	1.4/4.0	1.5/3.8	2.7/3.5
1-Axis, N-S Horiz Axis	Average	2.3	3.1	3.7	4.7	4.7	4.5	3.9	3.9	3.7	3.8	2.6	2.2	3.6
	Min/Max	1.5/3.5	1.7/4.5	2.3/5.5	3.1/6.2	3.5/6.5	2.2/5.8	2.4/5.0	2.8/5.6	2.4/5.1	2.4/5.2	1.2/3.6	1.2/3.0	3.0/4.0
1-Axis, N-S Tilt=Latitude	Average	3.0	3.7	4.2	4.8	4.5	4.2	3.7	3.9	3.9	4.4	3.4	3.0	3.9
	Min/Max													

ar	Apr	May	June	July	Aug	Sept	Oct	Nov	Dec	Year
.0	18.2	22.2	25.9	27.4	27.0	24.7	18.8	13.7	9.7	18.3
.6	11.6	16.0	19.9	21.9	21.6	18.9	11.8	7.0	3.7	12.2
.3	24.7	28.3	31.9	32.8	32.4	30.6	25.7	20.4	15.7	24.3
.2	-2.2	4.4	9.4	15.0	13.9	3.9	-3.3	-10.6	-15.0	-17.8
.7	32.8	36.7	40.6	40.6	40.0	38.3	37.8	30.6	29.4	40.6
46	43	3	0	0	0	0	51	152	273	1236
2	38	122	228	281	269	192	64	12	6	1229
6	67	71	72	76	76	74	71	72	71	71
.7	3.3	2.7	2.5	2.5	2.3	2.6	2.5	2.9	3.3	3.0

Element	Jan	Feb
Temperature (°C)	7.8	9.9
Daily Minimum Temp	2.1	3.8
Daily Maximum Temp	13.5	16.0
Record Minimum Temp	-17.8	-12.2
Record Maximum Temp	28.3	29.4
HDD, Base 18.3°C	330	237
CDD, Base 18.3°C	4	0
Relative Humidity (%)	70	67
Wind Speed (m/s)	3.4	3.6