

NORTHERN HEMISPHERE SUMMER SOLSTICE

For the northern hemisphere, the summer solstice, the first day of summer, has the highest amount of sunshine hours. The amount of sunshine depends on how far north a place is from the equator (latitude). See how much sunshine each location below receives on the summer solstice, compared to the winter solstice. Then calculate the percentage of how much more summer solstice sunshine each location receives compared to the winter solstice. Waldorf is calculated for you as an example.

WALDORF, MD

38.6°N Latitude

Summer Solstice Sunshine:
14.9 hours

Winter Solstice Sunshine:
9.5 hours

$14.9 / 9.5 = 1.568$
 $1.568 \times 100 = 156.8\%$
round up to 157% more sunlight

MIAMI, FL

24.8°N Latitude

Summer Solstice Sunshine:
13.8 hours

Winter Solstice Sunshine:
10.5 hours

FAIRBANKS, AK

64.8°N Latitude

Summer Solstice Sunshine:
21.8 hours

Winter Solstice Sunshine:
3.7 hours

QAANAAQ, GREENLAND

77.5°N Latitude

Summer Solstice Sunshine:
24 hours

Last sunset was on April 20. Won't set again until August 23.

Winter Solstice Sunshine:
0 hours

Note: You can't divide by zero (0). For this example, you can use one (1).

