

# Solar Eclipse 2024



Graphics provided courtesy NationalEclipse.Com

**Solar Eclipse glasses provided through a partnership between  
Charles & JoAnn Lester Library,  
Solar Eclipse Activities for Libraries (SEAL), and Star Net.**

**Visit the Charles & JoAnn Lester Library at 100 Park Street, Nekoosa, WI.**

**What time does the eclipse happen?**

## Wisconsin Rapids, Wisconsin

Partial solar eclipse (81.91%)

Obscuration: 81.91%

Magnitude: 0.8474

Duration: 2h, 26m, 58s

**Partial begins: Apr 8 at 12:52:30 pm**

**Maximum: Apr 8 at 2:06:42 pm**

**Partial ends: Apr 8 at 3:19:28 pm**

Times shown in local time (CDT)

Avg. Cloud Cover

66% (since 2000)

Watch an animation of what the eclipse will look like in Wisconsin Rapids

<https://www.timeanddate.com/eclipse/in/@5279436?iso=20240408>

On **Monday, April 8, 2024**, a total solar eclipse will come to North America.

The **August 21, 2017** eclipse was the first total solar eclipse with a path of totality exclusive to the U.S. since before the nation's founding; it had been **760 years** (the year 1257) since the last total solar eclipse with a path of totality exclusive to the present-day U.S.

After the total solar eclipse on **April 8, 2024**, the next total solar eclipse that can be seen from the contiguous United States will be on **Aug. 23, 2044!**

**Our last total solar eclipse happened on August 21, 2017.**

**How old were you then?**

**Do you remember that eclipse?**

**How old will you be on August 23, 2044 when the United States experiences another total solar eclipse?**

### What is an eclipse?

A solar eclipse occurs when a new moon is positioned precisely between Earth and the sun and casts its shadow on Earth.

During a total solar eclipse, the moon appears almost exactly the same size as the sun, so the moon blocks the entire sun for a few minutes. The Sun is 400 times larger than the Moon, but it's also 400 times farther away, making total solar eclipses possible due to the apparently identical sizes of the Sun and the Moon in the sky.

In the path of totality, it will look like nighttime during the day! You will be able to see the sun's outer atmosphere, called the corona.

As the path travels northeast the maximum duration of totality will lessen because the moon's distance to Earth changes.

### Neat Facts!

During a total solar eclipse, the Moon's shadow moves across the Earth at more than 1,000 mph, or faster than the speed of sound!

An eclipse moves from west to east because the Moon orbits the Earth from west to east and its shadow moves faster than the rotation of the Earth.

Light filtering through leaves on trees casts crescent shadows as totality approaches.

During an eclipse, local animals and birds often prepare for sleep or behave confusedly.

***Local temperatures often drop 20 degrees or more near totality!***

The **Antikythera** mechanism, built over 2,000 years ago and discovered in a Greek shipwreck, could predict eclipses