

# Solar Eclipse

## Monday, April 8, 2024



Department of  
Health

### Solar Eclipse Timing and County Pathway In Ohio

- Eclipse will travel across Ohio from southwest to northeast.
- Totality begins in Greenville, Ohio at approximately 3 p.m. and will exit near Avon Lake, Ohio at approximately 3:10 p.m.
- Two to four minutes of totality.
- Nine counties intersect with center line of totality.
- 26 counties are entirely within area of totality. 20 counties have part of county in area of totality.
- 33 counties are outside area of totality – partial eclipse only.

### Eye Safety During a Solar Eclipse

The purpose of this guidance is to provide eye safety information and awareness that can be used for solar eclipse planning and readiness.

On Monday, April 8, 2024, weather permitting, all 50 U.S. states (excluding most of Alaska) will experience at least a partial solar eclipse, as will most of Canada, all of Mexico, and all countries in Central America.

### Types of Solar Eclipses

**Total Solar Eclipse:** A total solar eclipse happens when the moon passes between the Sun and the earth, completely blocking the face of the Sun.

**Annual Solar Eclipse:** An annular solar eclipse happens when the moon passes between the Sun and the earth, but when it is at or near its farthest point from the earth, the moon does not completely cover the Sun.

**Partial Solar Eclipse:** A partial solar eclipse happens when the moon passes between the Sun and the earth, but the Sun, moon, and earth do not perfectly line up, only covering part of the Sun.

### Solar Eclipse Eyewear Tips

It is never safe to look at a solar eclipse without proper safety equipment or techniques. Encourage the wearing of solar eclipse glasses when watching a total, annular or partial solar eclipse.

During the very brief time the Sun is in a partial or total solar eclipse, as the moon moves away from blocking the Sun, a person might get a solar burn on their retina which can cause permanent damage to their eyes.

Viewing any part of the bright Sun through a camera lens, binoculars, or a telescope without a special-purpose solar filter secured over the front of the optics will instantly cause severe eye injury.

When watching the phases of the solar eclipse always look through safe solar viewing glasses (“eclipse glasses”) or a safe handheld solar viewer.



Encourage the use of eyewear that meets safety requirements and that are manufactured with ISO **12312-2** expert approved standard. When purchasing solar eclipse glasses, use a trusted source, and ensure glasses contain this ISO standard labeling. You can visit <https://eclipse.aas.org/eye-safety/iso-certification> to ensure your solar eclipse eyewear is compliant.

Official Prevent Blindness eclipse glasses can be purchased at [Web Eye Care](#), [School Health](#), or from an approved manufacturer listed at <https://eclipse.aas.org/eye-safety/viewers-filters>.

## **Always Encourage Eye Safety**

You may call the office of your eye care professional to determine the best safety measures and solar eclipse viewing options for them.

## **Solar Eclipse Safety Eyewear Information Links:**

<https://solarsystem.nasa.gov/eclipses/2024/apr-8-total/safety/>

<https://nationaleclipse.com/safety.html>

<https://preventblindness.org/solar-eclipse-and-your-eyes>

<https://eclipse.aas.org/resources/solar-filters>

<https://www.aao.org/eye-health/tips-prevention/where-to-get-solar-eclipse-glasses-updated-advice>