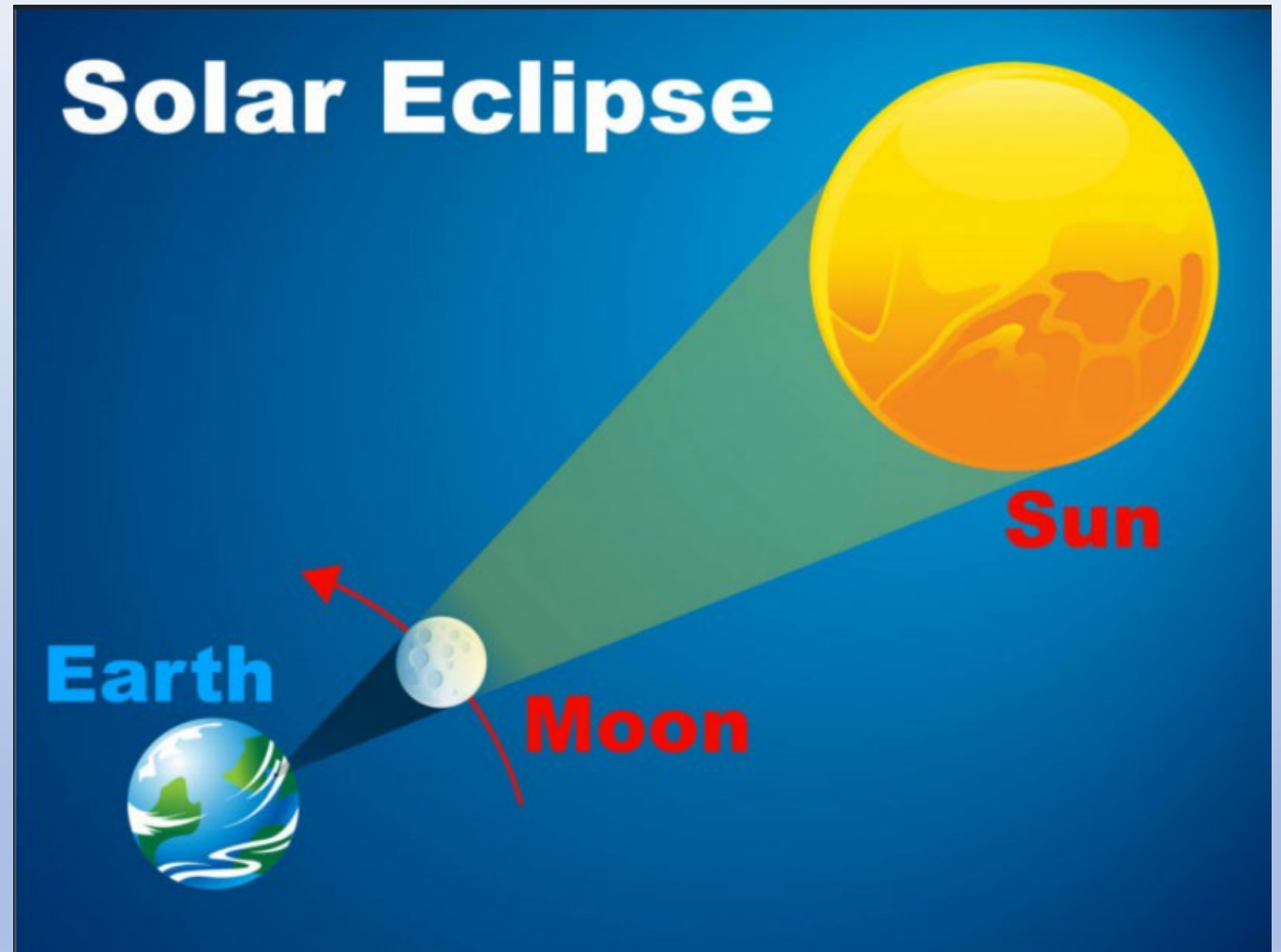


# April 8, 2024 Total Solar Eclipse



## What is a Total Solar Eclipse?

- Last one in Ohio- 1806
- Only 15 visible in U.S. since 1867
- Last one in US- 2017
- Next one in North America - 2044
- Next one in Ohio – September 12, 2444



# Total Solar Eclipses: 2017 vs. 2024

	August 21, 2017	April 8, 2024
Population in path	12 million	32 million
Max Duration	2 min 40.2 secs	4 min 28.1 secs
Path width	71 miles	124 miles



# Eclipse in Medina

- Start of partial eclipse: 1:58 pm
- Start of total eclipse: 3:13:29 pm
- End of total eclipse: 3:16:54 pm
  - 3 min 25 sec of totality
- End of partial eclipse: 4:28 pm





# The Eclipse's Pathway

- **Total Solar Eclipse – April 8<sup>th</sup>, 2024**
- Eclipse will travel across Ohio from southwest to northeast
- Totality will enter Ohio near Greenville, and will exit near Avon Lake
- Totality will be experienced in 55 counties in Ohio
- Takes about ten minutes to travel across Ohio
- Up to 2-4 minutes of totality – depends on where you are



# Statewide Efforts

- Formed a state-level Eclipse Planning Task Force
- Development of state level plans, and agency specific plans
  - Preparing Emergency Operations Plan for the eclipse
  - Developing exercises for plan review
- Preparing guidance documents and links to information
- State Eclipse website



MICHIGAN

Estimated visitors  
Low: 7,000  
High: 28,000

### How many people will come to see the eclipse?

We did a geographic analysis with two assumptions: that on average people will drive the shortest path to the eclipse and that people who live close are more likely to drive to the path of totality. Learn more about our analysis at [greatamericaneclipse.com/visitation](http://greatamericaneclipse.com/visitation)

Estimated visitors  
Low: 28,250  
High: 113,000

Estimated visitors  
Low: 31,000  
High: 124,000

Estimated visitors  
Low: 18,500  
High: 74,000

Estimated visitors  
Low: 40,500  
High: 162,000

Estimated visitors  
Low: 700  
High: 2,800

Keep in mind that these model predictions are estimates. Many factors such as weather or eclipse viewing events may result in visitation numbers outside these predictions.



# Cleveland area is estimated to have 28,250 to 113,000 people travel to the totality area

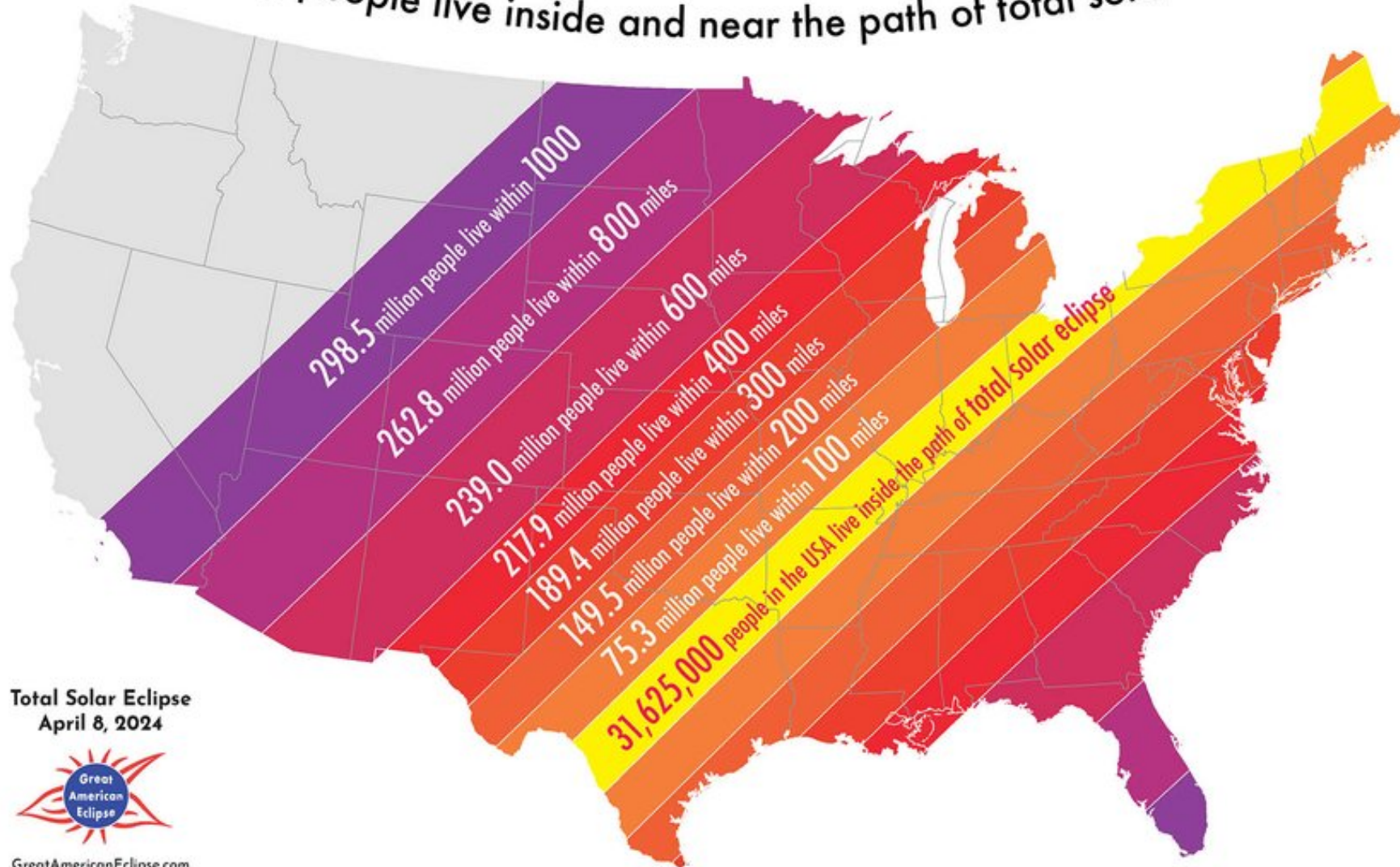
INDIANA

OHIO



# Why so many people?

How many people live inside and near the path of total solar eclipse?



Total Solar Eclipse  
April 8, 2024



GreatAmericanEclipse.com





# April 8<sup>th</sup> Weather



## Cleveland-Hopkins International Airport (CLE)

April 8th Climatology

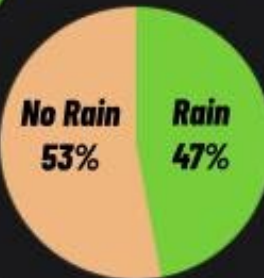


 **57°F NORMAL HIGH TEMP**

- Warmest high of **83°F (2021)**
- Coldest high of **27°F (1972)**
- Highs *above* 70°F: **13 yrs (15%)**
- Highs *below* 50°F: **36 yrs (42%)**

*\*1 Year of Missing Data*

 **WETTEST: 0.86" (1995)**



Rain was measured 47% of years. There is 1 year of missing data.

 **38°F NORMAL LOW TEMP**

- Warmest low of **63°F (2001+)**
- Coldest low of **11°F (1982)**
- Low *above* 50°F: **7 yrs (8%)**
- Lows *below* 32°F: **41 yrs (48%)**

*\*1 Year of Missing Data*



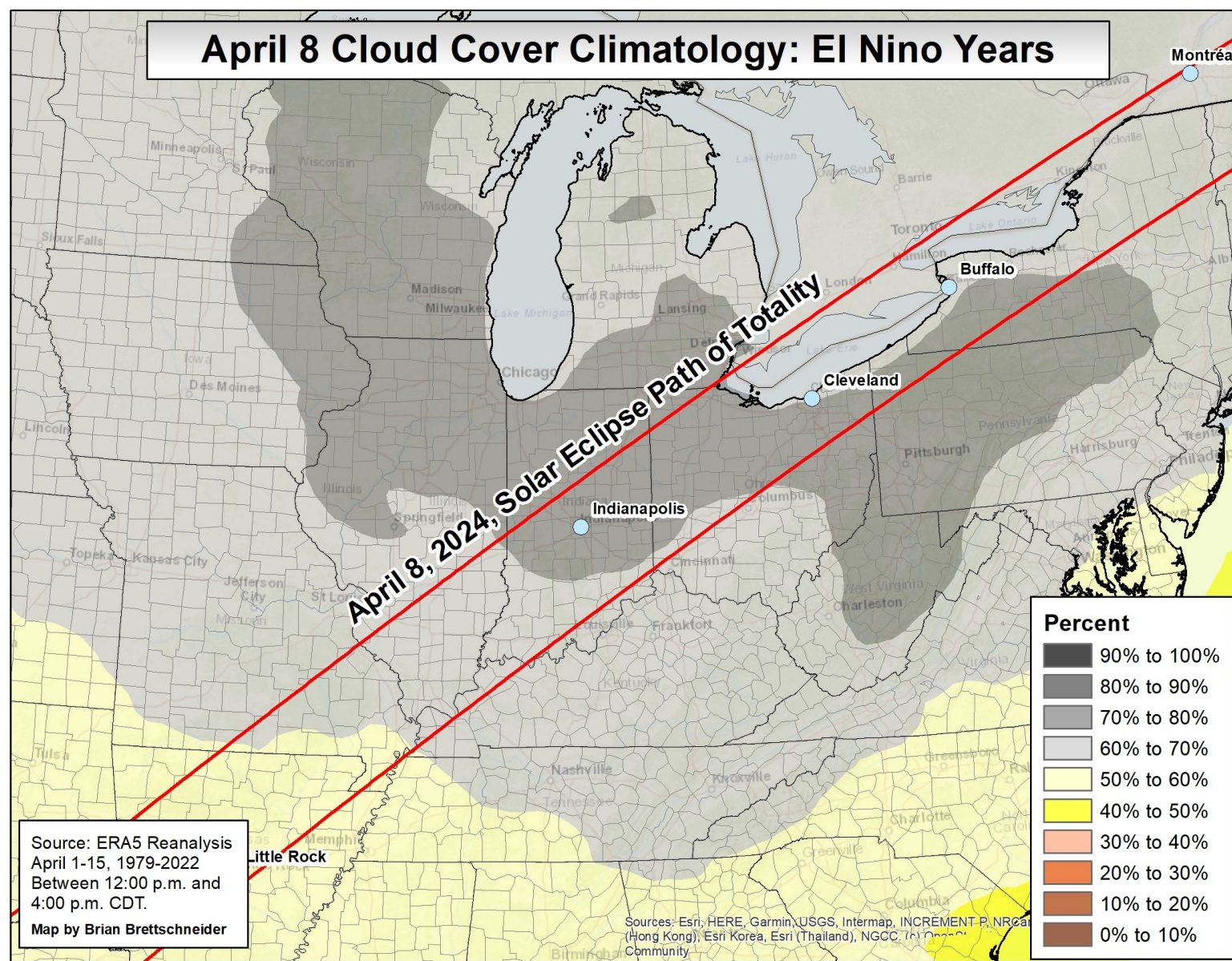
NATIONAL WEATHER SERVICE  
OCEANIC AND ATMOSPHERIC ADMINISTRATION

Cleveland, OH

Records Date Back to 1938.  
Climate Normals 1991-2020.



# April 8<sup>th</sup> Weather



# April 8<sup>th</sup> Weather



## Cleveland-Hopkins International Airport (CLE) April 8th Climatology



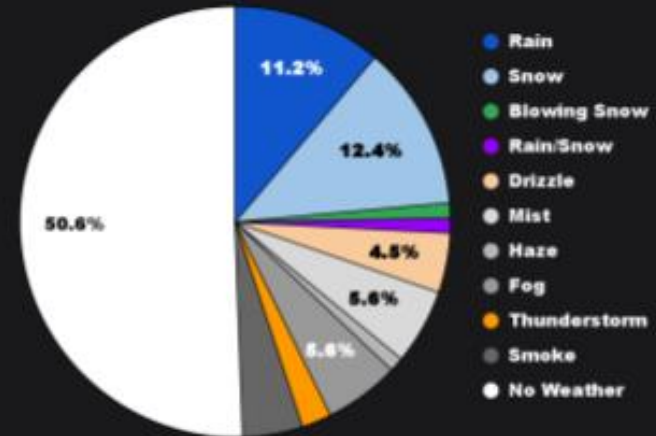
### OBSERVED WEATHER

No weather was observed 50.6% of the time on April 8th.

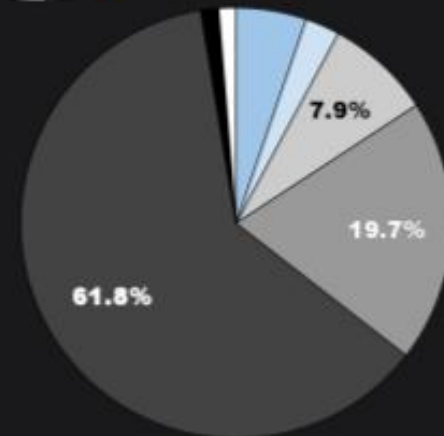


### SKY COVERAGE

The most frequently observed cloud cover was **Overcast (OVC)**.



- Clear
- Few
- Scattered
- Broken
- Overcast
- Vertical Visibility
- Missing



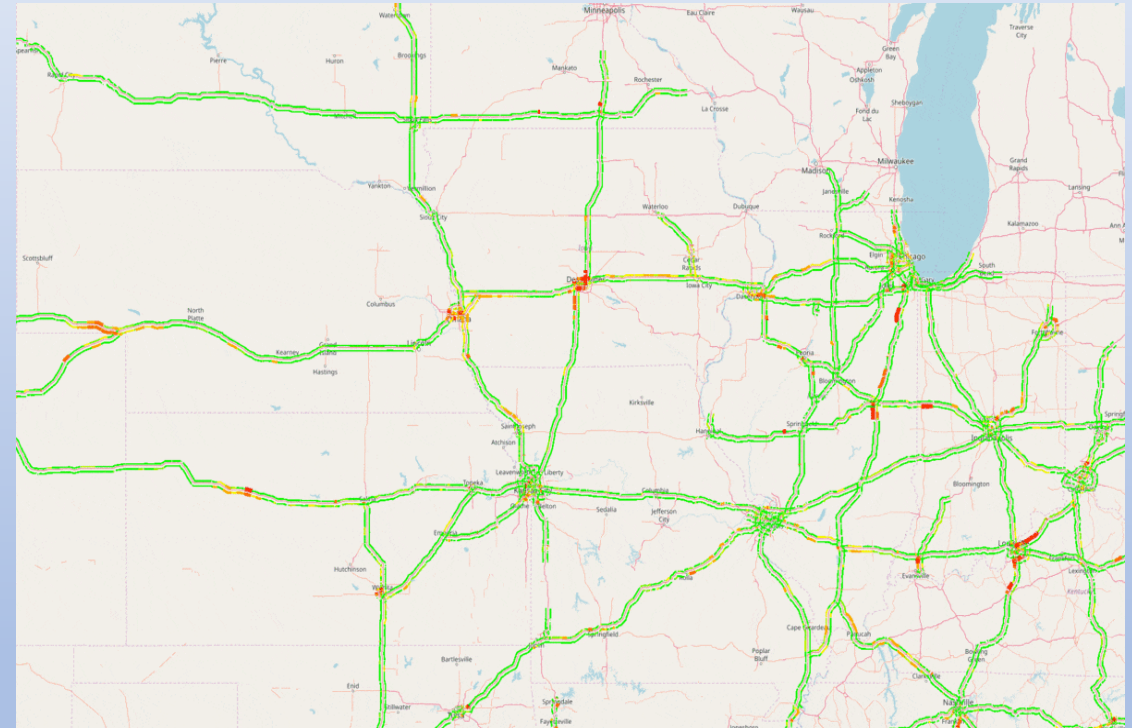
# Impacts in Medina County

- Population influx
- Increased demand for local resources
  - Fuel
  - Food (restaurants and grocery)
- Stresses to local infrastructure
  - Roadways
  - Cellular networks
- Local income generation
  - Merchandise
  - Restaurants
  - Non-profit groups



# Community Planning

- Population surge
- Local emergency operational support
  - Crowd management
  - Increased roadway hazards
  - Staffing needs and costs
- Traffic management – egress support
  - Route planning
- Local infrastructure stresses
  - How will impact normal operations?
    - Public/Private
- Health & Safety



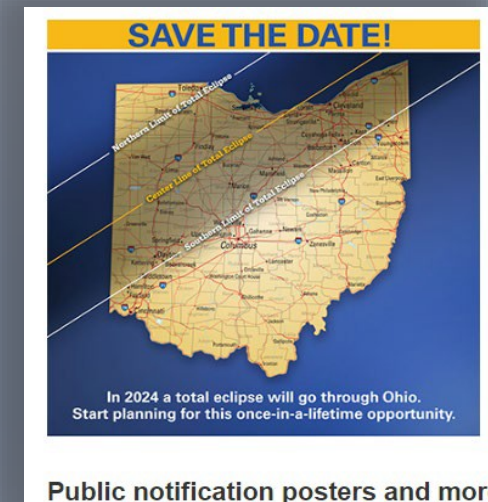
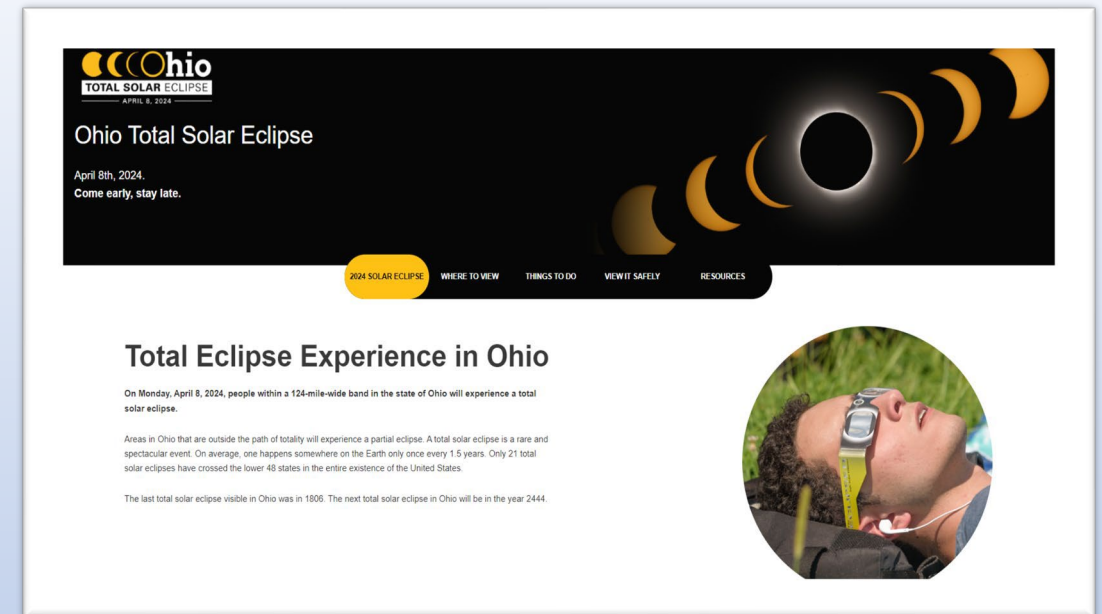
# Eye Safety

- Except during the brief total phase of a total solar eclipse, when the Moon completely blocks the Sun's bright face, it is not safe to look directly at the Sun without specialized eye protection for solar viewing.
- 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.



# State Eclipse Webpage

- Eclipse.Ohio.Gov
- Centralized location for eclipse information in Ohio
- Interactive map for searching for events and resources



# Events, Events, Events!

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- Many events in Medina over the weekend
- Viewing event at Medina Rec Center and Buckeye School Complex

Provide a reason to arrive early & stay late

