



# 2024 Total Solar Eclipse

## What

An astounding celestial spectacle! A total solar eclipse occurs when a portion of the Earth is engulfed in a shadow cast by the Moon which fully blocks sunlight. Tens of thousands of people will travel to our area to see this eclipse.

## When

Monday, April 8th, 2024 between 1 PM and 5 PM. The most impressive/important part happens between 3:15 and 3:30pm across New York State.

## Where

New York State will be one of 11 states in the contiguous US which falls in the path of totality. Outside of the direct path (Fredonia, Buffalo, Rochester, Syracuse, the Adirondacks), the rest of New York will experience 88.5 - 99.9% totality.

Impact On	
<p><b>The Wonderful Parts</b></p>	<ul style="list-style-type: none"> <li>● <b>Science</b> - Witnesses of this eclipse will go home having a new experience that could spark a passion for science, STEM, and astronomy; potentially inspiring the next generation of scientists.</li> <li>● <b>Tourism</b> - Past total solar eclipses in other cities have drawn hundreds of thousands, if not millions, of people. We expect the same turnout for New York State during the 2024 eclipse.</li> <li>● <b>The Economy</b> - The eclipse has potential to bring hundreds of millions of dollars of revenue to the area through eclipse-driven tourism and programming. Industries including restaurants, media, and retail will all reap the benefits of an increased consumer base.</li> <li>● <b>Culture</b> - The eclipse will touch every part of our lives from music, art, TV, movies, current events, news, podcasts, and more!</li> <li>● <b>Community Relations</b> - The eclipse is a great opportunity for everyone to learn more about the Sun, Moon, Earth, and our shared skies. ALL of new york state will experience this eclipse</li> </ul>
<p><b>The Challenging Parts</b></p>	<ul style="list-style-type: none"> <li>● <b>Traffic</b> - Traffic is exceptionally bad after totality (observed during 2017 eclipse). We expect heavy traffic throughout the state, especially heading west and south from the centerline of the eclipse path.</li> <li>● <b>Congestion</b> - Increase in population in unprepared areas could lead to lack of food and gas, and could potentially lead to emergencies.</li> <li>● <b>Weather</b> - April weather in New York State is a wildcard. It can be 32°F and snowy or 70°F and sunny. The eclipse will happen no matter what, but will not be visible (the awe-inspiring part) if the sun is not at least partially visible through clouds or rain.</li> </ul>



27 Counties Will Experience Totality		
<ul style="list-style-type: none"> <li>● Chautauqua</li> <li>● Cattaraugus</li> <li>● Allegany</li> <li>● Erie</li> <li>● Niagara</li> <li>● Orleans</li> <li>● Genesee</li> <li>● Wyoming</li> <li>● Livingston</li> </ul>	<ul style="list-style-type: none"> <li>● Ontario</li> <li>● Monroe</li> <li>● Wayne</li> <li>● Yates</li> <li>● Seneca</li> <li>● Cayuga</li> <li>● Onondaga</li> <li>● Oswego</li> <li>● Oneida</li> </ul>	<ul style="list-style-type: none"> <li>● Lewis</li> <li>● Jefferson</li> <li>● Herkimer</li> <li>● Hamilton</li> <li>● Jefferson</li> <li>● St. Lawrence</li> <li>● Franklin</li> <li>● Clinton</li> <li>● Essex</li> </ul>

Fredonia	Buffalo	Rochester	Syracuse
Partial Begins: 2:03 PM <b>Totally Start: 3:17 PM</b> <b>Totally End: 3:21 PM</b> Partial Ends: 4:31 PM  Totality Duration: 3 min 41 sec	Partial Begins: 2:05 PM <b>Totally Start: 3:18 PM</b> <b>Totally End: 3:22 PM</b> Partial Ends: 4:32 PM  Totality Duration: 3 min 46 sec	Partial Begins: 2:07 PM <b>Totally Start: 3:20 PM</b> <b>Totally End: 3:23 PM</b> Partial Ends: 4:33 PM  Totality Duration: 3 min 39 sec	Partial Begins: 2:09 PM <b>Totally Start: 3:23 PM</b> <b>Totally End: 3:24 PM</b> Partial Ends: 4:34 PM  Totality Duration: 1 min 27 sec

Watertown	Old Forge	Saranac Lake	Plattsburgh
Partial Begins: 2:10 PM <b>Totally Start: 3:22 PM</b> <b>Totally End: 3:26 PM</b> Partial Ends: 4:35 PM  Totality Duration: 3 min 39 sec	Partial Begins: 2:11 PM <b>Totally Start: 3:24 PM</b> <b>Totally End: 3:26 PM</b> Partial Ends: 4:35 PM  Totality Duration: 2 min 49 sec	Partial Begins: 2:12 PM <b>Totally Start: 3:25 PM</b> <b>Totally End: 3:28 PM</b> Partial Ends: 4:36 PM  Totality Duration: 3 min 30 sec	Partial Begins: 2:14 PM <b>Totally Start: 3:25 PM</b> <b>Totally End: 3:27 PM</b> Partial Ends: 4:37 PM  Totality Duration: 3 min 34 sec

Utica	Albany	NYC	Brookhaven
Partial Begins: 2:10 PM <b>Max Coverage: 3:24 PM</b> Partial Ends: 4:35 PM  Partial Eclipse Visible: 99%	Partial Begins: 2:12 PM <b>Max Coverage: 3:26 PM</b> Partial Ends: 4:37 PM  Partial Eclipse Visible: 96%	Partial Begins: 2:10 PM <b>Max Coverage: 3:35 PM</b> Partial Ends: 4:36 PM  Partial Eclipse Visible: 89%	Partial Begins: 2:12 PM <b>Max Coverage: 3:27 PM</b> Partial Ends: 4:37 PM  Partial Eclipse Visible: 88%

Fun Facts
<ul style="list-style-type: none"> <li>● The last total solar eclipse in New York was in 1925.</li> <li>● The next total solar eclipse in the United States will be 2045.</li> <li>● The next total solar eclipses in New York will be in 2079 and 2144.</li> <li>● The Haudenosaunee Confederacy is believed to have been ratified during a total, or near total, eclipse.</li> </ul>

More information can be found at <https://rochestereclipse2024.org/>