Understanding the Impact of the 2023 and 2024 Solar Eclipses

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Population access and estimated visitation on eclipse day

On August 21, 2017, a total solar eclipse crossed the United States from Oregon to South Carolina. The closest destinations for the contiguous United States are summarized, as well as high and low estimates for how many people will travel to the path of totality. The methodology for our estimates is summarized at www.GreatAmericanEclipse.com/Statistics.

The lines show the quickest drive path from population centers to the path of totality. Drive lines to destinations are color coded by state of destination. The blue circles inside the path of totality are the destinations.

Total population closest to the path of totality by destination state

The map and analysis by Michael Darby, May 2017.

Estimated visitation to each state in the path of totality on eclipse day

Visitation estimates do not include the 12 million people living in the path of totality.
How many people, by state, live inside the path of total solar eclipse?
How many people live inside and near the path of total solar eclipse?

Total Solar Eclipse
April 6, 2024

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What are the shortest drives to the path of total solar eclipse?

How many people are expected to visit, by state?

The numbers given for each state are high and low estimates for out-of-path visitation on eclipse day. The distance-decay method applied in these estimates is described at greatamericaneclipse.com/statistics.
How many people, by state, live inside the path of annular solar eclipse?

- Oregon: 1,002,000
- Idaho: 0
- California: 9,000
- Nevada: 81,000
- Arizona: 43,000
- New Mexico: 1,524,000
- Utah: 86,000
- Colorado: 32,000
- Texas: 3,855,000

Annular Solar Eclipse
October 14, 2023

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

Annular Solar Eclipse
October 14, 2023

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