

August 21, 2017 Total Solar Eclipse Personal Planner

Get **FREE** tickets for our June 17, 2017 Eclipse Expo: www.EclipseExpo.org

Do your homework:

- | | |
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| <ol style="list-style-type: none"> 1. Visit your local library <ul style="list-style-type: none"> • Books on eclipses, sun • Magazines : Astronomy, Sky & Telescope | <ol style="list-style-type: none"> 2. Visit websites: <ul style="list-style-type: none"> • stlouiseclipse2017.org • shadowandsubstance.org • eclipse2017.org • GreatAmericanEclipse.org |
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Make a plan:

1. Talk to your family, friends and teachers. See what they plan to do.
2. Decide on best viewing location where Sun will not be obstructed; consider more than one location in case there are cloudy conditions.
3. Know the exact eclipse times for each location.
4. Collect equipment on the checklist in plenty of time.

On the day of the eclipse:

1. Check the weather forecast.
2. Bring the items on your checklist.
3. Get to your viewing area early to avoid traffic.
4. Set up radio or accurate clock, seconds count!
5. Find shade for you.
6. Tie down any equipment from wind.
7. Practice safe solar viewing.
8. Record the events of the day.

City of Union, MO	
August 21, 2017	
Partial Start	11:48:26 am
Total Start	1:15:34 pm
Total Maximum	1:16:53 pm
Total End	1:18:11 pm
Partial End	2:43:16 pm
Total Duration	2m 37s

Sample Equipment Checklist	
<ol style="list-style-type: none"> 1. Viewing equipment <ul style="list-style-type: none"> – Eclipse glasses – Pinhole projector – Camera (with proper filter if you plan to photo the Sun) 2. Personal items <ul style="list-style-type: none"> – Sun glasses – Suntan lotion – Water 	<ol style="list-style-type: none"> 3. Support items: <ul style="list-style-type: none"> – Timesheet with exact eclipse times – Watch – Radio – Map – Thermometer – Notebook to record events

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USA/St. Louis Eclipse History:

- ✓ Most people who believe they recently saw a TOTAL Solar Eclipse are more likely to have seen a PARTIAL or ANNULAR Solar Eclipse:
 - The last partial eclipse in St. Louis, MO was in 2014
 - The last annular eclipse in St. Louis, MO was in 1994
- ✓ The Last TOTAL Solar Eclipse in the USA:
 - On U.S. Soil – 1991 (Hawaii, southern island only)
 - Anywhere in Continental U.S. – 1979 (West coast)
 - To go across the U.S. – 1918 (South of Missouri)
 - **In St. Louis, MO/Union, MO – 1442**
- ✓ The Next TOTAL Solar Eclipse in the USA:
 - Anywhere in Continental U.S. – **2024 (Carbondale, IL – 4m 08s; Jackson, MO – 4m 09s)**
 - **In St. Louis, MO/Union, MO – 2505**

August 21, 2017 Total Solar Eclipse:

- ✓ There will be 12 states to experience “totality”:

1. Oregon	5. Kansas	9. Tennessee
2. Idaho	6. Missouri	10. North Carolina
3. Wyoming	7. Illinois	11. Georgia
4. Nebraska	8. Kentucky	12. South Carolina
- ✓ There will be five state capitols to experience “totality”:
 1. Columbia, SC (2m 30s)
 - 2. Jefferson City, MO (2m 29s)**
 3. Nashville, TN (1m 56s)
 4. Salem, OR (1m 54s)
 5. Lincoln, NE (1m 11s)
- ✓ People who live in the direct path of totality:
 1. USA - 12 million (88 million within 200 miles of the path)
 - 2. Missouri - 3.4 million**
 - 3. St. Louis, MO/Union, MO – 1.6 million**
- ✓ The Greatest Duration of “Totality” will be 2m 40.2s in Carbondale, IL

Safety Tips:

- ✓ It is never safe to look at the Sun without proper eye protection.
- ✓ The only safe way to view a partial or annular eclipse is using a projection of the Sun (such as a pinhole projector). Filtered views of the Sun (such as eclipse glasses) can be safe too but the equipment must be properly filtered and used properly.
- ✓ Only in the “Totality” phase of a solar eclipse can you remove your eye protection.