

The Great American Solar Eclipse & Beyond: An Adventure with the Library Leadership Academy

Sarah Meador

Rawlings - Circulation Department

Circulation Assistant/Rawlings Meeting Room Coordinator

Introduction: Highlights from LLA

- Midori Clark and her presentation at the cohort meeting.
- The little girl who attended the Solar Eclipse Kickoff.
- 2 Books in the Park shifts
- IDEACon
- Most Improved Readers Awards
- Pueblo Mini Maker Faire
- Read Out Loud (4/19-20)
- The fun stuff: Outstanding Women's Luncheon, Black Tie Ball

Introduction

- I wanted to participate in the Library Leadership Academy program because I have developed a love and passion for working in a library and I want to learn more and take on roles of increasing responsibility.
- I was very excited to participate in this program, which allowed me to experience many different aspects of the library that otherwise I wouldn't have been able to experience. I have especially learned about programming and outreach. I have a particular love for programming so this has been great fun and education.

Solar Eclipse Kickoff: The Preparation

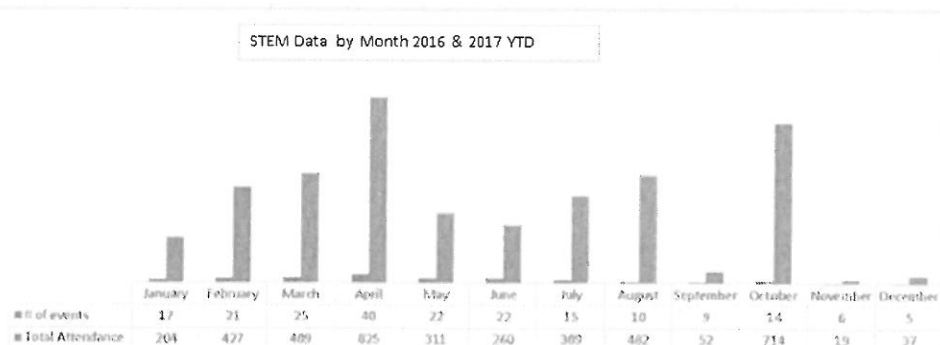
- Worked on Friends of the Library grant with Kayci Barnett – approved.
- Community Partnerships: Corresponded with Southern Colorado Astronomical Society, Juan Morales from Colorado State University-Pueblo, and Kathy Dodge from Rye High School.
- Ordered supplies with Kayci Barnett, including craft supplies and food.
- Ordered a small collection of eclipse-related books with Rich Poll and Jill Deulen.
- Research for fun space-related crafts; made a test batch of “galaxy dough”
- Work order to facilities department for courtyard setup; discussion to see what is doable.
- Met with many different staff members in different departments to discuss details; including Community Relations, Special Collections, and various individuals.
- Set up staff help from Youth Services for craft tables.
- Alerted the building of the upcoming event and what to expect.
- Finding entertainment: Bob Marsh and his airsynth.

Solar Eclipse Kickoff: In Action

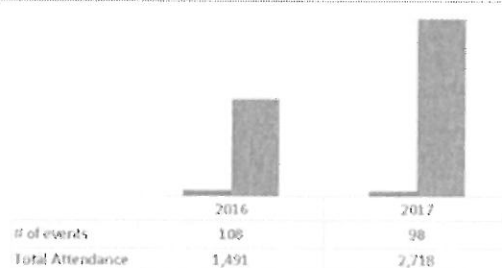
- Attendance for the Solar Eclipse Kickoff was 162 people. Attendance for the sister program just after the kickoff, "Say it With Stars: An Astronomy-Inspired Fiction/Poetry Reading," was 18 people.
- The food and galaxy dough were the most popular happenings.
- Many people showed up to ask questions and Kathy Dodge, a science teacher from District 70, did a wonderful job answering those questions. She also gave a brief announcement with important facts about the upcoming eclipse.
- Bob Marsh and his airsynth did some great ambient sound in the background.
- It looked like it might rain so we ended up moving the event inside, and held both events in the Ryals room.

Solar Eclipse Kickoff: For the Future

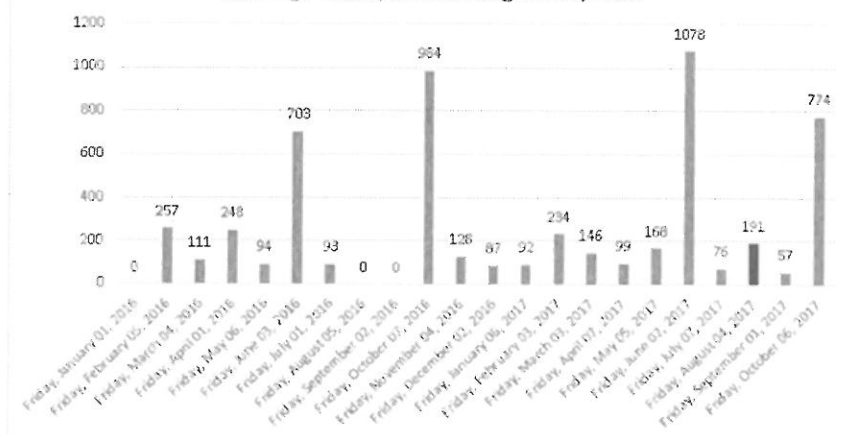
- Keeping on top of community partnerships; Southern Colorado Astronomical Society.
- Separate food for the poetry event.
- More active planning for the readers for the poetry event.
- More active searching for community partnerships; get involved.
- Those sneaky details! (Measuring cups.)
- Earlier marketing.
- To bring in people doing the First Friday Art Walk, ideal time is more around 5-5:30
- Announcement introduction at the beginning to bring attention to the outcomes survey.
- Vendors?

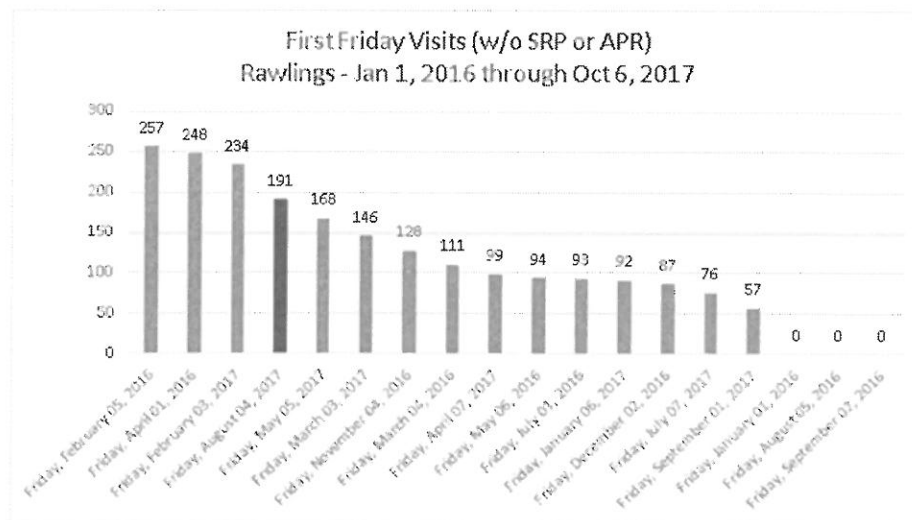
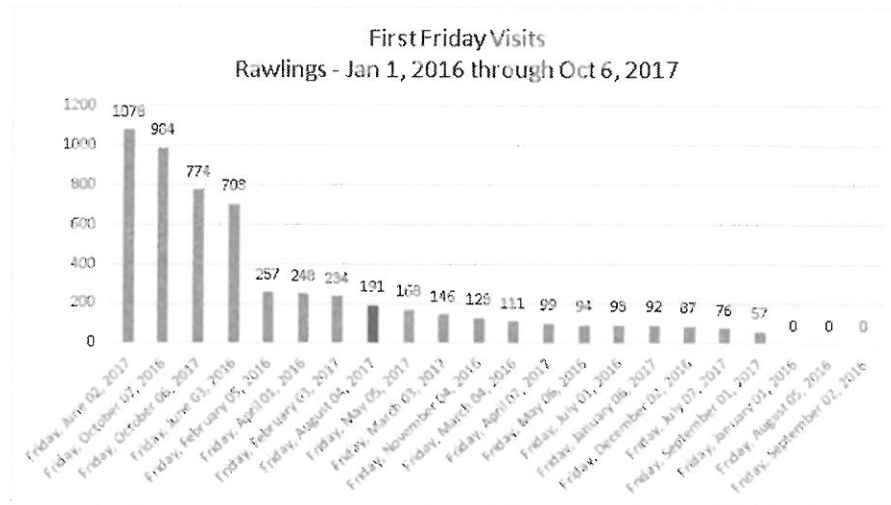


STEM Data 2016 & 2017 YTD



First Friday Visits
Rawlings - Jan 1, 2016 through Oct 6, 2017





August Newsletter Cover

A copy of the cover of the August newsletter, with descriptions on the library programs relating to the Great American Solar Eclipse. Also includes the Pueblo Arts Alliance list.

PUEBLO CITY-COUNTY Library

news & events

August 2017

PRINTED THANKS TO THE GENEROUS SUPPORT OF FRIENDS OF THE LIBRARY

Locations Key:

AV Avondale Satellite
BK Barkman

BS Beulah Satellite
GI Giodone
LU Lucero

LA Lamb
LY Library @ the Y
GV Greenhorn Valley

PW Pueblo West
RA Rawlings

Solar eclipse fun at the library!

Out of this World First Friday Art Walk

Friday, Aug. 4, 5-7 p.m., RA, Courtyard

Family event. Enjoy live music, appetizers and see beautiful prints of planets and galaxies. Visit the Discover Tech exhibit and learn about the upcoming solar eclipse.

Say it With Stars: An Astronomy-Inspired Fiction/Poetry Reading

Friday, Aug. 4, 5-7 p.m., RA, InfoZone Theater -4th floor

Get excited for the Great American Solar Eclipse by listening to local writers read short pieces relating literally or thematically to space and astronomy. Refreshments provided. This event is part of the Out of this World First Friday Art Walk.

Build a Solar Eclipse (All ages)

Friday, Aug. 4, 4-5 p.m., RA, Youth Program Room

Wednesday, Aug. 9, 2-3 p.m., GV; 4-5 p.m., GI

Friday, Aug. 11, 3-4 p.m., BK

Saturday, Aug. 12, 10 a.m.-noon, Library @ the Y

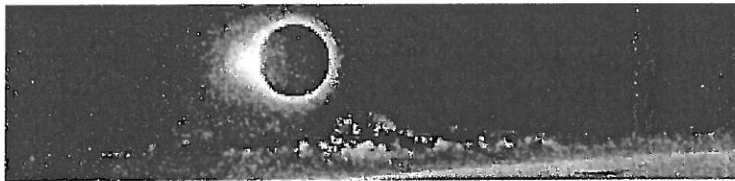
Wednesday, Aug. 16, 4:30-5:30 p.m., LU

Thursday, Aug. 17, 5-6 p.m., RA, Idea Factory-2nd floor

Saturday, Aug. 19, 3-4 p.m., LB

Monday, Aug. 21, 11 a.m.-1 p.m., PW

Build scale models of the Earth, moon and sun to create a solar eclipse.



The Great American Solar Eclipse

Thursday, Aug. 10, 6:30-8:30 p.m., RA, InfoZone

Theater -4th floor



Edwardo Griego Junlajuj B'atz will give a presentation on the first solar eclipse that will cross America in 99 years which will happen on August 21. Edwardo will explain the eclipse and how it will vary from about 60-70 miles wide across the United

States and why there is so much interest in this solar eclipse. He will explain where you can see it from, what it will look like, how long it will last and safety precautions.

Observe the Solar Eclipse

Monday, Aug. 21

all locations 11 a.m.-noon

All library locations will have solar viewing glasses for safe viewing of the eclipse, which hits 90 percent totality around 11:45 a.m. Join others to view this beautiful phenomenon!

Monday, Aug. 21, all day, RA, InfoZone Theater -4th floor

Watch live NASA video streams of the total eclipse that includes broadcasts covering a dozen sites!



Coming soon—upgrades to Rawlings Library's second floor

Carpet will be replaced in the computer area on the second floor of the Rawlings Library starting Aug. 6. The computers will temporarily move to the first-floor Thurston Room during this period, which will last approximately one week. We apologize for any inconvenience.

Hours:

Monday – Thursday
9 a.m. to 9 p.m.

10 a.m. to 7 p.m. (Greenhorn,
Giodone and Lucero only)

Friday & Saturday

9 a.m. – 6 p.m.

10 a.m. – 6 p.m. (Greenhorn,
Giodone and Lucero only)

Sunday (Rawlings only)
1 – 5 p.m.

Phone: 562-5600

Locations:

Barkman Library
1300 Jerry Murphy Dr.

Greenhorn Valley Library
4801 Cibola Dr.
Colorado City, Colo.

Giodone Library
24655 U.S. Hwy 50 E.

Lamb Library
2525 S. Pueblo Blvd.

Library @ the Y
3200 Spaulding

Lucero Library
1315 E. 7th St.

Pueblo West Library
298 S. Joe Martinez Blvd.

Rawlings Library
100 E. Abriendo Ave.

Satellite library locations:
Avondale Elementary
213 Hwy. 50 E.

Beulah School
8734 Schoolhouse Ln.

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Doreen Martinez, VP
Marlene Bregar
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Monica Ayala, Secretary
Leslie Carroll, Treasurer

www.pueblolibrary.org



PRESS NEWS

For Further Information:
Daniel Levinson
Executive Director
(719) 242-6652
Daniel@PuebloArts.org

FOR IMMEDIATE RELEASE:
Tuesday, July 18, 2017

AUGUST FIRST FRIDAY ART WALK: LIVE MUSIC, LIVE PAINTING, OUTER SPACE AND MORE

PUEBLO, Colo. — The Pueblo Creative Corridor's First Friday Art Walk festivities begin at 5 p.m. on August 4. Stroll the sunny streets of downtown Pueblo and visit more than 35 art galleries, restaurants and businesses throughout the Creative Corridor. First Friday Art Walk activities are free.

Pueblo's First Friday Art Walk features more than paintings, photography, fiber arts, sculpture, glass and pottery. Many of the Creative Corridor's art galleries and shops have special demonstrations of live art activities. There will be newly hung shows, refreshments, live music and entertainment. Visitors create their own walking art tour of a variety of locations by starting at one gallery, picking up a free Creative Corridor Explorer's Guide, and traveling on to another destination after mingling with the artists. The free guide is available in galleries and participating businesses and includes a plan of activities and a map. More information can be found at PuebloArts.org or follow on www.facebook.com/PuebloArts. For information on the Pueblo Creative Corridor, call 855-543-2430 or find at www.facebook.com/PuebloCreativeCorridor.

Mesa Junction District

Featuring live music by November Sky from 5 – 8 p.m.! They will be performing classic and contemporary hits in front of Artisan Textile Co.

Artisan Textile Co., 121 Broadway Ave.— Presenting new works by our Artists in Residence! Check out handmade clothing, jewelry, greeting cards and gifts by Colorado artisans. Refreshments served.

Renewed Wholesale, 720 S. Main St.—Hosting a wine tasting fundraiser benefitting the Boys & Girls Club of Pueblo. All community members are welcome to attend and support this cause! Tickets are \$25 per person in advance and \$30 at the door. For tickets or information, call 719-564-0055 Ext. 107.

Robert Hoag Rawlings Public Library, 100 E. Abriendo Ave.—Get *Out of this World* during First Friday Art Walk! This family-friendly event features live music, appetizers and beautiful prints of planets and galaxies of the universe. Visit the Discover Tech exhibit and learn about the upcoming solar eclipse! 5 to 7 p.m. in the courtyard.

Say it with Stars: An Astronomy-Inspired Fiction/Poetry Reading will be held from 5:45 to 8:45 p.m. in the InfoZone Theater on the 4th floor. Get excited for the Great American Solar Eclipse by listening to local writers read short pieces relating literally or thematically to space and astronomy. Refreshments served.

Union Avenue Historic District

Featuring live music by the Change Agents on the corner of Union Avenue and C Street!

Arts Alliance Studios, 107 S. Grand Ave.—Bridged by Design collaborative studio will present works by local artists available for sale. Also featuring live painting, sidewalk dancing and more!

All Clay a.k.a. Cristine Boyd will be working in her studio until 7 p.m. Come watch her make original, functional art! All Clay is now distributing Continental Clay in Pueblo. For more information, visit her studio during the Art Walk, or call (720) 320-2407.

Soulga will present a fitness class at 5:30 p.m. Call (719) 582-4180 for information.

The Hanging Tree Café, 209 S. Union Ave.— Celebrate our local talent at monthly open mic, featuring Lillie Lemon and Randall Rahn! Sign-up begins at 5:30 p.m.

John Deaux Art Gallery and Turf Exchange Visual Arts Center, 221 S. Union Ave.— As you view new works by the gallery artists, enjoy live music by Nuthatch Pants upstairs in John Deaux Art Gallery while Tom Boyd performs on his Marxophone downstairs in the Turf Exchange. Check out Radeaux's latest large-format painting "Condor, Thunderbird" upstairs—it's a stunning 15' x 5'!

RazMaTaz, 335 S. Union Ave.— Showcasing handcrafted wood pieces by local artist Susie Lindkowski. Refreshments served.

Southeastern Heritage Center & Museum, 201 W. "B" Street— Artist Janice Smith will exhibit *A Lifetime of Art* during the month of August at the museum. Her show will include paintings over the last 4 decades in four different mediums. Smith's love of color and light is revealed in her many works of art.

Steel City Art Works, 216 S. Union Ave.— Opening reception for *Collective Perspective*, unique artistic viewpoint of downtown Pueblo and the surrounding area through the eyes and works of four artists, including architectural photography by Linda Cates, acrylics of alleys by June Galaz, acrylics of people and shops by Diana LaMorris, and places to visit by sculptor and metal artist Lionel Trujillo.

Downtown Area/Main Street District

Formulary 55, 423 W. 4th St.— Explore their line of locally made small-batch bath and beauty products during their one open studio day a month! Noon to 7 p.m. in their showroom.

The sponsors for the 2017 First Friday Art Walk are: Pueblo Urban Renewal Authority, Colorado State University-Pueblo, Legacy Bank, Pueblo Events, Pueblo Arts Alliance, Colorado Creative Industries and National Endowment for the Arts. Pueblo Arts Alliance's mission is to promote and collaborate in the development of the arts economy in Pueblo. As administrator of the Pueblo Creative Corridor, a Colorado Certified Creative District, the Arts Alliance is supported by Colorado Creative Industries.

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PHOTO ATTACHMENTS:

1. "Pueblo Alleys" by June Galaz
2. "Pots on Wall" by Linda Cates
3. Change Agents. Photo by Misty Viles.
4. Natasha of November Sky. Photo by Misty Viles.

Kickoff Handouts

Includes two documents provided at the Solar Eclipse Kickoff; instructions for the galaxy dough project, and a list of 'Solar Eclipse Vocabulary.'

Solar Eclipse Vocabulary

annular eclipse - A solar eclipse in which the Moon's antumbral shadow traverses Earth (the Moon is too far from Earth to completely cover the Sun). During the maximum phase of an annular eclipse, the Sun appears as a blindingly bright ring surrounding the Moon.

annularity - The maximum phase of an annular eclipse during which the Moon's entire disk is seen silhouetted against the Sun. Annularity is the period between second and third contact during an annular eclipse. It can last from a fraction of a second to a maximum of 12 minutes 29 seconds.

antumbra - The antumbra is that part of the Moon's shadow that extends beyond the umbra. It is similar to the penumbra in that the Sun is only partially blocked by the Moon. From within the antumbra, the Sun appears larger than the Moon which is seen in complete silhouette. An annular eclipse is seen when an observer passes through the antumbra.

Besselian elements - The Besselian elements are a series of time dependent variables used to calculate various aspects of a solar eclipse. They describe the movement of the Moon's shadow with respect to the fundamental plane. This plane passes through the center of Earth and is oriented perpendicular to the Moon's shadow axis. Next, the shadow cone is projected onto Earth's surface including the effects of Earth's rotation, the flattening of Earth and the latitude, longitude and elevation of the observer. The local circumstances at the observer's position can then be calculated including the eclipse contact times, eclipse magnitude and the duration of totality (or annularity).

center of figure - The center of figure of a celestial body (e.g., planet, moon) is the apparent center of the object with respect to its surface and takes into account irregularities in its shape. If the distribution of mass is not uniform, then the *center of mass* does not coincide with the *center of figure*. In the case of the Moon, the offset between the *center of mass* and *center of figure* is ~0.5 kilometers.

center of mass - In orbital mechanics, the equations of motion of celestial bodies (stars, planets, moons, etc.) are formulated as point masses located at the centers of mass. In other words, the motion of a celestial body can be predicted assuming the object's entire mass is concentrated into one single point called the *center of mass*.

central eclipse - A solar eclipse in which the central axis of the Moon's shadow cone traverses Earth thereby producing a central line in the eclipse track. The umbra or antumbra falls entirely upon Earth so the ground track has both a northern and southern limit. Central solar eclipses can be either total, annular or hybrid.

central eclipse (one limit) - A solar eclipse in which the central axis of the Moon's shadow cone traverses Earth. However, a portion of the umbra or antumbra misses Earth throughout the eclipse and the resulting ground track has just one limit. Central solar eclipses with one limit can be either total, annular or hybrid.

central line - During a central solar eclipse, the central axis of the Moon's shadow cone traverses Earth's surface. The track produced by the shadow axis is called the central line of the eclipse. The duration of a total or annular eclipse is longest on the central line (neglecting Earth's curvature and effects introduced by the direction of the shadow with respect to the Equator) and drops to 0 as the observer moves to the path limits.

eclipse magnitude - Eclipse magnitude is the fraction of the Sun's diameter occulted by the Moon. It is strictly a ratio of diameters and should not be confused with eclipse obscuration, which is a measure of the Sun's surface area occulted by the Moon. Eclipse magnitude may be expressed as either a percentage or a decimal fraction (e.g., 50% or 0.50). By convention, its value is given at the instant of greatest eclipse.

eclipse obscuration - Eclipse obscuration is the fraction of the Sun's area occulted by the Moon. It should not be confused with eclipse magnitude, which is the fraction of the Sun's diameter occulted by the Moon. Eclipse obscuration may be expressed as either a percentage or a decimal fraction (e.g., 50% or 0.50).

eye safety - The only time that the Sun can be viewed safely with the naked eye is during a total eclipse, when the Moon completely covers the disk of the Sun. It is never safe to look at a partial or annular eclipse, or the partial phases of a total solar eclipse, without the proper equipment and techniques. Even when 99% of the Sun's surface (the photosphere) is obscured during the partial phases of a solar eclipse, the remaining crescent Sun is still intense enough to cause permanent retinal damage, especially when viewed through binoculars or other optical aids.

first contact - The instant when the partial phase of an eclipse begins.

fourth contact - The instant when the partial phase of an eclipse ends.

gamma - Gamma is the distance of the Moon's shadow axis from Earth's center in units of equatorial Earth radii. It is defined at the instant of greatest eclipse when its absolute value is at a minimum,

greatest duration - *Greatest Duration* (GD) is defined as the instant when the length of the total (or annular) phase reaches a maximum along the central path of a solar eclipse. The computation of the eclipse duration is typically done using a smooth edge for the Moon that ignores the effects of mountains and valleys along the lunar limb. Although the location of *Greatest Duration* may be relatively close to the point of *Greatest Eclipse*, it differs because of a combination of factors including the relative motion of the Moon's shadow with respect to the curvature of Earth's surface and to Earth's Equator. The length of the total (or annular) eclipse calculated at *Greatest Duration* typically differs by ~1-2 seconds compared with *Greatest Eclipse*, and the geographic location may differ by ~10-100 kilometers or more. Under certain conditions, the instant of *Greatest Duration* for some annular eclipses can occur at either end of the eclipse path at sunrise or sunset. There is no explicit or analytical solution for the determination of *Greatest Duration*. It may be calculated through an iterative series of approximations. When the highest accuracy is needed, a *Corrected Greatest Duration* (GDC) must be calculated that includes the effects of the Moon's *limb profile*, which may differ by a couple seconds from the uncorrected value.

greatest eclipse - For solar eclipses, *Greatest Eclipse* (GE) is defined as the instant when the axis of the Moon's shadow cone passes closest to Earth's center. The computation of the duration of the total (or annular) phase at this point is typically done using a smooth edge for the Moon that ignores the effects of mountains and valleys along the lunar limb. For total eclipses, the instant of *Greatest Eclipse* offers a good approximation (typically ~1-2 seconds) to the *Greatest Duration* of totality along the entire eclipse path. The instant of *Greatest Eclipse* is easily calculated for total, annular and partial eclipses, and is the standard time used for comparing different eclipses with each other.

For annular eclipses, the instant of *Greatest Duration* may occur either near the time of *Greatest Eclipse* or near the sunrise and sunset points of the eclipse path.

For lunar eclipses, *Greatest Eclipse* is defined as the instant when the Moon passes closest to the axis of Earth's shadow.

hybrid eclipse - A solar eclipse in which the Moon's umbral and antumbral shadows traverse Earth (the eclipse appears annular and total along different sections of its path). Hybrid eclipses are also known as annular-total eclipses. In most cases, hybrid eclipses begin as annular, transform into total, and then revert back to annular before the end of their track. In rare instances, a hybrid eclipse may begin annular and end total, or vice versa.

non-central eclipse (one limit) - A solar eclipse in which the central axis of the Moon's shadow cone misses Earth. However, one edge of the umbra or antumbra grazes Earth thereby producing a ground track with one limit and no central line. Non-central solar eclipses can be either total, annular or hybrid. (Partial eclipses can also be considered non-central eclipses in which only the penumbral shadow traverses Earth's surface)

partial eclipse - A solar eclipse in which the Moon's penumbral shadow traverses Earth (umbral and antumbral shadows completely miss Earth). During a partial eclipse, the Moon appears to block part (but not all) of the Sun's disk.

From the prospective of an individual observer, a partial eclipse is one in which the observer is within the penumbral shadow but outside the path of the umbral or antumbral shadows.

penumbra - The penumbra is the weak or pale part of the Moon's shadow. From within the penumbra, the Sun is only partially blocked by the Moon as in the case of a partial eclipse. This contrasts with the umbra, where the Sun is completely blocked resulting in a total eclipse.

saros - The periodicity and recurrence of solar (and lunar) eclipses is governed by the Saros cycle, a period of approximately 6,585.3d (18yr 11d 8h). When two eclipses are separated by a period of one Saros, they share a very similar geometry. The eclipses occur at the same node with the Moon at nearly the same distance from Earth and at the same time of year. Thus, the Saros is a useful tool for organizing eclipses into families or series. Each series typically lasts 12 or 13 centuries and contains 70 or more eclipses.

For more information, see [Eclipses and the Saros](#). The [Saros Catalog of Solar Eclipses: Saros 0 - 180](#) provides complete details for all current Saros cycles.

second contact - The instant when the total or annular phase of an eclipse begins.

third contact - The instant when the total or annular phase of an eclipse ends.

total eclipse - A solar eclipse in which the Moon's umbral shadow traverses Earth (Moon is close enough to Earth to completely cover the Sun). During the maximum phase of a total eclipse, the Sun's disk is completely blocked Moon. The Sun's faint corona is then safely revealed to the naked eye.

totality - The maximum phase of a total eclipse during which the Moon's disk completely covers the Sun. Totality is the period between second and third contact during a total eclipse. It can last from a fraction of a second to a maximum of 7 minutes 32 seconds.

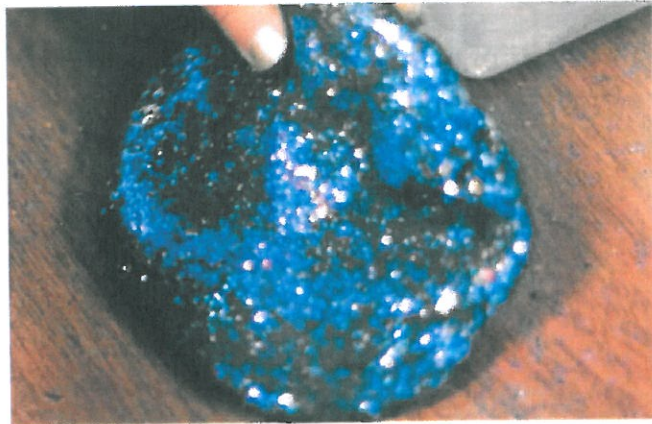
umbra - The umbra is the darkest part of the Moon's shadow. From within the umbra, the Sun is completely blocked by the Moon as in the case of a total eclipse. This contrasts with the penumbra, where the Sun is only partially blocked resulting in a partial eclipse.

Galaxy Dough

This play material requires no cooking and can be made in just a few minutes. Using baby oil in this recipe produces a much smoother dough than what you might be used to, and it also has a delightful smell. Adding a few drops of glycerin makes the dough really shiny and stretchy.

Materials

- 2 cups of flour
- 1/2 cup of salt
- 1 & 1/2 cups of boiling water
- 2 tbsp of baby oil
- 2 tbsp cream of tartar
- Black food coloring {or liquid watercolors}
- 3-5 drops of Glycerin
- Glitter (we used purple, silver, gold, & red)



List of Materials Purchased

A list of books relating to the solar eclipse that I looked up and ordered with help from Rich Poll. Here I have arranged them in order of most to least checkouts since time of purchase.

Title	Author	ISBN	Call Number	Item ID	# Checkouts (since purchase)
In the Shadow of the Moon: The Science, Magic, and Mystery of Solar Eclipses	Anthony Aveni	9780300223194	523.78 A	0222001748003	10
Totality: The Great American Eclipses of 2017 and 2024	Mark Littmann	9780198795698	523.78 L	0222001747971	10
American Eclipse: A Nation's Epic Race to Catch the Shadow of the Moon and Win the Glory of the World	David Baron	9781631490163	523.78 B	0222001749308	9
The Total Skywatcher's Manual: 275+ Skills and Tricks for Exploring Stars, Planets, and Beyond	Astronomical Society of the Pacific	9781616288716	522 S	0222001749852	9
Mask of the Sun: The Science, History, and Forgotten Lore of Eclipses	John Dvorak	9781681773308	523.78 D	0222001749837	8
The Under-Standing of Eclipses	Guy Ottewell	97809334546744	523.99 O	0222002254050	6
Sun Moon Earth: The History of Solar Eclipses from Omens of Doom to Einstein and Exoplanets	Tyler Nordgren	9780465060824	523.78 N	0222001747989	6
The Astrophotography Sky Atlas	Charles Bracken	9781517687809	522.63 B	0222002254068	4
Jackson Hole Total Eclipse Guide: Commemorative Official Guidebook	Aaron Linsdau	9781944986049	523.78 L	0222002254084	4
Total Solar Eclipse 2017: Your Guide to the Next US Eclipse	Marc Nussbaum	978062513729	523.78 N	0222002254282	3
Solar Science – Exploring Sunspots, Seasons, Eclipses, and More	Dennis Schatz	9781941316078	523.707 S	0222002254076	3
Total Addiction: The Life of an Eclipse Chaser	Kate Russo	9783642304811	523.78 R	0222002254043	3
Go See the Eclipse: And Take a Kid with You	Chap Percival	9780986197529	523.78 P	0222002254035	2

Budget Justification & Spending List

A copy of the budget justification for the Friends grant for the kickoff and astronomy kits, as well as a list of what was spent on the kickoff.

Budget Justification for Pueblo Library Mini-Grant Request, b

Item	Cost	Quantity needed	total cost	Justification
Play Doh	\$ 25.27	2	\$ 50.54	\$25.27 for 36 cans of Play Doh, the activity requires 6 cans of play doh so for every one of the 7 locations to get 6 cans then we'd need two sets of the mega pack, extra for outreach
Totes for the Astronomy Kits	\$ 30.34	7	\$ 212.38	Sturdy totes are a must for the library branches to store the activities and access them with frequency. The telescope in the box is 19", and put together is 24" so it will be able to be kept in this tote to keep it safe in between programs.
Yardstick Eclipse Activity	\$ 35.00	2	\$ 70.00	A program activity for the kit that includes a yardstick that can also be used in the play doh activity. It is \$35 for 5 sets of the materials.
Clip-on lamp	\$ 15.50	7	\$ 108.50	A lamp is needed for the yardstick activity, and can be used for other activities that involve sun and light. This one can be clipped on, or placed on a table.
Night Sky Planisphere	\$ 9.95	7	\$ 69.65	A suggestion from a member of the SCAS, it is an easy way for beginners to start identifying stars. This one is designed for Pueblo's latitude.
galileoscope	\$ 49.95	7	\$ 349.65	A telescope designed by educators for beginners, and from this store it comes with a solar filter so the eclipse could be safely viewed.
Pocket Sky and Telescope Sky Atlas	\$ 14.95	7	\$ 104.65	Includes 80 charts and 30,000 stars. 1 for all the kits.
Astronaut Ice Cream	\$ 500.00	1	\$ 500.00	Bulk case of 200 packs of astronaut ice cream, enough for 28 packs in each tote, sure to get the kids excited about space.

Catering for Astronomy Art Walk event	\$ 500.00	1	\$ 500.00	Food to entice people to come in and interact with the different astronomy programs. Est. attendance 200 people.
Band for Astronomy Art Walk	\$ 400.00	1	\$ 400.00	2 hours of a local band for the family night event.
Catering for Astronomy Kit Training	\$ 5.35	15	\$ 80.25	One person from each location, plus 8 for instructors and others who might want to attend. El Nopal catering. For three appetizers it is \$5.35 per person with chips and salsa.
Total Requested			\$ 2,445.62	

y Kayci Barnett

Item Source	Program Source
Mega-Amazon-Exclusive/dp/B00JM5GZGW/ref=sr_1_3?s=toys-and-games&ie=UTF8&qid=1484677783&sr=1-3&keywords=play+doh	https://stardate.org/sites/default/files/pdfs/teachers/ScaleModels.pdf
http://www.usplastic.com/catalog/item.aspx?sku=53016&gclid=CIn-qleFytECFdO3wAodnhQOqw	
https://www.astrosociety.org/products-page/asp-educational-products-asp-educational-products/yardstick-eclipse-activity/	https://nightsky.jpl.nasa.gov/download-view.cfm?Doc_ID=327
https://www.google.com/webhp?sourceid=chrome-instant&ion=1&espv=2&ie=UTF-8#q=clip+on+lamp&tbm=shop&spd=2374946565789579368	
https://www.astrosociety.org/products-page/asp-educational-products-asp-educational-products/the-night-sky-planisphere-large-30-40/	
https://www.rainbowsymphonystore.com/products/galileoscope	
https://www.astrosociety.org/products-page/asp-educational-products-asp-educational-products/sky-telescopes-pocket-sky-atlas/	
http://www.funkyfoodshop.com/astronaut-cream-bulk-c-55.html	
https://www.kingsoopers.com/onlinedeli/servelet/en/delibakery/party-platters	

Budget Justification for Pueblo Library Mini-Grant Request, by Kayci Barnett

Item	Cost	Quantity needed	total cost	Justification	Item Source	Program Source	actual cost
Play Doh	\$ 25.27	2	\$ 50.54	\$25.27 for 36 cans of Play Doh, the activity requires 6 cans of play doh so for every one of the 7 locations to get 6 cans then we'd need two sets of the mega pack, extra for outreach	Mega-Amazons Exclusive/doi/B06JMF5GZW/ref=sr_1_32 s=toys-and-games&ie=UTF8&qid=1484677793&sr=1-13&keywords=play+doh	https://stardate.org/sites/default/files/pdfs/teachers/ScaleModels.pdf	50.54
Totes for the Astronomy Kits	\$ 30.34	7	\$ 212.38	Sturdy totes are a must for the library branches to store the activities and access them with frequency. The telescope in the box is 19" and put together is 24" so it will be able to be kept in this tote to keep it safe in between programs.	http://www.usplastic.com/catalog/item.aspx?sku=53016&qcid=Cln-qleFyECFgO3wAqdnhQOgw		224.14
Yardstick Eclipse Activity	\$ 35.00	2	\$ 70.00	A program activity for the kit that includes a yardstick that can also be used in the play doh activity. It is \$35 for 5 sets of the materials.	https://www.astrosociety.org/products-page/asp-educational-products-asp-educational-products/yardstick-eclipse-activity/	https://nightsky.jp/nasa.gov/download-view.cfm?Doc_ID=327	70
Clip-on lamp	\$ 15.50	7	\$ 108.50	A lamp is needed for the yardstick activity, and can be used for other activities that involve sun and light. This one can be clipped on, or placed on a table.	https://www.google.com/webhp?sourceid=chrome-instant&ion=1&esp=2&ie=UTF-8#q=clip+on+lamp&btn=shop&spid=2374946565789579363	https://www.amazon.com/Limelights-LD2001-BLK-Flossy-Flexible-Gooseneck/dp/B00HR5P6R8/ref=sr_1_10?ps=1&ie=UTF8&qid=1491583988&sr=8-10&keywords=clip+on+lamp&refinements=p_85%3A2470955011	57.61
Night Sky Planisphere	\$ 9.95	7	\$ 69.65	A suggestion from a member of the SCAS, it is an easy way for beginners to start identifying stars. This one is designed for Pueblo's latitude.	https://www.astrosociety.org/products-page/asp-educational-products-asp-educational-products/the-night-sky-planisphere-large-30-40/		69.65

galileoscope	\$ 49.95	7	\$ 349.65	beginners, and from this store it comes with a	products/galileoscope	349.65
Pocket Sky and Telescope Sky Atlas	\$ 14.95	7	\$ 104.65	Includes 80 charts and 30,000 stars. 1 for all the kits.	https://www.astronomysociety.org/products-2298/asp-educational-products.asp?educational-products/skytelescope-pocket-sky-atlas/	104.65
Astronaut Ice Cream	\$500.00	1	\$ 500.00	Bulk case of 200 packs of astronaut ice cream, enough for 28 packs in each tote, sure to get the kids excited about space.	http://www.funkyfoodshop.com/astronaut-cream-bulk-50.html	996.24
Catering for Astronomy Art Walk event	\$500.00	1	\$ 500.00	Food to entice people to come in and interact with the different astronomy programs. Est. attendance 200 people.	https://www.kingscoasters.com/online-delivery/entertainment/daily-platters	347.83
Band for Astronomy Art Walk	\$400.00	1	\$ 400.00	2 hours of a local band for the family night event.		200 req 5607 asked for check to be held
Catering for Astronomy Kit Training	\$ 5.35	15	\$ 80.25	One person from each location, plus 8 for instructors and others who might want to attend. El Nopal catering. For three appetizers it is \$5.35 per person with chips and salsa.		90.15
Total Requested			\$2,445.62			2500
tripod	\$ 16.99	7	\$ 118.93	100lb Lightweight Tripod	total granted	1564.22
					total spent requester	50.66
					shipping from purchases	124.41
					po #54114 stuff for crafts	149.45
					5451 more crafts	213.72
					5506 re supply crafts	9.44
					5508 folders	38.87
					5524 more paracord	25.73
					5533 glycerine and paper	14.96
					paper re order -credit	18.88
					walmart	150.27
					7/14 stuff for galaxie dough	100
					walmart food for kick off	
					baby wipes	
					solar glasses	

America's Historical Newspapers

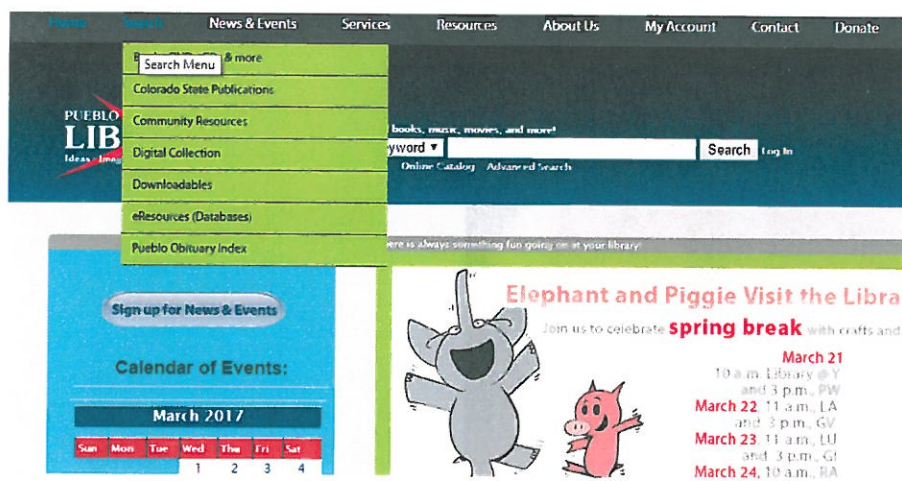
I was assigned a database to write a set of instructions for. This is a copy of the document I created to help navigate the database, "America's Historical Newspapers."

America's Historical Newspapers

America's Historical Newspapers is a database that allows users to search articles from newspapers published across three centuries in all 50 states. Articles include advertisements, birth notices, matrimony notices, and more.

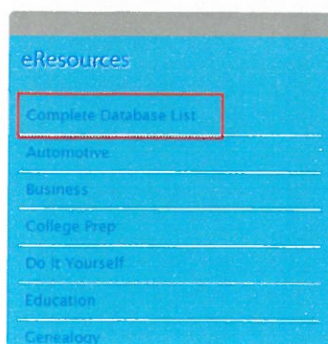
Access America's Historical Newspapers

From the library's homepage on pueblolibrary.org, scroll over the **Search** option on the options bar at the top.



On the green drop-down menu, click the option **eResources (Databases)**. This will bring you to the main database page. To find America's Historical Newspapers, click on Complete Database List on the left menu.

Online Resources and Databases



Miss Humblebee's Academy
online kindergarten-re

Math, Science and Social Studies

Miss Humblebee's Academy
phones, iPads, and tablets. TI

<http://www.pueblolibrary.org>

America's Historical Newspapers will be near the top of the list.

Home > Search > Advanced Search

Complete List of Online Resources

A-D E-G H-K L-N O-R S-V W-Z

3M Cloud Library

Downloadable e-book service for most popular devices and computers (Apple, iPad, Kindle, Nook, etc.). The library offers various thousands of popular titles, news titles and classics. This service includes both e-book and e-audio books for checkout.

Academic Search Premier

Academic Search Premier contains full-text articles for nearly 4,000 journals including a 600 scholarly peer-reviewed journals.

America's Historical Newspapers

Continually expanding, it offers searchable digital facsimiles of thousands of titles from all 50 states. With eyewitness reporting, editorials, letters, advertisements, obituaries and much more, this acclaimed collection uniquely chronicles the evolution of American culture and daily life from 1690 to the recent past.

Simple Search

Home > [America's Historical Newspapers](#)

America's Historical Newspapers

Explore the nation's past in unprecedented ways

[clear all](#) [advanced search](#)

- Search and browse American newspapers published across three centuries
- Includes thousands of titles from all 50 states
- Chronicles the evolution of American culture and daily life from 1690 to the recent past

For the simple search function, simply type in your search word or term into the provided search box and click “Go!”

Advanced Search

Home > America's Historical Newspapers

America's Historical Newspapers

Explore the nation's past in unprecedented ways

Sort: [add row](#) [remove row](#) [clear all](#) [simple search](#)

For an advanced search, click the **advanced search** option just under the right side of the search box. Now you can type in multiple search terms.

Search with Limits

A search can be narrowed down using limits. These can be found at the bottom of the home page. These limits include:

- Dates and eras
- Newspaper titles
- Placed of publication
- Article types
- Languages

Limits are especially useful when your search is very specific. For example, you might only be looking for articles published in the Pueblo Chieftain, or during the Early Colonial Era.

Limits – Dates and Eras

Limit your search by one or more:

dates and eras

newspaper titles

places of

Dates and Eras

article types

languages

te Range

Eras In the History of the Caribbean

U.S. Presidential Eras

Eras In American History

Limiting your search by **dates and eras** allows you to narrow down your search by a specific time period.

Limits – Newspaper Titles

Limit your search by one or more

dates and eras	newspaper titles	places of publication	article types	languages
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Thurgood Marshall Papers
Click on the column headers below to sort your matching newspaper titles

newspaper titles	Language	Issues	Pub. Start Date	Pub. End Date	City	State
<input type="checkbox"/> Epoch	English	2124	1894-07-01	1901-03-31	Birmingham	Alabama
<input type="checkbox"/> Labor Advocate	English	234	1895-06-29	1902-12-20	Birmingham	Alabama
<input type="checkbox"/> Bakeley Sun	English	46	1818-12-12	1819-06-02	Bakeley	Alabama
<input type="checkbox"/> Alabama Watchman	English	14	1820-08-08	1820-12-15	Cahawba	Alabama
<input type="checkbox"/> Cahawba Press and Alabama Intelligencer	English	4	1819-07-10	1820-12-30	Cahawba	Alabama
<input type="checkbox"/> Alabama Courier	English	5	1819-03-19	1819-10-15	Clatsome	Alabama
<input type="checkbox"/> Huntsville Gazette	English	1	1816-12-21	1816-12-21	Huntsville	Alabama
<input type="checkbox"/> Daily Alabama Journal	English	797	1849-04-14	1853-12-31	Montgomery	Alabama
<input type="checkbox"/> Daily Confederation	English	645	1858-05-01	1860-07-17	Montgomery	Alabama
<input type="checkbox"/> Daily Chattahoochee Rebel	English	9	1864-11-21	1865-04-27	Seima	Alabama
<input type="checkbox"/> Halcyon	English	117	1818-06-02	1820-11-27	St. Stephens	Alabama
<i>Includes: The Halcyon and Tombecbe Public Advertiser</i>						
<input type="checkbox"/> Alabama Intelligencer and State Rights Examiner	English	14	1833-05-02	1835-12-05	Tuscaloosa	Alabama
<input type="checkbox"/> Fairbanks Daily News-Miner	English	1	1917-11-29	1917-11-29	Fairbanks	Alaska
<input type="checkbox"/> The Fairbanks Daily News-Miner	English	3	1898-12-31	1899-03-01	Healy	Alaska

Limiting your search by **newspaper titles** enables you to select specific newspapers in which to look for information. Checking the box next to the newspaper name will limit the search by articles found in that specific newspaper.

Clicking on a specific newspaper title will bring you to a listing of issue dates for that newspaper.

Limit your search by one or more

dates and eras	newspaper titles	places of publication	article
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rowse Pueblo Chieftain

Publication Information:
 Current Title: Pueblo Chieftain
 State of Publication: Pueblo, Colorado
 Language: English

Currently available in American Historical Newspapers:
 Number of Issues: 1059
 Note: May include duplicate issues added to provide better images of one or more pages

Date range of issues:
 Earliest issue: May 05, 1915
 Latest issue: January 01, 1920
 Note: Issues published within the date range may be missing. Efforts to locate and identify such missing issues are ongoing.

Issues Available

1900-1909	1900	1901	1902	1903	1904	1905	1906	1907	1908	1909
1910-1919	1910	1911	1912	1913	1914	1915	1916	1917	1918	1919
1920-1929	1920	1921	1922	1923	1924	1925	1926	1927	1928	1929

January 1903	February 1903	March 1903
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31

April 1903	May 1903	June 1903
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

July 1903	August 1903	September 1903
1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31	1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30

From this listing, you can select the issue of newspaper by date. Available issues are resented in green. Dates without a green shading do not have any available issues.

Limits – Places of Publication

Limit your search by one or more:

dates and eras	newspaper titles	places of publication	article types	languages
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Options

☐ United States (1076 titles)

- ☐ Alabama (12 titles) [-]
- ☐ Alaska (3 titles) [-]
- ☐ Arizona (9 titles) [-]
- ☐ Arkansas (3 titles) [-]
- ☐ California (8 titles) [-]
- ☐ Colorado (4 titles) [-]
- ☐ Connecticut (59 titles) [-]
- ☐ Delaware (5 titles) [-]
- ☐ District of Columbia (32 titles) [-]
- ☐ Florida (4 titles) [-]
- ☐ Georgia (23 titles) [-]
- ☐ Hawaii (5 titles) [-]
- ☐ Idaho (4 titles) [-]
- ☐ Illinois (10 titles) [-]
- ☐ Indiana (4 titles) [-]
- ☐ Iowa (3 titles) [-]
- ☐ Kansas (3 titles) [-]
- ☐ Kentucky (18 titles) [-]
- ☐ Louisiana (28 titles) [-]
- ☐ Maine (25 titles) [-]
- ☐ Maryland (25 titles) [-]
- ☐ Massachusetts (130 titles) [-]
- ☐ Michigan (5 titles) [-]
- ☐ Minnesota (7 titles) [-]

Click on the map to add and remove locations from your search.

Hide Map

Limiting by **place of publication** can help you narrow your search by location. This limit allows you to search for articles published in a specific state. Selecting a state will put a checkmark in the box next to it.

To browse newspapers by state, you can click on the state name to be brought to a list of publications in that state.

Options

☐ United States (1076 titles)

- ☐ Alabama (12 titles) [-]
- ☐ Alaska (3 titles) [-]
- ☐ Arizona (9 titles) [-]
- ☐ Arkansas (3 titles) [-]
- ☐ California (8 titles) [-]
- ☒ Colorado (4 titles) [-]
- ☐ Connecticut (59 titles) [-]
- ☐ Delaware (5 titles) [-]
- ☐ District of Columbia (32 titles) [-]
- ☐ Florida (4 titles) [-]
- ☐ Georgia (23 titles) [-]

Click on the map to add and remove locations from your search.

The above picture shows a location limit placed on search. This search will only pull up articles published in Colorado.

Limits – Article types

Limit your search by one or more:

dates and eras	newspaper titles	places of publication	article types	languages
----------------	------------------	-----------------------	---------------	-----------

Options

News/Opinion <i>Editorially generated articles that appear anywhere in the paper</i>	Advertisements <i>Includes both display ads and classified ads</i>
Election Returns	Front Page <i>Only items appearing at beginning of page one of an issue</i>
Letters <i>Also includes songs</i>	Maps
Poetry	Birth Notices
Legislative Acts or Legal Proceedings <i>Includes laws, proceedings of legislatures or courts, official speeches and proclamations by the king, governor, etc., and notices of copyright registration</i>	Matrimony Notices
Prices <i>Lists of current prices of important commodities</i>	Death Notices
Shipping News <i>Arrivals and departures of ships in domestic and foreign ports</i>	

An **article type limit** will provide a list to narrow down a search by the type of article, including advertisements, letters, birth notices, and others.

Limits - Languages



Limit your search by one or more:

dates and eras	newspaper titles	places of publication	article types	languages
----------------	------------------	-----------------------	---------------	-----------

Languages

English
French
German
Spanish

Tell us what you think about this interface

Limiting the search by **languages** allows you to specify that only articles in a certain language will be included in your search results.