Volcanic Wonders…
Yours to Discover!

Visiting Newberry National Volcanic Monument allows you to explore Newberry Volcano, the largest volcano in the Cascade Range. There are extraordinary Volcanic Wonders within the Monument, making it a great place to learn about Central Oregon’s fiery past. Newberry’s eruptive history began 400,000 years ago and has created massive lava flows covering 1,200 square miles, producing lava tubes, and over 400 cinder cones and volcanic vents during it’s active periods. The last eruption—just 1,300 years ago—formed the youngest lava flow in Oregon.

Newberry’s rich cultural history offers many ways for you to connect with those who came before. From the native communities who first crossed this land to the early European and American explorers, from the grassroots led Monument creators to casual visitors today, people have marveled at this rugged landscape for thousands of years.

The Volcanic Wonders of Newberry National Volcanic Monument offer boundless opportunities for exploration and recreation… yours to discover!

Lava Butte rises 500 feet above its 9 square-mile lava flow. It erupted 7,000 years ago and is one of Newberry’s many cinder cones. (see page 6)

Lava Cast Forest formed when a lava flow overtook an old-growth forest and cooled to form casts of the trees that once stood there.

Lava River Cave is a mile-long lava tube formed from one of Newberry Volcano’s massive eruptions about 80,000 years ago. (see page 7)

Newberry Caldera contains the crystal-clear East Lake and Paulina Lake, several lava flows, and lots of opportunity for adventure.

Big Obsidian Flow formed just 1,350 years ago making it Oregon’s youngest lava flow.

Paulina Peak crowns Newberry Caldera at its highest point of 7,984 ft.

Paulina Falls spills over the lowest point of Newberry Caldera, plummeting 80 ft. in a twin waterfall.

Call the MONUMENT HOTLINE (541) 383-5700 for up-to-date information
**Facilities & Services**

**Visitor Centers**

Two visitor centers on the Monument are both staffed by Rangers ready to answer your questions and provide information to help you enjoy the quality of your visit. Each visitor center has interpretive displays and a Discover Your Forest store that sells maps, books, and gifts.

**Lava Lands Visitor Center**
May 1 – May 24: Open Monday – Tuesday 10:00 am to 4:00 pm
May 25 – September 5: Open Daily 9:00 am to 5:00 pm
August 25 – September 5: Open Daily 9:00 am to 7:00 pm
September 6 – September 30: Open Daily 10:00 am to 5:00 pm
June 11 – September 30: Open Daily 9:00 am to 5:00 pm

**Pauline Visitor Center**
May 26 – June 5: Weekends and Holiday 10:00 am to 4:00 pm
June 11 – September 30: Open Daily 9:00 am to 5:00 pm
Sept. 6 – Sept. 30: Open Daily 10:00 am to 5:00 pm

For information about East Lake Resort or to make reservations, call 541-593-2830 or visit www.walkaliterosk.com

**Details**

- Additional accommodations and a variety of campgrounds are located in the nearby communities of Sunriver and La Pine. Sunriver is at an elevation of 2,200 feet and offers a wide array of lodging and dining options are also available in La Pine.
- Campgrounds are managed and operated by Hoodoo Recreation. Please contact them directly for information on fees, reservations, and other park rules.
- Campground maps can be printed on the usnp.nps.gov website.

**Camping**

- Campgrounds are located in Newberry Caldera along Paulina Lake Road (5' U.S. Forest Service). To make reservations for the 2016 season, please visit the website.
- Campers must register at the park entrance to obtain a parking permit. Parking permits are required for all vehicles using the park.
- Campers are responsible for the condition of their campsites, including proper cleanup.

**Lodging**

- Campground reservations are required.
- Overnight camping is available in a variety of areas.
- Tent sites ($18), RV sites ($32), and cabins ($95 - $252) are available for reservation.
- Additional fees may apply for pets, pets in vehicles, etc.

**Dining**

- Paulina Lake Campground - Open Daily 10:00 am to 5:00 pm
- Pauline Visitor Center - Open Daily 10:00 am to 5:00 pm
- East Lake Resort (cabins) - Open Daily 10:00 am to 5:00 pm
- East Lake RV Park (sites, cabins) - Open Daily 10:00 am to 5:00 pm

**Guides**

- Ranger-led programs and guided activities are offered throughout the season. Programs are scheduled on a first-come, first-served basis.
- The schedule can be found on the Monument’s website or through your local visitor center.

**Recreation Passes**

- Recreation fees are required at all sites. Valid recreation passes include:
  - National Park Pass ($15)
  - National Forest Pass ($10)
  - NVNM 3-Day Pass ($10, valid only at Monument Use Sites)
  - Annual National Park Pass
  - Interagency Senior Pass ($10)
  - Interagency Access Pass (FREE with valid Uniformed Personnel)
  - Interagency Military Pass (FREE for active uniformed personnel and dependents)

**Activities**

- **Hiking**
  - Over 110 miles of summer trails and 10 miles of snowshoe trails are explored within and extending from the Monument. Many trails vary easily in difficulty from short walks on paved paths to long hikes into remote areas. Check the website for a trail map.
  - Campers may request a shuttle service by calling the Visitor Centers.

- **Wildlife Viewing**
  - Newberry Caldera is an Oregon State Wildlife Forbids in addition to being a National Monument. Many animals live on the Monument but they can be difficult to see. The most common wildlife sightings are ground squirrels, pine chipmunks and mule deer. Patient observers may see coyote, black bear, bob, pine martens, fishers, wolves, and coyote. Mountain lions may be in the area but are rarely seen.
  - The Monument has an abundant diversity of bird species as well. Birders may check out species in various ecosystems from the high desert to the alpine. Always keep a safe distance and respect wildlife. Never feed them, it can be dangerous for people and it is unhealthy for them if they become accustomed to human food sources. Encountering an animal that has become habituated can be frustrating and captivating experience. Take care to ensure that both you and the wildlife partake in a safe and unharmed way.

- **Boating**
  - East and Paulina Lakes are both exceptional for water sports due to their size and proximity to the summit of Lava Butte from mid-June through Labor Day Weekend during the 2016 season.
  - There is a 10 mph speed limit for all boats. Help protect the environment by using environmentally friendly fuel and designating your boat and all equipment.

- **Fishing**
  - The first trout were stocked in East Lake in 1960. Paulina Lake has become known as something of a mecca for anglers. Kokanee, brown trout, and chub are found in the lakes. Fishing licenses are required and can be obtained at any Oregon State Fish & Wildlife Service license agent. Check with theEstado for current regulations or read them online to learn about daily bag and season limits.

**Good to Know**

**Accessibility**

- Many locations on the Monument are accessible to individuas with various ranges of mobility. The Lava Lands Visitor Center at Newberry Exhibit Hall are wheelchair accessible and have large, accessible restrooms with running water. The Visitor Centers and accessible services on the Monument including Sunriver Hot Springs, the rim of the Trail of the Molten Land, Paulina Lakeshore (loop, Lava Creek Trail), and Paulina Falls Trail Paulina Lake Campground has a limited number of accessible sites. The Forest Service is working to improve accessible services for all visitors to the Monument.

**Drinking Water**

- Water facilities are available at Lava Lands Visitor Center. Running water is available at most campsgrounds on the Monument during peak season (June – September). Most day use sites DO NOT have running water. The Visitors Center also does not sell bottled water in an effort to reduce wastes and impacts from plastic bottles. Rainwater bottles can be refilled at both Visitor Centers.

**Recreation**

- Recreation fees are required at all sites. Valid recreation passes include:
  - National Park Pass ($15)
  - National Forest Pass ($10)
  - NVNM 3-Day Pass ($10, valid only at Monument Use Sites)

**Fee Free Days**

- In 2016, the second weekend in June has been designated as a National Park Day (NRPA). Help active uniformed personnel and dependents.
Trails to Volcanic Wonders!

A trail can lead to rare plant species or a clear mind, to a symphony of songbirds or an awe-inspiring view of Volcanic Wonders. It can lead to sublime lessons and challenging situations. You cannot know what you might find when you begin down a trail. For these reasons, keep stewardship and safety in mind. Review the Leave No Trace Principles listed on page 6 to learn how to protect yourself and the Monument’s resources. A few steps ahead or around the next switchback, the unknown is Yours to Discover!

### Trails to Volcanic Wonders!

#### EASY

<table>
<thead>
<tr>
<th>TRAIL NAME</th>
<th>MILEAGE</th>
<th>ELEV GAIN</th>
<th>USE</th>
<th>MAP</th>
<th>DESCRIPTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deschutes River #2.1 to Benham Falls</td>
<td>3.5 mi</td>
<td>0 ft.</td>
<td>1</td>
<td>1</td>
<td>Cross the footbridge and follow a wide trail to the Benham falls overlook.</td>
</tr>
<tr>
<td>Lava Butte Rim #3918</td>
<td>3.25 mi</td>
<td>150 ft.</td>
<td>1</td>
<td>1</td>
<td>Circles the rim of lava Butte, a cinder cone volcano. Provides views of the Cascades and Newberry Caldera.</td>
</tr>
<tr>
<td>Lava Cast Forest #3960</td>
<td>1 mi loop</td>
<td>100 ft.</td>
<td>1</td>
<td>1</td>
<td>Paved path with many tree casts and sweeping views of the area. A designated National Recreation Trail.</td>
</tr>
<tr>
<td>Old Mill Interpretive Trail #3984</td>
<td>3.3 mi</td>
<td>0 ft.</td>
<td>1</td>
<td>1</td>
<td>Provides a glimpse of the Deschutes River’s historic uses and its ecology.</td>
</tr>
<tr>
<td>Paulina Falls #3957</td>
<td>2.25 mi / 4 mi</td>
<td>240 ft. / 600 ft.</td>
<td>1, 3</td>
<td>3</td>
<td>Twisted trail leads to the falls plunging 60 ft. with upper and lower viewing areas.</td>
</tr>
<tr>
<td>Silica #3958.5</td>
<td>0.8 mi</td>
<td>50 ft.</td>
<td>1</td>
<td>1</td>
<td>Hike through a mixed-conifer forest from the Little Crater Campground to the Big Obsidian Flow.</td>
</tr>
<tr>
<td>Trail of the Molten Land #3922</td>
<td>1 mi loop</td>
<td>100 ft.</td>
<td>1</td>
<td>1</td>
<td>A must-see National Recreation Trail. Paved interpretive path wanders across a basalt lava flow to a viewpoint.</td>
</tr>
<tr>
<td>Trail of the Whispering Pines #3930</td>
<td>3.3 mi</td>
<td>0 ft.</td>
<td>1</td>
<td>1</td>
<td>Paved path wanders through a Ponderosa pine forest.</td>
</tr>
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#### MODERATE

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<tbody>
<tr>
<td>Big Obsidian Flow #3958.1</td>
<td>1 mi loop</td>
<td>500 ft.</td>
<td>1</td>
<td>1</td>
<td>Ascend the stairs to be surrounded by black volcanic glass, catch views of surrounding peaks.</td>
</tr>
<tr>
<td>Black Rock #3935</td>
<td>4 miles</td>
<td>300 ft.</td>
<td>1</td>
<td>1</td>
<td>A popular single-track mountain bike route that parallels the edge of Lava Butte’s lava flow.</td>
</tr>
<tr>
<td>Deschutes River Trail - #2.1</td>
<td>70 mi</td>
<td>300 ft.</td>
<td>1</td>
<td>1</td>
<td>Cross where to turn and head to go for a custom hike, trail follows the river past several falls.</td>
</tr>
<tr>
<td>Hoffman Island #3959</td>
<td>1 mi</td>
<td>200 ft.</td>
<td>1</td>
<td>1</td>
<td>Get a great view of a kipuka, an island of trees surrounded by lava on this less-traveled trail.</td>
</tr>
<tr>
<td>Lava River Cave</td>
<td>1 mi</td>
<td>300 ft.</td>
<td>1</td>
<td>1</td>
<td>Descend to the underground world of the longest lava tube in Oregon. See map for more info.</td>
</tr>
<tr>
<td>Little Crater #3953</td>
<td>1.8 mi</td>
<td>300 ft.</td>
<td>1</td>
<td>1</td>
<td>Offers unique views of the Big Obsidian Flow, Paulina Peak and Paulina Lake.</td>
</tr>
<tr>
<td>Newberry Crater #3958</td>
<td>3.5 mi</td>
<td>300 ft.</td>
<td>1</td>
<td>1</td>
<td>Start on the trail from the trailhead to the viewpoint on the Northeast rim of the Caldera.</td>
</tr>
<tr>
<td>Parallel #3958.3</td>
<td>2 miles</td>
<td>150 ft.</td>
<td>1</td>
<td>1</td>
<td>Parallels 21 on the east side of the Caldera and can be used to access the Crater Rim Trail.</td>
</tr>
<tr>
<td>Sun-Lava #3940</td>
<td>5.5 mi</td>
<td>300 ft.</td>
<td>1</td>
<td>1</td>
<td>Paved path, stop at the Deschutes River after 4 miles or continue to Sunriver before turning back.</td>
</tr>
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#### DIFFICULT

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<tr>
<td>Crater Rim #3957</td>
<td>21 mi loop</td>
<td>1,000 ft.</td>
<td>1</td>
<td>1</td>
<td>A great mountain bike ride. Shortcut the loop by using a connector trail. No water along the way.</td>
</tr>
<tr>
<td>Lost Lake #3958.2</td>
<td>3.8 mi</td>
<td>300 ft.</td>
<td>1</td>
<td>1</td>
<td>Parallel to 21 then climbs to the Crater Rim with unique views of the Big Obsidian Flow.</td>
</tr>
<tr>
<td>Paulina Lakeshore Loop #3955</td>
<td>7.5 mi</td>
<td>200 ft.</td>
<td>1</td>
<td>1</td>
<td>Go counter-clockwise for the best views. Don’t miss the peak Crater Rim South!</td>
</tr>
<tr>
<td>Paulina Peak #3951</td>
<td>2 miles</td>
<td>1,400 ft.</td>
<td>1</td>
<td>1</td>
<td>A steep hike with huge views waiting on the peak. Trailhead is located on the road to Paulina Peak.</td>
</tr>
<tr>
<td>Peter Skene Ogden #3956</td>
<td>4.5 mi</td>
<td>1,000 ft.</td>
<td>1</td>
<td>1</td>
<td>A designated National Recreation Trail. It follows Paulina Creek passing many waterfalls.</td>
</tr>
</tbody>
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### Lava Butte Lookout

If you travel to the top of Lava Butte you will see the Lava Butte Lookout. This is both the name of the building and the person that staffs it. Lava Butte was first used as a fire lookout in 1913. The Lookout is on the National Historic Lookout Register and is still staffed today. Please, do not disturb the person who is working as the fire lookout. They have an important job to do: scan huge swaths of land for columns of smoke. The early detection provided by the Lookout informs an extra set of eyes and relays information to the firefighters by radio. From an elevated perspective, the Lookout informs detection and monitoring variables in fire behavior, wind, and other weather patterns. In addition to the person staffing the lookout, a volunteer ranger is present on the summit of Lava Butte on most afternoons during the summer months. This uniformed ranger will gladly answer questions about the fire Lookout, the surrounding area and can help orient you to the Monument.

When there is a wildfire in the area, the Lookout becomes essential to the safety of the fire fighters on the ground. As crews approach a blaze on foot it can be difficult to see because of deep terrain, dense forests, and heavy smoke. The Lookout provides an extra set of eyes and relays information to the firefighters by radio. From an elevated perspective, the Lookout informs detection and monitoring variables in fire behavior, wind, and other weather patterns. In addition to the person staffing the lookout, a volunteer ranger is present on the summit of Lava Butte on most afternoons during the summer months. This uniformed ranger will gladly answer questions about the fire Lookout, the surrounding area and can help orient you to the Monument.
Could Newberry Volcano erupt again? By Daniel A. Stahle

Yes, Newberry Volcano could erupt. In fact, it’s very likely that it will. The last eruptive event occurred in 1982, which is like ancient history, but geologically it’s very recent. That eruption produced the spectacular black lava flows that you see today. It may not be a repeat of that eruption, but a similar one might do. As Newberry’s magma chamber empties, it could create a new, very recent eruption. It is not possible to predict exactly what might happen, but it is likely to happen at the volcano. Howeve...
Volunteer With Us!

Newberry National Volcanic Monument is home to a wonderful group of Volunteers. They are the man, woman, and youth with passionate interest in volcanoes, science, and the rich cultural and geological history surrounding Central Oregon’s National Treasure. These dedicated individuals help the Forest Service in immeasurable ways to protect this amazing place and make your experience at Newberry the best it can be.

We’re proud of and grateful for our volunteers who, for decades, have logged thousands of hours helping at Newberry National Volcanic Monument. Newberry volunteers guide school groups, lead hikes and cave tours, keep our trails clean and safe, assist campers, and share information with the public at the Monument’s visitor centers and signature volcanic wonders sites. Our Volunteers are one of Newberry’s best resources. Along with information about the Monument, our Volunteers enhance the visitor’s experience by educating the public about Leave No Trace ethics and how to be good stewards of our public lands.

Newberry volunteers are part of a forest-wide volunteer program that hosts 3,000 volunteers each year. Together they contribute nearly 250,000 hours of service comprising $1.2 million in donated labor. If you would like to learn more about how to become a Volunteer and experience the wonders of Newberry National Volcanic Monument, visit discoveryourforest.org or call Discover Your Forest at 541-383-5530.

Support Your Monument!

Newberry National Volcanic Monument is managed through a partnership between Deschutes National Forest and Discover Your Forest. Discover Your Forest is a local nonprofit organization dedicated to promoting the discovery of Deschutes and Ochoco National Forests and Crooked River National Grassland through enriching the experiences of visitors and building community stewardship of these special places today for generations to come.

You can support Discover Your Forest in many ways during your visit, including purchasing items from our stores. Proceeds from your purchases support field trips, educational and interpretive programs, exhibits, publications and, other visitor services. We offer high quality items for kids and adults that highlight the plants, animals, and geology of Central Oregon and the Pacific Northwest.

Your donations make a difference, during the past year, we have been able to:

• Welcome over 250,000 visitors at Newberry National Volcanic Monument.
• Train 25 Certified Interpretive Rangers who made over 30,000 visitor contacts.
• Issue Jr. Ranger badges to 2,500 children.
• Produced and distributed visitor publications reaching over 210,000 visitors.
• Welcome over 250,000 visitors at Newberry National Volcanic Monument.
• Provided free field trips for 5,400 K-12 students.

To donate, visit one of our locations, go to discoveryourforest.org, or call 541-383-5572. Discover Your Forest and Deschutes National Forest are committed to making your visit to Newberry truly monumental! Thank you for your support!