

Volcanic Vistas



Photo Credit: A. Luoma, USFS

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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 500,000 years ago and created massive lava flows covering 1,200 square miles, producing lava tubes, and over 400 cinder cones and volcanic vents during its active periods. The last eruption occurred just 1,300 years ago.

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.



Welcome!

Welcome to Newberry National Volcanic Monument.

This year we celebrate the 50th anniversary of Lava Lands Visitor Center, the "front door" to Central Oregon and the hub of Newberry National Volcanic Monument. Here we showcase the natural wonders, unique geologic features and the recreation activities available to you on local public lands.

Along with our partner, Discover Your Forest, we provide visitor information, conservation education, and natural resource interpretation not just from Lava Land Visitor Center but at Lava River Cave and Paulina Visitor Center as well. If you're looking for more of a self-guided adventure head to Newberry Caldera to enjoy campgrounds, lakes, and Oregon's youngest lava flow: Big Obsidian Trail.

Wherever your adventure takes you, please stay safe and help protect our natural resources by following the guidelines included in this newsletter. We look forward to welcoming you to the Monument!

Dawn Stender
Monument Manager

Discovery Awaits You

Lava Butte rises 500 feet above its 9 square-mile lava flow. It erupted 7,000 years ago and was one of Newberry's very active cinder cones.

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 during Newberry Volcano's massive eruptions about 65,000 years ago.

Newberry Caldera contains high peaks, scenic East Lake and Paulina Lake, several lava flows, and lots of opportunity for adventure.

Big Obsidian Flow stretches just over a square mile and formed just 1,300 years ago, making it Newberry's and Oregon's youngest lava flow.

Paulina Peak crowns Newberry Caldera at its highest point of 7,984 ft. It offers grand views of the south and west flanks of Newberry Volcano and the surrounding area.

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



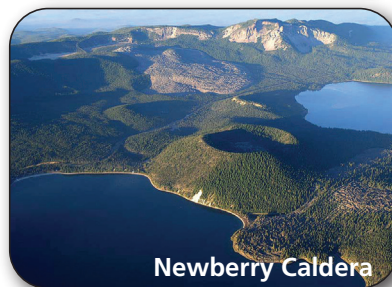
Lava Butte

photo: Heidi Walker



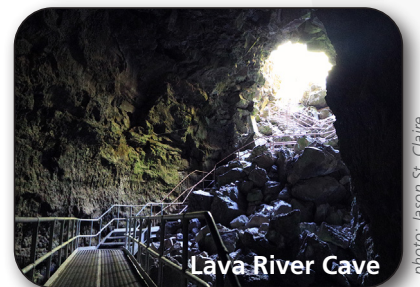
Lava Cast Forest

photo: K. Sperl



Newberry Caldera

photo: US Forest Service



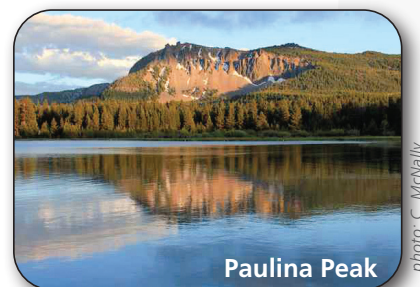
Lava River Cave

photo: Jason St. Claire



Big Obsidian Flow

photo: C. Rensch



Paulina Peak

photo: C. McNally



Paulina Falls

photo: J. Reese



Monument Profile

Newberry National Volcanic Monument encompasses 57,384 acres within the Deschutes National Forest. This tract of National Forest System land was designated as a national monument in 1990 when Congress passed and President George H.W. Bush signed the locally inspired and crafted legislation creating the monument.

National monuments enjoy similar protections as national parks but they aren't the same. A national monument may be established either by an Act of Congress or through an Executive Order, but a national park can only be established by an Act of Congress. Another important difference is that a national monument can be managed by a number of natural resource management agencies. Newberry National Volcanic Monument is one of the few national monuments managed by the U.S. Forest Service.

By the Numbers

- Highest Elevation: 7,984 feet (Paulina Peak)
- Lowest Elevation: 3,960 feet (Deschutes River)
- Newest Lava Flow: 1,300 years old (Big Obsidian Flow)
- Diameter of the Caldera: 5 miles
- Depth of the underground magma chamber: 2-3 miles
- Height of Paulina falls: 80 ft
- Annual Precipitation: 18.37 in.

Know Before You Go

Accessibility

Many locations on the Monument are accessible to individuals who have various ranges of mobility. The **Lava Lands Visitor Center** and **Chitwood Exhibit Hall** are wheelchair accessible and have large, accessible restrooms with running water. There are several accessible paths on the Monument including **Sun-Lava Path**, segments of the **Trail of the Molten Land**, **Paulina Lakeshore Loop**, **Lava Cast Forest 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 fountains are available at Lava Lands Visitor Center. Running water is available at most campgrounds on the Monument during peak season (June – September). Most day use sites DO NOT have running water. The visitor centers do not sell bottled water in an effort to reduce waste and impacts from plastic bottles. Reusable water bottles can be purchased at both visitor centers.

Restrooms

Restrooms with flush toilets and running water are located at both visitor centers and many campgrounds. Most day use areas have vault toilets.

Phones

Cell-phone service can be unreliable in the Newberry Caldera. Reception throughout the Monument varies depending on your location and service provider.



photo: J. Snavely



photo: A. Jensen



photo: K. Walsh

Activities

Hiking

Over 110 miles of summer trails and 130 miles of winter trails can be explored within or extending from the Monument. Trails vary widely in difficulty from short walks on paved paths to long hikes on steep terrain. Use the table on page 4 to find a trail that suits your interests and abilities. Many spectacular sights can be seen from these trails!

Be prepared before going for a hike to protect yourself and the Monument. Bring water, especially on hot days. There is not much shade on the lava flows. Dress appropriately for the conditions, including proper footwear. Stay on the trails for your own safety and to protect important habitat and fragile vegetation. Know the leash laws and where pets can or cannot go. Pets must be leashed at all times. Please review the **Leave No Trace** principles on page 3. Talk to a Ranger if you have additional questions.

Wildlife Viewing

Newberry Caldera is an Oregon State Wildlife Refuge 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 golden-mantled ground squirrels, yellow pine chipmunks and mule deer. Patient observers may see coyote, black bear, pika, pine martens, eagles, and osprey. 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 off 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 habituated to human food sources. Encountering an animal in the wild can be an exhilarating and captivating experience. Take care to ensure that both you and the wildlife part ways safely and unharmed.

Biking

The Monument is an excellent place to ride whether you seek a challenging road, single-track trail, or an enjoyable paved path. Not all trails are open to bicycles so please check the table on page 4 before deciding on your next ride. If you bike to the Monument, day-use fees do not apply. Consider making a donation to Discover Your Forest in lieu of your fee or donating your time as a volunteer!

Please walk bikes on pathways and patios at all Visitor Centers and use bike racks to keep pathways, sitting areas, and doorways clear. Helmets are strongly recommended for all cyclists.

Popular rides:

- Mountain bike the 21-mile Crater Rim Trail that circles Newberry Caldera with single-track and sweeping views. For a shorter loop, start from Cinder Hill Trail Head to link the Parallel Trail, Crater Rim and Newberry Crater Trail.
- Climb almost 14 miles on asphalt up Paulina Lake Road (Road 21) from Highway 97. Recover on the shore of Paulina Lake at an elevation of 6,331 feet. Then enjoy gravity's pull all the way back down!
- Cyclists of any age or ability will enjoy the Sun-Lava paved path. Wind your way through the forest from Lava Lands Visitor Center to the Deschutes River at the Benham Falls East Trailhead. Go for a short side trip to see Benham Falls (not paved).

Boating

East Lake and Paulina Lake are both exceptional locations to take your boat out during the warm summer months. Several boat launches are maintained by the Forest Service as well as one at each resort. Recreation passes are required at all boat launch facilities. Boats of all sizes from canoes, kayaks, stand up paddle boards, and motorboats can be rented at either resort as well. Crystal clear waters, forested shores, incredible fishing, and Paulina Peak views make the trip worthwhile.

There is a 10 mph speed limit for all boats in the Monument. Help protect these pristine lakes from aquatic invaders by cleaning, draining and drying your boat and all equipment. **Non-motorized watercraft 10 feet or longer and motorized watercraft 12 feet or longer require an Oregon Aquatic Invasive Species or Waterway Access Permit.**

Fishing

The first trout were stocked in East Lake in 1912. Since then, both East and Paulina Lake have become known as some of the best fishing in the State of Oregon. Rainbow, Kokanee, Brown Trout, and Chub are lurking in the lakes.

Fishing licenses are required and can be purchased online or at either resort. All Oregon State Fishing Regulations apply. Pick up a copy of the fishing regulations or read them online to learn about daily catch limits and advisories.

Swimming

Many visitors enjoy swimming and wading in East and Paulina Lakes to cool off. Look for signs posted about warnings. Occasional blue-green algae blooms can affect water quality and swimmer's safety— even pets. **Do not swim at boat launch facilities.** Hot springs at the lakes are undeveloped and shallow. **Please, do not dig around the hot springs.**

Learning

There are many opportunities to learn about the natural and cultural history of Newberry National Volcanic Monument. While exploring on your own, visit any of the interpretive exhibits or hike an interpretive trail. Pick up one of the guidebooks or historical books at the Discover Your Forest Bookstores.

To discover even more, join a Ranger-led activity or patio talk. Stop by the visitor center or look for posted signs with program schedules. Special Ranger-led tours can be scheduled for large groups as resources allow. For information call **Lava Lands Visitor Center: 541-593-2421**

Newberry Fun Facts



Lava Butte Cinder Cone, Becky McCall

Rich with cultural and natural history, here are a few facts Newberry claims as a part of its story:

- ▶ Newberry National Volcanic Monument contains the widest variety of volcanic features of any U.S. park or monument.
- ▶ Numerous attempts have been made to protect Newberry as either a National Park or Monument in 1903, 1920, 1940, 1970, and successfully in 1990.
- ▶ The term 'Crater' found in the place names Newberry Crater and nearby Crater Lake are both misnomers for volcanic features correctly termed, 'Caldera'.
- ▶ Before the formation of the Caldera, Newberry's summit was 500 to 1,000 feet higher than Paulina Peak is today.
- ▶ Newberry Volcano is still active and will certainly erupt again, either passively (lava flows) or explosively (ash and pumice).
- ▶ There are 9 USGS monitoring stations at Newberry to detect the early and subtle signs of a reawakening volcano.
- ▶ The Big Obsidian Flow is the youngest lava flow at Newberry. Volcanic ash from the eruption 1,300 years ago reached as far as the state of Idaho.
- ▶ Surgical blades made from obsidian are sharper than those of steel.
- ▶ Eruptions at Newberry Volcano have changed the course of water flowing in the Deschutes River drainage many times.

▶ Newberry Volcano's ash, pumice, lava, cinder and mudflows and comprise 120 cubic miles of volcanic material, compared to the 6 cubic miles at Mt. St. Helens.

▶ Lava River Cave crosses beneath Hwy 97, where the roof of the cave is 50 feet thick.

▶ The Monument's 4,000 foot vertical range is host to climates and microclimates with specialized plant and wildlife species. Some display distinct adaptations such as the rare Pumice Grape-Fern, found here and few other locations in the world.

▶ One of the oldest habitation structures discovered in North America was found under 3 to 4 feet of ash and pumice during road reconstruction at Paulina Lake. The structure dates about 9,500 years old and was likely similar to a wickiup.

▶ Lava Butte was first used as a fire lookout in 1913 and is still staffed today.

▶ Oregon state's first wildlife underpasses were constructed in 2011 on Highway 97 to allow safe passage for wildlife.



photo: M. Koozer



photo: USFS



photo: J. St. Claire

Facilities & Services

Visitor Centers

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

Exhibits

Located in **Lava Lands Visitor Center**, the **Chitwood Exhibit Hall** interpretive displays feature geology, ecology, and cultural history along with information on the eruptive history of Newberry Volcano. A large 3-D topographic map provides an excellent overview of the Monument. The volcanic history continues in colorful interpretive panels along the **Trail of the Molten Land** behind the visitor center. **Lava Cast Forest** has panels along a 1-mile path. Interpretive panels along the **Big Obsidian Flow** trail explain the significance of the black volcanic glass. You can learn about disappearance of Whitebark Pine trees on **Paulina Peak**, and displays at **Paulina Visitor Center** show human history on the Monument.

Ranger Programs

Interpretive Ranger programs are offered at numerous locations across the Monument from opening weekend in May through Labor Day weekend.

Program details are posted at visitor centers and information boards. You may also encounter Roving Rangers giving impromptu programs or sharing information on Lava Butte, Lava Cast Forest and the many trails in the Newberry Caldera. These are all great opportunities for you to meet a ranger and learn about the Monument's plants, animals, geology, and cultural history.

Lodging & Dining

Two lodges operated under special use permit offer cabin rentals, casual dining, boat rentals, and a small general store.

For information about **East Lake Resort** or to make reservations, call 541-536-2230 or visit www.eastlakeresort.com

For information or to make reservations at **Paulina Lake Lodge**, call 541-536-2240 or visit www.paulinalakelodge.com

Additional accommodations and a variety of restaurants are located in the nearby communities of Sunriver and La Pine.

Services, a major hospital, and many lodging and dining options are available in Bend to the north of the Monument.

Camping

Campgrounds are located in Newberry Caldera along Paulina Lake Road (FS Road 21) at the southern end of the Monument. Please see the table on page 4 for details. Campgrounds are managed and operated by Deschutes Recreation.

For reservations:
www.recreation.gov
877-444-6777

Camp in designated campgrounds within Newberry Caldera. Dispersed camping is prohibited inside Newberry Caldera. Stop by a visitor center for more information and to obtain a Motor Vehicle Use Map that will identify dispersed camping opportunities outside the Monument. Backpack camping may occur along the Crater Rim Trail #3957 and overnight parking is accommodated at the Peak Trailhead.

Guide Services

Permitted guide services operate within the Monument providing volcano tours, canoe/kayak excursions, fishing trips, snowmobile rentals, and mountain bike adventures. Inquire at one of the visitor centers for more information.

Help Protect Monument Resources

Every visitor shares the responsibility of protecting our National Monument. Please take a moment to read these regulations so you can explore safely and help protect Monument resources.

Pets

Control and clean up after your pets. Pets on leashes are allowed in picnic areas, campgrounds, parking areas and on most Monument trails. Pets are not allowed in Lava River Cave or in federal government buildings including the visitor centers. It is not recommended to take pets on the Big Obsidian Flow because the rock is very sharp.

Camping

There is a 14-day stay limit on the Deschutes National Forest. Dispersed camping is prohibited within Newberry Caldera.

Fires & Firewood

Campfires are allowed only inside established fire rings in the Caldera. Limitations on campfires may be in place during fire season, please check campground postings or ask a ranger. Limit firewood collection to "dead and down" for camping purposes only. Chainsaws are prohibited in the Caldera. Do not carve, chop, or otherwise damage vegetation. **Campfires are prohibited on beaches.** Firewood is available for purchase in the campgrounds.

Hot springs

Newberry's hot springs are unique shoreline features of the Newberry Caldera. Sometimes submerged by the lakes, they are extremely shallow, primitive, and undeveloped. Help preserve and protect this area by following regulations prohibiting digging, fires, or camping outside of developed campgrounds in the Caldera. There are no facilities in the vicinity, so please follow *Leave No Trace* principles when visiting.

Hunting and Firearms

Hunting is not permitted anywhere within Newberry National Volcanic Monument. Firearms are not permitted in federal buildings, including visitor centers.

Off-Highway Vehicles

Off-highway vehicles (OHV) and side-by-sides are not permitted anywhere within Newberry National Volcanic Monument.

Other Monument Resources

Leave what you find, including wildflowers, rocks, artifacts, and even pinecones. All natural resources are part of a fragile ecosystem, many species rely on these resources to survive.

Leave No Trace

The best way to minimize your impact on both the Monument's resources and on other visitors' experience is to follow the *Leave No Trace* principles. These seven principles have been developed to help people enjoy their time out-doors responsibly. For more information visit www.LNT.org or talk to a ranger!

- Plan Ahead and Prepare
- Travel and Camp on Durable Surfaces
- Dispose of Waste Properly
- Leave What You Find
- Minimize Campfire Impacts
- Respect Wildlife
- Be Considerate of Other Visitors

Lava Butte Shuttle

Discover Your Forest and Deschutes National Forest are excited to continue our partnership with Cascades East Transit (CET). Visitors can utilize convenient shuttle service to access the summit of Lava Butte from mid-June through Labor Day Weekend.

The shuttle will depart from Lava Lands Visitor Center and Lava Butte every 20 minutes from 10 am to 4 pm. There is a minimal fare for each rider (children 5 and under ride free). Fares are with CET TouchPass App, cash (exact change), or credit card at the Visitor Center. Shuttles are wheelchair accessible, can transport bicycles, and leashed dogs are permitted. No other motor vehicles are allowed on Lava Butte road when the shuttle is operating.

Proceeds from the shuttle service benefit Discover Your Forest and support visitor experiences and educational programs at Newberry National Volcanic Monument. On the Lava Butte Shuttle, visitors can sit back and enjoy the ride while supporting Discover Your Forest.

Purchase the Lava Butte Shuttle Pass with the Umo App

1. Download **Umo Mobility** app
2. Open app and create an account
3. To purchase fare, click on the **Buy** in the **My Wallet** section.
4. Choose **Lava Butte Pass**
5. Select **Purchase**
6. Enter card payment information
7. Your pass will now be displayed in the **My Wallet** section.
8. Before boarding, select the fare in your wallet and show the **QR Code** to the reader upon boarding.

Purchasing fares for family and friends? Repeat the steps to purchase additional fare product.



Recreation Passes

Recreation passes are required at all posted fee sites on Newberry National Volcanic Monument and Deschutes National Forest. Valid recreation passes include:

- National Forest Day Pass** (\$5)
- National Forest ePass** (\$5)
- Annual Northwest Forest Pass** (\$30)
- America the Beautiful Passes:**
 - Annual Pass** (\$80)
 - Annual 4th Grade Pass** (FREE for all 4th grade students! Visit www.everykidinapark.gov for info)
 - Access Pass** (FREE with valid documentation of permanent disability)
 - Senior Annual Pass** (\$20)
 - Senior Lifetime Pass** (\$80)
 - Military Annual Pass** (FREE for Current US Military and dependants)

Military Lifetime Pass (FREE for Gold Star Families and US Military Veterans)

Volunteer Pass (FREE with 250 service hours with participating agencies)

Recreation fees are an investment you make as a visitor: funds received through the recreation pass system return directly back to the forest and Monument to maintain and improve recreation facilities. Recreation passes can be obtained at locations shown on page 5 or purchased online at: discovernw.org

Fee Free Days!

No day-use fees are required on the Monument in observance of select holiday and special observance days each year. For Fee Free Day details, visit the Forest Service at: www.fs.usda.gov/visit/passes-permits



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 satisfying 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 3 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!



EASY	TRAIL NAME	MILEAGE	ELEV. GAIN	USE	MAP	DESCRIPTION
	Deschutes River #2.1 to Benham Falls	0.5 mile	0 ft.		2	Cross the footbridge and follow a wide trail to the Benham Falls overlook.
	Lava Butte Rim #3918	0.25 mile	150 ft.		2	Circles the rim of Lava Butte, a cinder cone volcano. Provides views of the Cascades and Newberry Caldera.
	Lava Cast Forest #3960	1 mile loop	150 ft.		1	Paved path with many tree casts and sweeping views of the area. A designated National Recreation Trail.
	Old Mill Trail #3984	0.3 mile loop	0 ft.		2	Provides a glimpse of the Deschutes River's historic uses and it's ecology.
	Paulina Falls #3954	0.1 mile / 0.25 mile	50 ft. / 200 ft.		3	Trail leads to the falls plunging 80 feet. A shorter hike leads to upper viewing area 0.1 miles to overlook and 0.25 mile hike leads to lower viewpoint.
	Silica #3958.5	0.8 mile	50 ft.		3	Walk this connector trail between the Little Crater Campground and the Big Obsidian Flow.
	Trail of the Molten Land #3922	1 mile loop	150 ft.		2	A must-see National Recreation Trail. Paved interpretive path meanders across a basalt lava flow to a viewpoint.
	Trail of the Whispering Pines #3930	0.3 mile	0 ft.		2	Paved path wanders through a Ponderosa pine forest.

MODERATE	TRAIL NAME	MILEAGE	ELEV. GAIN	USE	MAP	DESCRIPTION
	Big Obsidian Flow #3958.1	1 mile loop	500 ft.		3	Ascend the stairs to be surrounded by black volcanic glass, catch views of surrounding peaks.
	Black Rock #3935	4 miles	300 ft.		2	A popular single-track mountain bike route that parallels the edge of Lava Butte's lava flow.
	Deschutes River Trail - #2.1	10 miles	300 ft.		2	Choose where to start and how long to go for a custom hike, trail follows the river past several falls.
	Hoffman Island #3959	1 mile	200 ft.		1	Get a great view of a kipuka, an island of trees surrounded by lava on this less traveled trail.
	Little Crater #3953	1.8 miles	500 ft.		3	Offers unique views of the Big Obsidian Flow, Paulina Peak and Paulina Lake.
	Newberry Crater #3958	3.5 miles	800 ft.		3	Head up the trail from Cinder Hill Trailhead to the viewpoint on the Northeast rim of the Caldera.
	Parallel #3958.3	2 miles	550 ft.		3	Parallels Rd. 21 on the east side of the Caldera and can be used to access the Crater Rim Trail.
Sun-Lava #3940	5.5 miles	300 ft.		2	Paved path, stop at the Deschutes River after 4 miles or continue to Sunriver before turning back	

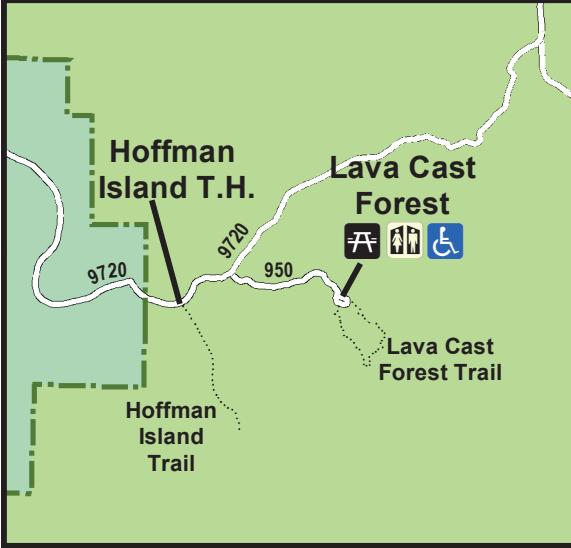
DIFFICULT	TRAIL NAME	MILEAGE	ELEV. GAIN	USE	MAP	DESCRIPTION
	Crater Rim #3957	21 mile loop	1,600 ft.		3	A great mountain bike ride. Shorten the loop by using a connector trail. No water along the way.
	Lava River Cave	1 mile	300 ft.		2	Descend to the underground world of the longest continuous lava tube in Oregon. See page 6 for more info.
	Lost Lake #3958.2	3.8 miles	1000 ft.		3	Parallels Rd. 21 then climbs to the Caldera Rim with unique views of the Big Obsidian Flow.
	Paulina Lakeshore Loop #3955	7.5 mile loop	200 ft.		3	Go counter-clockwise for the best views. Don't miss the peak views on the north shore.
	Paulina Peak #3951	3 miles	1,600 ft.		3	A steep hike with huge views waiting on the peak. Trailhead at Paulina Visitor Center 3 miles or on the road to Paulina Peak 2 miles.
Peter Skene Ogden #3956	8.5 miles	2,000 ft.		3	A designated National Recreation Trail, it follows Paulina Creek passing many waterfalls.	

CAMPGROUNDS & LODGING

CAMP SITE NAME	AMENITIES	FEE PER NIGHT	TOTAL SITES
Paulina Lake Campground		\$27 Extra Vehicle \$10	68
Newberry Group Camp		Site A: \$97 Site B: \$128, Site C: \$128	3
Chief Paulina Horse Camp		\$23 Double / \$27 Quadruple / Extra Vehicle \$10	14
Little Crater Campground		\$27 / Extra Vehicle \$10	49
East Lake Campground		\$27 / Extra Vehicle \$10	29
Cinder Hill Campground		\$27 / Extra Vehicle \$10	108
Paulina Lake Lodge		Visit paulinalakelodge.com for rates	14
East Lake Resort		Visit eastlakeresort.com for rates	16
East Lake RV Park		Visit eastlakeresort.com for rates	45

Posted day use sites within campgrounds require valid recreation pass displayed in addition to any camping fees. Day Use sites are open from 6:00 am to 10:00 pm. Campsites are limited to eight people per site. See map on page 5 for campsite locations. For camp site reservation information visit [Recreation.gov](https://www.recreation.gov).

Map 1 : Lava Cast

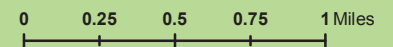
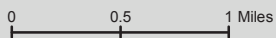


Map 2 : Lava Lands



- | | | |
|------------------|--------------------------|-------------------------------------|
| Visitor Center | Day Pass Sales | Highway |
| Camping Area | Restrooms (flush toilet) | Paved Road |
| Accessible Trail | Restrooms (vault toilet) | Dirt/Gravel Road |
| Potable Water | Dump Station | Newberry National Volcanic Monument |
| Boat Ramp | Fish Cleaning Station | Hiker ONLY Trails |
| Picnic Area | Viewpoint | Non Motorized Trails |
| Restaurant | Hot Springs | |
| Laundry | AED | |
| Amphitheater | | |

Some symbols shown in this list may not be represented on this page



Map 3 : Newberry Caldera

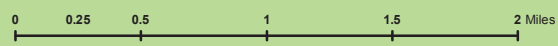
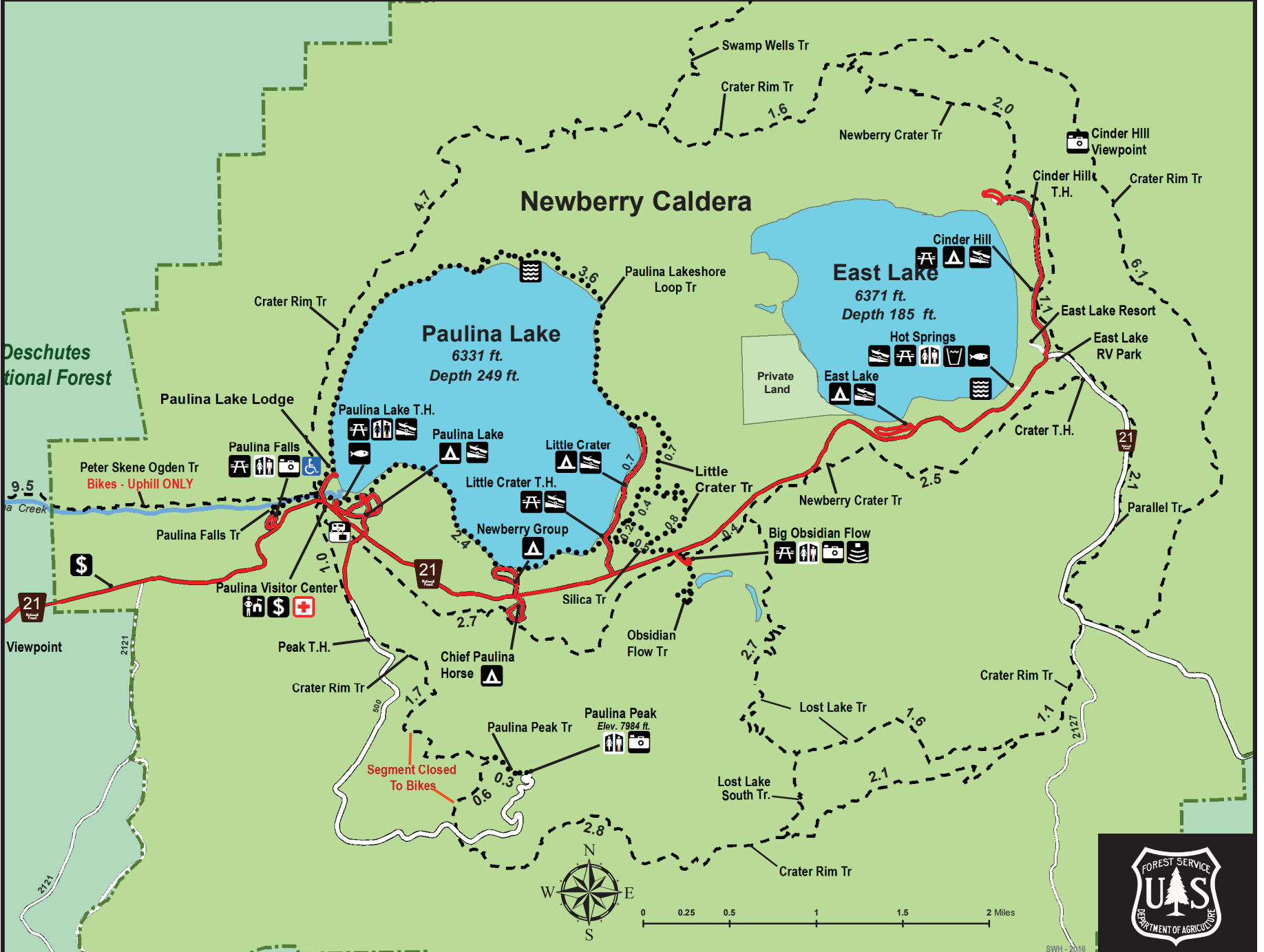




photo: Jessica Belt

Lava River Cave

Discover another world below ground! Lava River Cave is a difficult hike on uneven terrain and slippery surfaces. The cave is 1 mile long, making for a 2-mile round trip. The hike is a self-guided journey along 180 stairs through an ancient geological wonder. Visitors must be prepared for the unique conditions present while hiking inside Oregon's longest lava tube.

Safety and Comfort

There is no lighting inside the cave. Carry at least 2 light sources at all times. **High Powered LED lights can be rented at the cave entrance** (mobile phone lights are not recommended).

Wear warm clothing, the cave temperature averages 42 degrees year-round.

Wear sturdy closed-toe shoes or boots, the hike requires walking on slippery, uneven surfaces and on steep staircases.

Use the restroom before entering the cave. There are no toilets in the cave. Be prepared to spend more than an hour underground.

Watch your head. Ceiling heights in the cave vary with rocky outcroppings. Child carrier backpacks are not recommended.

Please leave pets at home. Due to abrasive metal stairs and walkways, potential interactions with wildlife, and high volume of people in a confined space, pets are not allowed. There is not enough shade to safely leave pets in vehicles.

Plan Your Trip

Lava River Cave is a very popular and heavily visited site on Newberry National Volcanic Monument. Vehicle reservations are required for resource protection, cave safety, and better visitor experiences.

Vehicle Reservations Required

Parking reservation tickets are valid for the day and time listed on the ticket. A printed or digital copy must be presented for entry to the cave. To make a reservation, visit recreation.gov

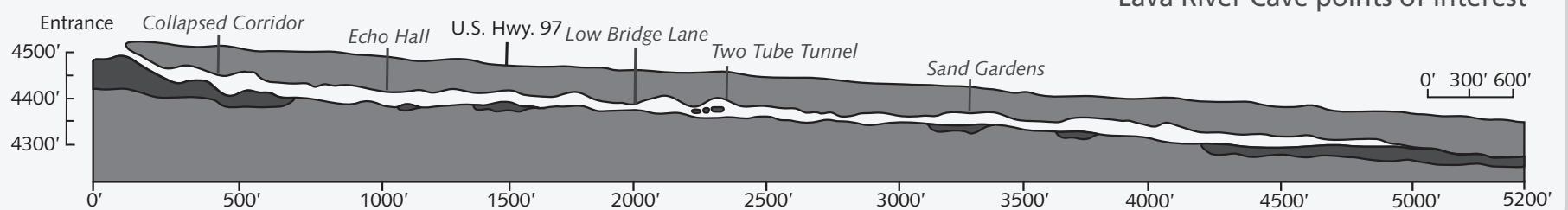
Parking

Park in designated spaces only, DO NOT park on roadway or parking lot shoulder.

Cave Access

Every visitor is required to attend an orientation on White-Nose Syndrome, what to expect in the cave, and cave etiquette. The cave is closed outside of operating hours. **NOTE:** Operations may suspend during unsafe environmental conditions such as unhealthy air quality or extreme heat.

Lava River Cave points of interest



WNS infected tricolored bat.

Photo: By Marvin Moriarty/USFWS

Cave Bat Health and White-nose Syndrome

White-nose syndrome (WNS) has killed millions of bats across the U.S. and Canada since it was first detected in 2006. The disease is caused by a cold-loving fungus that thrives in bat hibernation sites such as caves and mines. It is spread through bat to bat contact and by humans who bring clothing, shoes or gear from a contaminated site to another location. It is extremely fatal for bats but poses no known health risks to humans.

All visitors will be screened to prevent the spread of White-nose Syndrome: If you have ever been in any cave or mine other than Lava River Cave, no item worn or used in that cave or mine is allowed in Lava River Cave. Visitors can either change the boots, clothing or gear that was brought in another cave or they can return another time after changing or decontaminating their items that have been in other caves.

Visit whitenosesyndrome.org for more information and for protocols about decontaminating clothing, boots, and gear.

It is unlikely that you will see a bat in Lava River Cave. However, if you do see a bat, DO NOT TOUCH IT or harass it. Immediately notify a ranger of the location where you saw it.



Scan the code to learn the geologic history of Lava River Cave.

Photo by R. Gentry



Obsidian is a natural volcanic glass, remarkably similar to the glass in your windows. Unlike most rocks, obsidian is formed with minimum crystal growth and has a disordered internal structure similar to liquid.

Don't be a Rock Raider!

Why can't I take a piece home?

Newberry National Volcanic Monument was established by the U.S. Congress on Nov. 5, 1990. As stated in legislation, its purpose is to "preserve and protect for present and future generations Newberry's remarkable geologic landforms." Each of us plays a vital role in caring for our National Monument. Damaging or removing even a small sample of rock degrades the resource and it's illegal (36 CFR 261.9 a and b). Please report any violations to a Forest Service ranger.

How can I see obsidian and learn more?

Travel to **Newberry Caldera** and hike the **Big Obsidian Flow** trail to see this unique volcanic rock. To learn more or to obtain a legally sourced sample of obsidian, visit **Paulina Visitor Center** or **Lava Lands Visitor Center**.

Wildlife Awareness

Newberry Caldera is not only part of a National Monument but is also a wildlife refuge. Leave no trace and always keep a clean camp to prevent wild animals from obtaining human food and garbage.



- Store all food and food-related items in a closed, hard-sided vehicle or suspended at least 10 ft. off of the ground and 4 ft. from any supporting tree or pole.
- Ice chests, coolers, boxes, cans, tents and soft-sided campers are not bear-resistant!
- Store pet food and livestock feed the same as human food, out of reach from bears and other animals.
- Deposit all garbage in wildlife-resistant trash containers.
- Remove all food and garbage from your campsite before you leave.
- Never approach or feed any wildlife.

Don't be careless with food or garbage when camping. Wild animals, especially bears, may wander through at any time, day or night. Wild animals near a campground are more likely to lose their fear of humans. These animals can often become increasingly aggressive in their attempts to obtain human, pet, and livestock food.



photo: J. Whelan

Kids, You Can Be Junior Forest Rangers!

Help take care of Newberry National Volcanic Monument and learn cool information while you visit! If you are between the ages of 5 and 12, you can earn your **Junior Forest Ranger Badge!**

Pick up a booklet at Lava Lands Visitor Center or Paulina Visitor Center. Complete the activities while you explore the monument and then return it to a ranger at either visitor center to earn your badge!



Be a B.A.R.K Ranger!

B = Bag Your Poop. Help keep our forests clean by collecting and disposing of all dog waste.

A = Always Wear a Leash. Pets must be restrained on a leash for visitor and wildlife safety.

R = Respect Wildlife. Keep pets at a respectful distance from any wildlife you encounter.

K = Know Where To Go. Pets should not be left unattended, please don't leave them alone in vehicles. Choose a pet friendly hike or come back another day.

Birding Fun at Newberry

Look up, look down... look all around. Keep your eyes and ears on the lookout for the most common birds spotted at Newberry National Volcanic Monument. Use our quick checklist of birds you may see or hear, and if you have questions about our birds or their habitat, come in and ask at one of our Visitor Centers! What's your favorite bird that you have seen on the monument?



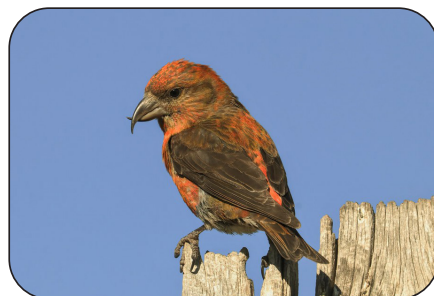
Clark's Nutcracker photo: Laurel Collins

Common Birds of Newberry National Volcanic Monument

- | | |
|--|--|
| <input type="checkbox"/> BALD EAGLE | <input type="checkbox"/> HAIRY WOODPECKER |
| <input type="checkbox"/> CLARK'S NUTCRACKER | <input type="checkbox"/> HOUSE WREN |
| <input type="checkbox"/> COMMON RAVEN | <input type="checkbox"/> NORTHERN FLICKER |
| <input type="checkbox"/> AMERICAN ROBIN | <input type="checkbox"/> CASSIN'S FINCH |
| <input type="checkbox"/> NORTHERN FLICKER | <input type="checkbox"/> RED CROSSBILL |
| <input type="checkbox"/> RED-BREASTED NUTHATCH | <input type="checkbox"/> PINE SISKIN |
| <input type="checkbox"/> HOUSE FINCH | <input type="checkbox"/> WESTERN Tanager |
| <input type="checkbox"/> VARIED THRUSH | <input type="checkbox"/> TREE SWALLOW |
| <input type="checkbox"/> BROWN-HEADED COWBIRD | <input type="checkbox"/> WHITE-BREASTED NUTHATCH |
| <input type="checkbox"/> COMMON Nighthawk | <input type="checkbox"/> MOUNTAIN CHICKADEE |
| <input type="checkbox"/> CHIPPING SPARROW | <input type="checkbox"/> PYGMY NUTHATCH |
| <input type="checkbox"/> YELLOW-RUMPED WARBLER | <input type="checkbox"/> RUFIOUS HUMMINGBIRD |
| <input type="checkbox"/> DARK-EYED JUNCO | <input type="checkbox"/> RED-TAILED HAWK |



Yellow Rumped Warbler photo: Charles Gates



Red Cross Bill photo: Charles Gates



Common Night Hawk photo: Charles Gates

Support Your Monument

Newberry National Volcanic Monument is managed through a partnership between the **Deschutes National Forest** and **Discover Your Forest**. For over a decade, Discover Your Forest has been a proud nonprofit partner of the Forest Service in Central Oregon. Their work connects people to public lands by building and maintaining inclusive outdoor spaces, recruiting and managing a large volunteer force, and educating the next generation of environmental stewards.

You can support them in achieving their mission by visiting retail stores at Visitor Centers and Ranger Stations throughout Central Oregon. They offer books, maps, and educational items that will ignite imagination and exploration in both children and adults. All proceeds directly fund educational, interpretive and volunteer programs, as well as exhibits and publications across our region.

Membership is another way you can show your support. Discover Your Forest members get access to exclusive Ranger-led outings and events, as well as discounts on purchases at locations across Central Oregon. Reciprocal discounts are honored by our cooperating association friends at public lands sites across the United States.

In their first decade of service, Discover Your Forest has provided:

- **2.5 million** visitors to Central Oregon public lands with information and support.
- Over **100,000 K-12 students** with outdoor experiences and conservation education.
- Over **700,000** hours of volunteer service.
- **\$2.6 million** generated through retail funds to support our programs.
- **\$2.6 million** raised through agreements, grants, and individual donors.

Thank you for your continued support of the Monument and Forest! If you'd like to support us in our next 10 years, visit a NNVM Visitor Center or discoveryyourforest.org.

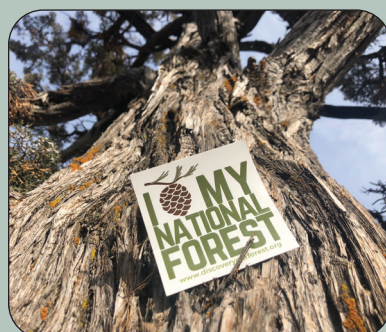


photo: P. Quon



U.S. Forest Service
U.S. Department
of Agriculture

This is the official visitor's guide and informational newspaper for **Newberry National Volcanic Monument**. This publication was produced by **Discover Your Forest**, (a 501c3 nonprofit) in collaboration with **Deschutes National Forest**.



Lava Lands Visitor Center:
541-593-2421

Deschutes National Forest:
541-383-5300

Monument Address:
58201 S. Highway 97
Bend, OR 97702

Mailing Address:
63095 Deschutes Market Road
Bend, OR 97701

Website: www.fs.usda.gov/deschutes

Facebook: www.facebook.com/deschutesnationalforest

X@DesNatlForest

Emergency: 911

Oregon Road Conditions: 511

Crater Lake National Park:
541-594-3000



photo: J. Whelan

Newberry Volunteers Make a Big Impact!

Every year dedicated Volunteers share their passionate interest in volcanoes, science, and the Monument's rich cultural and geologic history. Their essential service helps the Forest Service protect this amazing place and make your experience at Newberry the very best it can be.

You'll find volunteer interpretive rangers guiding school groups, leading nature hikes, keeping trails clean and safe, and sharing information with visitors at Monument visitor centers and signature geologic sites. They enhance visitor experiences through promoting public lands stewardship and teaching Leave No Trace ethics.

Newberry volunteers are part of a successful forest-wide volunteer program that contributes nearly 120,000 hours of service comprising \$2.9 million in donated labor.

You can volunteer and experience the unique wonders of Newberry National Volcanic Monument. Visit discoveryyourforest.org/volunteer for more information or reach a Discover Your Forest volunteer coordinator at 541-383-5530.

Newberry National Volcanic Monument

Lava Lands Visitor Center

Typically open Mid May through Late September mid-October.

Day Use Areas

Open 6am–10pm unless posted otherwise.

Lava River Cave

Typically open Mid May through September 15

Last entry to cave is 2:00 pm daily. Lava River Cave is closed to all visitors outside of operating hours.

The cave typically closes annually on September 16 for seasonal protection of bat populations.

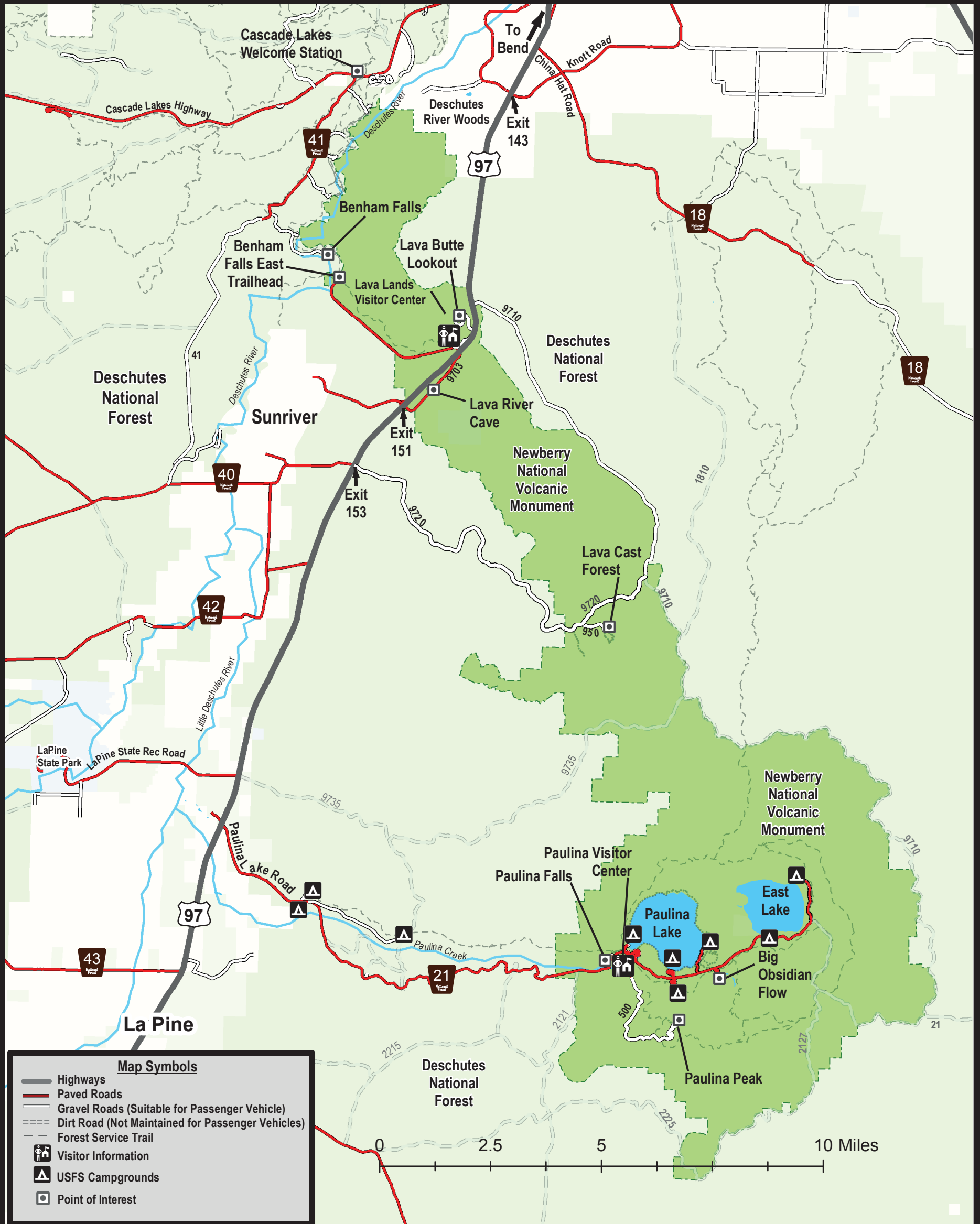
Paulina Visitor Center

Typically opens Mid June (depending on snow levels) through September

Monument Area Campgrounds

Typically open Mid June through late September/October
Paulina Peak Road 500 is typically open late June.

Operating dates and hours are subject to change. Visit www.fs.usda.gov/deschutes



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