

## Volcanic Vistas 2018



photo: Jason Cornell

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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 400,000 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—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!



### Welcome!

Newberry National Volcanic Monument was established within the Deschutes National Forest by Act of Congress in 1990. Newberry is one of only 12 national monuments managed by the U.S. Forest Service.

The Deschutes National Forest and our partners are charged with preserving and protecting Newberry's remarkable geologic landforms. We encourage citizens to explore their public lands and find their special places and stories to tell. Stemming from those personal connections, we will see a society emboldened to cherish and advocate for public lands.

With your continued engagement and support, future generations will be given the same opportunities we have today to enjoy this national treasure.

 Scott McBride  
Monument Manager



Use the QR code to get the **NNVM Volcanic Wonders Mobile App!**

**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.



photo: Heidi Walker

**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.



photo: K. Sperl

**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 6)



photo: Heidi Walker

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



photo: C. Rensch

**Big Obsidian Flow** formed just 1,300 years ago making it Oregon's youngest lava flow.

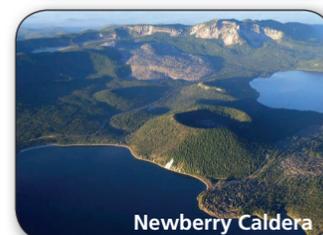


photo: US Forest Service

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



photo: J. Reese

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



photo: C. McNally



## Monument Profile

Newberry National Volcanic Monument encompasses 54,822 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 are not the same. A national monument may be established either by an Act of Congress or by an Executive Order, but a national park may be established only by an Act of Congress. Another difference is that a National Monument can be managed by any of the following federal agencies – the National Park Service, Bureau of Land Management, U.S. Fish and Wildlife Service, or the U.S. Forest Service. Newberry National Volcanic Monument is one of the few Monuments managed by the U.S. Forest Service.

Sweeping views, diversity of life, miles of trails, and many adventures await within Monument's Volcanic Wonders.

### Newberry by the numbers:

- Highest Elevation: 7,984 feet (Paulina Peak)
- Lowest Elevation: 3,960 feet (Deschutes River)
- Oldest Lava Flow: 400,000 years old (McKay Butte)
- Youngest Lava Flow: 1,300 years old (Big Obsidian Flow)
- Paulina Lake Depth: 249 feet
- East Lake Depth: 185 feet

## Good to Know

### 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. Snively



photo: K. Gentry



photo: K. Sperl

## 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. 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, fishers, eagles, and osprey. Mountain lion 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, recreation 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 use bike racks to keep pathways, sitting areas, and doorways clear.** Walk bikes on the sidewalk and patio at Lava Lands Visitor Center. 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 and Paulina Lakes 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. Fees apply for boat launch facilities and services. 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. Help protect these pristine lakes from aquatic invaders. Stop aquatic hitchhikers by cleaning, draining and drying your boat and all equipment.

**All watercraft require an Oregon State Invasive Species Prevention 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. Call the Lava Lands Visitor Center for more information.

## Observe Forest Restoration in Action



Forest restoration efforts are happening in and around Newberry National Volcanic Monument. Forest restoration projects aim to lower the threat of a catastrophic fire, provide for safety in recreation sites, and restore forest health. These projects are carefully designed by a team of foresters and biologists. They require years of planning and implementation to be successful.

Fire is a natural part of Central Oregon's high desert ecosystems, however it has

been suppressed in many of our forests for over a century. This has allowed dead trees, shrubs and other fuels to build up on the forest floor. Without regular intervals of fire, forests also become very dense. Selectively logging trees from an area, also called thinning, opens up space for older growth trees to thrive. Trees will be marked with paint to help the workers operating the logging equipment identify which trees need to be cut and which should remain.

Beetles and other diseases have also caused a large number of trees in the area to die. Some of these trees pose a potential hazard around popular recreation sites. The Forest Service is taking steps to eliminate those hazards. Trees in these areas will also be marked and then removed.

Visitors may see activities related to these projects. Crews will be painting the trees with blue, orange or pink paint. Logging companies are contracted to carry out the exact prescription of removing specific trees. Visitors may see trucks removing heavy loads of timber from the area. After the logging is complete, areas will be rehabilitated to address the impacts of the logging equipment. In some locations, prescribed fires will burn the understory allowing new growth to take place. This returns fire as a natural process to the forest. In return the forest is restored to its natural, healthy state. All of these restoration activities will make forests more resilient to catastrophic fire and disease in the future.



photo: G. Frey



photo: USFS



photo: R. Gentry

## 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 thru Labor Day weekend. Program details are posted at visitor centers and information boards and include Junior Ranger programs, Big Obsidian Flow tours, Lava Lands patio talks, Bike With a Ranger on Sun Lava path, and evening Caldera campground programs. 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. A full schedule of ranger programs can be found at [DiscoverYourForest.org](http://DiscoverYourForest.org)

### Lodging & Dining

Two privately owned lodges in **Newberry Caldera** 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](http://www.eastlakeresort.com)

For information or to make reservations at **Paulina Lake Lodge**, call 541-536-2240 or visit [www.paulinalakelodge.com](http://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 also 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 **Hoodoo Recreation**, contact them directly for reservations:

Information (M-F): 541-338-7869  
Reservations (Daily): 877-444-6777  
[www.hoodoo recreation.com](http://www.hoodoo recreation.com)

**Camp in designated campgrounds within Newberry Caldera.** Dispersed camping is prohibited. Stop by a visitor center for detailed information and to obtain a map identifying dispersed camping locations.

### 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 in established fire rings within designated campgrounds in the Caldera. Campfires may be further limited during fire season. Check campground postings or ask a ranger for more information. Limit firewood collection to 'dead and down' wood for camping purposes only. Chainsaw use is not permitted within campgrounds. Do not carve, chop or otherwise damage vegetation.

### Hot springs

Newberry's hot springs are unique shoreline features of the Newberry Caldera. Sometimes submerged by the lakes, they are also extremely shallow, primitive, and undeveloped. To help preserve and protect this area, follow the regulations prohibiting digging, maintaining a fire or camping anywhere 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) 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 outdoors responsibly. For more information visit [www.LNT.org](http://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. Fares are \$2 per rider (children 2 and under ride free). Fares are cash-only and exact change is required. 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 a great cause!



## 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)
- NNVM 3-Day Pass** (\$10, valid only at Monument Day Use Sites)
- Annual Northwest Forest Pass** (\$30)

### America the Beautiful Passes:

- Annual Pass** (\$80)
- Access Pass** (FREE with valid documentation of permanent disability)
- Senior Annual Pass** (\$20)
- Senior Lifetime Pass** (\$80)
- Military Pass** (FREE for active uniformed personnel)

### Annual 4th Grade Pass

(FREE for all 4th grade students! Visit [www.everykidinapark.gov](http://www.everykidinapark.gov) for info)

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

Recreation fees are an investment you make as a visitor. Without your support, maintaining quality facilities and services you depend on would not be possible. Recreation passes can be obtained at locations shown on page 5 or purchased online at: [www.fs.usda.gov/main/deschutes/passes-permits/recreation](http://www.fs.usda.gov/main/deschutes/passes-permits/recreation)

## Fee Free Days!

No recreation fees are required on the Monument in recognition of the following days:

- June 9 – National Get Outdoors Day
- Sept. 22 – National Public Lands Day
- Nov. 10 & 11 – Veteran's Day



# 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 Interpretive 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 #3957	0.25 mile / 2 miles	200 ft. / 400 ft.		3	Forested trail leads to the falls plunging 80 feet. A shorter hike leads to upper viewing area, and a longer 2-mile hike leads to views from below.
	Silica #3958.5	0.8 mile	50 ft.		3	Hike through a mixed conifer forest from the Little Crater Campground to 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	

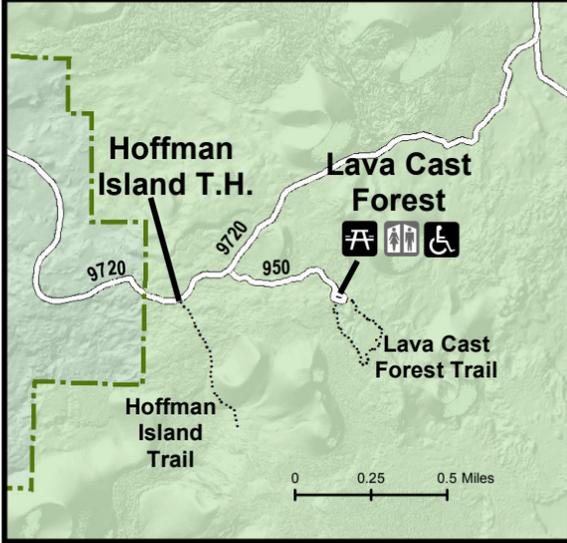
DIFFICULT	TRAIL NAME	MILEAGE	ELEV. GAIN	USE	MAP	DESCRIPTION
	Crater Rim #3957	21 mile loop	1,600 ft.		3	A great mountain bike ride. Shorten the loop by using a connector trail. No water along the way.
	Lava River Cave	1 mile	300 ft.		2	Descend to the underground world of the longest continuous lava tube in Oregon. See page 6 for more info.
	Lost Lake #3958.2	3.8 miles	300 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	2 miles	1,400 ft.		3	A steep hike with huge views waiting on the peak. Trailhead is located on the road to Paulina Peak.
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

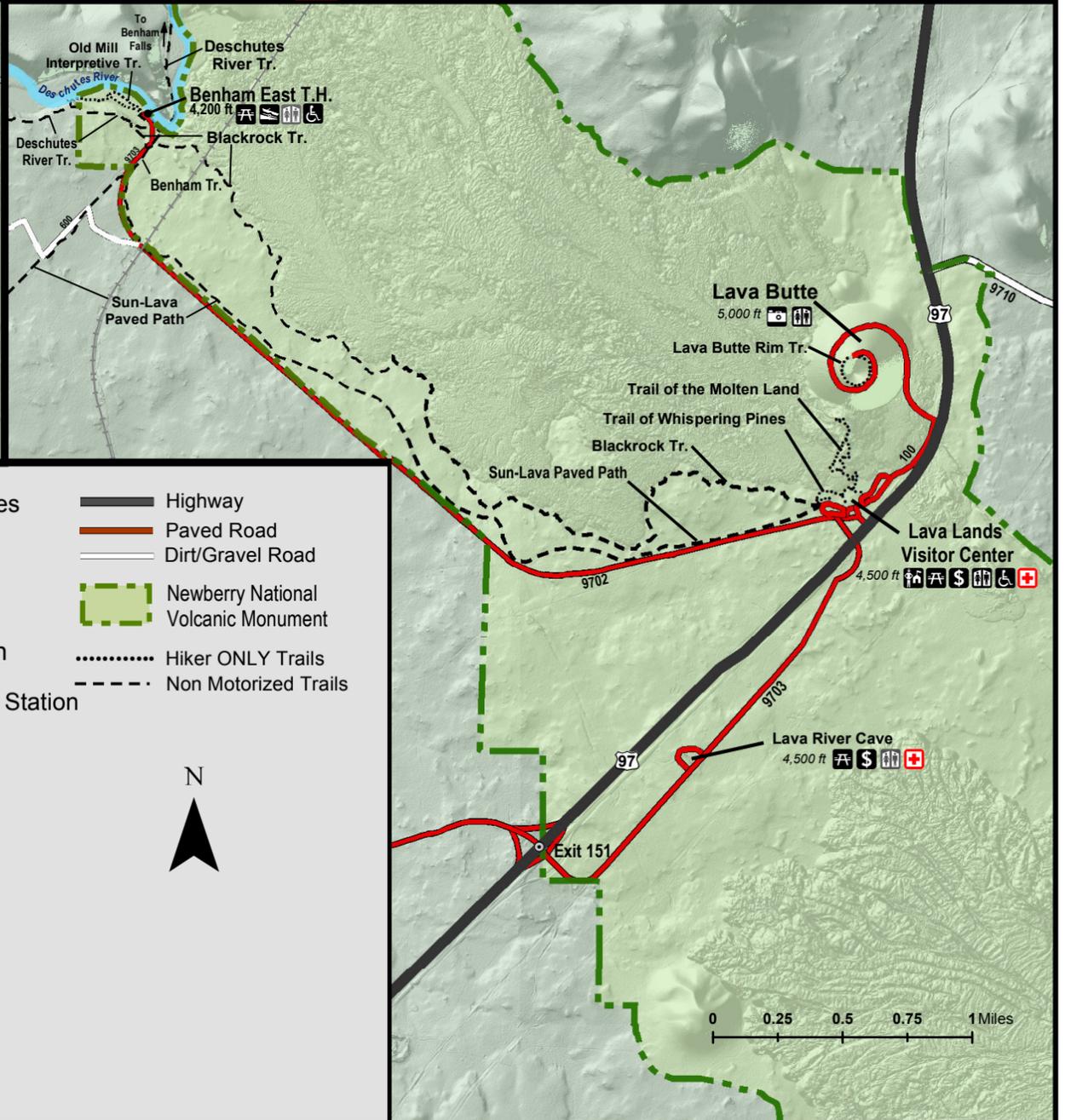
CAMP SITE NAME	AMENITIES	FEE PER NIGHT	TOTAL SITES	RESERVE SITES
Paulina Lake Campground		\$18 / Extra Vehicle \$9	68	42
Newberry Group Camp		Site A: \$75 Site B: \$100, Site C: \$225	3	3
Chief Paulina Horse Camp		\$14 / Extra Vehicle \$7	14	14
Little Crater Campground		\$18 / Extra Vehicle \$9	50	29
East Lake Campground		\$18 / Extra Vehicle \$9	29	18
Cinder Hill Campground		\$18 / Extra Vehicle \$9	110	64
Paulina Lake Lodge		Cabins: \$95 - \$252	14	14
East Lake Resort		Cabins: \$84 - \$245	16	16
East Lake RV Park		Tent: \$25 / RV: \$32	45	45

Posted day use sites within campgrounds require valid recreation pass displayed in addition to any camping fees. See map on page 5 for campsite locations. Please note: some campground reservations may be temporarily limited to allow for tree removal in stands affected by insects and disease.

**Map 1 : Lava Cast**

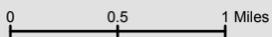


**Map 2 : Lava Lands**



- |  |                  |  |                        |  |                                     |
|--|------------------|--|------------------------|--|-------------------------------------|
|  | Visitor Center   |  | Day Pass Sales         |  | Highway                             |
|  | Camping Area     |  | Restrooms (with water) |  | Paved Road                          |
|  | Accessible Trail |  | Restrooms (no water)   |  | Dirt/Gravel Road                    |
|  | Water            |  | Dump Station           |  | Newberry National Volcanic Monument |
|  | Boat Ramp        |  | Fish Cleaning Station  |  | Hiker ONLY Trails                   |
|  | Picnic Area      |  | Viewpoint              |  | Non Motorized Trails                |
|  | Restaurant       |  | WiFi                   |  |                                     |
|  | Laundry          |  | AED                    |  |                                     |
|  | Amphitheater     |  | Hot Springs            |  |                                     |

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



**Map 3 : Newberry Caldera**

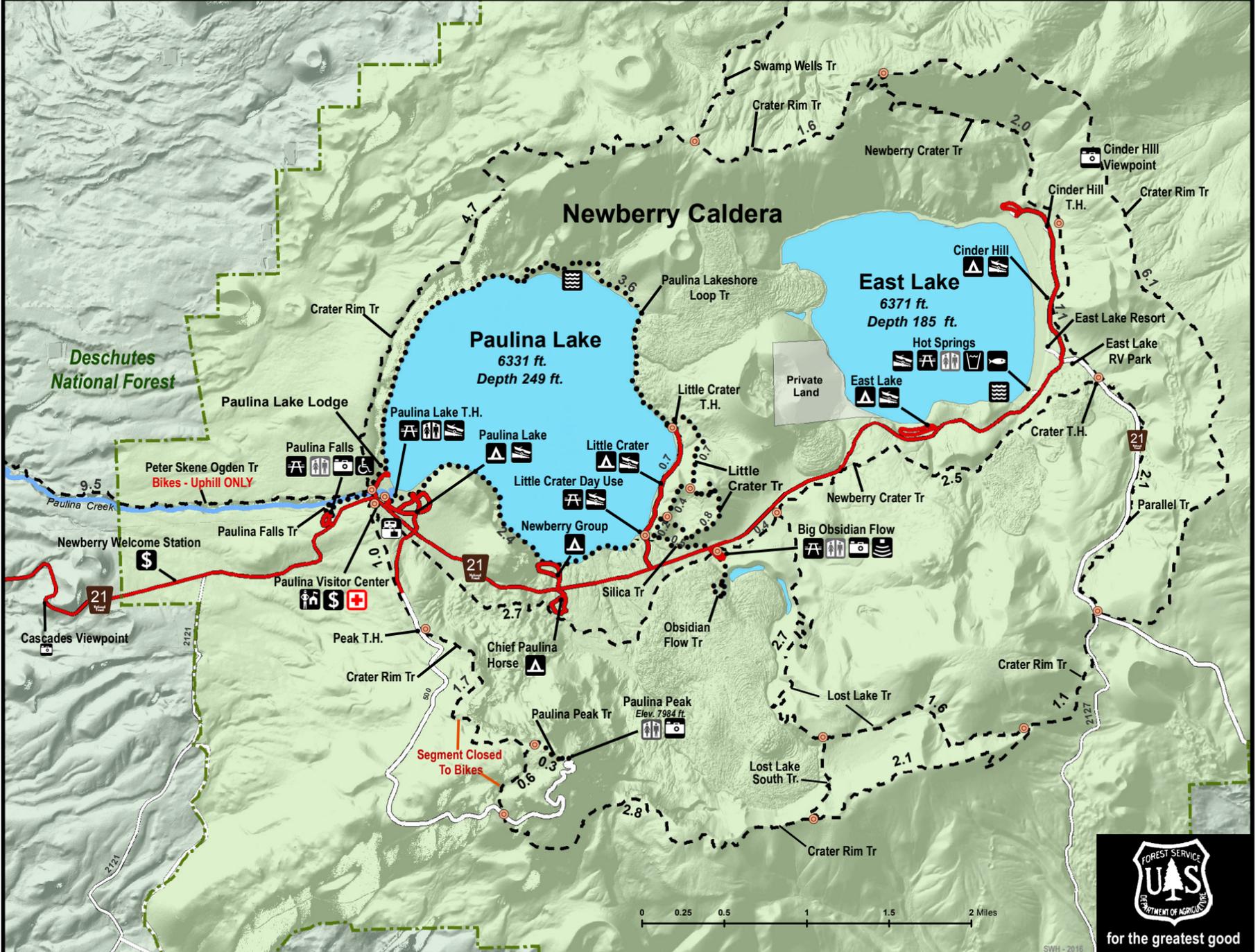




photo: Ralph Saunders

## 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 150 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. Lights can be rented or purchased at the cave entrance.

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 two hours or more underground.

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

Only certified service dogs are allowed in the cave. They are not recommended due to the abrasive metal on stairs and walkways, potential interactions with wildlife and the high volume of people in a confined space. There is not enough shade to safely leave pets in vehicles.

### Cave Access

The crawl space at the end of the cave is closed to visitors for safety and to prevent the spread of White-nose Syndrome.

The cave is closed outside of operating hours.

### Parking

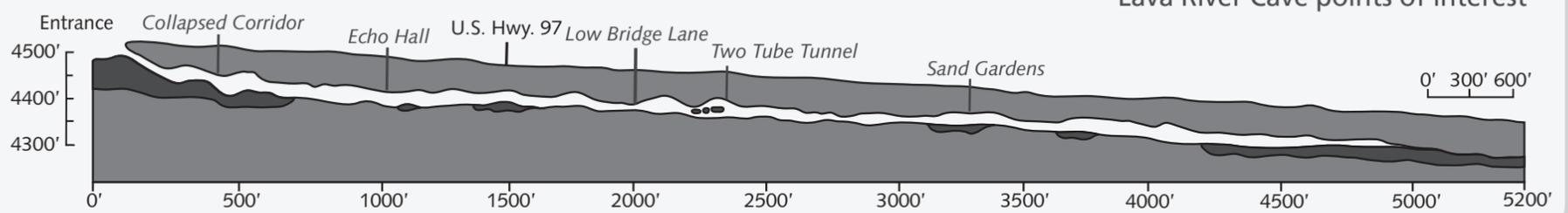
Park in designated spaces only. If the parking lot is full, the cave is at capacity and you can come back another time.

### Plan Your Trip

Lava River Cave is one of the most popular and heavily visited sites on Newberry National Volcanic Monument. Large crowds can result in extended wait times and early cave closure.

Visitors may experience longer wait times when visiting Lava River Cave during peak times of day and peak season. Between June and September, visitors will find easier access and avoid long wait times by visiting the cave before 11:00 am.

### 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 over 7 million bats in the U.S. and Canada since 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](http://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.

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: K. Gentry

## 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 7 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! Kids 6 and under can earn a Smokey Bear pin by completing the **Smokey's Helper Booklet!**

Additional hands-on activities are offered at **Lava Lands Visitor Center**. For schedules and more information, inquire at the visitor center or visit [DiscoverYourForest.org](http://DiscoverYourForest.org)

## Agents of Discovery

Download the AGENTS OF DISCOVERY app to complete interactive mission challenges across Newberry National Volcanic Monument! AGENTS OF DISCOVERY gets families motivated to discover nature, science and culture while exploring our public lands. Once the "Newberry National Volcanic Monument" mission is downloaded in the AGENTS OF DISCOVERY app, kids can complete challenges without cellular or internet reception. Find AGENTS OF DISCOVERY in your device's app store.



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**.



**Monument Hotline:**  
541-383-5700

**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](http://www.fs.usda.gov/deschutes)

**Facebook:** [www.facebook.com/deschutesnationalforest](http://www.facebook.com/deschutesnationalforest)

**Twitter:** @DesNatlForest

**Emergency: 911**

**Oregon Road Conditions: 511**

**Crater Lake National Park:**  
541-594-3000

## More Newberry Fun

### I Spy, You Spy: Scout It Out!

Cross these off as you see them anywhere on the Newberry National Volcanic Monument!



Arrowhead



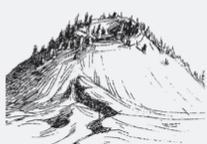
Pine Cone



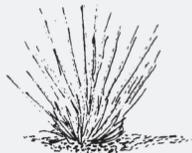
Owl



Deer Antler



Lava Butte



Bunch Grass



Chipmunk



Bird Bath



Bitterbrush



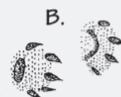
Smokey Bear

### Can You Track an Animal?

Draw a line from the animal to the track it leaves.



A.



B.



C.



D.



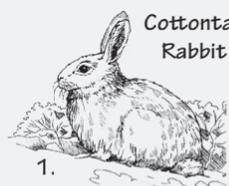
E.



F.



G.



Cottontail Rabbit

1.

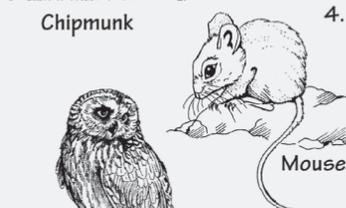


2.



3.

Skunk



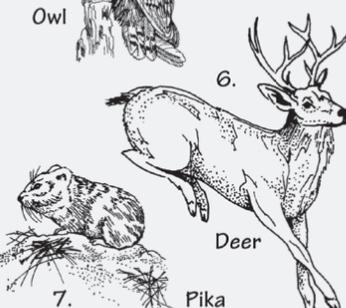
4.

Mouse



5.

Owl



6.

Deer



7.

Pika

A=6 Deer; B=7 Pika; C=4 Mouse; D=3 Chipmunk; E=1 Cottontail Rabbit; F=2 Skunk; G=5 Owl



## Volunteer With Us

Newberry National Volcanic Monument is home to a wonderful group of volunteers. They are the men, women, 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.

Our volunteers are one of Newberry's greatest resources. 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. They enhance visitor experiences through teaching *Leave No Trace* ethics and promoting good stewardship of our public lands.

Newberry volunteers are part of a forest-wide volunteer program that hosts thousands of volunteers each year. Together they contribute nearly 250,000 hours of service comprising \$1.2 million in donated labor.

You can become a volunteer and experience the wonders of Newberry National Volcanic Monument. For more information visit [discoveryyourforest.org](http://discoveryyourforest.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. We offer high quality items for kids and adults that highlight the plants, animals, and geology of Central Oregon and the Pacific Northwest.

**You can also support Discover Your Forest by becoming a member.** Members get great discounts and access to exclusive benefits. Visit one of our Discover Your Forest locations at Lava Lands Visitor Center, Paulina Visitor Center, or Lava River Cave for more information.

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
- Provide free field trips for more than 9,000 K-12 students

To donate, visit one of our locations, go to [discoveryyourforest.org](http://discoveryyourforest.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!



# Newberry National Volcanic Monument

## Day Use Areas

Day use areas on the Monument are open from 6am to 10pm, unless posted otherwise.

## Lava Lands Visitor Center

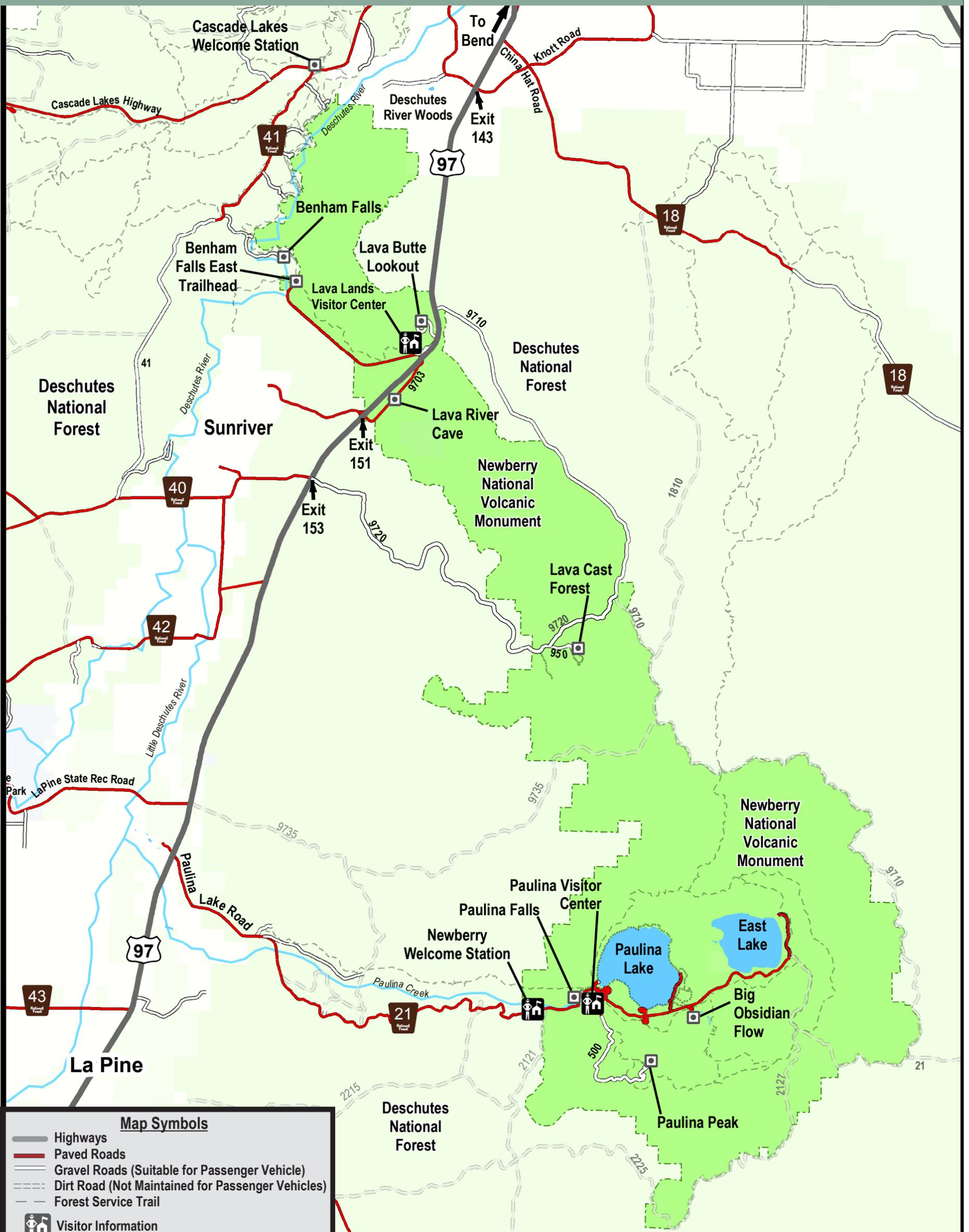
May 3 – May 21, Th to M 10am to 4pm  
 May 24 – Sept. 3, Daily 9am to 5pm  
 Sept. 4 – Oct. 7, Daily 10am to 4pm.

## Lava River Cave

May 3 – May 21, Th - M 10am to 5pm  
 May 24 – Sept. 3, Daily from 9am to 5pm  
 Sept. 4 – Sept. 30, Daily 10am to 5pm  
 Gates close at 3:45pm. The cave is closed to all visitors outside operating hours listed here.  
 Oct. 1 The cave is CLOSED for the season to protect bat populations.

## Paulina Visitor Center

May 26 – June 4, Weekends 10am to 4pm  
 June 9 – Sept. 3, Daily 9am to 5pm  
 Sept. 4 – Sept. 30, Daily 10am to 4pm  
 Oct. 6 – Oct. 7, 10am to 4pm  
 Oct. 8 Paulina Visitor Center is CLOSED for the winter season.



### Map Symbols

- Highways
- Paved Roads
- Gravel Roads (Suitable for Passenger Vehicle)
- Dirt Road (Not Maintained for Passenger Vehicles)
- Forest Service Trail
- Visitor Information
- Point of Interest



In accordance with Federal law and U.S. Department of Agriculture policy, this institution is prohibited from discriminating on the basis of race, color, national origin, sex, age, or disability.