

# Devils Postpile

National Park Service  
U.S. Department of the Interior



National Monument  
California



## Outstanding Formation of Columnar Basalt



*Left:* As basalt lava erupts from volcanic vents and cools, it shrinks and then cracks. Sometimes vertical columns will form. These well-developed columns formed as homogenous lava cooled at a uniform rate.

*Right:* Column tops were polished by past glaciers, as this photo shows. The Devils Postpile columns have from three to seven sides.

*Above:* The 60-foot-high sheer wall was exposed during the last glaciation.



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## Welcome to Devils Postpile

Devils Postpile National Monument rests along the Middle Fork of the San Joaquin River on the Sierra Nevada's western slope (elevation 7,560 feet). The 800-acre monument preserves the columnar basalt formation, Devils Postpile, and 101-foot Rainbow Falls.

Originally part of Yosemite National Park, Devils Postpile lost its protective status in 1905 with pressure from local mining interests. They planned to dynamite the postpile to make a rock dam on the river. This threatened not only the postpile formation and falls but this vital watershed. Activists persuaded President William Howard Taft to restore federal

protection to Devils Postpile and Rainbow Falls by proclaiming the national monument in 1911. In 1984 Congress included 687 acres of the park in the Ansel Adams Wilderness. The long-distance John Muir Trail and Pacific Crest National Scenic Trail traverse the park.

## Beauty From Fire and Ice

**A Volcanic Event** About 82,000 years ago, basalt lava flowed here from an unknown source. This particular lava flow was ideal for column formation: It was thick with a consistent mineral composition, and it cooled slowly and evenly. As the lava cooled it contracted and split into the symmetrical, vertical, hexagonal columns that constitute Devils Postpile.

**A Glacial Event** Some 20,000 to 12,000 years ago a glacier flowed down the Middle Fork of the San Joaquin River and overrode the fractured mass of lava. The moving ice carved away one side of the postpile, exposing a sheer wall of columns 60 feet high. Erosion and earthquakes later felled many columns that now lie fragmented on the talus slope below the postpile.

Hiking atop Devils Postpile reveals a cross section of glacially polished columns that look like floor tiles (*above*)—with parallel grooves cut in them by rock-studded glacial ice.

## Rainbow Falls

The Middle Fork of the San Joaquin River plunges 101 feet over a cliff of volcanic rock. When the sun is overhead on a clear day, rainbows sparkle in the mist rising from rocks below the falls.

Glaciers widened the canyon but did not create Rainbow Falls. The two layers of volcanic rock you see in the cliffs are similar but with an important difference: They are composed of the same lava but they cooled at different rates. On top is the harder, more erosion-resistant rock. Below is the softer, less erosion-resistant rock. Water cascading over the falls wears away the lower, softer rock faster, undercutting the stronger rock and creating an alcove beneath it. As the stronger rock loses support, it caves in and breaks apart into the boulders and rock debris at the bottom of the falls.



Rainbow Falls

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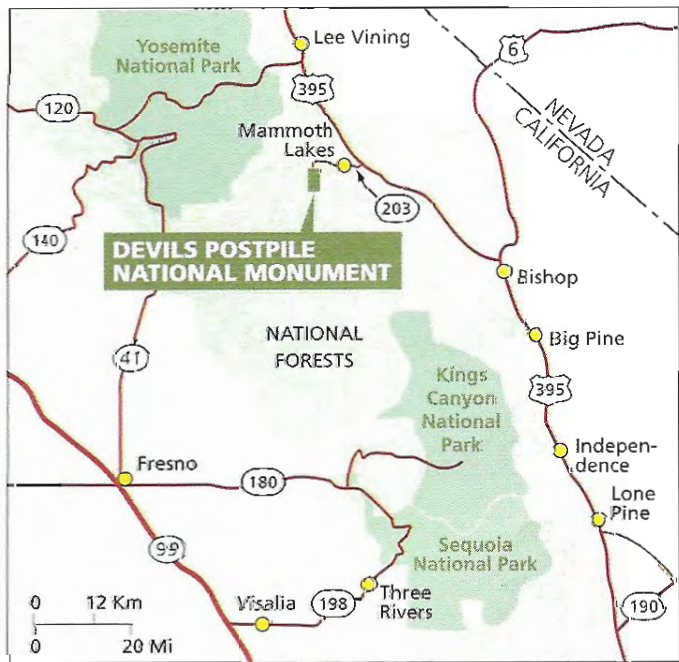
# Exploring Devils Postpile

Devils Postpile National Monument is usually open mid-June to mid-October and closed in winter. For information, call or check the park website.

**Shuttle Bus** From mid-June into September day-use visitors and backpackers going to Devils Postpile and Reds Meadow **must ride the shuttle bus** (large map below). Buy tickets and board buses at Mammoth Mountain Adventure Center. For schedules, fees, and other information, call or visit the park website.

**Ranger Station** Park rangers give interpretive programs, answer questions, help plan your visit, and enforce regulations.

**Hiking Trails** See trail distances on map. Hike west on the King Creek Trail or north-south on the John Muir and Pacific Crest trails. The 211-mile-long John Muir Trail links Yosemite with Sequoia and Kings Canyon national parks, with access at Rainbow Falls trailhead and the ranger station. The Pacific Crest Na-



Belding ground squirrel



Shooting star  
BOTH PHOTOS © DENNIS FLAHERTY

tional Scenic Trail goes from Canada to Mexico. For wilderness permits contact Inyo National Forest: 760-873-2483. *Backpackers must use the shuttle—racks hold backpacks—or walk.*

**Camping** A 21-site campground near the ranger station is open mid-June–September, weather permitting. Bear-proof food storage lockers are provided (see *bear warning*). No reservations, hookups, or showers.

**Fishing/Hunting** Fishing in the national monument requires a California fishing license for persons age 16 or older. Hunting is prohibited.

**Pets** Pets are allowed on all park trails and in the campground. Pets must be leashed and under direct physical control at all times.

**Bicycles** Bicycles are permitted on roads but prohibited on all trails or crosscountry.

**Bear Aware!** Bears live here. Federal law requires proper food storage. Ask for details.

**Accessibility** We strive to make our facilities, programs, and services accessible to all. For information, call or check the park website.

**For a Safe Visit** Stay on designated trails.  
 • Stay back from cliff and gorge edges; falls can be fatal.  
 • Snowmobiling prohibited.  
 • Climbing on the postpile formation prohibited.  
 • Federal laws protect all natural and cultural features. Do not remove or disturb plants, rocks, or animals.  
 • For all regulations, including firearms policy, check our website.

**More Information**  
 Devils Postpile National Monument  
 PO Box 3999  
 Mammoth Lakes, CA 93546  
 760-934-2289  
[www.nps.gov/dep0](http://www.nps.gov/dep0)

Devils Postpile National Monument is one of over 400 parks in the National Park System. To learn more about national parks visit [www.nps.gov](http://www.nps.gov).

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