historic time forbade most Indians to view the lake, and Indians said nothing about it to trappers and pioneers, who for 50 years did not find it. Then, in 1853, while searching for the Lost Cabin Gold Mine, some prospectors, including John Wesley Hillman, happened onto Crater Lake. Soundings with piano wire by a U.S. Geological Survey party in 1886 set the lake's depth at 1,996 feet, close to sonar findings of 1,932 feet officially recorded in 1959. The clean, clear, cold lakewater contained no fish until they were introduced by humans from 1888 to 1941. Today,

National Park

Oregon

rainbow trout and kokanee salmon still survive in Crater Lake. Wildflowers bloom late and disappear early here, thriving in wet, open areas. Birds and other animals often seen are ravens, jays, nutcrackers, deer, ground squirrels, and chipmunks. Present but seldom seen are elk, black bears, foxes, porcupines, pine martens, chickaree squirrels, and pikas.

National Park Service

U.S. Department of the Interior

Rolling mountains, volcanic peaks, and evergreen forests surround this enormous, high Cascade Range lake, recognized worldwide as a scenic wonder. Crater Lake was established as a national park in 1902 after 17 years of lobbying by William Gladstone Steel. He had learned of Crater Lake as a Kansas schoolboy reading a newspaper used to wrap his lunch. On sunny summer days, neither words nor photographs can capture Crater Lake's remarkable blueness. For much of the yearusually October to July at higher elevations-a thick blanket of

snow encircles the lake. Snowfall provides most of the park's annual 69 inches of precipitation. Crater Lake rarely freezes over completely; it last did in 1949. Heat from the summer sun stored in the immense body of water retards ice formation throughout the winter. On the earth clock, natural forces only recently constructed this landscape. Lava flows first formed a high plateau base on which explosive eruptions then built the Cascade volcanoes. Humans probably witnessed the cataclysmic eruption of Mount Mazama 6,850 years ago. Shamans in

Pumice Desert

Block Diagrams The four insets show volcanism stages (above, left to Artist Jaime Quintero's painting creates for you right) leading to Mount Mazama's collapse: 4 p.m. The painting is not selective, as your eye 1 Cone-building began a rior spewed out lake (below) cuts through Wizard Island to take

the mass, weakening it. 3 About 4,850 B.C. so tain had no support and

4 It created the caldera that Crater Lake now

A Vast Volcanic Region The plateau base of the Cascade Range was built as Earth's crust folded pushed toward the surface, creating both violent eruptions and the welling up of lava through enor up of lava inrough enor-mous cracks. In recent geologic time – the past 750,000 years – explosive eruptions built a string of volcanoes on this plateau base. This Cascade Range of volcances extends from Canada's Mount Gari-baldi to Lassen Peak in northern California. One of these great volcances, Mount Mazama, now

holds Crater Lake.

Vents and cones develop

Mount Mazama For half long periods of quiet. Ash cinders, and pumice ex-ploded upward, building the mountain to a height of about 12,000 feet. Par-asitic cones on Mazama's flanks created Mount Scott and Hillman Peak Glaciers periodically cov-ered Mount Mazama's flanks and carved out the U-shaped valleys such as Munson Valley and Kerr Notch. About 6,850 years ago the climactic erup-tions of Mount Mazama occurred. Ash from these eruptions lies scattered

over 8 states and 3 Cana

5,000 square miles were covered with 6 inches of Mazama's ash. In the park's Pumice Desert 42 times greater than those of Mount St. Helens in 1980. The Mazama magma chamber was emptied and the volcano collapsed, leaving a huge bowl-shaped caldera. The nigh mountain was gone. At first the caldera's floor was too hot to hold water Renewed volcanism sealed the caldera and built the Wizard Island and Merriam cones, vol-

The Lake Forms As vol-A Closed System No system. From its begin-ning Crater Lake con-tained no fish. Six species e volcano has not stirred Springs, snow, and rain began to fill the caldera. As the lake deepened and widened, evaporation and were introduced in his-toric time. Of these, 2 remain: rainbow trout and kokanee salmon. Fish are no longer stocked, to pro-tect the natural system. Obtain fishing regulations from park rangers. coming flow. The depth now varies less than 3 feet annually in this, the Nation's deepest lake

Mountain loses internal support

Why So Blue? Light gets absorbed color by color as it passes through clear water. First the reds go, sorbed are the blues Only the deepest blue gets scattered back to the surface where you see it as the color of the water. The water is of course no more blue than the sky is

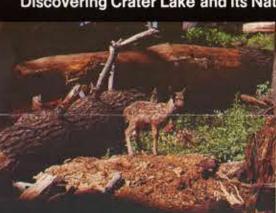
The Name Crater Lake the Oregon Sentinel of crater at the top of Wizard 760 feet above the water.

Facts and Figures
Crater Lake is the deepest lake in the United States,
the second deepest in the Western Hemisphere, and the seventh deepest in the world. Here are some

Average lake depth Maximum lake width Lake surface elevation Wizard Island elevation
Wizard Island height above water
Hillman Peak, (highest point on rim)
Mount Scott, (highest point in park) 6,940 ft 764 ft 8,056 ft 8,926 ft 7,698 ft 7,100 ft Onion reak Rim Village elevation Precipitation, (yearly average) Snowfall, (yearly average) Maximum snow depth at Rim Village Park size 183,180 acres

This cross-section of the lake and rim obscures the Phantom Ship, pictured below. This view was necessary to show the lake's deepest point.

Discovering Crater Lake and its Nature



Klamath Indian















Crosscountry skiing

Fawn **Facilities and Services**

Cone-building phase begins

in the lake's deepest part.

a non-existent overlook on a perfectly clear, pollution-free, mid-summer day when the

atmosphere is perfectly oxygen balanced at

is, but shows a wide-angle view. The vertical

exaggeration. The cross section of the rim and

and horizontal scales are identical, with no

Visitor Center During summer the visitor center at Rim Village is open daily. Park rangers provide information, assistance, and backcountry permits. Services include displays, activity schedules, map and publications sales, and

Sinnott Memorial A paved pathway near the visitor center leads to the memorial overlook; open daily in summer. Here you find an unobstructed view of the lake. Outside, park rangers present short geology talks.

Ranger-led Activities Summer campfire programs are presented at the Mazama Campground amphitheater. Topics change nightly. Ranger-led hikes and special activities for children are offered.

Crater Lake Lodge

Boat Tours From July through early September, narrated boat tours are offered by a concessioner and the National Park Service. The 1%-hour tour circles the inside of the caldera with a stop at Wizard Island and a close-up look at Phantom Ship.

Camping Camping is allowed only at Mazama and Lost Creek Campgrounds, or in the backcountry by permit. Campgrounds open when snow melts in early summer and are closed by snow in the early fall. There are no showers or hookups. Use only dead and down wood for campfires. Mazama Campground, with 198 wooded sites 7 miles south of Rim Village, has restrooms and a dump station. Lost Creek Campground, with 12 sites located on the branch road 3 miles off the southeastern portion of Rim Drive, has water and pit toilets.

Common monkeyflower The Park in Winter

Rim Drive is closed by snow from mid-October to early July. Vehicle access is available only from Oregon Route 62 to Rim Village. Crosscountry skiing and snow play are encouraged only on the unplowed roadways. When skiing along the rim, watch for icy spots, snow cornices, and avalanche areas. Pets may not leave plowed roadways and must be on a leash.

Launching the Start, 1903

Parking is allowed only at plowed parking lots. Overnight parking is by written permission only Backcountry permits are required for overnight

snow camping. There is no gasoline available in

Phantom Ship

the park from October through May. Snowmobiles are permitted only on the north entrance road; see map on the other side of this

Regulations

Climbing inside the caldera rim to reach the lake is permitted only on the Cleetwood Trail.

Pets must be on leashes at all times in the park,

and they are not permitted on the trails. Wild birds and other animals are parts of the natural system protected within the park. Do not feed them. Dependency on human foods may ruin wild animals' ability to survive the long winter

Park regulations require that rocks, plants, wildlife, and artifacts be left undisturbed for their natural and scientific values and for others to

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Vistas Highway 62 and the south access road lead to a year-round lake view, but the north entrance road and Rim Drive are closed from mid-October to July. Rim Drive is a 33-mile roadway that circles the caldera rim. Pullouts provide scenic lake views. From Rim Drive a spur road leads to the Pinnacles area of volcanic spires. The north entrance road crosses the Pumice Desert. The south road winds above Annie Creek

Lodging The rustic Crater Lake Lodge is closed

Mazama Campground from mid-may to mid-October. For reservations, write to Crater Lake Lodge Company, P.O. Box 128, Crater Lake, Oregon 97604, or telephone (503) 594-2511.

Coffee/Gift Shop Snacks, meals, gifts, and film are sold daily at the Coffee Shop. Winter hours are normally 9 a.m. to 4 p.m., snow conditions permitting, with hours extended during the summer. A camper store sells groceries and limited supplies from June through September.

Rim Village, are open daily all year. A U.S. Post Office, located in the Steel Center, is open weekdays in summer. Visitor services include information, first aid, backcountry permits, and map and publication sales. For information, telephone (503) 594-2211 or write: Superintendent, Crater Lake National Park, P.O. Box 7, Crater Lake, Oregon 97604. While in the park, dial 911 for emergencies.

Trails Trails ascend Garfield Peak (1.7 mi), The Watchman (0.8 mi), and Mt. Scott (2.5 mi), and

Crest Trail traverses the park and connecting trails crisscross the backcountry. Information folders are provided on the Godfrey Glen (1 mi), Annie Creek Canyon (1.3 mi), and Castle Crest Wildflower (0.5 mi) trails.

Gasoline Sales The service station near park headquarters, 3 miles below Rim Village, sells gasoline from Memorial Day to October.

Safety Precautions Drive within posted speed limits and always wear seatbelts-they are now



dera rim; volcanic rock is unstable and could crumble beneath your feet. Automobile drivers and bicyclists should be cautious of one another on the narrow Rim Drive. Mountain bikes are allowed only on open, paved roads, and the unpaved Grayback Nature Trail.

Crater Lake is a unit of the National Park System, which consists of more than 350 parks represent-ing important examples of our country's natural and cultural inheritance.



