

# Grand Canyon

National Park Service  
U.S. Department of the Interior  
Grand Canyon National Park  
Arizona



# The Guide

South Rim: May 24–September 7, 2009  
Also available in Deutsch, Español, Français,  
Italiano, 日本語, 中文



NPS photo by Michael Quinn

## Welcome to Grand Canyon National Park

The Grand Canyon we visit today is a gift from past generations. Take time to enjoy this gift. Sit and watch the changing play of light and shadows. Wander along a trail and feel the sunshine and wind on your face. Follow the antics of the ravens soaring above the rim. Can you hear the river roaring in the gorge far below? We must ensure that future generations have the opportunity to form connections with this inspiring landscape.

A few suggestions may make your visit more rewarding. The information in this publication will answer many of your questions about the South Rim. Stop by a visitor center and talk with a ranger. Participate in a ranger-led activity. Save gas and frustration; park your vehicle and ride the free shuttles. Watch a sunrise or sunset. Walk out at night to enjoy the star-filled sky or the moon-lit canyon. Pause at a viewpoint and listen to other visitors proclaiming the beauty of the canyon in many languages.



### Ride the Free Shuttle Buses

To make your stay at Grand Canyon National Park less hectic and to reduce traffic congestion, use the free shuttle buses. The shuttles operate from before sunrise to after sunset, come by frequently, and the drivers never get lost. Read the article on page 7 and the map on pages 10–11 for more details.

## Construction Ahead! Drive Cautiously.

Road construction in the Mather Point–Canyon View Information Plaza area continues throughout the summer. When the project is completed this fall, the road will skirt the south side of Canyon View Information Plaza and additional parking will provide easy access to the visitor center and rim. See additional information on this project on page 9.

**Drive slowly and obey all construction zone signs and flaggers.**

## Stop in One of the Visitor Centers



### Grand Canyon Visitor Center:

The visitor center is in Canyon View Information Plaza, south of Mather Point, but you cannot drive there. Park your vehicle at Mather Point and walk the 300 yards to the visitor center or ride the free park shuttles. Watch for construction in this area. Open daily 8:00 a.m.–6:00 p.m.

**Verkamp's Visitor Center:** On the rim east of Hopi House, Verkamp's Visitor Center hosts a bookstore and exhibits about the pioneer history of Grand Canyon Village. Enjoy the 100-year-old Verkamp's Curios building and walk along the Rim Trail. Open daily 8:00 a.m.–7:00 p.m.

**Yavapai Observation Station:** The exhibits in this historic building illustrate the geology of Grand Canyon. Enjoy the view from the panoramic windows 8:00 a.m.–8:00 p.m. daily.

**Tusayan Museum:** This historic building sits beside an ancestral Puebloan village first excavated in the 1930s. Displays feature elements from Native American cultures both modern and historic and includes a large painting depicting a scene of the village as it might have appeared 800 years ago. A short, paved trail circles the excavation. The museum and bookstore, 3 miles west of Desert View, is open 9:00 a.m.–5:00 p.m. daily.

## Look inside for information on:

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## What Time Is It?

Most of Arizona, including Grand Canyon National Park, remains on Mountain Standard Time year-round. During the summer, Arizona is on the same time as California and Nevada and one hour earlier than Colorado, New Mexico, and Utah.

## Emergency: 911

24 hours-a-day dial  
911 from any phone  
9-911 from hotel phones




Thinking of Hiking?  
See pages 16–17

The National Park Service cares for special places saved by the American people so that all may experience our heritage.

# Ranger Programs

During your visit the National Park Service encourages you to participate in the programs listed below. All programs are free.













## Grand Canyon Village

Activity	Location	Time	Duration	Frequency
<b>Cedar Ridge Hike</b>  <p>With a ranger, descend 1,140 feet (350 m) below the rim on the unpaved South Kaibab Trail to Cedar Ridge. This strenuous 3-mile (5-km) round-trip hike is not recommended for people with heart or respiratory problems or difficulty walking. Participants should wear sturdy footwear and bring 1–2 quarts (1–2 liters) of water per person. Hat, sunscreen, and snacks strongly recommended. Hikers cannot drive to the trailhead. Ride the free Village Route shuttle bus to Canyon View Information Plaza and hop on the Kaibab Trail Route shuttle bus by 6:40 a.m. Allow 45 minutes for total travel time.</p>	<b>South Kaibab Trailhead</b>	7:00 a.m.	3–4 hours	Daily
<b>Fossil Walk: Remnant Impressions</b>   <p>Walk among brachiopods, sponges, and other marine creatures that thrived on this part of the continent 270 million years ago, before the age of the dinosaurs. This easy ½-mile (0.8 km) one-way walk explores an exposed fossil bed along the rim. Parking may be limited; park in Lots C, D, or E or ride the free Village Route shuttle to the Bright Angel Lodge stop.</p>	Patio on rim side of <b>Bright Angel Lodge</b>	9:00 a.m.	1 hour	Daily
<b>Colorado River Talk</b>   <p>Enjoy the grandeur and power of the Colorado River as you explore and discuss the river's role in Grand Canyon. Program may include a short walk on a paved path. Parking may be limited; plan to arrive by the Village Route shuttle bus to the Yavapai Observation Station stop.</p>	Bicycle rack outside <b>Yavapai Observation Station</b>	10:00 a.m.	30–45 minutes	Daily
<b>Introduction to Grand Canyon's Geology</b>   <p>Why is the Grand Canyon so deep, wide, and grand? Why does it exist only here in the world? Come and participate in this fascinating talk to learn how Grand Canyon was formed. Plan sufficient time to arrive at the visitor center by the free Village Route shuttle bus.</p>	<b>Grand Canyon Visitor Center</b> at Canyon View Information Plaza	10:30 a.m.	30–45 minutes	Daily
<b>The Human Story</b>    <p>For thousands of years, humans have been part of Grand Canyon. Join park staff outside of Verkamp's Visitor Center to take a look at the history of the South Rim area. Programs may include a walk around the village historic district or a talk inside if the weather is poor. Parking may be limited; consider parking at Lots C or D or riding the free Village Route shuttle bus to the Train Depot stop.</p>	<b>Verkamp's Visitor Center</b> front porch	1:00 p.m.	30–45 minutes	Daily
<b>Rim Walk</b>    <p>Grand Canyon is a colorful landscape with a rich history. Enjoy an intriguing walk with a park ranger exploring the canyon's natural and cultural history. This is an easy, up to one-mile (1.6-km) walk on a paved trail. Parking may be limited; consider parking at Lots C or D or riding the free Village Route shuttle bus to the Train Depot stop.</p>	<b>Verkamp's Visitor Center</b> front porch	2:30 p.m.	45–60 minutes	Daily
<b>Geo-Glimpse</b>   <p>Enjoy the geology exhibits at Yavapai Observation Station and explore a selected aspect of the canyon's geology during these short talks.</p>	Inside <b>Yavapai Observation Station</b>	3:00 p.m.	15–20 minutes	Daily
<b>Condor Talk: Wings over the Canyon</b>   <p>What highly endangered bird with a 9-foot (2.7-m) wingspan is often spotted at Grand Canyon? The California condor! Learn about these majestic birds and their reintroduction in northern Arizona in a talk on the canyon's rim. Parking is limited; consider parking at Lots C or D or riding the free Village Route shuttle bus to the Bright Angel stop.</p>	In front of <b>Lookout Studio</b> near Bright Angel Lodge (You may have to use stairs to arrive at the program site.)	3:30 p.m.	30–45 minutes	Daily
<b>Evening Program</b>    <p>The perfect way to end your day at the Grand Canyon! Relax beneath the stars and enjoy a ranger presentation on a significant aspect of the canyon's fascinating natural or cultural history. For this evening's topic check the schedules posted around the park. Arrive by walking, driving, or riding the free Village Shuttle Bus. Dress warmly and bring a flashlight for this outdoor presentation. Accessibility note: Although the trails to the amphitheater are paved, short sections exceed 5% grade.</p>	<b>Mather Amphitheater</b> , behind Park Headquarters, a short walk from Parking Lot A	8:30 p.m.	1 hour	Daily

We hope that learning more about Grand Canyon National Park and its resources will lead to a greater appreciation of your national park.

## Family Fun

Although children may enjoy many of the activities listed on the adjacent page, the following programs are designed especially for families. Please remember that children must bring an adult with them to all programs. Learn about the Junior Ranger Program on page 6.

<p><b>Junior Ranger Adventure Hike</b>  </p> <p>Experience Grand Canyon below the rim. Join a ranger on the challenging Hermit Trail to enjoy Grand Canyon's wonders. Participants may explore a fossil site and the colorful rocks, create artwork, learn about plants, animals, and safe hiking techniques. This one- to two-mile (2-3 km) round-trip hike is strenuous; bring water, good hiking shoes, a hat, and sunscreen. This hike is ideal for families with children ages 9-14. Participants are eligible to purchase a Junior Ranger Adventure Hike patch. To arrive on time for this program, board the free Hermits Rest shuttle bus by 8:00 a.m. <b>Offered June 9 through August 15.</b></p>	<p><b>This program offered June 9 through August 15.</b></p>			
<p><b>Alien Invaders!</b>  </p> <p>Help conquer Grand Canyon's alien invaders! Learn about the invasive species that are threatening the park's native plants and animals. Be ready to roll up your sleeves and join in the fight against alien invaders by helping remove some of Grand Canyon's <i>least</i> wanted invasive plants. <b>Offered June 9 through August 13.</b></p>	<p><b>This program offered June 9 through August 13.</b></p>			
<p><b>Junior Ranger Discovery Pack Program</b>  </p> <p>Explore the ecological wonders of Grand Canyon with your family and discover the diversity of plants and animals that live here. Learn to use binoculars, field guides, and other tools of a naturalist. This program is designed for families with children ages 9-14. Participants are eligible to purchase a Discovery Pack Junior Ranger patch. Parents sign out the Discovery Packs with a driver's license and must return them to Park Headquarters no later than 4:00 p.m. the same day. Ride the free Village Route shuttle bus to the Shrine of Ages stop or park in Parking Lot A. <b>This program begins June 7.</b></p>	<p><b>This program begins June 7.</b></p>			
<p><b>Kids Rock!</b>  </p> <p>Join a ranger for fun activities exploring the wonders of the natural world at Grand Canyon. Rangers lead children ages 7-11 through games and activities in a fun educational experience. Possible themes include fire ecology, water, insects, bats, and much more! <b>This program begins June 7.</b></p>	<p><b>This program begins June 7.</b></p>			
<p><b>Storytime Adventures</b>  </p> <p>Hear a ranger reading fun children's books about Grand Canyon. Props and interactive games bring the stories to life. This program is for families with children ages 2-6. Children receive a condor tattoo or sticker. <b>This program begins June 7.</b></p>	<p><b>This program begins June 7.</b></p>			
<p><b>Way Cool Stuff for Kids</b>  </p> <p>Join a ranger for interactive games and fun activities designed to introduce children ages 7-11 to the way cool environment of Grand Canyon. Themes—including animal adaptations, predator-prey relationships, invasive species, and more—promote an appreciation of the outdoors and our national parks. <b>Offered June 7 through August 15.</b></p>	<p><b>This program offered June 7 through August 15.</b></p>			
<p><b>Additional Family Programs</b></p>				
<p>As staffing permits, rangers will offer additional junior ranger programs for families, which may include night hikes and full moon walks. Look for signs in the village area or at the Visitor Center to confirm times and availability.</p>				





# Ranger Programs, continued

## Special Programs – Grand Canyon Village

Activity	Location	Time	Duration	Frequency
<b>Full Moon Walks and Star Talks</b>				
See page 7 for sunset times and moon phase dates.				
During nights around the full moon and new moon, rangers may offer moon walks and star talks at the Mather Point overlook. Check bulletin boards at the visitor centers and campgrounds to see if these events are scheduled. <b>Programs may be presented in the 3 days around new and full moons.</b>	<b>Mather Point</b>	One hour after sunset	1 hour	3 days around new and full moons

<b>Campfire Program</b>				
Return to the roots of the national park experience for an evening program around a campfire. Rangers will offer nightly programs at the Mather Campground campfire circle as staffing permits. Check at the visitor centers or bulletin board in the campground to see if a program is being offered.	<b>Mather Campground</b> , Sage Loop Campfire Circle	7:00 p.m.	45–60 minutes	As staffing permits

<b>Additional Programs</b>				
As staffing permits, rangers will offer additional programs which may include Fossil Walks, Kolb Studio Tours, and condor programs as staffing is available. Look for signs in the Village area or at the visitor centers to confirm times and availability.	Locations vary	Varies	Varies	Varies

## Desert View and Tusayan Museum

<b>Glimpses of the Past</b>				
Have you ever wondered how 800 years ago people found food, water, and shelter? Join a ranger to explore the remains of an ancestral Puebloan village and envision a thriving community in this harsh and demanding environment. This walk entails a journey on a 0.1 mile (0.2 km) flat, paved trail.	<b>Tusayan Museum</b> , 3 miles (5 km) west of Desert View	11:00 a.m. and 3:30 p.m.	30 minutes	Daily

<b>Cultural Connections</b>				
The story of human experience at Grand Canyon spans the last 12,000 years. Bring your imagination and explore people's stories, past and present.	<b>Tusayan Museum</b> , 3 miles (5 km) west of Desert View	2:00 p.m.	20 minutes	Daily

<b>The Spirit of Sunset</b>				
See page 7 for sunset times.				
Tranquility . . . Inspiration . . . Spectacular colors and the natural sounds of the canyon. Leave the crowds behind and end your day at Desert View. Each ranger's passion for one of the canyon's unique facets is presented during this program. Wear weather appropriate clothing. <b>See page 7 for sunset times.</b>	<b>Desert View Point</b> near the Watchtower	1 hour before sunset	45 minutes	Daily

## Inside the Canyon You must hike or ride the mules to these locations.

<b>Indian Garden</b>				
Rangers present evening programs at the amphitheater just south of the Indian Garden Campground. Check the bulletin board in the campground for times and topics. Rangers also post information on additional programs as scheduling permits.	<b>Indian Garden</b> on the Bright Angel Trail.	As posted	Varies	Thursday through Sunday

<b>Phantom Ranch</b>				
Programs are given daily at Phantom Ranch, reachable only by hiking or riding the mules to the bottom of the canyon. Talks cover a wide range of natural and cultural history topics. Upon arrival, check the Bright Angel Campground bulletin board or the Phantom Ranch Canteen for program locations and subjects. Junior Ranger activity booklet available.	<b>Phantom Ranch</b>	4:00 p.m.	45 minutes	Daily
		7:30 p.m.	45 minutes	Daily

### Children must be accompanied by an adult on all programs.

These family-oriented programs are ideal for meeting the ranger program requirement for the Grand Canyon's Junior Ranger award. Any ranger program, however, will meet the requirement on page 2 of the Junior Ranger Activity Booklet.

All outdoor programs may be canceled during rain, snow, or lightning storms.

These programs are wheelchair accessible with assistance. Wheelchairs may be checked out at the visitor center free of charge.

# Special Programs

## South Rim Star Party: June 13–20



Celebrate the International Year of Astronomy by exploring the night sky during the 19th annual Grand Canyon Star Party at Yavapai Point with Tucson Amateur Astronomy Association volunteers. Come to Yavapai Observation Station for a slide presentation at 8:00 p.m., then view the night sky through telescopes. Dress warmly. A flashlight and lawn chair are recommended. Parking is extremely limited. Please walk or arrive by Village Route shuttle bus, which runs until 11:00 p.m.

## Digital Photography Workshops: July 5–27

The National Park Service hosts Canon and American Park Network in presenting free digital photography workshops. Join a photo walk with seasoned professionals who share their experience taking landscape and wildlife photographs using the latest digital technology.

Jonathon Long, a professor of photography at Montana State University, will lead the team of photographers for this summer's workshops. Jon has spent considerable time in nearby Zion National Park photographing under the direction of Chief of Interpretation Tom Haraden. Jon has also worked as an assistant with well-known photographer Thomas Mangelson. Jon will be supported by seven teammates with backgrounds in wildlife and landscape photography who will make the program memorable for anyone who takes it.

Photography walks are led by a Canon Explorer of Light member. Canon's Explorer of Light program is comprised of a group of the most celebrated, internationally-known photographers ever assembled. By attending a weekend photo walk, you will not only learn to improve your photo composition skills, but also be inspired by the photo professionals who conduct each photo walk.

No cameras are necessary. Canon provides digital single-lens reflex bodies and lenses for all participants. Please arrive approximately 15–30 minutes before the class begins to receive your equipment. All participants receive a CD and prints of the images they have taken.

### Photo Walks

**When:** July 5–27, 8:30 a.m. and 12:00 noon daily, except Tuesday and Wednesday  
**Where:** Meet Mather Amphitheater behind Park Headquarters (Parking Lot A)  
**Duration:** 1–2 hours

The programs continue in the evenings with a slide show.

### Evening Slide Show

**When:** July 5–27, 6:00 p.m. daily, except Tuesday and Wednesday  
**Where:** Shrine of the Ages auditorium (parking lot A west of Park Headquarters)  
**Duration:** 45 minutes



# Canon



## 26 Years of Music at the Canyon

The Grand Canyon Music Festival celebrates its 26th season September 11–26 with week-end and mid-week concerts in the Shrine of the Ages auditorium. The Festival also presents the ninth season of its *Native American Composer Apprentice Project* with music education programs at Navajo and Hopi Reservation schools. Music Festival performers also work with students at the Grand Canyon Unified Schools for the third season of the *School of Rock*.



This year's musicians span the musical world from classical to modern. For programming notes and ticket information, visit the Music Festival's website at [www.grandcanyonmusicfest.org](http://www.grandcanyonmusicfest.org) or call (800) 997-8285.

**September 11 and 12:** The season opens with the string band ETHEL, the Native American Composer Apprentice Project's ensemble-in-residence. ETHEL incorporates rock, blues, classical, and jazz to create their own unique sound.

**September 18:** The Bonfiglio Group (Robert Bonfiglio, Joe Deninson, and Chris Milletari) performs jazz and blues.

**September 19:** Grand Canyon Music Festival founders Clare Hoffman and Robert Bonfiglio and friends perform works by J.C. Bach, Peter Schickele, and Steven Foster.

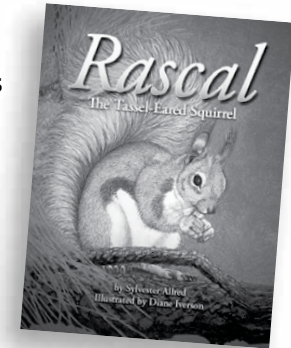
**September 20:** ETHEL presents the world preview concert of the compositions from the Navajo and Hopi student participants in the Native American Composer Apprentice Project.

**September 25 and 26:** The season concludes with the Enso String Quartet performing works by Ravel and Schumann.

## Kolb Studio Exhibits

### Through July 10: Wild about Children's Books—Wildlife Art for Kids

Children's books combine engaging imagery and vivid language to tell their stories, while at the same time fostering literacy. Three new children's books about the Southwest are featured in this dazzling exhibition that demonstrates why books continue to thrive in an electronic age. Admission is free.



### August 1–September 7: Paint the Parks

The annual Paint the Parks competition celebrates the public treasures managed by the National Park Service. Selected from thousands of entries by the PaintAmerica Association, the winning artworks from the 2009 competition feature natural and cultural subjects from parks and monuments across the nation. Admission is free.

Sponsored by the Grand Canyon Association and Grand Canyon National Park

# Enjoying Grand Canyon

## Superintendent's Welcome



Summer is always an exciting time to visit Grand Canyon National Park. The long, warm days encourage exploration. Hike a trail, participate in a ranger activity, watch a sunrise or sunset, or

experience the majesty of a thunderstorm. Sit on a sunny rock and listen to the wind, envy the soaring ravens and condors, and try to identify the languages spoken by other visitors.

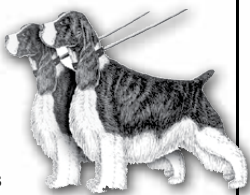
This year we celebrate the 90th anniversary of the designation of Grand Canyon National Park. Thanks to the foresight of congress and President Wilson we have this awe-inspiring landscape preserved so that we may share it with people from around the world.

Throughout the summer a construction project at Mather Point will provide additional parking at Canyon View Information Plaza and will relieve some of the congestion in the area. Please drive carefully in the construction zone. Come back another time to enjoy these improvements.

Steve Martin, Superintendent

## Pets Must Be Leashed at All Times

Leashed pets are allowed on rim trails throughout the developed areas of the South Rim, but not below the rim. The only exception is service animals.



Persons wishing to take a service animal below the rim must check in first at the Backcountry Information Center. Kennels are available. Telephone: (928) 638-0534.

## Planning Your Grand Canyon Experience



Individual interests, available time, and the weather can influence your visit. Use the information in this publication and talk with a ranger in one of the visitor centers to help make your Grand Canyon experience memorable.

### If you have only an hour or two

Go to one of the viewpoints such as Mather, Yavapai, or Yaki Points and immerse yourself in the view. Walk a short distance along the Rim Trail and watch the changing patterns of light and shadow in the canyon.

### If you have half a day

Stop at one of the visitor centers and learn more about the geology or history of the area. Participate in a ranger program. Ride the Hermits Rest Route shuttle to Hermits Rest, getting off at the Monument Creek Vista stop and walking or bicycling the Greenway Trail to Pima Point.

### If you have all day

Walk a short distance down the Bright Angel or South Kaibab Trails, keeping in mind that it is much easier walking down than climbing back up. Drive east on Desert View Drive, enjoying the overlooks along the way and stopping at Tusayan Museum and the Desert View Watchtower. Be at one of the viewpoints an hour before sunset to savor the changing colors and shadows. Help your children attain their Junior Ranger badge.

### If you have two or more days

The canyon is yours to enjoy and explore. Arise early and take in a sunrise. Hike a trail and notice how much warmer it becomes as you descend into the canyon. Venture away from the popular viewpoints and experience the quiet of the canyon. Attend a couple of ranger-led activities, ending your day with the Evening Program.

## Environmental Education Class Field Trips and Teacher Workshops

The Environmental Education staff invites teachers and students to take advantage of our free educational programs. We offer nine ranger-led field trip programs at the canyon covering geology, ecology, and history topics. The curriculum-based programs are designed for grades K-7 and address Arizona and national academic standards. During January and February, rangers conduct in-class presentations throughout Arizona and neighboring states. Distance learning programs via two-way video-conferencing are also offered. All programs are popular, so advanced reservations are required. Contact the park as soon as possible to schedule your activity.

Free teacher workshops cover suggested pre- and post-visit activities, as well as walk-throughs of the programs at the canyon. Park staff conducts workshops several times each year. For more information or to make reservations for either student activities or teacher workshops call (928) 638-7931 or visit [www.nps.gov/gca/forteachers/](http://www.nps.gov/gca/forteachers/).



## Would you like to be a Junior Ranger?

The National Park Service offers a Junior Ranger program for children ages 4 and older.

Pick up a *Junior Ranger Activity Book* at the Grand Canyon Visitor Center at Canyon View Information Plaza, Verkamp's Visitor Center, or Tusayan Museum information desk and complete the activities listed for the appropriate age level. A special Junior Ranger program is available at Phantom Ranch.

Once completed (don't forget attendance at one or more ranger programs) bring the booklet back to the Grand Canyon Visitor Center at Canyon View Information Plaza, Verkamp's Visitor Center, or Tusayan Museum to receive an official Junior Ranger certificate and badge.



## Cell Phone Tour

Your cell phone provides another way to learn more about Grand Canyon National Park. You can listen to a narration over your cell

phone at numerous points of interest on the South Rim between Maricopa and Yaki Points.

Wherever you see a cell phone tour sign, dial (928) 225-2907 and enter the indicated stop number. You will hear an interpretive ranger give a two-minute synopsis on various aspects of the canyon from geology to Native American history to the night sky.

There is no additional charge to listen to these messages. Please be aware that cell phone coverage can be spotty and not all providers offer service in the park.





# Enjoying Grand Canyon

## Information Centers

(see pages 2–4 for ranger programs at these locations)



### Kolb Studio

Once the home and business of the Kolb brothers, pioneering photographers at Grand Canyon, this building has been restored. Visit the free art exhibits in the auditorium and shop in the bookstore. Kolb Studio is located in the Village Historic District, at the Bright Angel Trailhead. Open daily 8:00 a.m. to 7:00 p.m. See page 11 for art exhibits displayed here. Free admission.



### Verkamp's Visitor Center

The newest visitor center resides in one of the oldest buildings on the South Rim. Operated as a curio shop for more than 100 years by the Verkamp family, the building now features displays telling the history of Grand Canyon Village. The visitor center and bookstore are open daily 8:00 a.m. to 7:00 p.m. See pages 2–3 for ranger programs beginning here.



### Yavapai Observation Station

How old is the canyon? How did it form? The exhibits at Yavapai Observation Station answer these and other geology questions. The historic building, located one mile (1.6 km) east of Market Plaza, features expansive canyon views. The bookstore offers a variety of materials about the area. Open daily 8:00 a.m. to 8:00 p.m. See page 2 for ranger programs beginning here.



### Canyon View Information Plaza

Don't forget to visit the Grand Canyon Visitor Center and Books and More bookstore at the Canyon View Information Plaza. Reachable by free shuttle bus or a short walk from Mather Point. The visitor center is open daily from 8:00 a.m. to 6:00 p.m., while the bookstore is open daily from 8:00 a.m. to 8:00 p.m. You may view the outdoor exhibits anytime. See page 2 for programs beginning here.



### Tusayan Museum

A visit to Tusayan Ruin and Museum provides a look into the lives of a thriving community as illustrated by its pottery, seashell bracelets, corncobs, and arrowheads. See 2,000–4,000-year-old original split-twig figurines. Art from today's tribes provides a glimpse into their rich cultures. The museum, open daily 9:00 a.m. to 5:00 p.m., is located three miles (5 km) west of Desert View. Free admission. See page 4 for programs beginning here.



### Desert View Bookstore & Park Information

The Desert View Bookstore and Park Information Center, located at Desert View Point near the park's east entrance, offers an excellent selection of publications and park information. Open daily 9:00 a.m. to 5:00 p.m.

**A passport cancellation stamp is available at all above locations.**

## Canyon's Best Bargain: The Free Shuttle Bus System

For more than 30 years the National Park Service has provided a free shuttle bus system on the South Rim. The buses use compressed or liquefied natural gas, a clean burning fuel. Buses have provisions for improved accessibility and can accommodate most wheelchairs. Riding the shuttles makes your stay more enjoyable, while reducing pollution and decreasing traffic congestion. All shuttles have racks for bicycles.



### How do I use the shuttles?

The map on pages 10–11 is the key. The map shows routes, stops, operating times, and route lengths. Park your vehicle in one of the parking areas, proceed to the nearest bus stop, and board the next bus. The buses come by every 10–20 minutes. You do not need to obtain a ticket, and you are free to get on or off at any stop. You can ride to a stop, enjoy the view, shop at a gift store, or walk along the rim, then hop on a later shuttle.

### Where do the shuttles go?

Four shuttle routes operate during the summer. The routes do not overlap, although they interconnect. Buses show the route name on the front and display an appropriately colored square near the door.

### Hermits Rest Route (red)

The western-most route winds seven miles along the rim to Hermits Rest, stopping at viewpoints along the way.

### Village Route (blue)

This loop connects visitor centers, lodging, restaurants, gift shops, and campgrounds. It provides the best means to get to many of the ranger programs.

### Kaibab Trail Route (green)

Leaving from Canyon View Information Plaza, this route goes to the South Kaibab Trailhead and two viewpoints to the east.

### Tusayan Route (purple)

This shuttle travels between Canyon View Information Plaza to the gateway community of Tusayan with four stops in Tusayan.

## Sunrise & Sunset

Date	Sunrise	Sunset
May 24	5:16 a.m.	7:35 p.m.
May 31	5:13 a.m.	7:40 p.m.
June 7	5:11 a.m.	7:44 p.m.
June 14	5:11 a.m.	7:47 p.m.
June 21	5:12 a.m.	7:49 p.m.
June 28	5:14 a.m.	7:49 p.m.
July 5	5:17 a.m.	7:49 p.m.
July 12	5:21 a.m.	7:47 p.m.
July 19	5:26 a.m.	7:43 p.m.
July 26	5:31 a.m.	7:38 p.m.
August 2	5:37 a.m.	7:32 p.m.
August 9	5:42 a.m.	7:25 p.m.
August 16	5:48 a.m.	7:17 p.m.
August 23	5:53 a.m.	7:08 p.m.
August 30	5:59 a.m.	6:59 p.m.
September 6	6:04 a.m.	6:49 p.m.

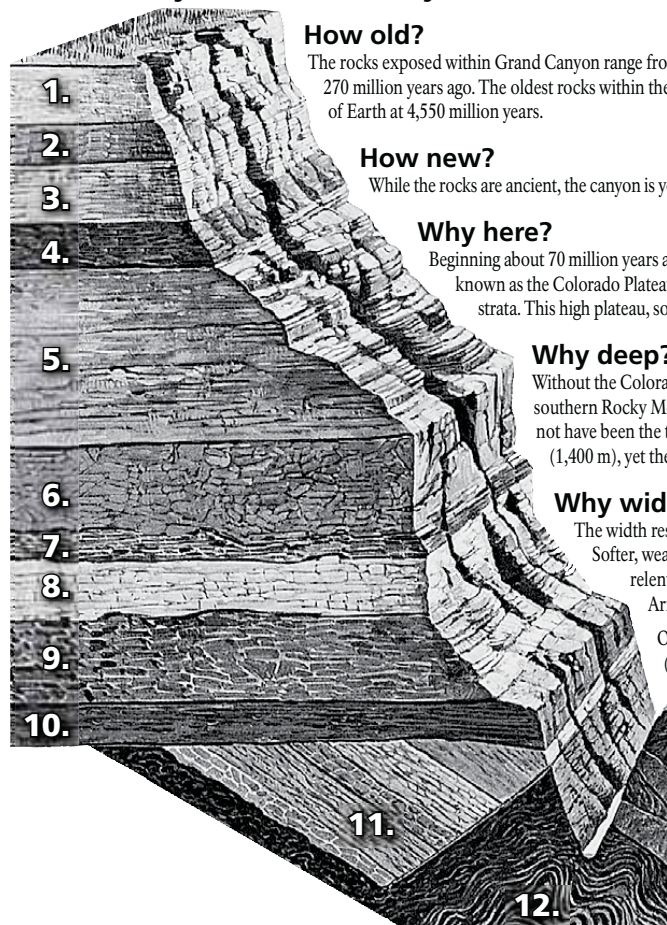
## Moon Phases

New moon	Full moon	Moon rise
May 24		
	June 7	8:10 p.m.
June 22		
	July 6	7:39 p.m.
July 21		
	August 5	7:22 p.m.
August 20		
	September 4	6:43 p.m.

All times are Mountain Standard Time.

# Park Science

## There's Only One Grand Canyon: Basic Answers to Your Geologic Questions



### How old?

The rocks exposed within Grand Canyon range from the fairly young to the fairly old (geologically speaking). Kaibab limestone, the caprock on the rims of the canyon, formed 270 million years ago. The oldest rocks within the Inner Gorge at the bottom of Grand Canyon date to 1,840 million years ago. For comparison geologists currently set the age of Earth at 4,550 million years.

### How new?

While the rocks are ancient, the canyon is young. Geologists generally agree that canyon carving occurred over the last 5–6 million years—a geologic blink of the eye.

### Why here?

Beginning about 70 million years ago, heat and pressure generated by two colliding tectonic plates induced mountain building in western North America. An area known as the Colorado Plateau was raised more than 10,000 feet (3,000 m), but was spared most of the deformation and alteration associated with the uplifting of strata. This high plateau, so critical to Grand Canyon's story, is a geological puzzle that researchers still seek to understand.

### Why deep?

Without the Colorado River, a perennial river in a desert environment, Grand Canyon would not exist. Water draining off the western slopes of the southern Rocky Mountains carried sand and gravel, cutting down through the layers of rock. Without the uplift of the Colorado Plateau, there would not have been the thousands of feet of topography to sculpt. From Yavapai Point on the South Rim to the Colorado River is a change of 4,600 feet (1,400 m), yet the river still flows 2,450 feet (750 m) above sea level.

### Why wide?

The width results from the rock layers collapsing around the river and its tributaries combined with the “headward erosion” of these side streams. Softer, weaker layers erode faster, undermining the harder, stronger layers above them. Without adequate support, the cliffs collapse. The relentless river carries this eroded material to the Gulf of California. Much of what is now southeastern California and southwestern Arizona is covered with material eroded from Grand Canyon.

Over its 277 river miles (446 km), the jagged Grand Canyon varies in width. Along the South Rim, it ranges between 8 and 16 miles (13–26 km) depending upon where you choose to measure.

### Why Grand?

Often described as Earth's greatest geological showcase, the ensemble of stunning dimensions—the melding of depth, width, and length—sets Grand Canyon apart. Nowhere else features such a dazzling variety of colorful rock layers, impressive buttes, and shadowed side canyons. Grand Canyon is the canyon against which all other canyons are compared.

The exhibits at Yavapai Observation Station explain the geologic processes that formed the rocks and carved the canyon.

### Illustration:

1. Kaibab Formation	270 million years
2. Toroweap Formation	273 million years
3. Coconino Sandstone	275 million years
4. Hermit Formation	280 million years
5. Supai Group	315–285 million years
6. Redwall Limestone	340 million years
7. Temple Butte Formation	385 million years
8. Muav Limestone	505 million years
9. Bright Angel Shale	515 million years
10. Tapeats Sandstone	525 million years
11. Grand Canyon Supergroup	1,200 million–740 million years
12. Vishnu basement rocks	1,840–1,680 million years

### Want to know more?

The geologic story is rich in detail and mystery. Attending a free ranger program may move you from wonder to comprehension. Programs are described on pages 2–4.

Grand Canyon Association bookstores offer many geology related titles. Bookstore hours and locations are listed on page 7. To learn more about geology at Grand Canyon, take a look at:

- *Yardstick of Geologic Time*, Allyson Mathis
- *Introduction to Grand Canyon Geology*, Greer Price
- *Carving Grand Canyon*, Wayne Ranney
- *Ancient Landscapes*, Ron Blakey and Wayne Ranney



# Park News

## Your Park Entrance Fees at Work Mather Point Construction and Other Projects

You have contributed \$25.00 for the privilege of enjoying and preserving a spectacular part of our national heritage. Your entrance fee supports many projects within the park.

### Road Construction

The original plans for Canyon View Information Plaza included the construction of a light rail transportation system between the South Rim and Tusayan. Although Grand Canyon Visitor Center, Books and More Bookstore, rest rooms, and trails have hosted visitors since 2000, the light rail system never received funding. As a consequence, the area around Mather Point and Canyon View Information Plaza is very congested. To relieve this congestion and to provide for greater visitor enjoyment, construction began this spring on a new road and additional parking areas near Canyon View Information Plaza.

The new road will circle to the south of the visitor center and bookstore. Additional parking areas for private vehicles, RVs, and tour buses will provide easy access to the rim, visitor center, rest rooms, and bookstore. Although some of the improvements may be open for use during the summer, this phase of the project is scheduled for completion in late fall.

Drive slowly and carefully in the construction zone and obey all signs and flaggers. You may experience delays of up to 20 minutes at times. See the map on pages 10-11 for alternative routes.

### Trail Work

Walking along the rim or descending into the canyon forms longest-lasting memories. National Park Service trail crews have started a multi-year project to improve the South Kaibab Trail. The trail remains open for all hikers. Be extra cautious when walking through areas under construction. Mules will not be using the trail during this project.

Trail crews will also be working on the Rim Trail, repaving the surface on the section of trail between Bright Angel Lodge and Trailview Overlook on Hermit Road. Again, the trail remains open during construction.

### Rest Rooms

The installation of new vault toilets will provide improved facilities at a number of picnic areas and viewpoints including Tusayan Museum, Grandview Point, and the South Kaibab Trailhead. Work on the rest room at Desert View may result in using temporary portable rest rooms.



## Recently Completed Projects

The newly repaved Hermit Road provides a great area to bicycle without much traffic. Once you have pedaled up the first steep hill, it is mostly level riding. Watch for shuttle buses and the few vehicles sharing the road. If a shuttle bus approaches from the rear, stop off the edge of the road and let it pass. Buses are equipped with bike racks should you become tired or want a ride to the top of that first hill.

A new section of the paved Greenway Trail, suitable for hikers, bicyclists, and visitors in wheelchairs, starts at the Monument Creek Vista bus stop and winds west along the rim past Pima Point to Hermits Rest. Along the way, enjoy canyon viewpoints (above) that few hikers had seen before the completion of this segment of the Greenway Trail.

Not all of the entrance fees collected at Grand Canyon stay here. Approximately twenty percent of the fees are distributed to National Park Service areas that do not collect fees.

The National Park Service thanks you for your support. If you plan to visit other park service areas, you may want to purchase the *America the Beautiful—National Parks and Federal Recreation Lands Pass* that provides entrance to all sites collecting entrance fees. You can apply your current Grand Canyon National Park entrance permit towards the interagency pass.

## Avoid a Shocking Experience



Lightning strikes are common on the South Rim during summer thunderstorms. Stay away from exposed points during storms. Hair standing on end is a warning that an electrical charge is building near you and a warning that lightning may strike. If this occurs, move away from the rim immediately! The safest place to be during a thunderstorm is inside a building or a vehicle with the windows closed. Avoid touching metal railings when lightning activity is nearby. For more information, a *Lightning Awareness* brochure is available at all visitor centers.

## Artist in Residence: Inspired by the Park

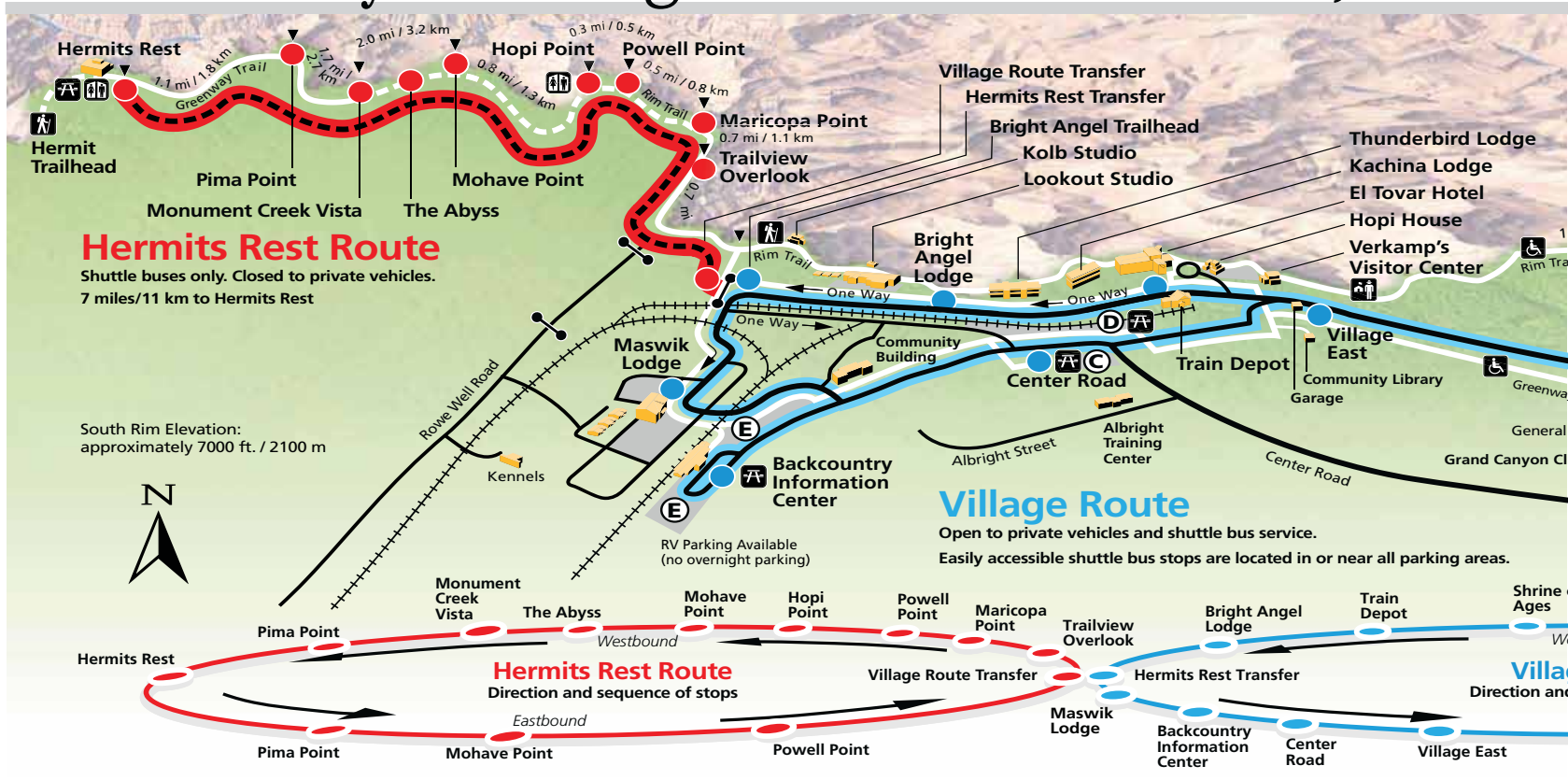


Few places have provoked as much wonder and creativity as Grand Canyon. The Artist-in Residence program offers professional artists (writers, composers, visual and performing artists) the opportunity to spend time on the South Rim of Grand Canyon. The National Park Service supplies a residence within the park for a three week period.

In exchange for the adventure of living and working in a national park, the resident artist has the opportunity to create works that generate understanding and dialogue about the need to preserve this national treasure. While here, the selected artist shares his or her inspiration, motivation, and techniques in programs with park visitors. Upon completion of the residency, the artist donates a work representative of the park.

If you are interested in the Artist in Residence program, stop by any NPS visitor center and ask for a brochure with application or visit our website [www.nps.gov/grca/supportyourpark/air.htm](http://www.nps.gov/grca/supportyourpark/air.htm).

# Grand Canyon Village Shuttle Bus Routes, Points



**Free Shuttle Buses**  
Free shuttle buses operate on four routes at Grand Canyon National Park: Hermits Rest Route (indicated in red on the map above), Village Route (blue), Kaibab Trail Route (green), and Tusayan Route (purple). The routes interconnect, but do not overlap. No tickets are required, and bus stops are clearly marked throughout the park by signs with the above symbol.

Buses are white with a green stripe. The buses display the route name on the front and an appropriately colored square near each door.

All buses are equipped with bicycle racks. Bicycle one way and ride the shuttle the other.

Pets are not permitted on buses.

**Service may be suspended during inclement weather.**

**Hermits Rest Route**  
Buses provide transportation between the Village Route Transfer and Hermits Rest (seven miles; 11 km) with stops at nine canyon overlooks. Buses stop only at Hermits Rest, Pima, Mohave, and Powell Points on return.

**75 minutes round-trip** (without getting off bus)  
**May buses run every:**  
30 minutes 4:30 a.m. to 7:30 a.m.  
15 minutes 7:30 a.m. to sunset  
30 minutes sunset to one hour after sunset  
**June, July, and August buses run every:**  
30 minutes 4:15 a.m. to 7:30 a.m.  
15 minutes 7:30 a.m. to sunset  
30 minutes sunset to one hour after sunset  
**September buses run every:**  
30 minutes 5:15 a.m. to 7:30 a.m.  
15 minutes 7:30 a.m. to sunset  
30 minutes sunset to one hour after sunset

**Village Route**  
Buses provide transportation between Canyon View Information Plaza, Yavapai Point, hotels, restaurants, campgrounds, parking lots, and other facilities in the Village area. This is not a scenic route, but rim views are available a short walk from many stops.

**60 minutes round-trip** (without getting off bus)  
**May buses run every:**  
30 minutes 4:30 a.m. to 6:30 a.m.  
15 minutes 6:30 a.m. to 7:30 p.m.  
30 minutes 7:30 p.m. to 10:00 p.m.  
**June, July, and August buses run every:**  
30 minutes 4:15 a.m. to 6:30 a.m.  
15 minutes 6:30 a.m. to 9:00 p.m.  
30 minutes 9:00 p.m. to 11:00 p.m.  
**September buses run every:**  
30 minutes 5:15 a.m. to 6:30 a.m.  
15 minutes 6:30 a.m. to 7:30 p.m.  
30 minutes 7:30 p.m. to 10:00 p.m.

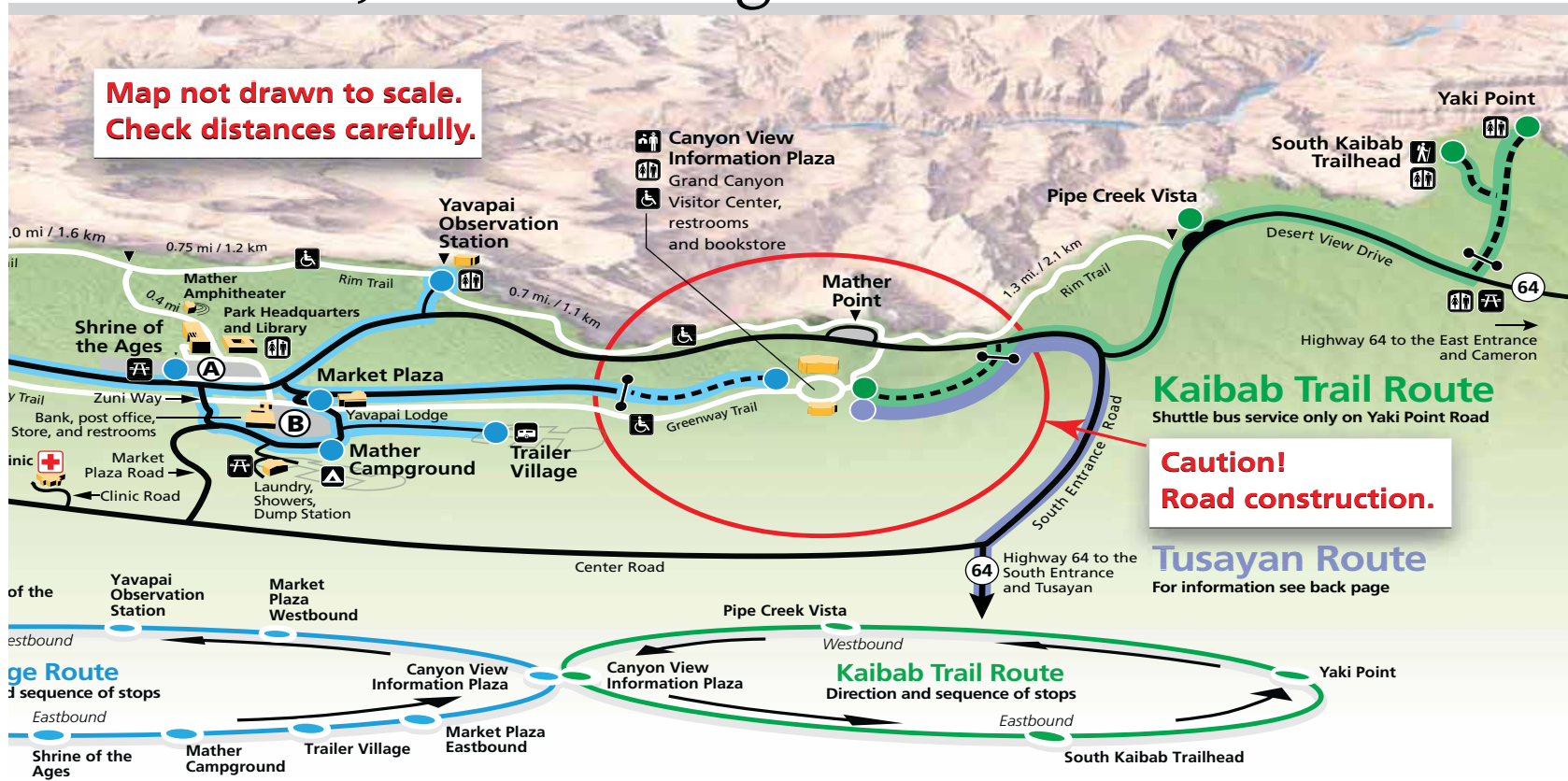
**Kaibab Trail Route**  
Buses provide transportation between Canyon View Information Plaza, South Kaibab Trailhead, Yaki Point, and Pipe Creek Vista. This is the shortest scenic route and the only access to Yaki Point.

**30 minutes round-trip** (without getting off bus)  
**May buses run every:**  
30 minutes 4:30 a.m. to 6:30 a.m.  
15 minutes 6:30 a.m. to one hour after sunset  
**June, July, and August buses run every:**  
30 minutes 4:15 a.m. to 6:30 a.m.  
15 minutes 6:30 a.m. to one hour after sunset  
**September buses run every:**  
30 minutes 5:15 a.m. to 6:30 a.m.  
15 minutes 7:30 a.m. to one hour after sunset

**Sunrise and sunset times are on page 7.**



# of Interest, and Parking



## Rules of the Road

**Motorist Warning:** Pedestrians have the right of way. Vehicles must stop for pedestrians in crosswalks.

**Pedestrian Warning:** Avoid walking on narrow park roads. Use trails that parallel most park roads. Always face traffic.

**Bicyclist Warning:** Bicycles are permitted on all paved and unpaved park roads and the Greenway Trails. They are prohibited on all other trails, including the Rim Trail. Bicyclists must obey all traffic regulations. Always ride single file with the flow of the traffic. Wear bright colors and a helmet.

On the narrow Hermit Road bicyclists should pull to the right shoulder of the road and dismount when large vehicles are attempting to pass. Never hang onto a shuttle bus while riding.

## Parking

Parking is available in lots throughout Grand Canyon Village. Please avoid parking along the roadside except where signs or lines on the road indicate that it is permissible. Location of the lots is indicated on the map above.

- A** Near Park Headquarters. Large lot that frequently has available spots.
- B** Near the businesses in Market Plaza. This is the largest lot, but tends to fill early.
- C** This small lot near the intersection of Center and Village Loop Roads may have sites when others do not.
- D** Unpaved lot along the railroad tracks in the Grand Canyon Village Historic District.
- E** Near the Backcountry Information Center. The southern portion of this lot has large, pull-through spaces for RVs and vehicles with trailers.

## Accessibility

An accessibility permit, allowing access to some areas closed to public traffic, is available at entrance gates, the Grand Canyon Visitor Center at Canyon View Information Plaza, Verkamp's Visitor Center, Park Headquarters, Kolb Studio, El Tovar Concierge Desk, and the Bright Angel Lodge, Yavapai Lodge, and Maswik Lodge Transportation Desks.

**Day-Use Wheelchairs**  
The National Park Service provides wheelchairs at no charge at the Visitor Center at Canyon View Information Plaza.

**Mather Point Accessible Shuttle**  
During construction, an accessible van will offer free rides between Mather Point and Grand Canyon Visitor Center. Shuttle runs 7:30 a.m.-6:30 p.m.

## Legend

- Shuttle Bus Routes**  
(Indicated in red, blue, or green)
- Shuttle Bus Stops**  
(Indicated in red, blue, green, or purple)
- Major Park Roads**  
(All vehicles)
- Secondary Roads**  
(All vehicles)
- Shuttle Buses Only**
- Parking**
- Picnic Tables**
- Paved Trails**
- Unpaved Trails**
- Distance between points on trails**
- Not to scale. Check distances carefully.**



# Park Science

## California Condors: Soaring to Success



Cautiously optimistic. That summarizes the outlook for the California condor, one of the largest and rarest birds in North America. The National Park Service is pleased to be cooperating with the U.S. Fish and Wildlife Service, the Bureau of Land Management, Arizona Game and Fish Department, and the Peregrine Fund in the reestablishment of a California condor population in Arizona.

Fossils discovered in caves in the park document that condors have lived in this area for thousands of years. During the last Ice Age, when the climate was cooler and wetter, large herbivores—Shasta ground

sloth, shrubbox, mammoths, and horses—grazed here. Condors scavenged on their carcasses. As the climate changed this food source disappeared.

By the time European explorers reached North America, California condors survived only along the Pacific coast, perhaps feeding on dead whales and other marine mammals that washed ashore. Continued pressure from hunting, egg collecting, and the inability to adapt to the modern world with its chemicals and power lines, further reduced the condor population. Only 22 California condors existed in the wild by the 1980s.

Concerned scientists trapped this remnant population and initiated a captive breeding program. The condors responded well and the population increased sufficiently to release birds back into the wild to attempt reestablishing wild populations. Two areas—central California and northern Arizona—appeared to offer the best chances for the young condors. The first release in the Grand Canyon area took place in 1996. The young birds had to learn to survive without any older birds to act as tutors.

As the birds matured, scientists watched anxiously for courtship displays and other signs of reproduction. A successful reintroduction program depended on the birds thriving and reproducing on their own. The first nesting attempts failed, but in 2003 a pair hatched and fledged the first California condor chick in Arizona in more than 100 years. Each spring since pair bonding and nesting has occurred. Last year two birds fledged in northern Arizona.

The condor program continues with more captive-raised birds being released, additional nesting, and some disappointments. Condors are susceptible to lead poisoning from bullet fragments ingested from carcasses and gut piles. The Arizona Game and Fish Department encourages hunters to use nonlead ammunition and distributes coupons for its purchase. Utah is exploring the possibility of implementing a similar program.

Today more than 60 condors live in Arizona, with a total condor population in excess of 320. With populations in California and Baja California, in addition to captive breeding birds, the future of the California condor looks promising.

Ask a ranger where to see condors soaring over the canyon and about this year's nesting activity.

### Want to know more?

For more information on California condors, attend the *Condor Talk: Wings over the Canyon* ranger program described on page 3 or for recent field reports go to [www.peregrinefund.org](http://www.peregrinefund.org). Grand Canyon Association bookstores feature several condor titles, including:

- *Condor: To the Brink and Back*  
John Nielsen
- *California Condors* (children's book)  
Patricia A. Fink Martin
- *Condor, Spirit of the Canyon*  
(children's book) Robert Mesta
- *Condors in Canyon Country*  
Sophie Osborne



## Take a Look at Canyon Sketches

*Canyon Sketches*, an electronic magazine on the park's website, features short updates about the canyon's natural, cultural, and recreational resources. Articles highlight the projects that Grand Canyon's Science and Resource Management biologists, archeologists, physical scientists, and wilderness planners do to inventory, monitor, mitigate, restore, and rehabilitate park resources.

Recent features include the restoration of native vegetation, surveys of native songbird nests to monitor for parasitizing by brown-headed cowbirds (*above*), and the excavation of an archeological site along the Colorado River. Future articles discuss surveys for bats in park caves and restoration of habitat for the sentry milk-vetch, an endangered plant.

View the *Canyon Sketches* e-magazine at <http://www.nps.gov/grca/naturescience/cynsk.htm>.

## Mountain Lions and You

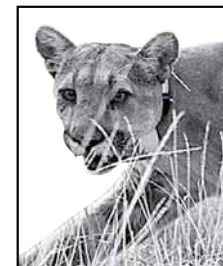
Research has documented mountain lions on the South Rim. Although seldom seen, the presence of mountain lions and other wildlife contributes to the richness of the visitor experience. Please respect all inhabitants of this wonderful area, both four-footed and two-footed.

To reduce the chance of mountain lion encounters:

- Do not hike alone. Hike in groups and make noise.
- Supervise your small children. Do not let them run ahead of you out of sight.
- Do not leave food, including pet food, where animals can reach it.

If you should encounter a mountain lion that appears aggressive or does not immediately retreat:

- Do not turn and run, which could provoke a chase response. Back slowly away from the animal while facing it.
- Appear big. Stand tall; hold a jacket open to increase your apparent size.
- Make noise.
- Keep together in a group. There is safety in numbers.
- In the unlikely event of an attack, fight back.



**Report all mountain lion sightings to a ranger!**

# Park Science

## Alien Invaders: Non-native Plants in the Park

### What is an invasive plant?

Each locality throughout the world has plants that are native to it or are naturally found there. Non-native plants are ones that humans have moved to a new area either accidentally or on purpose. People have imported or moved non-native plants as ornamentals, or for a specific purpose, such as providing erosion control or creating a windbreak. Most non-native plants do not cause major problems, but a few become established, spreading widely and out-competing native plants. This kind of non-native plant is referred to as an invasive plant.

### Why are resource managers concerned?

The goal of the National Park Service is to preserve and restore native ecosystems for you and for future generations. Invasive plants aggressively colonize and disrupt native habitat. They achieve this by out-competing native plants for sunlight, water, and growing space.

Many invasive plants are not palatable to animals, nor do they provide good habitat for wildlife. A slope of non-native Scotch thistle is much less inviting to foraging animals than the smorgasbord banquet of native plants that should be there.

Cheatgrass, another invasive species, actually increases the spread of wildfires by growing as a fine, closely spaced grass that dries out by early summer, providing extra fuel for fires.

Today, nearly ten percent of the plant species found in the park are non-native species. The spread of invasive plants is one of the greatest threats to biodiversity and the preservation of intact, native ecosystems. Preventing their spread is one of the most important issues facing natural resource managers, both at Grand Canyon and around the world. Grand Canyon National Park staff work hard to remove priority invasive plants so that our native ecosystems remain intact.

### How do we control exotic plants?

Volunteers! Grand Canyon's Vegetation Program relies on wonderful volunteers to keep our park beautiful and our native ecosystems intact. A group of volunteers can pull thousands of invasive plants in one day; many times more than the National Park Service staff could do alone. If you or your group are interested in lending a hand, visit the websites [www.gcvolunteers.org](http://www.gcvolunteers.org) or [www.volunteer.gov/gov](http://www.volunteer.gov/gov) or call the Grand Canyon Trust at (928) 774-7488. If

you would like to read information about a previous volunteer effort to control invasive plants at the park, visit [www.nps.gov/grca/naturescience/cynsk-v02.htm](http://www.nps.gov/grca/naturescience/cynsk-v02.htm).

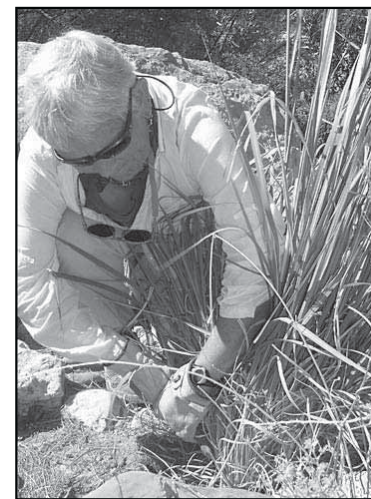
### How can you help prevent the spread of invasive plants?

While we welcome visitors to Grand Canyon National Park, sometimes people bring more than luggage from home. Non-native plant seeds can "hitchhike" on socks, shoes, clothes, camping gear, pets, and vehicles. You can help Grand Canyon by removing seeds from your camping gear, shoes, and clothes before you enter the park. Also, brush your pet to remove seeds that may be stuck to its coat. Staying on established trails prevents invasive seeds from being transported into pristine areas of the park. Check your shoes and clothes after each hike and remove any seeds to keep from transporting them to new areas.

Inspect your belongings before you leave the park to make sure you do not bring unwanted plant seeds home. You can also protect your home and your local area from invasive plants by landscaping with native plants and avoiding invasive species. Finally, you can help in your local area by volunteering for invasive plant removal and habitat restoration projects.

If you would like to assist the effort to control invasive plants while you are here at Grand Canyon, join the *Alien Invaders!* program presented every Tuesday and Thursday. See page 3 for a description of this activity.

For more National Park Service invasive plant information, go to [www.nps.gov/plants/alien/](http://www.nps.gov/plants/alien/).



## North Rim

The average distance across Grand Canyon "as the raven flies" is ten miles (16 km). Traveling from the South Rim to the North Rim by automobile, however, requires a five-hour drive of 215 miles (346 km).

Lodging and camping at the North Rim are available from mid-May to mid-October. Reservations are strongly recommended. Additional facilities are available in the surrounding Kaibab National Forest, the Kaibab Lodge area, and Jacob Lake. The road to the North Rim is closed during the winter months.

A separate edition of *The Guide* is published for the North Rim and includes details about facilities and services, as well as program and hiking information. Ask at any NPS visitor center for a copy.

*The National Park Service thanks these concessioners for support with this and other publications.*

### DNC Parks & Resorts

DNC Parks & Resorts at Grand Canyon (DNC) operates the General Stores in the park at Desert View and Grand Canyon Village under contract with the U.S. Department of the Interior. DNC encourages its associates to develop a strong relationship with the park during their tenure and to be good stewards of its special places in which we operate. For more information please contact us at (928) 638-2262.



### Xanterra South Rim

Xanterra South Rim, L.L.C. is the primary concessioner and the sole provider of in-park lodging at the South Rim. Owned and operated by Xanterra Parks & Resorts, we have been providing quality guest service since the El Tovar Hotel was opened in 1905 by the Fred Harvey Company. Today park visitors have a choice of accommodations in seven distinctly different Grand Canyon lodging properties. Additional services include gift stores, restaurants and in-park tours.

As the nation's largest national and state park management company, we know that we play an integral part in the tourism industry and how it impacts the natural environment. This is why we are a company based upon values that reflect an

environmental ethic and social conscience – for the long term. We have taken the lead in this calling and have implemented comprehensive and broad-based environmental initiatives throughout all of our operations. Please join us in these efforts to reduce, reuse and recycle during your visit to this special place. For more information call (928) 638-2631 or visit [www.grandcanyonlodges.com](http://www.grandcanyonlodges.com). Xanterra South Rim, LLC.—We're not just close, we're there!





# Park Science

## For Your Safety and Theirs: Keep Wildlife Wild

To many people, the opportunity to view the wildlife in Grand Canyon National Park is as amazing as the spectacular views. Visitors may commonly see mule deer and elk in Grand Canyon Village, endangered California condors soar majestically above the canyon, and other wildlife including ravens, lizards, and rock squirrels are common along the rim. Visitors may also have the opportunity to glimpse bighorn sheep, coyotes, and ringtails. Mountain lions, bobcats, badgers, and rattlesnakes are less commonly seen, but are present in the park.

Many visitors to Grand Canyon may think that species such as rattlesnakes and mountain lions pose the greatest risks to people. In fact, rock squirrels, deer, or elk inflict more injuries. During the summer, rock squirrels commonly bite visitors who are feeding them, or who are just holding their finger out towards them. Park rangers regularly tell visitors that squirrels are the most dangerous animal in the park because squirrel bites are so frequent.

Federal law protects all wildlife in Grand Canyon National Park. Most people know that hunting and trapping are not allowed in national parks, yet many people may not realize that approaching or feeding animals is also prohibited. Park regulations prohibit these actions because they are harmful to animals and place people in danger. When you approach too closely to wildlife, you may stress them and interfere with behaviors necessary for their survival.



Animals that are fed by people may lose their natural fear of humans and their ability to forage for natural foods. “A fed animal is a dead animal” embodies considerable truth. In addition to losing their foraging ability, animals that have been fed are less likely to survive other reasons. Visitors feeding animals from vehicles cause them to congregate near roadways, placing them at a high risk of being killed by vehicle collisions.

In recent years the National Park Service has had to euthanize deer, coyotes, rock squirrels, and other animals that had become overly aggressive towards humans or had become completely dependant on food handouts. Park rangers work to preserve and protect park resources, including wildlife. NPS staff find it heartbreaking when they are forced to euthanize animals whose aggressive behaviors were caused by being fed by well-meaning people.

Animals foraging for natural foods in an unaltered environment are the healthiest.

Feeding animals puts everyone in potentially hazardous situations. People who feed animals may be bitten or otherwise injured by the animal they are feeding. Other visitors are at risk as they may be harmed by aggressive animals that have previously been fed.

Seemingly tame animals are still wild, and may behave unpredictably. Animals may use their teeth, claws, hooves, antlers, or horns to defend themselves. View wildlife from a safe distance. Provide animals sufficient room to make an escape if they feel threatened. You are too close to an animal if your presence causes them to move.

There are other serious hazards associated with wildlife. Squirrels and other rodents, coyotes, foxes, bats, and mountain lions may carry infectious diseases such as *Hantavirus*, rabies, or plague. In some situations, animals may transmit these diseases through simple contact, such as touching or feeding wildlife. In recent years, biologists have documented *Hantavirus*, rabies, and plague in the park’s wildlife populations.

Grand Canyon National Park is a sanctuary and home for wildlife. By treating wildlife with respect and not approaching or feeding them, you are aiding their chance for survival. By keeping wildlife wild, you are protecting their safety—and yours.

## Preserving Our Cultural Heritage

Many peoples have called Grand Canyon home during the last 12,000 years. During your visit, you may come across remnants of cultures from long ago. You may see evidence left by miners and explorers of the early twentieth century or the remains of prehistoric Native American dwellings, rock art, or artifacts such as pottery.

These ruins and artifacts are a fragile, irreplaceable legacy. The National Park Service preserves these special places and federal law prohibits the excavation, injury, destruction, or removal of any relic, artifact, or archeological site.

When visiting a site:

### Do

- Take pictures.
- Imagine what life was like in the past.
- Contact a ranger if you see archeological sites defaced or you witness someone removing artifacts.

### Don't

- Walk or lean on walls in sites.
- Touch rock art or granary walls.
- Move artifacts or modify walls.
- Eat or camp within the site.

If you would like to enjoy a cultural site, visit:

- Tusayan Ruin on the South Rim
- Bright Angel Ruin at Phantom Ranch
- Hilltop Ruin, Nankowep granaries, and Unkar Delta along the Colorado River
- Walhalla Glades Ruin, Transept Trail Ruin, and Cliff Springs granary on the North Rim
- Rock art sites along the Bright Angel Trail
- Horseshoe Mesa Historic District on the Grandview Trail





# Park Science & News

## Saving the Endangered Humpback Chub

In June 2009, the National Park Service will translocate approximately 300 juvenile humpback chub from the Little Colorado River to Shinumo Creek in Grand Canyon National Park in order to test the feasibility of establishing an additional population of this endangered fish in the canyon.



The humpback chub (*Gila cypha*) is an unusual-looking member of the minnow family that is found only in the Colorado River basin. These fish, which can live as long as 30 years and reach lengths of almost 20 inches (50 cm), are characterized by large fins and pronounced humps behind the heads of adults.

The humpback chub is one of eight species of fish native to the Colorado River in Grand Canyon. Like other native fish, the humpback chub is adapted to the river's natural conditions—high turbidity with seasonally variable flows and temperatures.

Today the humpback chub is protected under the Endangered Species Act. Human-caused changes to its habitat have caused a significant decline in the humpback chub populations. In Grand Canyon, humpback chub face an ecosystem altered by Glen Canyon Dam, and competition with and predation by non-native fish such as trout that thrive in the clear cold waters of the post-dam Colorado River.

The largest humpback chub population in the canyon exists near the confluence of the Little Colorado and the Colorado rivers. The fish spawn in the warmer Little Colorado River, because water released from Glen Canyon Dam is too cold for successful reproduction. Historically humpback chub would have used other tributaries besides the Little Colorado River, but currently may be excluded from such tributaries due to competition and predation by non-native fish.

Shinumo Creek is a small, clear tributary stream that joins the Colorado River approximately 109

miles below Lees Ferry. Biologists chose Shinumo Creek as the site for the translocation based on water quality, temperature, and available food base. A waterfall just above the confluence with the Colorado River prevents non-native predatory fish from entering Shinumo Creek.

In 2008, biologists captured approximately 300 juvenile humpback chub near the mouth of the Little Colorado River. These 2–4 inch (5–13 cm) fish were transported out of the canyon by helicopter. The small

humpback chub were treated to remove parasites. They overwintered at a fish hatchery to grow to a size that would allow implantation of identification tags.

In early June, helicopters will transport the chub to sections of Shinumo Creek with suitable habitat. Prior to the release of the humpback chub into Shinumo Creek, researchers will remove non-native fish.



An intensive three-year monitoring program will follow the translocation. Biologists will observe whether the young humpback chub survive the translocation, and if they will remain in Shinumo Creek during high summer rain run-off. If they survive in Shinumo Creek, will the fish grow,

mature and reproduce? Additional translocations to augment this population will be considered based upon the analysis of the first year's findings.

The project is funded by the National Park Service and the Bureau of Reclamation and is being conducted in cooperation with the U.S. Fish and Wildlife Service, Arizona Game and Fish Department, and Grand Canyon Wildlands Council.

*Left: Adult chub, photo by Melissa Trammell*

*Center: Biologists seining in the Little Colorado River, NPS photo*



Xanterra's Environmental Commitment

### Xanterra South Rim's Environmental Commitment

Xanterra South Rim has raised the bar of environmental performance for ourselves and the tourism industry, by setting standards to improve our environmental performance. Our activities include:

1. Xanterra is one of the few U.S. hospitality companies to achieve ISO 14001 certification of its environmental management system (EMS). We call our EMS "ecologix – the logical integration of business and ecology."
2. In a move that decreases visible emissions from our tour buses by 66 percent and improves fuel economy by close to 20 percent, Xanterra maintains hydrous alcohol injectors (Hydrofire) and throttle controls (DriverMax) on our bus fleet. This is a practical way to reduce pollution in the park from our fleet of motor coaches powered by naturally-aspirated diesel engines. Each motor coach travels an average of 20,000 miles per year.
  - The Hydrofire hydrous alcohol injectors works with the fuel injection system to reduce nitrous oxide (NO<sub>x</sub>) emissions (a contributor to acid rain and smog) and increase the efficiency of the bus
  - The DriverMax throttle controls the acceleration cycle by optimizing fuel flow and operating between the driver's foot throttle and the engine.
3. The recycling program in the park – which accepts a wide range of items commingled in the same bins – has helped increase the amount of trash we keep out of the landfill, raising the percentage from 10 percent to 40 percent. In the brown bins around the park (and the blue ones in our guest rooms), you can recycle paper (including newspaper), plastic bottles (#1 and #2), aluminum cans, glass, metal, and cardboard. We also recycle household batteries (ask at our Retail stores where to leave them).
4. Xanterra is one of only a few companies in the entire tourism industry to produce an environmental sustainability report, publicly disclosing the company's environmental performance. If you stay overnight in our facility, there will be a copy of this report in your room.
5. Xanterra is the first U.S. hospitality company to be granted "Chain of Custody" certification from the Marine Stewardship Council to serve only Alaskan wild salmon and to ban certain types of fish species deemed harmful to the environment.
6. Xanterra South Rim purchases renewable wind power equal to 5% of our total electricity usage. This purchase of almost 670,000 kWh is the equivalent of taking 81 cars off the road or planting 127 acres of trees.
7. If you're staying with us more than one night, please help conserve water by participating in our towel and linen reuse program. Just by rehangng your towel on the rack, our staff will know not to unnecessarily change towels or linens.

# Day Hiking



## Before You Go . . .

### Plan Ahead

As a day hiker no permits are required. You are entirely on your own. Your descent into the canyon, however brief, marks your entry into a world in which preparation, self-reliance, and common sense are crucial.

### Temperatures Soar

Expect a 20–30° F (11–16° C) difference in temperature between the cool, forested rim and the inner canyon. Canyon temperature can soar to more than 110° F (43° C) in the shade, and you will not be hiking in the shade. Hiking during mid-day (10:00 a.m.–4:00 p.m.) is not recommended.

### Double Your Calories, Double Your Fun

Salty snacks and water or sports drinks should be consumed on any hike lasting longer than 30 minutes. Food is your body's primary source of fuel and salts (electrolytes) while hiking in the canyon.

If you do not balance your food intake with your fluid consumption, you run the risk of becoming dangerously debilitated and severely ill. For every hour hiking in the canyon, you should drink ½ to 1 quart (liter) of water or sports drinks.

Your best defense against illness and exhaustion is to eat a large breakfast, a full lunch, a snack every time you take a drink, and a rewarding full dinner at the end of the day. This is not a time to diet.

### Watch Your Time

Plan on taking twice as long to hike up as it took to hike down. Allow 1/3 of your time to descend and 2/3 of your time to ascend.

### Mules and Hikers

Encounters between hikers and mules have resulted in injuries to packers and the death of some mules. To ensure safety for yourself, other trail users, and mule riders, when encountering mules on the trails:

- Step off the trail on the uphill side away from the edge.
- Follow the directions of the wrangler. Remain quiet and stand perfectly still.
- Do not return to the trail until the last mule is 50 feet (15 m) past your position.

### Hiking Tips

- 1. Be Prepared:** Know your route. Know the weather forecast. Expect thunderstorm activity. Carry a map, flashlight, and extra clothing including wind and rain protection.
- 2. Stay Cool:** Hike during the cooler early morning and late afternoon hours. If you hike in the sun, keep your shirt and hat wet to stay cool.
- 3. Go Slowly:** If you can carry on a conversation, you are hiking at the right pace. If you find yourself out of breath, your legs and digestive system are not getting enough oxygen. Lack of oxygen can cause fatigue, heavy legs, and exhaustion.
- 4. Rest Often:** Sit down, prop your legs up, and take a 10-minute break at least once every hour.
- 5. Eat and Drink Frequently:** Balance your food and water intake. Salty snacks help replace electrolytes lost through perspiration. Eat a salty snack every time you drink.

## Hiking Chart for some popular day hike destinations

**Warning!** National Park Service rangers recommend that you do not attempt to hike from the rim to the river and back in one day, because of the distance, high canyon temperatures, low humidity, and the steepness of the trails. Few trails form loops; you will be hiking on the same trail in both directions. You are responsible for the safety of yourself and those in your party!

### Trails

Destination	Round trip distance	Approximate time round trip	Elevation change	Notes	
<b>Rim Trail (mostly flat, many sections suitable for wheelchairs)</b>					
The Rim Trail offers easy walking and quiet views as it winds along the rim from Hermits Rest west to Pipe Creek Vista. Begin from any viewpoint and use the free shuttle buses to return.	Follows the rim for 12 miles	Your choice	15 minutes to half-a-day	200 feet 60 m	Mostly paved, except dirt from Monument Creek Vista to Maricopa Point
<b>Bright Angel Trail (steep, but popular)</b>					
The most popular trail into the canyon begins west of Bright Angel Lodge. Some shade and seasonal water (subject to line breaks). Check at visitor centers or the Backcountry Information Center for trail condition. Hiking to the river and back in one day is not recommended.	1 ½-Mile Resthouse	3 miles 4.8 km	2–4 hours	1,131 ft. 345 m	Rest rooms Water May–Sept.
	3-Mile Resthouse	6 miles 9.6 km	4–6 hours	2,112 ft. 644 m	Water May–Sept.
	Indian Garden	9.2 miles 14.8 km	6–9 hours	3,060 ft. 933 m	Rest rooms Water year-round
<b>South Kaibab Trail (steep with expansive views)</b>					
Trail begins south of Yaki Point; you must ride the free shuttle bus to the trailhead. Best views for a relatively short hike, but no afternoon shade. Water at the trailhead, but not along the trail. Hiking to the river and back in one day is not recommended	Ooh Aah Point	1.8 miles 2.9 km	1–2 hours	600 ft. 180 m	No water First view east
	Cedar Ridge	3 miles 4.8 km	2–4 hours	1,140 ft. 347 m	Rest rooms No water
<b>Hermit Trail (steep and rocky)</b>					
This rough, unmaintained trail starts 500 feet west of Hermits Rest. Recommended for experienced desert hikers, this trail has little afternoon shade. Hiking boots recommended. Water from springs must be treated.	Waldron Basin	3 miles 4.8 km	2–4 hours	1,240 ft. 380 m	No water, little shade
	Santa Maria Spring	5 miles 8 km	4–6 hours	1,760 ft. 540 m	Treat water
	Dripping Springs	7 miles 11 km	5–7 hours	1,400 ft. 430 m	Treat water Narrow trail



The *Hikers' Express* runs directly from the Bright Angel Lodge shuttle bus stop and the Backcountry Information Center to the South Kaibab Trailhead daily at:

**May and September:** 5:00 a.m., 6:00 a.m., and 7:00 a.m.

**June, July, and August:** 4:00 a.m., 5:00 a.m., and 6:00 a.m.



# Hiking and Camping Below the Rim

## Health Hazards

Moderation is the key to having an enjoyable hike. Hike within your ability, maintain proper body temperature, balance your food and water intake, and rest often.

Emergency situations include:

### Heat exhaustion

Heat exhaustion is the result of dehydration due to intense sweating. Hikers can lose one to two quarts (liters) of water per hour. Rangers at both Phantom Ranch and Indian Garden treat as many as twenty cases of heat exhaustion a day in summer.

**Symptoms:** pale face, nausea, cool and moist skin, headache, and cramps

**Treatment:** drink water, eat high-energy foods, rest in the shade, cool the body.

### Heat stroke

Heat stroke is a life-threatening emergency where the body's heat-regulating mechanisms become overwhelmed by a combination of internal heat production and environmental demands. Every year two to three Grand Canyon hikers experience heat stroke.

**Symptoms:** flushed face, dry skin, weak and rapid pulse, high body temperature, poor judgment or inability to cope, unconsciousness. Victim is in danger!

**Treatment:** find shade, cool victim with water, send for help!

### Hyponatremia

Hyponatremia is an illness that mimics the early symptoms of heat exhaustion. It is the result of low sodium in the blood caused by drinking too much water, not eating enough salty foods, and losing salt through sweating.

**Symptoms:** nausea, vomiting, altered mental states, and frequent urination

**Treatment:** have the victim rest and eat salty foods. If mental alertness decreases, seek immediate help!

### Hypothermia

Hypothermia is a life-threatening emergency where the body cannot keep itself warm due to exhaustion and exposure to cold, wet, windy weather.

**Symptoms:** uncontrolled shivering, poor muscle control, and a careless attitude

**Treatment:** put on dry clothing, drink warm liquids, and protect from wind, rain, and cold.

## Want to know more?

Grand Canyon Association bookstores offer many books and maps on hiking. Bookstore hours and locations are listed on page 5. A few items to consider include:

- *Official Guide to Hiking Grand Canyon*, Scott Thybony
- *The Grand Canyon Trail Guides* series: Bright Angel, Grandview, Havasu, Hermit, North Kaibab, South Kaibab, South and North Bass
- *Grand Canyon National Park Trails* topographic map

## Backpacking Permits

Overnight backpacking in Grand Canyon provides a degree of solitude, wildness, and silence that is increasingly difficult to find. A backcountry permit is required for all overnight backpacking, except for guests of Phantom Ranch. Permits can be reserved up to four months in advance. A fee of \$10 per permit plus \$5 per person per night is collected. The permit program helps to limit impacts to the natural resource while providing a greater degree of solitude for hikers.

Individuals arriving without a permit may be able to obtain one through a daily waiting list. Inquire early in the morning at the Backcountry Information Center, open daily 8:00 a.m. to noon and 1:00 p.m. to 5:00 p.m. For more information, pick up a *Backcountry Trip Planner* at the Backcountry Information Office or any NPS visitor center.

### Backcountry Information Center

P.O. Box 129  
Grand Canyon, AZ 86023  
Tel: (928) 638-7875 (1:00 p.m. to 5:00 p.m.  
Monday - Friday)  
[www.nps.gov/grca](http://www.nps.gov/grca)

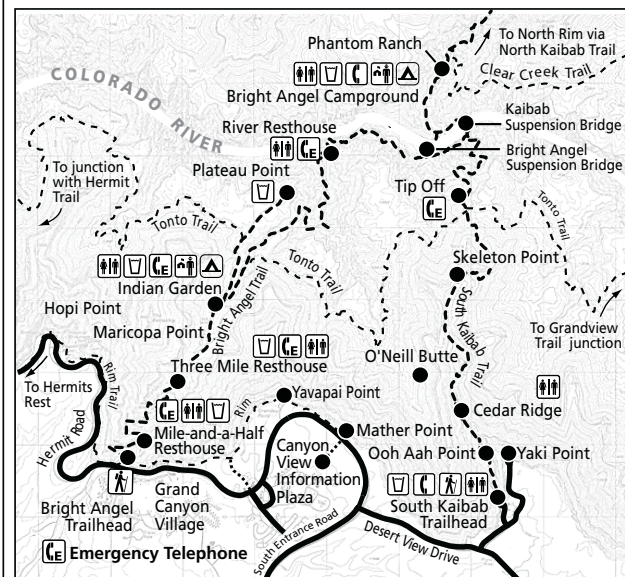
## Leave No Trace

Leave No Trace is a nonprofit organization dedicated to promoting responsible outdoor recreation through education, research and partnerships. While enjoying your visit, please consider the following principles to minimize your impact and help protect Grand Canyon for future generations.

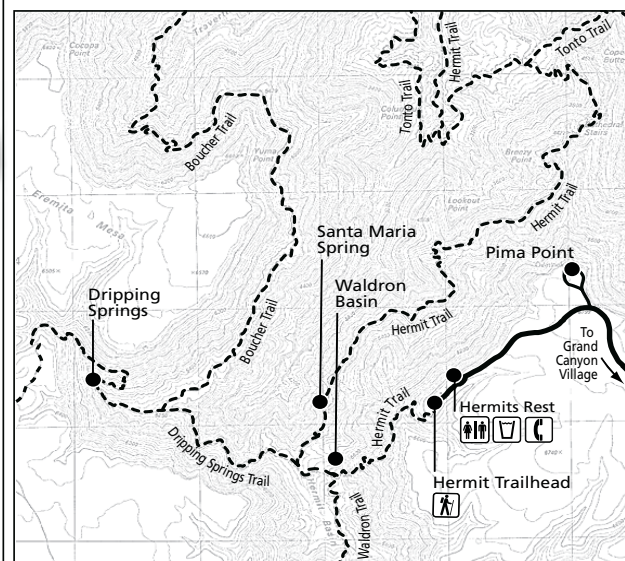
1. Plan ahead and prepare
2. Travel and camp on durable surfaces
3. Dispose of waste properly
4. Leave what you find
5. Minimize campfire impacts  
No campfires in Grand Canyon National Park backcountry.
6. Respect wildlife
7. Be considerate of other visitors

For more information visit [www.LNT.org](http://www.LNT.org)

## Corridor Trails: Bright Angel and South Kaibab



## Hermit Trail





# Lodging and Services

## Lodging

### In the Park–South Rim

For same-day reservations, call (928) 638-2631. For advance reservations, call (888) 297-2757 or write:

Xanterra Parks & Resorts  
6312 South Fiddlers Green Circle, Suite 600N  
Greenwood Village, CO 80111  
www.grandcanyonlodges.com.

All prices are subject to change.

#### Bright Angel Lodge

On the rim. \$69–174

#### El Tovar Hotel

On the rim. \$174–426

#### Kachina Lodge

On the rim. \$170–180

#### Thunderbird Lodge

On the rim. \$170–180

#### Maswik Lodge

West end of village. \$90–170

#### Yavapai Lodge

Market Plaza. \$107–153

#### Phantom Ranch

Located at the bottom of the canyon. Overnight dormitory and cabin space. Advance reservations are required.

Call for prices (see above) or inquire at the Transportation Desks in Bright Angel, Maswik, or Yavapai Lodges.

## North Rim–Grand Canyon Lodge

Make reservations by calling (877) 386-4383 or www.foreverresorts.com

## Outside the Park–Tusayan, AZ

### Best Western Grand Canyon Squire Inn

(800) 937-8376 or (928) 638-2681

### Canyon Plaza Resort

(800) 995-2521 or (928) 638-2673

### Grand Hotel

(888) 634-7263 or (928) 638-3333

### Holiday Inn Express

(888) 473-2269 or (928) 638-3000

### Red Feather Lodge

(866) 561-2425 or (928) 638-2414

## Camping

### In the Park–South Rim

Camping is permitted only in designated campsites in Grand Canyon National Park.

#### Mather Campground

Operated by the National Park Service. No hook-ups are available, but there is a dump station. Maximum vehicle length: 30 feet. Campsites are \$18 per night. Some sites may be available on a first-come, first-served basis. Check at the campground entrance. For advance reservations contact (877) 444-6777 or visit www.recreation.gov.

#### Trailer Village

Pull-through sites with hookups are located next to Mather Campground. \$32.00 per site per night for two people; \$2.00 for each additional person over age 16. Campers may register at the entrance to Trailer Village. Reservations through Xanterra Parks & Resorts. For same-day reservations, call (928) 638-2631. See advance reservation contact information in adjacent column.

#### Desert View Campground

Located near the East Entrance, 25 miles east of Grand Canyon Village. Self-registration is on a first-come, first-served basis. \$12 per site per night

## Outside the Park

### Camper Village

Commercial campground located one mile (1.6 m) south of park entrance in the town of Tusayan. Hookups, coin-operated showers, laundry, propane, dump station, and store are available year round. Call (928) 638-2887 or (800) 638-2887.

www.grandcanyoncampervillage.com

### Ten-X Campground

Operated by Kaibab National Forest. Located two miles south of Tusayan. \$10.00 per site per night. No hookups or showers. Group sites available by reservation. Information: (928) 638-2443.

## Dining

Listed west to east along the rim.

### Hermits Rest Snack Bar

Open daily 9:00 a.m.–5:00 p.m.

### Maswik Cafeteria

In Maswik Lodge at the west end of the village. Open daily 6:00 a.m.–10:00 p.m. Sports Lounge 5:00 p.m.–11:00 p.m.

### Bright Angel Restaurant

In Bright Angel Lodge. Open daily. Breakfast: 6:30 a.m.–10:45 a.m. Lunch: 11:15 a.m.–4:00 p.m. Dinner: 4:30–10:00 p.m. Lounge: 11:00 a.m.–11:00 p.m.

### Bright Angel Coffee House

Located in the Bright Angel Lodge. Open daily 5:30 a.m.–10:00 a.m.

### Bright Angel Fountain

Daily 10:00 a.m.–8:00 p.m.

### The Arizona Room

On the rim in Bright Angel Lodge. Open daily. Reservations are not accepted. Lunch: 11:30 a.m.–3:00 p.m. Dinner: 4:30 p.m.–10:00 p.m.

### El Tovar Dining Room

Located on the rim. Open daily. Breakfast: 6:30 a.m.–10:45 a.m. Lunch: 11:30 a.m.–2:00 p.m. Dinner: 4:30 p.m.–10:00 p.m. Dinner reservations are required:

(928) 638-2631 ext. 6432.

Lounge: 11:00 a.m.–11:00 p.m.

### Delicatessen at Marketplace

Located in the General Store. Open daily. May and September: 8:00 a.m.–7:00 p.m. June, July, and August: 7:00 a.m.–8:00 p.m.

### Yavapai Cafeteria

Located at Market Plaza. Open daily: 7:00 a.m.–9:00 p.m.

### Desert View Trading Post Snackbar

Open daily: 8:00 a.m.–sunset

## Groceries

### Canyon Village Marketplace

The General Store is located in Market Plaza. 7:00 a.m.–9:00 p.m.

### Desert View Marketplace

May: 9:00 a.m.–6:00 p.m.  
June, July, and August: 8:00 a.m.–6:00 p.m.  
September: 9:00 a.m.–5:00 p.m.

## Books and gifts

Listed west to east along the rim.

**Hermits Rest** ..... 8:00 a.m.–sunset

**Maswik** ..... 7:00 a.m.–10:00 p.m.

**Kolb Studio** ..... 8:00 a.m.–7:00 p.m.

**Lookout Studio** ..... 8:00 a.m.–sunset

**Bright Angel** ..... 7:00 a.m.–10:00 p.m.

**El Tovar** ..... 7:00 a.m.–10:00 p.m.

**Hopi House** ..... 8:00 a.m.–8:00 p.m.

### Verkamp's Visitor

**Center** ..... 8:00 a.m.–7:00 p.m.

**Yavapai Curio** ..... 7:00 a.m.–10:00 p.m.

### Books & More at Canyon View

**Information Plaza** ... 8:00 a.m.–8:00 p.m.

### Yavapai Observation

**Station** ..... 8:00 a.m.–8:00 p.m.

**Tusayan Museum** ..... 9:00 a.m.–5:00 p.m.

### Desert View Bookstore/Park

**Information** ..... 9:00 a.m.–5:00 p.m.

### Desert View Trading

**Post** ..... 8:00 a.m.–sunset

### Desert View

**Watchtower** ..... 8:00 a.m.–sunset  
Watchtower stairs close 30 minutes before sunset

# Services

## Medical

**24-Hour emergency care dial 911**  
From hotel rooms dial **9-911**

**North Country Grand Canyon Clinic**  
Daily: 8:00 a.m.-6:00 p.m.  
(928) 638-2551

## Services In the Park-South Rim

**Laundry and Showers**  
Located near Mather Campground.  
6:00 a.m.-11:00 p.m.  
Last laundry load: 9:45 p.m.

**Chase Bank and ATM**  
At Market Plaza. 24-hour ATM.  
Monday-Thursday: 9:00 a.m.-5:00 p.m.  
Friday: 9:00 a.m.-6:00 p.m.  
Accepts travelers checks and major credit cards.  
(928) 638-2437.  
ATM also available in Maswik Lodge lobby.

**Post Office**  
At Market Plaza. (928) 638-2512  
Monday-Friday: 9:00 a.m.-4:30 p.m.  
Saturday: 11:00 a.m.-1:00 p.m.

**Kennels**  
Open daily: 7:30 a.m.-5:00 p.m.  
(928) 638-0534.  
For retrieval after 5:00 p.m., contact Fire and Safety: (928) 638-2631.

**Lost and Found**  
For items lost or found in hotels or restaurants, call: (928) 638-2631. For all other lost items call: (928) 638-7798. Take found items to the Grand Canyon Visitor Center at Canyon View Information Plaza or Verkamp's Visitor Center.

**Garage Services**  
Located east of Grand Canyon National Park Lodges general offices. Open daily 8:00 a.m.-noon and 1:00 p.m.-5:00 p.m. Provides emergency repairs such as tires, belts, batteries, fuses, hoses, etc. Tow service provided to Williams or Flagstaff for more advanced repairs. After hours emergency service available. (928) 638-2631

## Tours & River Trips

**Air Tours**  
Fixed-wing and helicopter tours originate daily from Grand Canyon Airport. A list of air tour operators is available upon request at NPS visitor centers or consult the local telephone directory.

**Bus Tours**  
Tours within the park to Desert View and Hermits Rest, as well as sunrise and sunset tours, are available daily. Contact any transportation desk or call (928) 638-2631.

**Mule Trips**  
One-and two-day trips into the canyon depart each morning and may be available on a waiting-list basis. Call (928) 638-2631 or contact the Bright Angel Lodge Transportation Desk for information.  
[www.grandcanyonlodges.com](http://www.grandcanyonlodges.com)

**Horse Rides**  
Trail rides and twilight wagon rides are available from Apache Stables at the north end of Tusayan. Rides are offered as weather permits. For information and reservations call (928) 638-2891.

**Smooth-Water Raft Trips**  
Half-day trips on the Colorado River from Glen Canyon Dam to Lees Ferry are provided by Colorado River Discovery. (888) 522-6644 or [www.raftthecanyon.com](http://www.raftthecanyon.com).

**Hiking and Backpacking**  
**Grand Canyon Field Institute (GCFI)** offers a wide variety of educational programs throughout the park. Expert instructors who share the wonder of Grand Canyon with participants of all ages and backgrounds lead these single- and multi-day classes. For more information call (866) 471-4435 or visit [www.grandcanyon.org/fieldinstitute](http://www.grandcanyon.org/fieldinstitute). GCFI is a program of the nonprofit Grand Canyon Association.

## Transportation

**Transportation Desks**  
Information about Phantom Ranch facilities, mule trips, horseback riding, air tours, one-day float trips, and motorcoach tours (including wheelchair-accessible tours) is available in the following lodge lobbies. Call (928) 638-2631, ext. 6015.

**Maswik Lodge**  
5:00 a.m.-7:00 p.m.

**Bright Angel**  
5:00 a.m.-9:00 p.m.

**Yavapai Lodge**  
8:00 a.m.-6:00 p.m.

**Railroad**  
**Grand Canyon Railway** offers service between Williams, Arizona, and Grand Canyon. Call (800) THE-TRAIN for information and reservations. [www.thetrain.com](http://www.thetrain.com)

**Taxi Service**  
Service is available to the Grand Canyon Airport, trailheads, and other destinations. Daily 24-hour service. (928) 638-2631, ext. 6563.

**Rim to Rim Shuttle**  
Daily round-trip transportation between the North Rim and South Rim is provided by **Transcanyon Shuttle**. One trip each way daily. Reservations required: (928) 638-2820.

**Shuttle Service**  
Two companies provide shuttle service between Flagstaff, Williams, and Grand Canyon twice daily, also serving Phoenix as well as other points in northern Arizona.

**Flagstaff Express**  
(800) 563-1980 or (928) 225-2290  
[www.flagstaffexpress.com](http://www.flagstaffexpress.com)

**Open Road Tours**  
(877) 226-8060 or (928) 226-8060  
[www.openroadtours.com](http://www.openroadtours.com)

**Arizona Highway Information**  
511 or (888) 411-ROAD  
[www.az511.gov](http://www.az511.gov)



## Religious Services

Religious services are offered in the park and the surrounding community. Current schedules are posted at Mather Campground (near the check-in station), Shrine of the Ages, the information kiosk near the post office, the Visitor Center at Canyon View Information Plaza, and Verkamp's Visitor Center.

**Church of Jesus Christ of Latter-Day Saints**  
Don Kiel, Branch President. (928) 638-9426

**El Cristo Rey Roman Catholic**  
Father Eugene Cagoco, D.S., (928) 638-2390

**Grand Canyon Assembly of God**  
Brian and Debbie Fulthorp, Co-pastors,

**Grand Canyon Baptist Church**  
Rick Wiles, Pastor. (928) 638-0757

**Grand Canyon Community Church**  
(Christian Ministry in the National Parks - multi-denominational)  
Jared Long, Pastor. (928) 638-2340

**Jehovah's Witnesses** (Tusayan)  
Borden Miller, (928) 635-4166

**Jewish Services and Programs**  
Rabbi Nina Perlmutter, (928) 777-8172

## Available in Tusayan

**IMAX Theater**  
8:30 a.m.-8:30 p.m. Movie shown every hour on the half hour ..... (928) 638-2206

**Kaibab National Forest**  
Tusayan Ranger District ..... (928) 638-2443

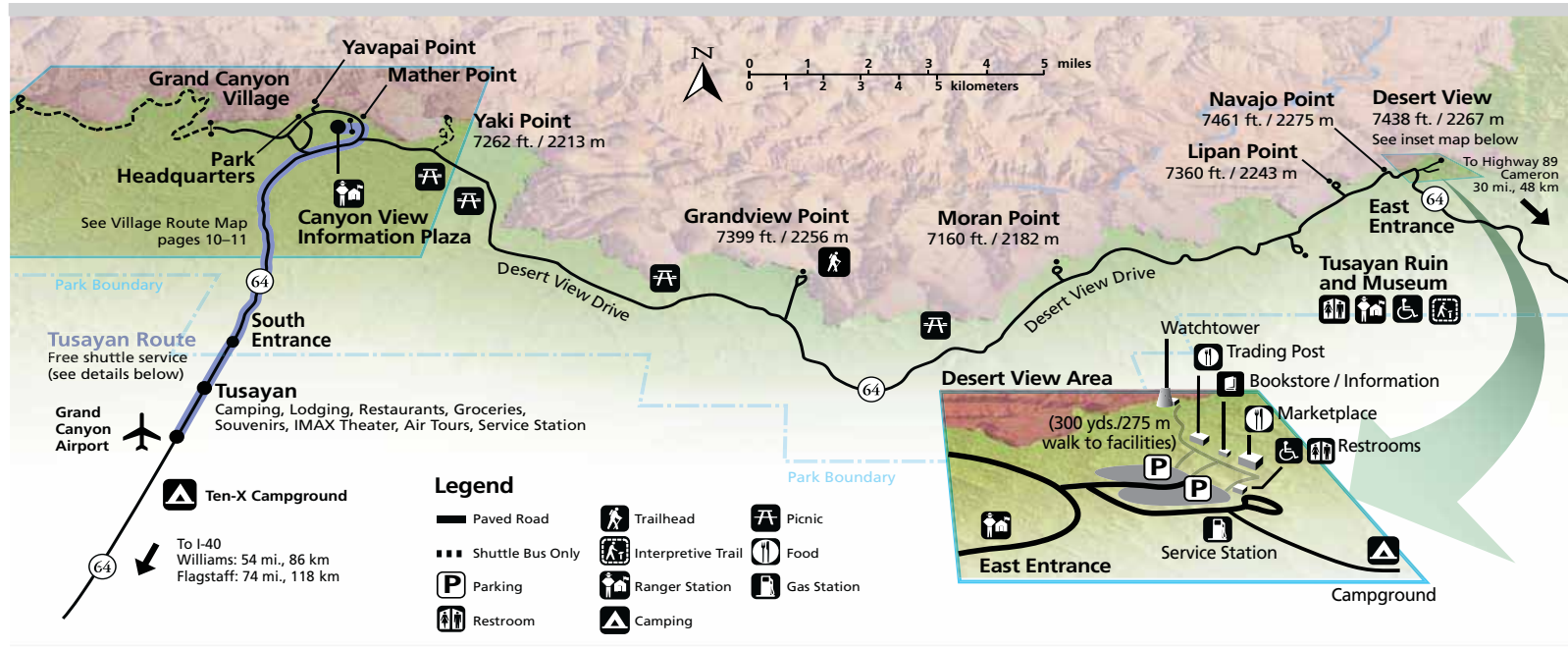
**News and Weather**  
KNAU ..... Radio FM 90.3

## Hualapai Skywalk

The Hualapai Skywalk is on the Hualapai Indian Reservation, not in Grand Canyon National Park. The Skywalk is at the west end of Grand Canyon approximately 250 miles from the South Rim. Stop by any NPS visitor center for a brochure with a map.

The Skywalk is a Hualapai Tribal business. For information or to make reservations: (877) 716-9378 or (702) 878-9378 or [www.destinationgrandcanyon.com](http://www.destinationgrandcanyon.com).

# South Rim



## Tusayan Shuttle

A free shuttle travels between Canyon View Information Center and the gateway community of Tusayan.

## Tusayan Route

Free buses provide transportation between the hotels in Tusayan (four stops) and Canyon View Information Plaza. You must have a valid park entrance permit to use this shuttle. Purchase permits at hotels or the National Geographic Visitor Center, if you have not already paid for a permit at the entrance station.

**May 16–September 13**

**20 minutes each way**  
(riding time; no stop)

**Buses run every 15 minutes**

- First bus leaves Tusayan at 8:00 a.m.
- First bus leaves Canyon View Information Plaza at 8:40 a.m.
- Last buses leave from both areas at 9:30 p.m.

## Bookstores



**GRAND CANYON ASSOCIATION**

INSPIRE. EDUCATE. PROTECT.

Grand Canyon Association (GCA) is a nonprofit organization created in 1932 to inspire and educate people to protect Grand Canyon National Park for the enjoyment of present and future generations. Since then, GCA has provided the park more than \$31 million in financial support. For GCA bookstore locations, see page 7.

When you shop at GCA bookstores, your purchase supports Grand Canyon National Park. When you visit, ask how you can support Grand Canyon National Park's educational programs and scientific research by becoming a member of the Grand Canyon Association. In addition to supporting the park, you will receive a 15 percent discount at all GCA bookstores, including our online bookstore at [www.grandcanyon.org](http://www.grandcanyon.org).

Member discounts are also available for most classes offered by the Grand Canyon Field Institute, GCA's outdoor education program. For more information about GCFL, visit [www.grandcanyon.org/fieldinstitute](http://www.grandcanyon.org/fieldinstitute).

Teachers can take advantage of GCA's *Travelin' Trunk* program, which brings the Grand Canyon to your classroom. For more information contact (800) 858-2808, ext. 7142 or [www.grandcanyon.org/fieldinstitute/educators\\_trunk.asp](http://www.grandcanyon.org/fieldinstitute/educators_trunk.asp).

Shop online: [www.grandcanyon.org](http://www.grandcanyon.org) or call toll free (800) 858-2808, ext 7030.

## Desert View Services

Chevron Service Station	9:00 a.m.–5:00 p.m.
Fuel available 24 hours with credit card	
Desert View Marketplace	8:00 a.m.–6:00 p.m.
Bookstore/Park Information	9:00 a.m.–5:00 p.m.
Trading Post Gift Shop	8:00 a.m.–sunset
Watchtower Gift Shop	8:00 a.m.–sunset
Watchtower stairs	Close 30 minutes before gift shop
Desert View Campground	First-come, first-served

**National Park Service**  
U.S. Department of the Interior

## Grand Canyon National Park

Post Office Box 129  
Grand Canyon, AZ 86023

For the latest information updates, visit Grand Canyon National Park's website at: [www.nps.gov/grca/](http://www.nps.gov/grca/)

*The Guide* is published by Grand Canyon National Park in cooperation with the Grand Canyon Association. Printed by Arizona Daily Sun on recycled paper, using soy-based inks. ♻️

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