



The Guide

South Rim: May 27–September 3, 2007
Also available in Français, Deutsch, Italiano,
Español, 日本語

Welcome to Grand Canyon National Park

For many, the expansive views, colorful buttes, and hidden depths of the canyon stand as an icon of the American West and the national park system. Take time to watch the play of light and shadows across the canyon. Wander along a trail and feel the sunshine and wind on your face. Attend a ranger program. Follow the antics of ravens and condors soaring above the rim. Savor a sunrise or sunset.



I invite you to stop by Yavapai Observation Station and enjoy the new geology exhibits. The displays explain the origin of the rock layers and formation of the canyon. To make your visit to the South Rim easier, I suggest you use the free shuttle bus system. The shuttles go to almost all areas of interest and travel throughout the day from before sunrise to after sunset. Explore beyond the Grand Canyon Village area and enjoy the views along Desert View Drive, stop by Tusayan Museum, and marvel at the canyon in the Desert View area.

President Theodore Roosevelt stood on the South Rim more than 100 years ago and implored the assembled crowd to “Keep this great wonder of nature as it now is . . . Keep it for your children and your children’s children and for all who come after you, as one of the great sights which every American, if he can travel at all, should see.” Today we welcome travelers from all around the world to this great wonder, but it is still our responsibility to preserve Grand Canyon for future generations.

Steve Martin—Superintendent, Grand Canyon National Park



What Time Is It?

Arizona remains on Mountain Standard Time (MST) year-round. Daylight Savings Time is not observed, except on the Navajo Reservation.



Grand Canyon Village Map on pages 10-11

Where’s the Visitor Center?

The Visitor Center is just south of Mather Point, but you cannot drive to the Visitor Center. Canyon View Information Plaza, including the new Visitor Center, was designed as the terminus for a mass-transit system that is not yet in operation. To get to the Visitor Center:

- **Park Your Vehicle**
Parking lots are shown on the map on pages 10–11.
- **Ride the Free Shuttle Buses**
Shuttle bus routes are shown on the map on pages 10–11.
- or
- **Park at Mather Point**
Walk the 300 yards (275 meters) to the Visitor Center.
Accessibility shuttle available.



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Use Caution Near the Edge!



Footing can be dangerous.

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.

Thinking about hiking?



Successful hikers:

- Read and follow the suggestions and regulations on pages 16–17.
- Plan their hike before they start and go prepared.
- Hike during the cooler, shadier times of the day.
- Go slowly, rest often, and stay cool.
- Eat salty foods and drink water or sports drinks.

Emergency • 911

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

Ranger Programs

The National Park Service invites you to enjoy the free programs below. We hope that learning about Grand Canyon and its resources will lead to a greater

Grand Canyon Village

Activity	Location	Time	Duration	Frequency
Cedar Ridge Hike 				
With a ranger descend 1,140 feet (347m) 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. Sturdy footwear and 1–2 quarts (1–2 liters) of water per person are required. 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 cross the plaza to the Kaibab Trail Route shuttle stop by 6:40 a.m. (allow 45 minutes for total travel time), or catch the 6:00 a.m. hikers' shuttle at the Backcountry Information Center. Last hike given August 20.	South Kaibab Trailhead	7:00 a.m.	3–4 hours	Daily
Mather Point Ranger Rove  				
Begin your day by meeting a ranger at one of the favorite overlooks, Mather Point. Rangers present short talks on geology, history, the Colorado River, or other canyon related topics, in addition to answering your questions.	Mather Point	8:00 to 9:00 a.m.		Daily
Fossil Walk: Remnant Impressions  				
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 1/2-mile (0.8 km) one-way walk explores an exposed fossil bed along the rim. Parking may be limited; consider parking in Lots C, D, or E or riding the free Village Shuttle to the Bright Angel Lodge stop.	Patio on the rim side of Bright Angel Lodge	9:00 a.m.	1 hour	Daily
A Geo-Glimpse  				
Enjoy the new geology exhibits at Yavapai Observation Station and explore a selected aspect of the canyon's geology during these short, indoor talks.	Inside Yavapai Observation Station	9:30 a.m. 12:00 noon 2:30 p.m.	20 min. 20 min. 20 min.	Daily Daily Daily
Introduction to Grand Canyon's Geology  				
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.	Visitor Center at Canyon View Information Plaza	10:00 a.m.	30–45 min.	Daily
Nature Walk   				
Learn more about the complexity and diversity of nature with a short hike along the rim. Topics vary and may include: animals and plants adapting to changing seasons, man's impact on nature, how nature inspires writers and poets, rare and endangered species, or Native American use of plants and animals. Parking may be limited; plan to arrive by the free Village Route shuttle bus to the Yavapai Observation Station stop.	Bicycle rack at Yavapai Observation Station	11:30 a.m.	45–60 min.	Daily
Geology at the Canyon: Read the Rocks  				
There is only one Grand Canyon. How did it come to be? Walk with a ranger along the rim and learn how to read the Earth's history in the rocks of the canyon. This program may involve a leisurely 1-mile (1.6 km) walk on a paved trail. Parking is extremely limited; plan to arrive by the free Village Route shuttle bus to the Yavapai Observation Station stop.	Bicycle rack at Yavapai Observation Station	1:30 p.m.	1 hour	Daily
Ranger's Choice  				
Explore the world of Grand Canyon during this in-depth special program. Topics change daily; check at the Visitor Center for the day's subject. Possible programs include nature walks, Native American culture, or pioneer history. Plan sufficient time to arrive at the Visitor Center by the free Village Route shuttle bus.	Visitor Center at Canyon View Information Plaza	2:00 p.m. 4:30 p.m.	30 min. 30 min.	Daily Daily
The Human Story   				
For thousands of years, humans have been part of Grand Canyon. Join park staff at the El Tovar flagpole. You may want to bring a hat and water for this relaxing program, which may involve a short walk. Parking may be limited; consider parking at Lots C or D or riding the free Village Route shuttle bus to the Train Depot stop.	Flagpole on the rim behind El Tovar Hotel	2:30 p.m.	45–60 min.	Daily

appreciation of your national park. Several of these programs require riding the free shuttle bus to get to the meeting location. Plan sufficient time to arrive before the start of the program. An explanation of Ranger Program symbols is listed on page 4.

Grand Canyon Village, continued

Activity	Location	Time	Duration	Frequency
Condor Talk: Wings over the Canyon ⚡🧑🏿				
What highly endangered bird with a 9-foot 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.	In front of Lookout Studio near the Bright Angel Lodge	3:30 p.m.	30–45 min.	Daily
Climbing stairs may be involved in getting to the program site.				
Fossil Walk: Remnant Impressions ⚡🧑🏿				
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 1/2-mile (0.8 km) one-way walk explores an exposed fossil bed along the rim. Parking may be limited; consider parking in Lots C, D, or E or riding the free Village Shuttle to the Bright Angel Lodge stop. In the event of a lightning storm, program will be canceled.	Patio on the rim side of Bright Angel Lodge	4:30 p.m.	1 hour	Daily
Campfire Program ⚡🧑🏿				
Return to the roots of the Park Service and join rangers for an evening around the campfire at Mather Campground. These fun-filled programs cover a range of park topics from wildlife to human history to stories about the Colorado River and everything in between. Dress warmly. Meet at the Sage Loop Campfire Circle located on the left side of the campground road, 100 yards past the ranger station. Last program August 20.	Sage Loop Campfire Circle in Mather Campground	7:00 p.m.	45–60 min.	Daily
Evening Program ♿⚡🧑🏿				
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 or call 638-7610. 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.	Mather Amphitheater , behind Park Headquarters off the Rim Trail from parking Lot A	8:30 p.m.	1 hour	Daily
Family Fun				
Although children may enjoy many of the activities listed above, the following programs are designed especially for children that parents will enjoy as well. Please remember that children must bring an adult with them to all programs. Read about the Junior Ranger program on page 7.				
Junior Ranger Discovery Pack Program ♿🧑🏿				
Explore the wonders of Grand Canyon ecology with your family. Learn to use binoculars and field guides, tools of a park naturalist, to discover the diversity of plants and animals that call Grand Canyon home. Designed for families with children ages 9–14, participants earn a Discovery Pack certificate and 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 the Visitor Center no later than 4:00 p.m. the same day. Arrive at the Visitor Center at Canyon View Information Plaza by free Village Route shuttle bus. This program begins June 10.	Visitor Center at Canyon View Information Plaza	9:00 a.m.	1 1/2 hours	Daily
This program begins June 10.				
Junior Ranger Adventure Hike ♿🧑🏿				
Explore the Grand Canyon with a ranger. Hike a moderate, unpaved trail and enjoy exciting activities that relate dynamic stories of Grand Canyon's wonders. Topics may include Grand Canyon's amazing rocks, fossils, or plants and animals. This hike will be up to one mile (1.6 km), so bring your water bottles, sunscreen and wear good hiking shoes! To attend this program take the free Hermits Rest shuttle at 8:00 a.m. to arrive on time. Meet at the Hermits Rest bell. Participants earn a Dynamic Earth certificate and are eligible to purchase a Dynamic Earth Junior Ranger patch. Offered June 12 through August 18.	Hermits Rest bell	9:00 a.m.	2 hours	Tues. Thurs. Sat.
This program begins June 12 and ends August 18.				
Kids Rock! ♿🧑🏿				
Hey, kids! Join a ranger for fun activities designed to present the wonders of the natural world of Grand Canyon. Rangers lead children ages 7–11 through games and activities to make it a fun educational experience. Themes include fire ecology, water, insects, bats, and much more! This program offered June 10 through August 18.	Shrine of the Ages , west end of Parking Lot A	10:30 a.m.	1 hour	Daily
This program begins June 12 and ends August 18.				
Story Time Adventure ♿🧑🏿				
Come explore Grand Canyon through stories. Join a ranger reading fun children's books about Grand Canyon. Props and interactive games bring the pages to life. This program is for families with children ages 2–6. Children receive a condor tattoo or sticker when they complete the program. This program begins June 10.	Porch on the rim side of El Tovar Hotel	1:30 p.m.	30 min.	Daily
This program begins June 10.				
Programs continue on the next page.				

Ranger Programs continued

More Family Fun Programs

Activity	Location	Time	Duration	Frequency
Way Cool Stuff for Kids  				
This program begins June 10.				
If you liked Kids Rock!, you'll like Way Cool Stuff for Kids. 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 include animal adaptations, predator-prey relationships, invasive species, stewardship, and more. This program begins June 10	Shrine of the Ages, west end of Parking Lot A	4:00 p.m.	1 hour	Daily

Special Programs

Full Moon Walks and Star Talks 				
See page 6 for moon phase dates.				
During nights around the full moon and new moon, rangers will 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.	Mather Point	Through August 13 10:00 p.m.	1 hour	3 days around the new and full moon
		Starting August 14 9:30 p.m.	1 hour	

Additional Programs

Additional activities including a variety of walks and talks are scheduled when staffing allows. Watch for program announcements posted at the Visitor Center at Canyon View Information Plaza, along the rim near El Tovar Hotel or the Bright Angel Lodge patio, or at Yavapai Observation Station.

Desert View–Tusayan Museum

Glimpses of the Past  				
Consider the ancient people who called Grand Canyon "home" 800 years ago. How did they thrive in this environment? Walk with a ranger on a 0.1 mile (0.2 km) flat, paved trail and see the remains of an ancestral Puebloan village.	Tusayan Museum, 3 miles (4.8 km) west of Desert View	11:00 a.m. 3:30 p.m.	30 min. 30 min.	Daily Daily
Cultural Connections  				
The story of human experience at the Grand Canyon spans the last 12,000 years. Potsherds, ruins, split-twig figurines, and the stories of present-day Native Americans broaden our knowledge of these people who made the canyon their home. Join a park ranger for a talk that explores aspects of this rich cultural legacy.	Tusayan Museum, 3 miles (4.8 km) west of Desert View	2:00 p.m.	20 min.	Daily

The Spirit of Sunset 				
Last program given August 18.				
Tranquility... Inspiration... Spectacular colors... and the natural sounds of the canyon. Leave the crowds behind and end your day at Desert View, watching the sun sink in the west, painting the canyon with dramatic shadows and colors. The park ranger's own passion and enthusiasm for the many facets of the Grand Canyon guide the topic for this program. Wear weather appropriate clothing. See page 6 for sunset times. Last program given August 18.	Desert View Point near the Watchtower	1 hour before sunset (see page 6 for sunset times)	45 min.	Daily

Phantom Ranch

Ranger Programs 				
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.	Phantom Ranch	4:00 p.m. 7:30 p.m.	45 min. 45 min.	Daily Daily

Note: Children must be accompanied by an adult on all programs.



All outdoor programs are subject to cancellation due to inclement weather or when lightning danger is present.



These programs are wheelchair accessible with assistance. Wheelchairs are available for loan at the Visitor Center at Canyon View Information Plaza. For programs meeting at the Visitor Center, handicap access is by wheelchair or accessibility shuttle from Mather Point parking lot.



These family-oriented programs are ideal for meeting the ranger program requirement for the Grand Canyon's Junior Ranger award. However, any ranger program may serve the requirement on page 2 of the Junior Ranger Activity Booklet. All children must be supervised and accompanied by an adult on all programs.

Special Programs

Star Party: June 9–16



Explore the night sky at Yavapai Point with Tucson Amateur Astronomy Association volunteers. Enjoy a slide presentation, then view the night sky through their telescopes. Dress warmly. A flashlight and lawn chair are recommended. Meet at Yavapai Observation Station at 8:00 p.m. for the slide show. Telescope viewing continues into the night. Due to the telescopes, parking is extremely limited. Please arrive by Village Route shuttle bus.

Digital Photography Workshops: July 9–29

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.

Weekday programs are led by photographic team Rob and Ann Simpson. Rob, a former park ranger, is a professor of Natural Resources and Field Biology and directs the Nature and Outdoor Photography Curriculum at Lord Fairfax College, Virginia. Ann is a professor of Anatomy and Physiology and teaches Biology, Microbiology, and Photography. The Simpsons apply their classroom and educational experience to the field and have the gift to explain complex concepts in simple, easy-to-understand language.

Weekend photo 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 will provide digital single lens reflex bodies and lenses for all participants. Please arrive approximately 15–30 minutes before the class begins. All participants will receive a CD and prints of the images they have taken.

Photo Walks

When: July 9–29, 9:00 a.m. and 2:00 p.m. daily, except Tuesdays.

Where: Meet at the flagpole on the rim-side of El Tovar Hotel

Duration: 1–2 hours.

The programs continue in the evenings with a slide show.

Evening Slide Show

When: July 9–29, 6:00 p.m. daily, except Tuesdays.
No evening program Friday, July 20

Where: Shrine of the Ages auditorium (parking lot A next to Park Headquarters)

Duration: 45 minutes



Canon



Grand Canyon Music Festival: September 1–16

Grand Canyon Music Festival presents its 24th season with weekend and mid-week concerts in the cool pines of Grand Canyon National Park. Concerts are indoors at Shrine of the Ages at 7:30 p.m., unless otherwise noted. Doors open at 7:00 p.m. The Festival also presents the 7th season of its *Native American Composer Apprentice Project* with education programs at Navajo and Hopi Reservation schools and Grand Canyon Schools.

Saturday, September 1 and Sunday, September 2, *Pictures at an Exhibition* showcases the “consistently brilliant” (*New York Times*) Trio Solisti performing works by Mussorgsky, Ravel, Turina, Brahms, Bizet and Enescu, concurrent with an exhibit of the art of John and Ruth Waddell.

Friday and Saturday, September 7 and 8, the brilliant, young Calder Quartet performs the classics and soon-to-be classics, including works by Beethoven, Schubert, Mendelssohn, Philip Glass, Terry Riley, and Thomas Ades.

The Bonfiglio Group returns to the Shrine of the Ages on Wednesday, September 12, with their “sophisticated and contemporary”

blend of blues, jazz and Latin sounds. On Sunday, September 16, they appear in a family matinee concert at the Canyon Plaza Quality Inn in Tusayan (time to be announced).

The string band Ethel closes out the Grand Canyon Music Festival's 24th season on Friday and Saturday, September 14 and 15, 2007. “Ethel created a world in which classical music had never grown distant, a world in which it was as fresh and direct as crowds dancing in the street.” (Greg Sandow, *Wall Street Journal*). Hear for yourself what critics are raving about as Ethel performs works from its latest CD, *Light*.

Come at 6:00 p.m. to hear Ethel perform original works produced by the Grand Canyon Music Festival's Native American Composer Apprentice Project students.

Detailed program information and tickets are available at www.grandcanyonmusicfest.org or by calling (800)997-8285.



Trio Solisti

Historic Kolb Studio Art Exhibits

April 12–July 15:
Wish You Were Here



Postcards, letters and other documents sent from the Grand Canyon from 1900 to 1950 document the impact of the gaping chasm on visitors of that time. The canyon's postal history, stamps, “Mule Mail,” and rail mail are a all part of the story. Admission is free.

August 1–October 31:
I Am the Grand Canyon



People have dwelt in and around the Grand Canyon for at least 8,000 years. For the past millennium, however, the canyon's principal inhabitants have been the Havasupai, a small tribe living in a rugged canyon paradise. Through this exhibit they share their history, their fight to regain tribal

land, and their struggle to maintain their rich culture and identity in today's world.

Enjoying Grand Canyon

Information Centers



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 (described on page 5), 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.



Canyon View Information Plaza

Visit the visitor center and Books & More bookstore at Canyon View Information Plaza. Accessible only by free shuttle bus, a one-mile walk or bicycle ride from Market Plaza on the Greenway Trail, or a short walk from Mather Point. Open 7:30 a.m. to 6:30 p.m. Bookstore open daily 8:00 a.m. to 8:00 p.m. Outdoor exhibits may be viewed anytime. See page 2-3 for ranger programs starting here.



Yavapai Observation Station

Yavapai Observation Station, one mile (1.6 km) east of Market Plaza, is perched on the rim and offers exceptional views of the canyon. New displays explain the geology and formation of the canyon. The bookstore features many geology oriented titles, in addition to other popular publications. Open daily 8:00 a.m. to 8:00 p.m. See page 2 for ranger programs starting here.



Tusayan Museum

A visit to Tusayan Ruin and Museum provides a glimpse of Pueblo Indian life some 800 years ago. The museum is located three miles west of Desert View and is open daily 9:00 a.m. to 5:00 p.m. Admission is free. A self-guiding trail leads through the adjacent 800-year-old ruin. See page 4 for information on programs originating here.



Desert View Bookstore/ Park Information

The Desert View Bookstore, located at Desert View Point near the park's east entrance, offers a Passport Stamp cancellation station, an excellent selection of publications, and memorabilia. Open daily 9:00 a.m. to 5:00 p.m., as staffing permits.

Class Field Trips, Distance Learning, and Teacher Workshops



The Environmental Education staff invites teachers and students to take advantage of our free educational resources. We offer nine ranger-led field trip programs at the canyon covering geology, ecology, and history topics. Programs are designed for grades K-7, are curriculum based, and address Arizona academic standards. Distance learning via video-conferences is offered for schools unable to come to the park.

Advanced reservations are required for these popular programs. Registration for the 2007/08 school year begins September 5. Rangers may be available for pre-visit, in-class presentations.

Free teacher workshops cover suggested pre- and post-visit activities, as well as a walk-through of the program at the canyon. Park staff conducts workshops several times throughout the year. For more information or to make reservations for either a park visit or a teacher workshop call (928) 638-7662 or visit www.nps.gov/grca/forteachers/index.htm.

Grand Canyon Semester

Northern Arizona University, in cooperation with Grand Canyon National Park and the Museum of Northern Arizona, offers an unforgettable undergraduate learning experience. On backcountry field trips, in traditional classroom settings, around campfires, and floating down the Colorado River through Grand Canyon, students confront current issues of the American West. Earn 18 semester credit hours while immersing yourself in experiential learning that could change your life. For more information visit www.grandcanyonsemester.nau.edu.

Use Caution near the Edge



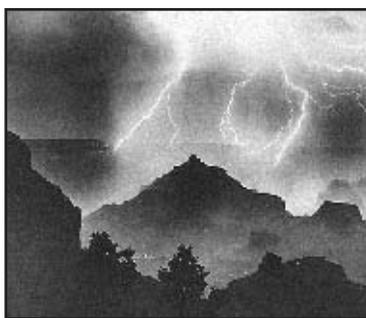
Rock hopping outside the guard rails at Mather Point leads to a tragic fall. A man dies after he falls while trying to get to a rock outcrop for a photograph.

These tragedies are real. What was to be a memorable vacation, becomes a nightmare for the families and friends of the victims. Such accidents are avoidable. Use caution anytime you are at the rim. Do not go beyond barriers. Be aware of

your footing and the condition of the ground surface you are standing on.

There are many beautiful views of the canyon that you can enjoy without putting yourself at risk. Have the memorable trip you planned and enjoy the canyon safely.

Avoid a Shocking Experience



Kolb Brothers photo

Lightning strikes are common on the South Rim of Grand Canyon and can be dangerous. During thunderstorms, stay away from exposed rim areas.

Hair standing on end is a sign 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 during a storm is inside a vehicle with the windows closed or inside a building. Avoid touching anything metal. For further information, lightning awareness brochures are available at the Visitor Center.

Sunrise & Sunset

Date	Sunrise	Sunset
May 27	5:15 a.m.	7:37 p.m.
June 3	5:12 a.m.	7:41 p.m.
June 10	5:11 a.m.	7:45 p.m.
June 17	5:11 a.m.	7:48 p.m.
June 24	5:13 a.m.	7:49 p.m.
July 1	5:15 a.m.	7:49 p.m.
July 8	5:19 a.m.	7:48 p.m.
July 15	5:23 a.m.	7:46 p.m.
July 22	5:28 a.m.	7:42 p.m.
July 29	5:33 a.m.	7:36 p.m.
Aug. 5	5:39 a.m.	7:30 p.m.
Aug. 12	5:44 a.m.	7:22 p.m.
Aug. 19	5:50 a.m.	7:14 p.m.
Aug. 26	5:55 a.m.	7:05 p.m.
Sept. 2	6:01 a.m.	6:55 p.m.

Moon Phases

New Moon	Full Moon	Moon Rises
	May 31	7:55 p.m.
June 14	June 30	8:30 p.m.
July 14	July 29	7:47 p.m.
Aug. 12	Aug. 28	7:19 p.m.

All times are

Mountain Standard Time.

Enjoying Grand Canyon

Personalize Your Grand Canyon Experience

Individual interests, available time, and the weather can all influence a visit. The following list of activities is provided to assist you in personalizing your Grand Canyon experience. To locate places mentioned below, refer to the maps on pages 10–11 and 20. An *Accessibility Guide* for visitors with limited mobility is also available at the Visitor Center at Canyon View Information Plaza and Park Headquarters.

Activity	Option
Attend Free Ranger Programs	<ul style="list-style-type: none"> Listed on pages 2–4 Junior Ranger program described below
Visit Scenic Hermit Road 7 miles one-way. Allow at least 2 hours roundtrip.	<ul style="list-style-type: none"> Ride the free shuttle from the Village Route Transfer Views of river at Hopi, Mohave, and Pima Points Visit Hermits Rest—historic landmark with view of river Closed to private vehicles
Visit Scenic Desert View Drive 25 miles one-way	<ul style="list-style-type: none"> Tour by private vehicle or commercial bus Views of river at Moran Point, Lipan Point, Desert View May exit the park to the east—Cameron and Highway 89
Visit an Information Center or a Museum	<ul style="list-style-type: none"> The park offers a variety of museums and visitor centers that house exhibits and provide park information See adjacent page for more information
Hiking	
Walk Part of the Rim Trail	<ul style="list-style-type: none"> See map pages 10–11; described on page 16 Trail may be accessed at many locations along rim
Day Hike into Grand Canyon	<ul style="list-style-type: none"> See pages 16–17 for information on trails and safety It will take twice as long to hike up as it does to hike down Do not attempt to hike to the river and back in one day
Overnight Backpacking	<ul style="list-style-type: none"> Permit and fees required (see page 17) Inquire at Backcountry Information Center (8:00 a.m.–noon and 1:00–5:00 p.m.)

The Canyon's Best Bargain—The Shuttle Bus System



For more than 30 years the National Park Service has provided a free shuttle bus system on the South Rim. Visitors and residents have made 75,000,000 boardings. Many of the buses use compressed or liquefied natural gas, a much cleaner burning fuel. Some of the buses have provisions for improved accessibility. Riding the shuttles makes your stay more enjoyable, while reducing pollution and decreasing traffic congestion.

How do I use the free shuttle buses?

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. It is that simple. The buses

come by every 10–20 minutes. There are no tickets to obtain, and you are free to get on and off at any stop. The routes are designed so you can ride to a stop, enjoy the view, shop at a gift store, or walk along the rim and then hop on a later shuttle.

Where do the shuttles go?

There are three shuttle routes. They do not overlap, although they interconnect. Buses are identified with a colored square near the boarding door.

Hermits Rest Route (red) The western-most loop winds along the rim for eight miles to Hermits Rest, stopping at viewpoints along the way.

Village Route (blue) This loop connects the visitor center, lodging, restaurants, gift shops, and campgrounds. It may be the best way to get to many of the ranger programs.

Kaibab Trail Route (green) Leave from Canyon View Information Plaza and go to the South Kaibab Trailhead and viewpoints along the rim.

See pages 10–11 for a map with routes, stops, and times.

New Interagency Annual Pass

If you are a frequent visitor to National Park Service or other federal agency sites that charge entrance fees, you may be interested in the new *America the Beautiful - National Parks and Federal Recreation Lands Pass*. The \$80.00 pass is valid for one year from the time of first use. Five federal agencies—National Park Service, Bureau of Land Management, Bureau of Reclamation, U.S. Fish and Wildlife Service, and U.S. Forest Service—participate in the pass.



The program also offers a lifetime senior pass (\$10.00) for U.S. citizens 62 or over and a free access pass for citizens with permanent disabilities. Those who already have a Golden Age or Golden Access pass do not need to obtain the new passes.

The *America the Beautiful* pass may be purchased at park entrance stations, Grand Canyon Association bookstores, or online at www.recreation.gov. The senior and access passes are available only at the entrance stations.

Let Wildlife Be Wild

What is one of the more common injuries that occurs to visitors? Bites from rock squirrels. The South Rim's abundant wildlife—mule deer, elk, Aberts squirrels, rock squirrels, and coyotes—provide some exciting memories. Remember, these are wild animals that should be respected at all times. For your own safety and the well-being of the wildlife:



- Keep your distance. Discourage animals from approaching you. Scare them away.
- Never feed them. Natural foods are still best. Once a wild animal is fed human food, it may become dependent on handouts. Animals will often ingest wrappers and plastic bags along with the food, eventually leading to their death.
- Inform others. If you see other visitors approaching or feeding wildlife, let them know that their actions are a danger to themselves and the animal. Report the offender's license plate or other identifying information to a ranger. It is a crime to feed or even approach wildlife. Offenders can be fined up to \$5,000.
- Protect yourself and family. Deer can be aggressive. Serious bites from squirrels happen all too often. Fleas on squirrels may carry bubonic plague. Enjoy the wildlife from a distance.

Would you like to be a Junior Ranger?

Grand Canyon National Park offers a free Junior Ranger program for children ages 4 and older.

To take part in the program, pick up a free Junior Ranger booklet at the Visitor Center at Canyon View Information Plaza, Yavapai Observation Station, or Tusayan Museum information desk and complete the activities listed for the appropriate age level.

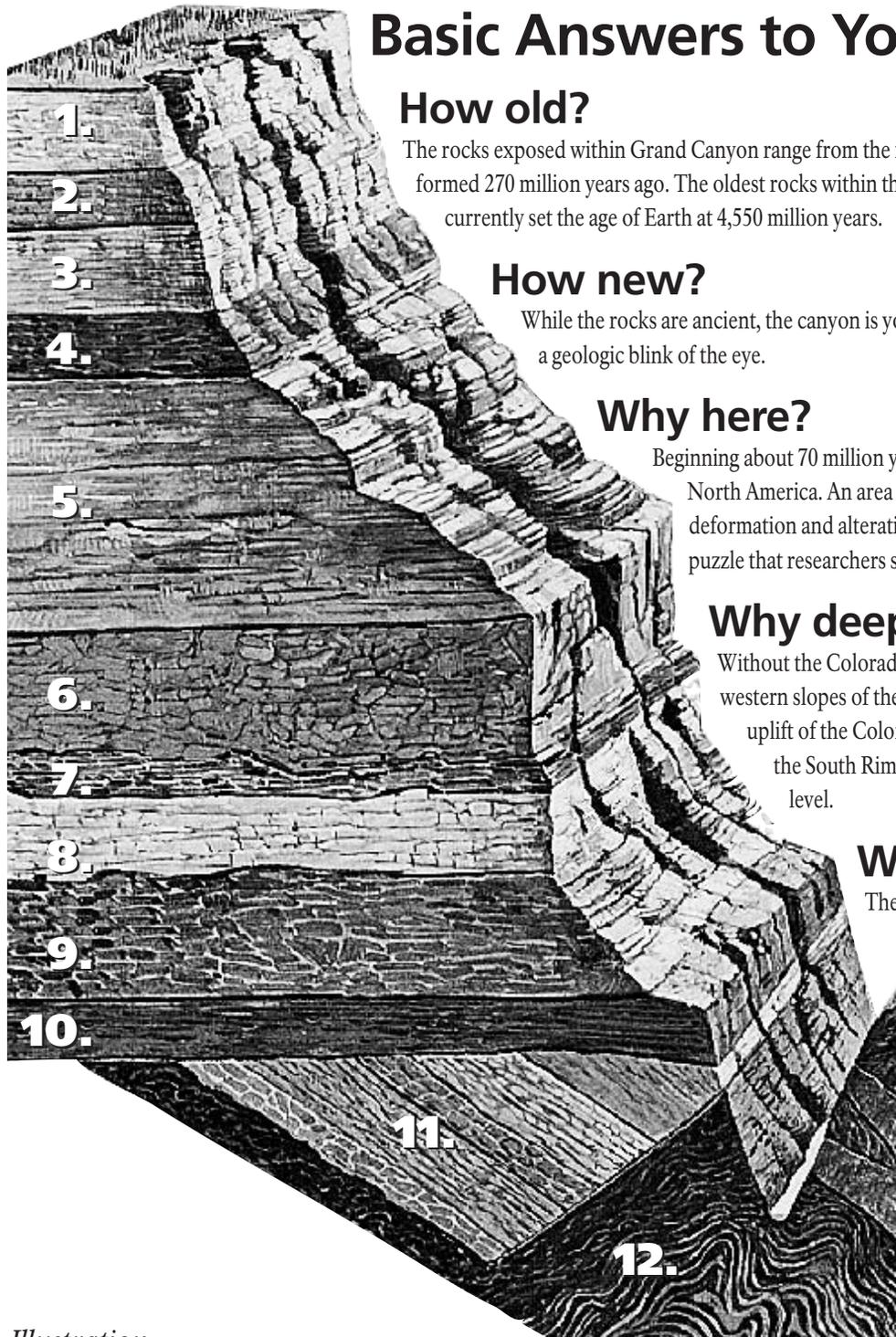
Once completed (don't forget that attendance at one or more ranger programs is required) bring the booklet back to the Visitor Center at Canyon View Information Plaza or Tusayan Museum to receive an official Junior Ranger certificate and badge. A Junior Ranger program, specifically for Phantom Ranch, is also available.



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.

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?

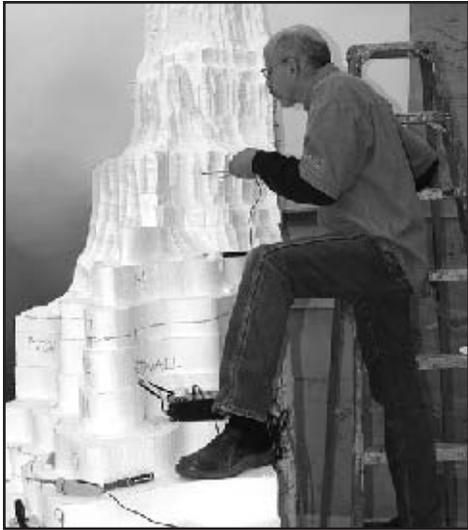
The geologic story is rich in detail and mystery. Attending a free ranger program may move you from wonder to comprehension. Programs are described on pages 2–3.

Grand Canyon Association bookstores offer many geology related titles. Bookstore hours and locations are listed on page 3. To learn more about geology at Grand Canyon, take a look at:

- *Yardstick of Geologic Time*, Grand Canyon Association
- *Introduction to Grand Canyon Geology*, Greer Price
- *Carving Grand Canyon*, Wayne Ranney
- *Grand Canyon: Solving Earth's Grandest Puzzle*, James Powell

Park News

New Exhibits for an Old Friend



National Park Service architect Herbert C. Maier designed the building to fit into the landscape rather than to dominate it. Maier was influenced by Mary Colter, architect of several other buildings on the South Rim. Constructed of local stone and timbers, the low flat roof reflects the horizontal layers of the canyon.

The building consists of two rooms – an observation area to enjoy the view and an enclosed exhibit area. Originally open to the weather, the observation platform had no windows to separate observers from the natural scene. Windows were installed and the sweeping, overhanging roof was cut back in the 1950s, benefiting visitors during the colder months.

Early park naturalist Eddie McKee established his reputation as a dynamic interpreter of the canyon's geology while giving talks in Yavapai Observation Station. More than one young visitor decided to study geology after hearing his lectures. McKee guided the development of geology exhibits for the museum.

Through decades of summer storms, winter snows, and the occasional lightning strike Yavapai Observation Station aged fairly well. The building closed during 2005–2006 for structural rehabilitation, but opened with temporary furnishings last summer. This spring new exhibits telling Grand Canyon's geologic story spanning almost two billion years were installed. The new book sales area concentrates on geology, while including other popular titles.

What rocks occur in the canyon? When were the layers deposited and under what conditions? How was the canyon formed? Stop by Yavapai Observation Station between 8:00 a.m. and 8:00 p.m. to see the new exhibits and learn the answers to these and many other geologic mysteries. Rangers are on duty from 8:30 a.m. to mid-afternoon to answer your questions and present short talks on the geology of the area.



“A place at once welcoming and exciting, intimate and instructive.” This quote from the Historic Structure Report provides an apt description of the Yavapai Observation Station. For almost 80 years it has perched on the rim at Yavapai Point. The expansive views offer a dramatic opportunity to tell the geologic story of Grand Canyon.

First opened for visitors in 1928, it is one of the oldest museums in the national park system.

Where Do My Entrance Fees Go?



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

How do almost five million visitors efficiently enter, explore, and experience this area? The Transportation Plan looks at ways to improve your visit to the South Rim. Goals are to reduce the wait

at the entrance station, make it easier to get to the visitor center, and improve the shuttle bus system. Planning is just beginning, so it will be several years before these improvements are in place.

The shuttle bus system is funded through entrance fees. Visitors made almost 5,000,000 boardings during 2006. A new alternative fueled, accessible bus costs in excess of \$300,000. The National Park Service would like to replace all diesel buses with alternative fueled ones. Ride the shuttles; you have already paid for their operation. The map on pages 8–9 provides details on the shuttle bus system.

Major projects that have been completed in recent years include the visitor center and restrooms at Canyon View Information Plaza; a new maintenance facility; upgrading of the Mather Campground restrooms; the rehabilitation of the 1920s Ranger Operations building, the original park headquarters; and improvements to the Backcountry Information Office.

Projects recently completed or still in the construction phase are the rehabilitation of the historic Yavapai Observation Station including new geology exhibits and new restrooms at several locations along the South Rim. Park planners are designing improvements for the Bright Angel and South Kaibab Trailhead areas. Perhaps as early as 2008 Hermit Road will be repaved.

Not all of the entrance fees stay here. Approximately twenty percent of each entrance permit is redistributed to other 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 Recreational Lands Pass*, which provides entrance to all sites that charge entrance fees. Your current Grand Canyon entrance permit can be applied toward the Interagency Pass.



Park Science

Simply Messing About in Boats



About 25,000 people a year float the Colorado River and gain an amazing, even life changing, perspective of Grand Canyon. For the boatmen and women who provide the river trips, navigating the Colorado River as it flows through the canyon and sharing the river world with others becomes a way of life.

The river guides and others interested in river adventures have formed the Grand Canyon River Guides (GCRG), a nonprofit organization dedicated to

protecting Grand Canyon, setting the highest standards for the river profession, celebrating the unique spirit of the river community, and providing the best possible river experience.

One of the projects GCRG has undertaken is to preserve Colorado River runners' stories. GCRG unofficially began collecting oral history interviews in 1990 at "Woman of the River" Georgie White Clark's eightieth birthday party. Several grants later, the interviews total nearly 100, with two

new endeavors: Adopt-A-Boatman and an Arizona Humanities Council (AHC) grant to focus on under-represented female boatmen, *It's More Than Fair, the Ladies Speak Up*.*

The oral history project succeeds through cooperation and collaboration. Thanks go to the many people who have contributed interviews, AHC for several grants, and Northern Arizona University Cline Library for archiving and providing online access to the interviews at <http://www.nau.edu/library/speccoll>.

Grand Canyon River Guides' website features a searchable database of interviews that have been published in the *Boatman's Quarterly Review* (<http://www.gcrg.org/bqr.html>). Among those interviews are Lois Jotter Cutter, one of the two first women through the canyon (1938, pictured above); Arizona Senator Barry Goldwater (1940); Martin Litton (1955) and David Brower discussing saving the Colorado River from being

dammed in Grand Canyon; and boatmen, outfitters, passengers, photographers, scientists, environmentalists, and National Park Service employees.

Though opinions may vary, all interviewees are united in their love of the river. As Water Rat expressed so eloquently in Kenneth Grahame's *The Wind in the Willows*, "Believe me, my young friend, there is nothing—absolutely nothing—half so much worth doing as simply messing about in boats."

Richard D. Quartaroli, Cline Library Special Collections librarian and Grand

Canyon River Guides member and past president, contributed this article.

* This program was made possible in part by a grant from the Arizona Humanities Council. AHC has designated the GCRG River Runners Oral History Project as a *We the People* initiative of the National Endowment for the Humanities. Any views, findings, conclusions, or recommendations expressed in this project do not necessarily reflect those of AHC of the NEH.

Arizona Humanities Council
Sharing cultures. Enriching communities.

Want to know more?

Publications covering boating on the Colorado River are surprisingly numerous and diverse. Some titles available in Grand Canyon Association bookstores include:

Exploration of the Colorado River and Canyons, John Wesley Powell
Grand Canyon River Guide, Buzz Belknap
There's This River, Christa Sadler
Writing Down the River, Leila Philip, Kathleen Jo Ryan, et al

Mountain Lions and You

National parks, because they offer sanctuary from hunting and a relatively stable environment, tend to attract deer and elk and their predators. The developed area on the South Rim offers sources of water and food that lead to high concentrations of deer and elk. With all this available food, is the cougar population also increasing? Are mountain lions frequenting areas near human activity?

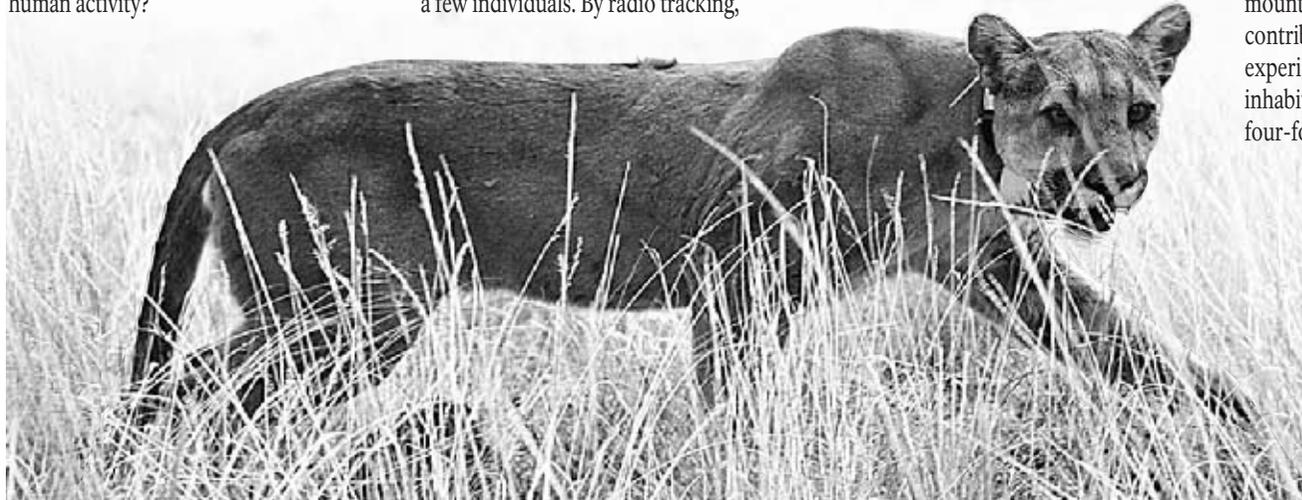
During the last few years, biologists have studied mountain lions on the South Rim to answer these questions. In one research project mountain lions "donated" hair samples by rubbing against bait stations. This study identified individuals, where they roamed, and the genetic relationships between different lions. In another study, biologists placed radio collars on a few individuals. By radio tracking,

researchers can determine the activities of these collared animals.

Mountain lions are indeed found on the South Rim, including areas frequented by people. Research has not yet determined exact numbers of lions, nor has it concentrated on other areas of the park.

If cougars are in this area, is there danger to park visitors? The great majority of visitors never see a mountain lion in the park. There has never been a documented attack. The suggestions highlighted with this article reduce the chance of mountain lion/human interactions.

Although seldom seen, the presence of mountain lions, as well as other wildlife, contributes to the richness of the visitor experience. Please respect all the inhabitants of this wonderful area, both four-footed and two-footed.



The following suggestions may be helpful in reducing 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 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. This could provoke a chase response. Back slowly away from the lion 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

Clean Air and Distant Views Are Our Resources Vanishing?

Grand Canyon National Park is one of the few places left in the United States where you can see as far as it is theoretically possible to see. At Grand Canyon the average visibility is ninety miles. By comparison, in the eastern United States average visibility is twelve to twenty miles. However, exceptionally clear days are becoming extremely rare at Grand Canyon. More than 90 percent of the time, a veil of air pollution obscures distant landmarks, mutes colors, and flattens textures. The air pollution creating the haze is not concentrated enough to violate health standards, but it is visible nonetheless. This haze is usually at

its worst in the summer, when prevailing winds bring pollution from the southern parts of Arizona, California, Nevada, and northern Mexico.

The National Park Service is working to protect and restore the clear air that enhances the natural beauty of the Southwest. An extensive monitoring network in the park measures air quality, determining how much and what kinds of pollution are present. The National Park Service works with partners in federal, tribal, state, and local governments to reduce pollution loads. Some examples illustrate the range of their efforts. Inside the park, shuttle buses transporting thousands

of visitors who have parked their cars not only reduce automobile congestion, but also help lower polluting emissions. For eons periodic low-intensity forest fires have maintained park ecosystems. Today, similar fires, ignited by land-management agencies, are restoring ecosystems, but the fires and their smoke are carefully managed to limit their impacts. "Scrubbers" on nearby coal-burning power plants capture sulfur oxides before they are released into the atmosphere to reduce their effect on Grand Canyon's views.

Air pollution at Grand Canyon is not simply a local problem. Most of the

haze in the canyon rides the wind from distant urban and industrial areas. We can trace the Los Angeles basin "plume," which impacts Grand Canyon's air quality, all the way to North Dakota. Actions taken in distant cities to reduce their pollution levels benefit the air here, as well.

Long-term monitoring indicates that some pollution levels have dropped at Grand Canyon, while others have risen. Even as individual pollution sources become cleaner, the sheer number of other sources, such as motor vehicles, can overwhelm these improvements. Over the last ten years at Grand Canyon, we have seen rela-

tively stable haze and atmospheric deposition ("acid rain") levels. That these pollution levels are not getting worse is promising. We have recorded, however, a disturbing rise in ozone (smog) concentrations. Restoring the canyon views to their natural splendor will require more effort. Clearly our efforts can be rewarded!

To learn more about the air quality at Grand Canyon and other national parks visit the National Park Service's Air Resources Division website: www2.nature.nps.gov/air. Our webcam can be reached through this site where you can enjoy a Grand Canyon view anytime.



Since 1983 photographs have been taken three times a day looking west from the Watchtower at Desert View. The visual range in the photograph on the left is approximately 180 miles (300 km). Clear conditions such as this occur only 1 percent of the time. In contrast the photograph to the right represents a visual range of about 60 miles. Fortunately conditions such as this occur at the Grand Canyon less than 10 percent of the time. (Both photographs were taken at noon.)



Help Take Care of Our World

The National Park Service in Grand Canyon National Park will protect and preserve its natural and cultural resources through wise environmental stewardship. Thus begins Grand Canyon's Environmental Policy. We will continue our role as environmental leaders.

Under this policy all National Park Service activities must be conducted in an environmentally sound manner, managers are held accountable for complying with all applicable environmental regulations, and pollution prevention is considered in every management decision. Our environmental management system encourages employees to purchase greener

alternatives to hazardous products, identifies the impacts of park activities to determine corrective priorities, provides hazard communication training to all staff, and mandates the formation of a parkwide Green Team to implement the program.

Grand Canyon National Park is a model for the National Park Service. In August 2003, the Environmental Protection Agency (EPA) recognized Grand Canyon for its commitment to sound environmental management, continuous improvement, public outreach, and sustained environmental compliance as a member of the National Environmental Performance Track. EPA Director Mike Leavitt

came to the park in October 2004 to recognize the National Park Service and park concessionaires Xanterra, Incorporated and Delaware North Park Services for meeting Performance Track objectives. This past winter the park received the Leadership in Energy and Environmental Design certification for the new South Rim maintenance facility.

Active implementation of our environmental policy is not the sole responsibility of the National Park Service. Participation of our visitors is required as well. The world's resources are limited. Recycling is one way to live more sustainably and

to be less dependent on extracting from our beautiful, but fragile, land.

Grand Canyon National Park makes it easy to show that you care about the Earth. You can discard your recyclable items into one of the numerous tan dumpsters conveniently located throughout the South Rim. Items will be sorted in Flagstaff and turned into useful new products such as carpeting and insulation, rather than filling up a landfill or being burned in an incinerator.

What can you recycle? Products from the forest—office paper, junk mail, newspaper, magazines, cardboard—can be comingled with materials from

the earth—aluminum and steel, plastic and glass. What a difference we can make by simply thinking before we throw. Make recycling a part of your visit. As our Environmental Policy concludes, *environmental protection is everyone's responsibility.*



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 at Grand Canyon National Park is pleased to be cooperating with the U.S. Fish and Wildlife Service, the Bureau of Land Management, and The Peregrine Fund in the reestablishment of a California condor population in Arizona. This is their story.

50,000–10,000 years ago:

The Pleistocene world presented a different view of Grand Canyon. During the height of the Ice Age, the climate was cooler and wetter. Coniferous forests crept down the sides of the canyon; rich grasslands covered surrounding plateaus. Large herbivores—Shasta ground sloth, shrubox, mammoths, and horses—grazed on the abundant food supply. California condors scavenged on the carcasses. Condor bones discovered in Grand Canyon caves document their presence.

A.D. 1500: By the time of the coming of European explorers to North America, California condors existed only along the Pacific Coast, from British Columbia to Baja California, extending inland a few hundred miles. Some researchers estimate that the population consisted of a few hundred pairs. With the extinction of the large land mammals, the condors may have been surviving on the carcasses of whales and other marine mammals. Was the population decrease due to the loss of the large mammals as a food source or were the condors unable to compete in a changed world with smaller scavengers such as the related turkey vulture?

Late 1800s: Both population and range continued to decline. The large birds were tempting targets for those with firearms. Gold miners obtained condor wing and tail feathers to store gold dust in the hollow shafts. A Victorian Age egg-collecting fad reduced productivity. The last active nest in Arizona occurred near Lees Ferry in the 1890s.

1924: The last condor sighting in Arizona was of a solitary condor near Williams, just south of the park.

1980s: Modern America presented new hazards for condors. Birds died flying into powerlines or from drinking spilled antifreeze from automobile radiators. Ingestion of bullets or pellets from carcasses resulted in lead poisoning. When the population of California condors reached a low of 22 individuals, biologists decided that the species' survival depended on capturing the remaining condors and initiating a captive breeding program. By 1987 all California condors were removed from the wild.

1996: The breeding program proved successful. The goal was to establish at least two wild populations in addition to the captive breeding condors. Central California and northern Arizona presented the best combination of habitat and food sources. In December the first six condors in the Arizona reintroduction effort flew from the acclimation site atop the Vermilion

Cliffs north of Grand Canyon. Further releases each year add to the population of free-flying condors.

Early 2000s: Most of the birds in the first releases were youngsters, only a year or two old. As they approached reproductive age, six or seven, they began to display courtship behavior. Not too surprisingly, the first nesting attempts were unsuccessful. Finally in 2003 a pair hatched and raised its young to fledging. Each spring since pair bonding and nesting has occurred—some successful, some not. The birds have had to learn the intricacies of living on their own.

Today: The condor program continues with more captive-raised birds released, additional nesting, and some disappointments. None of the three nesting pairs in 2006 were successful. Lead poisoning continues to be a problem. Condors are exposed to lead when they ingest bullets or pellets from carcasses. To reduce this lead source, the Arizona Game and Fish Department provided

hunters in northern Arizona with coupons for nonlead ammunition and encourage its use.

This spring one of the successful pairs is again nesting in the park. Outside the park, several pairs have shown bonding behavior, although confirming active nest sites has been difficult. Ask a ranger for current information on condors in this area.

With successful hatchings both in the wild and at rearing facilities, the California condor population should pass the 300 mark this year. More than 50 condors now fly over northern Arizona, with a similar population in California. A few birds call Baja California home. The future of the California condor looks much more promising than it did just a few years ago.

For more information check the “Notes from the Field” section at www.peregrinefund.org.

You Can Assist the Condors

One partner of the condor reintroduction program still needs to be mentioned—YOU. You can take an active role in condor management. If you encounter a condor, please:

- Enjoy the birds from a distance. Do not attempt to approach them. Condors will bite.
- Do not feed them or leave out food for a condor.
- Never throw objects at a condor or otherwise harass them.
- If you observe anyone harassing or harming a condor, immediately notify a park ranger.

Want to know more?

For more information on California condors, attend the *Condor Talk: Wings over the Canyon* ranger program described on page 2 or go to www.peregrinefund.org for recent field reports. 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's Egg* (children's book), Jonathan London
- *Condors in Canyon Country*, Sophie Osborne

Park News

Grand Canyon Association Celebrates 75 Years



When Grand Canyon National Park's Chief Naturalist Eddie McKee formed the Grand Canyon Natural History Association (GCNHA) in February 1932, he envisioned a small organization to support the educational and research efforts of the Park's Naturalist Division. The little seed planted by McKee 75 years ago has grown to serve the increasing number of visitors and assist with the increasing complexity of park operations.

McKee envisioned the role of the association as being to stimulate and encourage scientific research; to develop natural history and cultural exhibits at Yavapai Observation Station and elsewhere; to publish *Grand Canyon Nature Notes*, which contained

original research and natural history observations; to publish monographs of larger research projects; to build up and maintain a Grand Canyon reference library; and to offer Grand Canyon publications to visitors. Those were some pretty tall marching orders for an organization that had only \$5,792.00 in income in 1939, with almost all of that contributed to Grand Canyon National Park to promote the association's mission. With low overhead and a dedicated staff of NPS employees and volunteers, GCNHA kept all of McKee's priorities progressing.

Over the years, the association's mission and methods have remained largely the same, although the scale has changed dramatically. Today's Grand Canyon Association (GCA) operates bookstores in the park (as well as one in the Kaibab Plateau Visitor Center in Jacob Lake, Arizona), works with the National Park Service to publish *The Guide* and many other free publications (some 1.8 million copies in 2006), publishes books and other materials about Grand Canyon National Park and the surrounding region, supports research in the park and funds acquisitions for the park's research library. GCA also leads experiential-learning trips into the park through the Grand Canyon Field Institute; sponsors lectures on Grand Canyon topics in Flagstaff, Prescott, and Glendale, Arizona; and serves some 9,000 members through our membership newsletter *Canyon Views*, our annual Members' Gathering at the South Rim each fall, and other special opportunities and offers.



Today, GCA donates almost \$2 million annually to the National Park Service as financial aid, amounting to more than \$26.5 million since its founding.

Would Eddie McKee be proud? Undoubtedly. As you visit the park, please stop by GCA's bookstores at Canyon View Information Plaza, Yavapai Observation Station, Kolb Studio, Tusayan Museum, Desert View, Jacob Lake, and the North Rim. Your purchase from GCA supports Grand Canyon National Park, just as Eddie McKee envisioned 75 years ago.

For more information about the Grand Canyon Association, membership, its programs and its history, or to order publications, please visit

www.grandcanyon.org or call (800) 858-2808.

Left: GCNHA founder Eddie McKee in Havasu Canyon, 1939. NPS photo.

Above: Continuing McKee's vision, GCA's Travelin' Trunk program is a free public service available to educators nationwide. GCA photo, R. Short.



Preserving Our Cultural Heritage



Many peoples have called Grand Canyon home during the past 10,000 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 artifact or archeological site. When visiting a site,

DO

- Take pictures.
- Try to imagine what life was like in the past at Grand Canyon.
- Contact a ranger if you see archeological sites defaced or if you witness someone removing artifacts.

DON'T

- Walk or lean on walls.
- 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, Nankoweap 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

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. Let a responsible person know your planned itinerary.

Temperatures Can Soar

There is a 20–30°F (11–16°C) difference in temperature between the cool, forested rim and the inner canyon. Canyon temperatures 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 fluid consumption, you run the risk of becoming dangerously debilitated and severely ill. For every hour hiking in the canyon, you should drink 1/2 to 1 quart (liter) of water or sports drinks.

Your best defense against illness and exhaustion is to eat a healthy breakfast, 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. Please give uphill hikers the right of way.

Mules and Hikers

Several recent encounters between hikers and mules 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 completely 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 cool.** Hike during the cooler early morning and late afternoon hours. If you hike in the sun, try to keep your shirt and hat wet to stay cool.
- 2. 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 may cause fatigue, heavy legs, and exhaustion.
- 3. Rest often.** Find shade, sit down, prop your legs up, and take a 10-minute break at least once every hour.

- 4. Eat and drink frequently.** Balance your food and water intake. Eat a salty snack every time you take a drink.



Hiking Chart

WARNING: It is recommended that you do not attempt to hike from the rim to the river and back in one day. There are no loop trails recommended for day hikes; you will be hiking on the same trail in both directions. **Remember! You are responsible for your own safety and the safety of those in your party.**

Trails

Rim Trails

Destination	Distance Round Trip	Approximate Time Round Trip	Elevation Change	Notes
Along the Village Rim	Your Choice	15 min. to 1 1/2-hours	200 feet 60 m	Paved. Best easy walk. Passes historic buildings.
Along Hermit Road	Your Choice	15 min. to all day	200 feet 60 m	Becomes unmarked dirt path west of Maricopa Point.

Bright Angel Trail (Steep)

Trail begins just west of Bright Angel Lodge. Some shade. Seasonal water subject to pipeline breaks. Check at the Visitor Center at Canyon View Information Plaza or the Backcountry Information Center for status.	1 1/2-Mile Resthouse	3 miles 4.8 km	2–4 hours	1,131 feet 345 m	Restrooms. Water May–Sept.
	3-Mile Resthouse	6 miles 9.6 km	4–6 hours	2,112 feet 644 m	Water May–Sept.
Hiking to the river and back in one day is not recommended.	Indian Garden	9.2 miles 14.8 km	6–9 hours	3,060 feet 933 m	Restrooms. Water.

South Kaibab Trail (Steep)

Trail begins south of Yaki Point on Yaki Point Road. Best views for a relatively short hike. Steep trail, no water, little shade. Access trailhead via shuttle bus. Water available at trailhead. 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 feet 183 m	No water. First view east.
	Cedar Ridge	3 miles 4.8 km	2–4 hours	1,140 feet 347 m	Restrooms. No water. First hitching rail.



Express hikers' shuttles directly from Bright Angel Lodge and the Backcountry Information Center to the South Kaibab trailhead depart 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.

Hermit Trail (Steep)

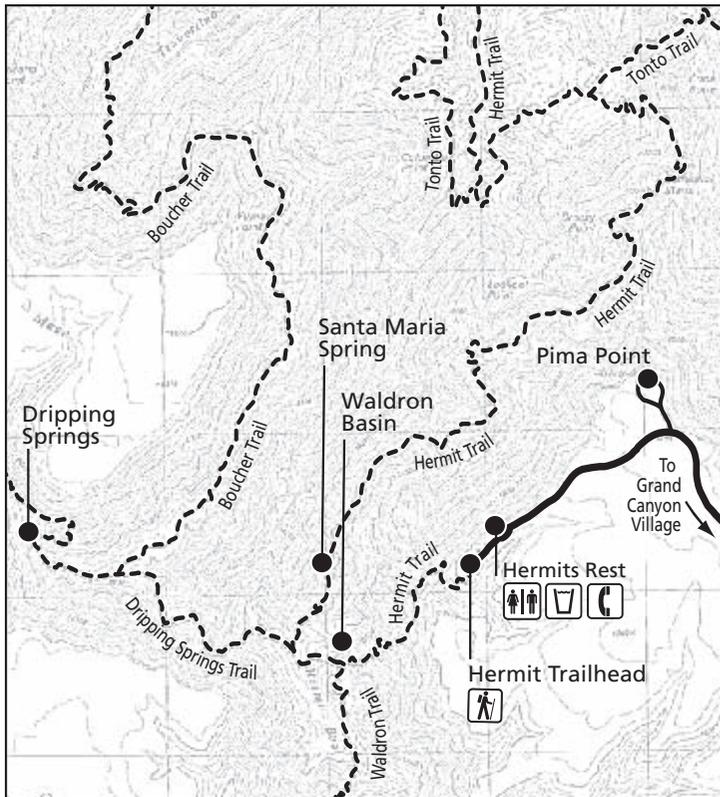
Unmaintained steep trail requires caution. Begins 500 feet west of Hermits Rest. Water from springs must be treated before drinking. For experienced desert hikers. Hiking boots recommended.	Waldron Basin	3 miles 4.8 km	2–4 hours	1,600 feet 488 m	No water.
	Santa Maria Spring	5 miles 8 km	5–8 hours	1,760 feet 536 m	Treat water.
	Dripping Springs	7 miles 11 km	6–9 hours	1,700 feet 519 m	Treat water. Use extra caution along narrow sections.

Grandview Trail (Very Steep)

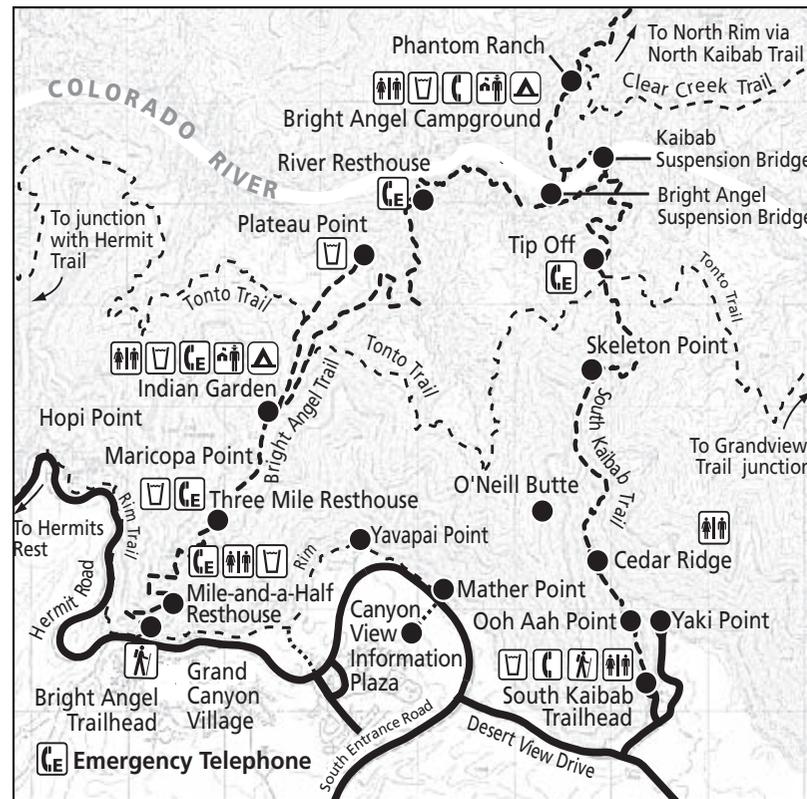
Unmaintained steep trail requires caution. Begins on canyon side of retaining wall at Grandview Point on Desert View Drive (12 miles east of village). For experienced desert hikers. Hiking boots recommended. This trail does not reach the river.	Coconino Saddle	2.2 miles 3.5 km	1–2 hours	1,190 feet 363 m	No water. Use extra caution along narrow sections.
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Hiking and Camping Below the Rim

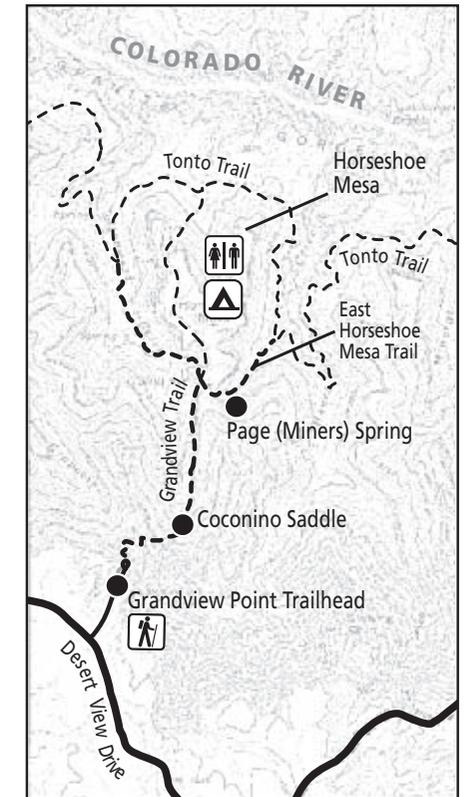
Hermit Trail



Corridor Trails



Grandview Trail



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 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 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 judgement or inability to cope, unconsciousness. Victim is in danger!

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

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.

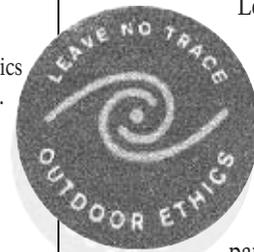
Treatment: have the victim rest and eat salty foods. If mental alertness decreases, seek immediate help!

Hypothermia 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, poor judgement, and a careless attitude.

Treatment: put on dry clothing, drink warm liquids, warm victim by body contact with another person, and protect from wind, rain, and cold.

Leave No Trace



Leave No Trace is a non-profit 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

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. The majority of permits are 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 the Visitor Center at Canyon View Information Plaza.

Backcountry Information Center

P.O. Box 129
Grand Canyon, AZ 86023

Tel: (928) 638-7875
(1:00 p.m. to 5:00 p.m. Mon.-Fri.)
www.nps.gov/grca/

Want to know more?

Grand Canyon Association bookstores offer many books and maps on hiking. Bookstore hours and locations are listed on page 3. 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

Lodging and Services



Food

In the Park

Canyon Village Marketplace

A general store is located at Market Plaza. Open daily: 7:00 a.m.–9:00 p.m.

Delicatessen at Marketplace

Located at Market Plaza. Open daily: 7:00 a.m.–8:00 p.m.

El Tovar Dining Room

Located on the rim. Open daily for breakfast: 6:30 a.m.–11:00 a.m., lunch: 11:30 a.m.–2:00 p.m., and dinner: 5:00 p.m.–10:00 p.m. Dinner reservations required: (928) 638-2631 ext. 6432; Lounge: 11:00 a.m.–11:00 p.m.

The Arizona Room

On the rim next to Bright Angel Lodge. Open daily for lunch: 11:30 a.m.–3:00 p.m. and dinner: 4:30 p.m.–10:00 p.m. Reservations are not accepted.

Bright Angel Restaurant

Located in Bright Angel Lodge. Open daily for breakfast: 6:00 a.m.–10:45 a.m., lunch: 11:15 a.m.–4:00 p.m., and dinner: 4:30–10:00 p.m.; Lounge: 11:00 a.m.–11:00 p.m.

Bright Angel Coffee House

Located in Bright Angel Lodge. Open daily: 5:30 a.m.–11:00 a.m.

Bright Angel Fountain

Ice cream and snacks. Located at the Bright Angel Lodge on the rim. Open daily: 10:00 a.m.–8:00 p.m.

Maswik Cafeteria

Located in Maswik Lodge at the west end of the village. Open daily: 6:00 a.m.–10:00 p.m.; Sports Lounge is open daily: 5:00 p.m.–11:00 p.m.

Yavapai Cafeteria

Located at Market Plaza. Open daily: 6:30 a.m.–9:00 p.m.

Hermits Rest Snack Bar

Open daily: 9:00 a.m.–Sunset.

Desert View Marketplace

Open daily: 8:00 a.m.–6:00 p.m.

Desert View Trading Post Snackbar

Open daily: 8:00 a.m.–7:00 p.m.



Lodging

In the Park

All prices are subject to change. For same-day reservations, call (928) 638-2631. For advance reservations, call (888) 297-2757 or write to: Xanterra Parks & Resorts, 6312 South Fiddlers Green Circle, Ste. 600N, Greenwood Village, CO 80111; www.xanterra.com.

Bright Angel Lodge

On the rim. \$52–143.

El Tovar Hotel

On the rim. \$142–322.

Kachina Lodge

On the rim. \$139–152.

Thunderbird Lodge

On the rim. \$ 139–152.

Maswik Lodge

West end of village. \$78–139.

Yavapai Lodge

Market Plaza. \$98–127.

Phantom Ranch

Bottom of the canyon; Overnight dormitory and cabin space. Advance reservations are required. Call for prices (see above).

Outside the Park

Grand Hotel

Tusayan. (928) 638-3333

Grand Canyon Squire Inn

Tusayan. (928) 638-2681

Holiday Inn Express

Tusayan. (928) 638-3000

Quality Inn

Tusayan. (928) 638-2673

Red Feather Lodge

Tusayan. (928) 638-2414



Camping

Camping is permitted only in designated campsites while in Grand Canyon National Park. Violators are subject to citation and/or fine.

In the Park

Mather Campground

Operated by the National Park Service. No hookups 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

Trailer sites with hookups are located next to Mather Campground; \$28 per site per night for two people; \$2 for each additional person over age 16. Campers may register at the entrance to Trailer Village. Reservations through Xanterra (888) 297-2757.

Desert View Campground

Located near the East Entrance, 25 miles from Grand Canyon Village. Self-registration; first-come, first-served. \$12 per site per night.

Outside the Park

Camper Village

Commercial campground located 7 miles south of Grand Canyon Village in the town of Tusayan; Hookups, propane, and coin-operated showers are available; Call: (888) 638-2887 or visit online at: www.grandcanyonactivities.com

Ten-X Campground

Operated by Kaibab National Forest. Located 2 miles south of Tusayan. \$10 per site per night; no hookups or showers. Information (928) 638-2443.



Services

Laundry & Showers

Through May 31: 7:00 a.m.–9:00 p.m. Last laundry load: 7:45 p.m.

Beginning June 1: 6:00 a.m.–11:00 p.m. Last laundry load 9:45 p.m.

Chase Bank & ATM

Located at Market Plaza. Bank open: Mon.–Thurs. 9:00 a.m.–5:00 p.m., Fri. 9:00 a.m.–6:00 p.m.; Accepts travelers checks and major credit cards; Phone: (928) 638-2437; 24-hour ATM.

Post Office

Located at Market Plaza; Window service: Mon.- Fri. 9:00 a.m.–4:30 p.m., Sat. 11:00 a.m.–1:00 p.m.; Lobby open: 5:00 a.m.–10:00 p.m. Stamps are available in lobby; Phone: (928) 638-2512.

Kennels

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

Lost & Found

For items lost or found in hotels or restaurants, call (928) 638-2631. For all other lost items, call (928) 638-7798. Please take found items to the Visitor Center at Canyon View Information Plaza.

Garage Services

Located east of Grand Canyon National Park Lodges general offices. Open daily 8:00 a.m.–noon and 1:00–5:00 p.m. Garage 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.

Camping Equipment

Camping, hiking, and backpacking equipment may be purchased or rented at Canyon Village Marketplace (general store). Propane in exchangeable tanks is available.

Community Library

Mon. and Wed.: 10:30 a.m.–7:00 p.m. Tues., Thurs. and Fri.: 10:30 a.m.–5:00 p.m. Sat.: 10:00 a.m.–4:00 p.m. Closed Sun. and holidays

Children's story time: Thurs. 11:00 a.m. Internet service available. Call (928) 638-2718 for directions.

Child Day Care

The Kaibab Learning Center. Day care of infants through 12 year olds if space is available. Immunization records must be provided. Open Mon.–Fri. 7:30 a.m.–5:30 p.m. Call (928) 638-6333 for more details.



Accessibility

Programs, services, and facilities that are fully or partially accessible to persons with physical disabilities are noted in *The Guide* by the following symbol: Wheelchair accessible with assistance.

Day Use Wheelchairs

The National Park Service provides temporary day-use wheelchairs at no charge. A wheelchair is available at the Visitor Center at Canyon View Information Plaza.

Temporary Parking

To obtain a permit for designated parking, inquire at the entrance gate, Visitor Center at Canyon View Information Plaza, or Yavapai Observation Station.

Wheelchair Accessible Tours

Wheelchair-accessible tours are available by prior arrangement. Contact any lodge transportation desk or call (928) 638-2631 for information. TTY phones are available to hotel guests in the park.

Accessibility Guide Available

The Grand Canyon National Park *Accessibility Guide* is available upon request at the Visitor Center at Canyon View Information Plaza, Yavapai Observation Station, Kolb Studio, Tusayan Museum, Desert View Information Center, and park entrance stations.



Books/Gifts

Books & More 8:00 a.m.–8:00 p.m. (Canyon View Information Plaza)

Bright Angel 7:00 a.m.–10:00 p.m.

Desert View 9:00 a.m.–5:00 p.m.
Bookstore / Park Information
(as staffing permits)

Desert View Trading Post 8:00 a.m.–sunset

El Tovar 7:00 a.m.–10:00 p.m.

Hermits Rest 8:00 a.m.–sunset

Hopi House 8:00 a.m.–8:00 p.m.

Kolb Studio 8:00 a.m.–7:00 p.m.

Lookout Studio 8:00 a.m.–sunset

Maswik 7:00 a.m.–10:00 p.m.

Tusayan Museum 9:00 a.m.–5:00 p.m.

Verkamps Curio 9:00 a.m.–7:00 p.m.

Watchtower 8:00 a.m.–sunset
(Desert View)

Yavapai 8:00 a.m.–8:00 p.m.
Observation Station

Yavapai Curio 7:00 a.m.–10:00 p.m.

Organizations and 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.
Phone (928) 638-2551.

Religious Services

Religious services are offered in the park and the surrounding community. However, the National Park Service does not endorse any group or message.

Current schedules are posted at Mather Campground (near Entrance Station), Shrine of the Ages, the visitor center at Canyon View Information Plaza, and the information kiosk near the post office.

A Christian Ministry in the National Parks (928) 638-2340.

Grand Canyon Community Church (Interdenominational)
Jared Long, Pastor; (928) 638-2340.

The Church of Jesus Christ of Latter-Day Saints
Don Keil, Branch President;
(928) 638-4050.

El Cristo Rey Roman Catholic Church
Father Joseph Cornelia, (928) 638-2390.

Grand Canyon Assembly of God
Jim Strating, Pastor; (928) 638-9415.

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

Jehovah's Witnesses (Tusayan)
Jim Reilly; (928) 635-0070.

Service Organizations

Alcoholics Anonymous
AA meets Monday, Wednesday, and Friday at 7:00 p.m. in the Kachina Room, Kachina Lodge. Meetings are open and nonsmoking.

Grand Canyon Rotary Club
Meets Thursdays at noon at the Canyon Room, El Tovar Hotel.

Lions Club
Meets twice monthly on the 1st and 3rd Wednesdays at 7:00 p.m. at the Grand Hotel in Tusayan. For information call (928) 638-0666.

Tours and River Trips

Air Tours

Fixed-wing and helicopter tours of the Grand Canyon region originate daily from Grand Canyon Airport. A list of air tour operators is available upon request at the Visitor Center at Canyon View Information Plaza, 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. Wheelchair-accessible coaches are available by prior arrangement. Contact any transportation desk for information or call (928) 638-2631.

Mule Trips

One- and two-day mule trips into the canyon depart in the morning and may be available on a waiting-list basis. Call (928) 638-2631 or contact the Bright Angel Lodge transportation desk for further information.

Horse Rides

Trail rides and campfire and wagon rides are available from Apache Stables in Tusayan. For information and reservations call (928) 638-2891.

White Water Raft Trips

White-water trips through the canyon last 3–21 days and require reservations well in advance. Ask at the Visitor Center at Canyon View Information Plaza for a *Trip Planner* with a list of approved river trip operators.

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; www.raftthecanyon.com. All day tours from the park including the smooth-water raft trip can be arranged at any lodge transportation desk.

Learning & Lodging

The Grand Canyon Field Institute (GCA) and Xanterra South Rim, LLC offer fun and informative *Learning & Lodging* programs that combine lodging, meals, and two days in the field with an instructor. Inquire at the front desk or transportation desk at any in-park lodge (see page 18) or call (928) 638-2525 or visit www.grandcanyonlodges.com (click on promotions).

Transport

Bus Service

Greyhound Bus Lines offers service from Flagstaff and Williams, Arizona, to points nationwide; (800) 231-2222. For road transport to the park see *Shuttle Service* below.

Railroad

Grand Canyon Railway offers service between Williams, Arizona, and Grand Canyon. Call (800)-THE-TRAIN for information and reservations. The Railroad Express offers bus service to take only a one-way trip on the vintage train. To ride on the train one-way in the morning, contact any transportation desk. To ride on the train one-way in the afternoon, contact the Grand Canyon Railway at (800)-THE-TRAIN [(800) 843-8724].

Taxi Service

Service is available to the Grand Canyon Airport, trailheads, and other destinations. 24-hour service daily. Call: (928) 638-2822 or (928) 638-2631, ext. 6563.

Transportation Desks

Information about Phantom Ranch facilities, mule trips, horseback riding, air tours, one-day float trips, and motorcoach tours (including wheelchair-accessible vehicles) is available at the lodge lobbies (hours vary seasonally). Call (928) 638-2631, ext. 6015.

Maswik Lodge

6:00 a.m.–6:30 p.m.

Bright Angel

6:00 a.m.–8:00 p.m.

Yavapai Lodge

8:00 a.m.–5:00 p.m.

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

Open Road Tours provides shuttle service between Grand Canyon National Park and Flagstaff, Arizona, twice daily. They also offer connections to Phoenix. For schedules and rates, call (928) 226-8060 or (800) 766-7117.

Additional Out-of-Park Services

The following facilities are located in Tusayan, outside the park's south entrance on U.S. Highway 64 South.

For additional services not listed, consult the local telephone directory. Area code (928) for all numbers listed below.

Fuel

Conoco Service Station 638-2608

Food

Cafe Tusayan 638-2151
Canyon Food Mart 638-2608
Canyon Star 638-3333
General Store 638-2854
McDonald's 638-2208
Pizza Hut 638-4629
Quality Inn 638-2673
Squire Inn Restaurant 638-2681
Tusayan Steak House 638-2780
We Cook Pizza, Etc 638-2278
Wendy's 638-6484

Internet Access Available

Grand Canyon Tourist Center . 638-2626
Quality Inn 638-2673
Red Feather Lodge 638-2414
Jennifer's Internet Bakery Cafe . 638-3433

Beauty Salon

Grand Canyon Squire Inn 638-8413

Western Union

Canyon Food Mart 638-2608

IMAX Theater

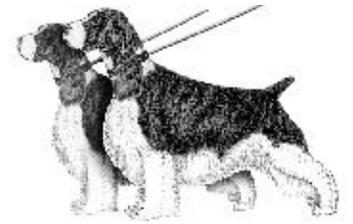
. 638-2203
Movie shown every hour on the half hour
8:30 a.m.–8:30 p.m.

Grand Canyon National Park Foundation

The Grand Canyon National Park Foundation, a nonprofit organization, has raised more than \$15 million to support a variety of projects and programs at Grand Canyon National Park, including the wheelchair-accessible Greenway biking and pedestrian trails, the renovation of historic buildings and boats, environmental education programs, research critical to the preservation of condors, mountain lions, and native plants, and fellowship programs for university students pursuing careers in natural resource management.

To learn more about our work and how you can become involved, visit www.gcnpf.org, call (928) 774-1760, or write: Grand Canyon National Park Foundation, 625 North Beaver Street, Flagstaff, AZ 86001.

By working together, we continue to ensure that this World Heritage Site is Forever Grand!



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.

Kaibab National Forest

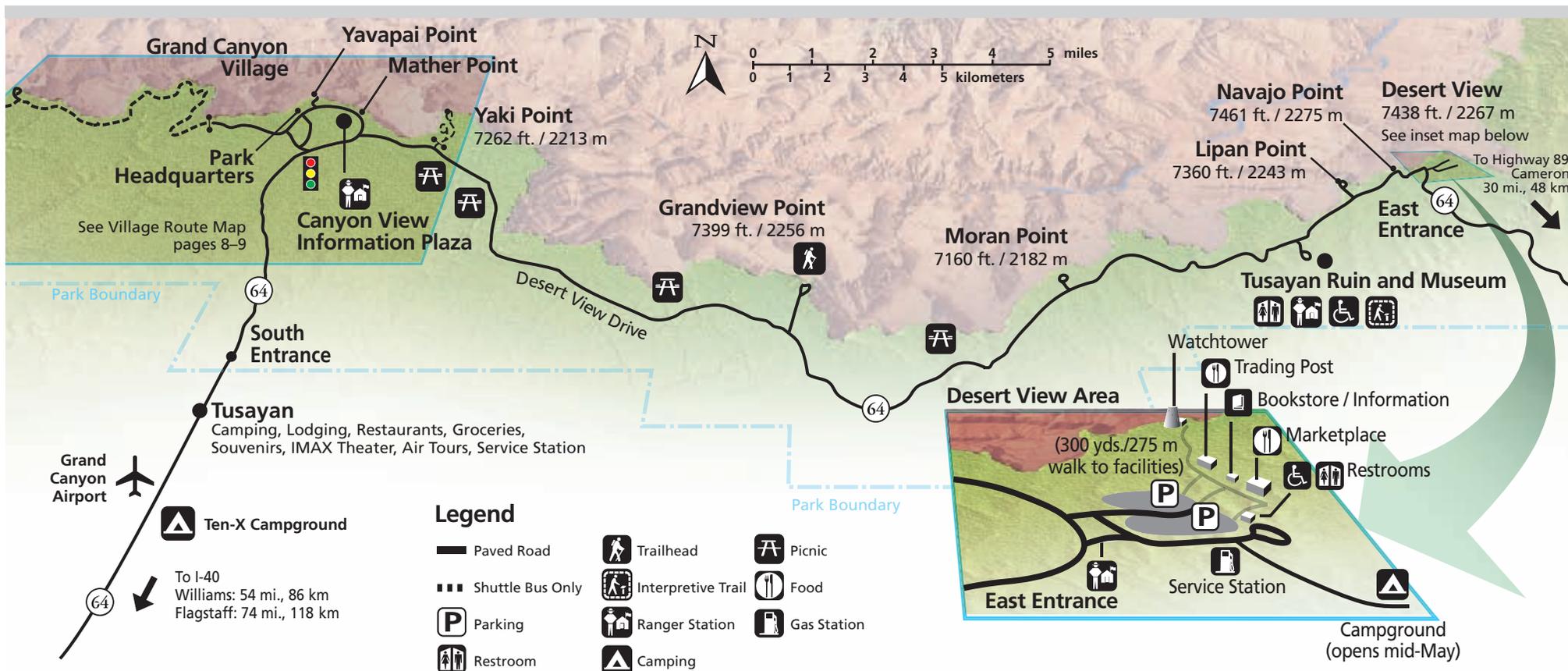
Tusayan Ranger District 638-2443

News and Weather

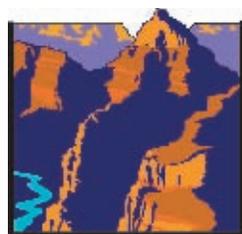
KSGC 92.1 638-9552
KNAU 90.3 (800) 532-5628



South Rim



Bookstores



GRAND CANYON ASSOCIATION

A nonprofit park partner since 1932

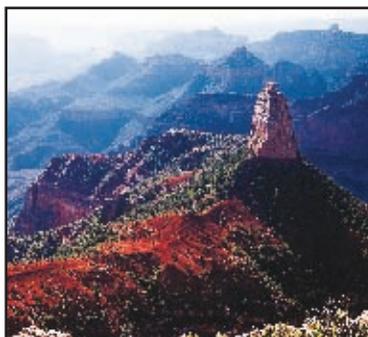
When you shop at Grand Canyon Association (GCA) bookstores your purchase supports Grand Canyon National Park. GCA is a nonprofit organization created in 1932 to cultivate knowledge, discovery and stewardship for the benefit of Grand Canyon National Park and its visitors. Since then, GCA has provided more than \$26.5 million in financial support.

When you visit our bookstores, ask about becoming a Grand Canyon Association member to receive a 15% discount at GCA stores and about receiving reciprocal discounts at stores in other national parks. See page 6 for GCA bookstore locations and hours of operation.

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

You may also visit our bookstore online at www.grandcanyon.org, or call toll-free (800) 858-2808, ext. 7030.

North Rim



The average distance across Grand Canyon "as the raven flies" is ten miles. However, traveling from the South Rim to the North Rim by automobile requires a five-hour drive of 215 miles.

Lodging and camping are available at the canyon's North Rim from mid-May through mid-October. Reservations are strongly recommended. Additional facilities are available in the surrounding Kaibab National Forest, the Kaibab Lodge area, and Jacob Lake. During winter months, the road to the North Rim entrance is closed due to snow.

A separate GUIDE issue is published for the North Rim and includes details about facilities and services, as well as program and hiking information. Inquire at the Visitor Center at Canyon View Information Plaza on the South Rim.

Desert View Services

Chevron Service Station	Open Daily	9:00 a.m.–5:00 p.m. Fuel available 24 hours with credit card
Desert View Marketplace	Open Daily	8:00 a.m.–6:00 p.m.
Bookstore/Park Information	Open Daily (as staffing permits)	9:00 a.m.–5:00 p.m.
Trading Post Snack Bar	Open Daily	8:00 a.m.–7:00 p.m.
Trading Post Gift Shop	Open Daily	8:00 a.m.–Sunset
Watchtower Gift Shop	Open Daily	8:00 a.m.–Sunset
Watchtower Stairs	Open Daily	8:00 a.m.– 30 min. before Sunset
Desert View Campground	Open Daily	1 st come–1 st served

National Park Service
U.S. Department of the Interior

Grand Canyon National Park
Post Office Box 129, Grand Canyon, AZ 86023

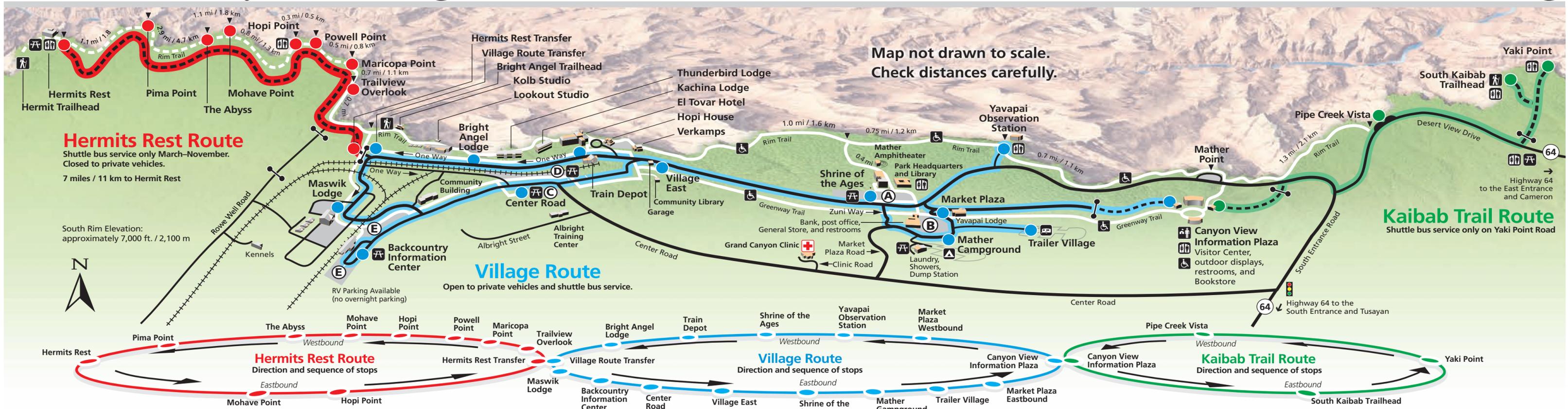
For the latest information updates, visit Grand Canyon National Park's website at: www.nps.gov/grca/



The Guide is published by Grand Canyon National Park in cooperation with Grand Canyon Association. Printed by Arizona Daily Sun on recycled paper, using soy inks. © 2007 Grand Canyon Association

EXPERIENCE YOUR AMERICA

Grand Canyon Village Shuttle Bus Routes, Points of Interest, and Parking



Free Shuttle Buses

Free shuttle buses operate on three routes at Grand Canyon National Park: Hermits Rest Route (indicated in red on the map above), Village Route (blue), and Kaibab Trail Route (green). No tickets are required, and bus stops are clearly marked throughout the park by signs with the above symbol.

Buses may be white, white with a green stripe, or brown and tan. The route is indicated by a colored square near each door. Many buses also display the route name on the front of the bus.

Pets are not permitted on buses.

Hikers' Express

An early morning shuttle picks up hikers at the Bright Angel Lodge and Backcountry Information Center and travels directly to the South Kaibab Trailhead daily.

- May and September:**
• 5:00, 6:00, and 7:00 a.m.
- June, July, and August:**
• 4:00, 5:00, and 6:00 a.m.

Hermits Rest Route

Buses provide transportation between the Village Route Transfer and Hermits Rest (seven miles) with stops at eight canyon overlooks. Buses stop only at Mohave and Hopi Points on return.

75 Minutes Round Trip (riding time; get on or off at any stop)

- May—Buses run:**
- Every 30 minutes from 4:30 a.m. to 7:30 a.m.
 - Every 15 minutes from 7:30 a.m. to sunset.
 - Every 30 minutes from sunset to one hour after sunset.
- June, July, and August—Buses run:**
- Every 30 minutes from 4:15 a.m. to 7:30 a.m.
 - Every 15 minutes from 7:30 a.m. to sunset.
 - Every 30 minutes from sunset to one hour after sunset.
- September—Buses run:**
- Every 30 minutes from 5:15 a.m. to 7:30 a.m.
 - Every 15 minutes from 7:30 a.m. to sunset.
 - Every 30 minutes from sunset to one hour after sunset.

Hermit Road is rough. Visitors with back or hip problems may find it more comfortable to ride in the front bus rather than the trailer.

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 (riding time; get on or off at any stop)

- May—Buses run:**
- Every 30 minutes from 4:30 a.m. to 6:30 a.m.
 - Every 15 minutes from 6:30 a.m. to 7:30 p.m.
 - Every 30 minutes from 7:30 p.m. to 10:00 p.m.
- June, July, and August—Buses run:**
- Every 30 minutes from 4:15 a.m. to 6:30 a.m.
 - Every 15 minutes from 6:30 a.m. to 9:00 p.m.
 - Every 30 minutes from 9:00 p.m. to 11:00 p.m.
- September—Buses run:**
- Every 30 minutes from 5:15 a.m. to 6:30 a.m.
 - Every 15 minutes from 6:30 a.m. to 7:30 p.m.
 - Every 30 minutes from 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 (riding time; get on or off at any stop)

- May—Buses run:**
- Every 30 minutes from 4:30 a.m. to 6:30 a.m.
 - Every 15 minutes from 6:30 a.m. to one hour after sunset.
- June, July, and August—Buses run:**
- Every 30 minutes from 4:15 a.m. to 6:30 a.m.
 - Every 15 minutes from 6:30 a.m. to one hour after sunset.
- September—Buses run:**
- Every 30 minutes from 5:15 a.m. to 6:30 a.m.
 - Every 15 minutes from 6:30 a.m. to one hour after sunset.

Note: Sunrise and sunset times are listed on page 6.

Rules of the Road

- Motorist Warning**
Pedestrians have the right of way. Vehicles must stop for pedestrians in crosswalks. It is the Law.
 - 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 new Greenway Trail. 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. See and be seen; 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.
- Lot A:** Near Park Headquarters (administrative offices) and Shrine of the Ages. Large lot that frequently has available spots.
 - Lot B:** Near the businesses in Market Plaza. This is the largest lot, but tends to fill early.
 - Lot C:** This small lot near the intersection of Center and Village Loop Roads may have spaces when others do not.
 - Lot D:** Unpaved lot along the railroad tracks in the middle of the Grand Canyon Village historic district.
 - Lot E:** Near the Backcountry Information Center. The southern portion of this lot has large, pull-through spaces for RVs and vehicles with trailers.
- Easily accessible shuttle bus stops are located in or near all parking areas.

Accessibility

An accessibility permit, allowing access to some areas closed to public traffic, is available at entrance gates, the Visitor Center at Canyon View Information Plaza, Yavapai Observation Station, Kolb Studio, Park Headquarters, El Tovar Concierge Desk, and the Bright Angel Lodge, Yavapai Lodge and Maswik Lodge transportation desks.

Accessible shuttle buses are available in response to requests made the day prior. Call (928) 638-0591.

Visitors with accessibility considerations and their party members may use the shuttle that operates approximately every 15 minutes between Mather Point and Canyon View Information Plaza from 7:30 a.m. to 6:30 p.m. Shuttle service may be suspended during inclement weather.

Legend

- Shuttle Bus Routes (Indicated in red, blue, or green)
- Shuttle Bus Stops (Indicated in red, blue, or green)
- Major Park Roads (All vehicles)
- Secondary Roads (All vehicles)
- Shuttle Buses Only
- Parking
- Picnic Tables
- Paved Trails
- Unpaved Trails
- Distance between points on Rim Trail

This map is not to scale. Check distances carefully.