



The Guide

South Rim: Sept. 4–Nov. 30, 2007
Also available in Deutsche, Español, Français,
Italiano, 日本語



Welcome to Grand Canyon National Park

The Grand Canyon is more than a great chasm carved over millennia through the rocks of the Colorado Plateau. It is more than an awe-inspiring view. It is more than a pleasuring ground for those who explore the roads, hike the trails, or float the currents of the turbulent Colorado River.

This canyon is a gift that transcends what we experience. Its beauty and size humble us. Its timelessness provokes a comparison to our short existence. In its vast spaces we may find solace from our hectic lives.

The Grand Canyon we visit today is a gift from past generations. Take time to

enjoy this gift. Sit and watch the changing play of light and shadows. Wander along a trail and feel the sunshine and wind on your face. Attend a ranger program. Follow the antics of ravens soaring above the rim. Listen for the roar of the rapids far below Pima Point. Savor a sunrise or sunset.

As the shadows lengthen across the spires and buttes, time passing into the depths of the canyon, understand what this great chasm passes to us: a sense of humility born in the interconnections of all that is and a willingness to care for this land. We have the responsibility to ensure that future generations have the opportunity to form their own connections with Grand Canyon National Park.



South Rim Map on pages 8–9

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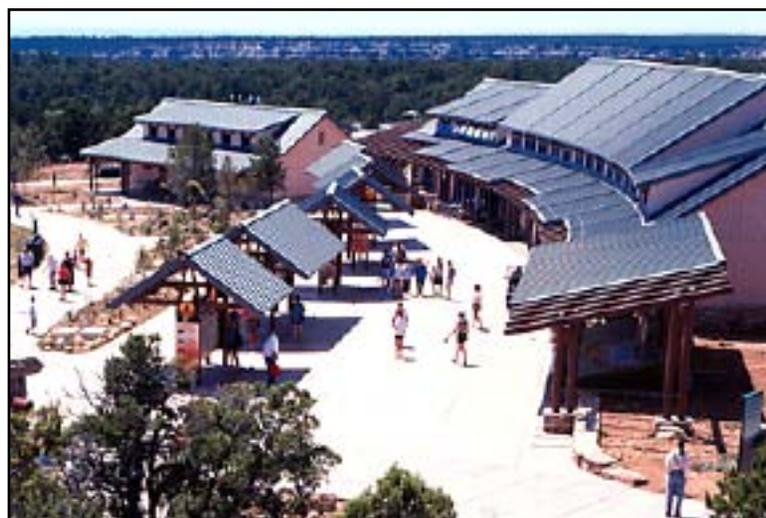
What Time Is It?

Most of Arizona, including Grand Canyon National Park, remains on **Mountain Standard Time** year-round. Until Nov. 3, Arizona is on the same time as California and Nevada. Beginning Nov. 4, Arizona is on the same time as Colorado, New Mexico, and Utah.

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 8–9.
- **Ride the Free Shuttle Buses**
Shuttle bus routes are shown on the map on pages 8–9.
- or
- **Park at Mather Point**
Walk the 300 yards (275 meters) to the Visitor Center.
Accessibility shuttle available.



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 6 and the map on pages 8–9 for more details.

Thinking about hiking?



Successful hikers:

- Read and follow the suggestions and regulations on pages 12–13.
- Plan their hike before they start and go prepared.
- Go slowly, rest often, and maintain the correct body temperature.
- Eat salty foods and drink water or sports drinks.



Use Caution Near the Edge!

Footing can be dangerous.

Emergency • 911

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

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

Ranger Programs

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

Grand Canyon Village

Activity

	Location	Time	Duration	Frequency
Fossil Walk: Remnant Impressions  				
This program ends October 27				
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. Last hike given October 27.	Patio on the rim side of Bright Angel Lodge	9:00 a.m.	1 hour	Daily
The Human Story  				
This program begins October 28				
For thousands of years, humans have been part of Grand Canyon. Join park staff at the El Tovar flagpole. Dress warmly 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. This history walk begins October 28.	Flagpole on the rim behind El Tovar Hotel	9:00 a.m.	30–45 min.	Daily
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. 2:30 p.m.	15–20 min. 15–20 min.	Daily Daily
Raptors in Flight  				
This program ends October 30				
Observe the fall hawk migration over Grand Canyon with a representative from HawkWatch International. Learn to identify raptors in flight and find out more about why and how these birds migrate. Consider staying afterward to sharpen your identification skills. Binoculars are recommended. Yaki Point is closed to private vehicles. To arrive on time, ride the Village Route shuttle bus to Canyon View Information Center and cross the plaza to the Kaibab Trail Route shuttle bus stop by 9:50 a.m. for the morning program or 2:05 p.m. for the afternoon program. The last talks take place on October 30.	Yaki Point	10:15 a.m. 2:30 p.m.	45 min. 45 min.	Sun. Tues. Thurs. Sat.
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	10:30 a.m.	30–45 min.	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, plants and animals, 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	1:00 p.m.	30 min.	Daily
Condor Talk: Wings over the Canyon  				
This program ends October 27				
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. Last program given October 27.	In front of Lookout Studio near the Bright Angel Lodge (Climbing stairs may be involved in getting to the program site)	3:00 p.m.	30–45 min.	Daily
Kolb Studio: Images of the Past (by registration only)				
This program begins October 28				
Kolb Studio, built in 1904, spills five levels down the canyon wall. The Kolb brothers played an integral role in the early years of development at Grand Canyon. From the studio they photographed countless visitors as they began their mule trips. Join a ranger for a closer look at Kolb Studio and the fascinating time in which the Kolb family lived here. Limited to 12 participants. Register at Kolb Studio for the tour prior to that day's program or by calling 638-2771. First tour presented October 28.	Kolb Studio	3:00 p.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, human 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 outside Yavapai Observation Station	4:00 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.

Grand Canyon Village, continued

Activity	Location	Time	Duration	Frequency
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Evening Program

The perfect way to end your day at the Grand Canyon! 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 the outdoor presentations. **Accessibility note:** Although the trails to the amphitheater are paved, short sections exceed 5% grade. **Program moves inside to the Shrine of the Ages auditorium beginning October 1.**

Mather Amphitheater , behind Park Headquarters off the Rim Trail from Parking Lot A (through September 30) Shrine of the Ages Auditorium (beginning October 1)	7:30 p.m.	1 hour	Daily
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Special Programs

Full Moon Walks and Star Talks

During nights around the full moon and new moon, rangers may offer moon walks and star talks at the Mather Point overlook. Check bulletin boards at the visitor centers and campgrounds to see if these events are scheduled. **Programs are offered when staffing allows.**

Mather Point	One hour after sunset	1 hour	3 days around new moon and full moon
See page 6 for sunset times and moon phase dates			

Additional Programs

Additional walks and talks are scheduled when staffing allows. Programs cover a variety of topics including rim walks, river discussions, sunset talks, or a moonlight tour of the Grand Canyon Cemetery. 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 and 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. Check at the museum for programs on Tues. and Wed. beginning Nov. 6

No program Tues. and Wed. beginning November 6			
Tusayan Museum 3 miles (4.8 km) west of Desert View	11:00 a.m.	30–45 min.	Daily
	1:30 p.m.	30–45 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. **Last programs presented November 10.**

Last program November 10			
Phantom Ranch	4:00 p.m.	45 min.	Daily
	7:30 p.m.	45 min.	Daily



 **Lightning icon:** All outdoor programs are subject to cancellation in inclement weather or when lightning danger is present.  **Wheelchair icon:** 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 accessible shuttle from Mather Point parking lot.  **Kid-friendly icon:** These family-oriented programs are ideal for meeting the ranger program requirement for the Grand Canyon's Junior Ranger badge and certification. Any ranger program, however, may serve the requirement on page 2 of the *Junior Ranger Activity Booklet*. **Children must be accompanied by an adult on all programs.**

Special Programs



Kolb Studio Art Exhibits



Through Oct. 31, 2007: **I Am the Grand Canyon**

Featuring the origins, history, art, and culture of the Havasupai people, this show includes historic and contemporary photographs of their stunning homeland, some never before shown, and examples of their music and language, one of the oldest and most actively used indigenous languages of North America.

Opening Nov. 15, 2007 **Grand Canyon's Artists in Residence**

Each year selected artists are invited to complete three-week residencies at Grand Canyon National Park. During their residencies they produce art, interact with visitors, and present programs about their work. One artwork resulting from each residency is donated to the park by the artists. This exhibit brings together the works produced between the years 2004 and 2007 under the park's Artist-In-Residence program.

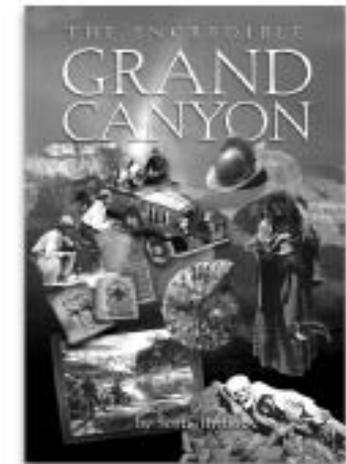
Lectures at the Shrine of the Ages



Nov. 1, 7:30 p.m.: **Bruce Aiken's Grand Canyon, presented by Bruce Aiken**

In a remote side canyon along a stream that ultimately flows into the Colorado River, Bruce Aiken and his wife Mary raised three children while he tended to Grand Canyon National Park's precious water supply at Roaring Springs—and painted. Out of this intimate relationship between the artist and his muse came a body of work unparalleled

in the annals of Grand Canyon landscape painters. Join Aiken as he shares his story with a visual presentation of more than thirty years of living and painting at the bottom of the Grand Canyon.



Nov. 8, 7:30 p.m. **The Incredible Grand Canyon presented by Scott Thybony**

For decades Scott Thybony has traversed the Southwest in search of its history, its people and its little-known stories. *Incredible Grand Canyon* includes canyon lore which slipped through the cracks and classic stories that still resonate. Thybony has compiled some of his favorite tales about Grand Canyon—some quirky, some pure whimsy, many actually true.

These exhibit and lecture programs are sponsored by the Grand Canyon Association (GCA) which is celebrating its 75th anniversary. For more information about GCA exhibits, lectures, and programs visit www.grandcanyon.org.

Fall Hawk Migration Over Grand Canyon HawkWatch International

Representatives of HawkWatch International will be recording the fall hawk migration at Lipan and Yaki Points on Desert View Drive east of Grand Canyon Village daily from 10:00 a.m. to 4:00 p.m. through October 31. Visitors are welcome to join in the count or to learn to identify migrating hawks, falcons, and eagles. However, be aware that if staffing is low or bird numbers high, the HawkWatch researchers may not be able to work with you.

To join the experts ride the Kaibab Trail shuttle bus to Yaki Point. Walk a short distance to the southwest (left) along the rim. In addition to these informal contacts, take part in the *Raptors in Flight* talks listed with the ranger programs on pages 2–3.



Photo: © Steve J. Sherman/www.stevejsherman.com

Grand Canyon Music Festival

Sept. 1–16, 2007

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.

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

Wednesday, Sept. 12: The Bonfiglio Group returns to the Shrine of the Ages with their “sophisticated and contemporary” blend of blues, jazz and Latin sounds. Also on **Sunday, Sept. 16, 3:00 p.m.** they appear in a family matinee concert at the Canyon Plaza Quality Inn in Tusayan.

Friday and Saturday, Sept. 14–15: The string quartet Ethel closes out the Grand Canyon Music Festival's 24th season. “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 early at 6:00 p.m. to hear Ethel perform original works produced by students from the Grand Canyon Music Festival's Native American Composer Apprentice Project.

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



Environmental Education

Class Field Trips 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. 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.

Do you live hundreds or thousands of miles away from Grand Canyon and wish you could bring your class to Grand Canyon? Why not bring Grand Canyon to your classroom? We now have the capability to conduct interactive classroom visits via video conferencing and have developed two one-hour programs on the geology and ecology of Grand Canyon. For more information please visit www.nps.gov/grca/forteachers/distance-learningopportunities.htm

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 teacher workshop, call (928) 638-7662 or visit www.nps.gov/grca/forteachers/index.htm.

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 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. through Oct. 15. Beginning Oct. 16, open daily 8:00 a.m. to 6:00 p.m. See page 2 for tours of Kolb Studio and page 4 for art exhibits displayed here.



Canyon View Information Plaza

The Visitor Center and bookstore at Canyon View Information Plaza is reachable only by free shuttle bus, a one-mile (1.6-km) walk or bicycle ride from Market Plaza on the Greenway Trail, or a short walk from Mather Point. The Visitor Center is open daily 8:00 a.m. to 5:00 p.m. The bookstore is open daily 8:00 a.m. to 7:00 p.m. through Oct. 15, and beginning Oct. 16 is open daily 8:00 a.m. to 6:00 p.m. Outdoor exhibits may be viewed at any time.



Yavapai Observation Station

How old is the canyon? How did it form? The new exhibits at Yavapai Observation Station answer these and other geology questions. The historic building, located one mile (1.6 km) east of Market Plaza, features expansive canyon views. The bookstore offers a variety of materials about the area. Open daily 8:00 a.m. to 7:00 p.m. through Oct. 14; 8:00 a.m. to 6:00 p.m. beginning Oct. 15. See page 2 for ranger programs beginning 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 3 for information on programs originating here. Beginning Nov. 6, the museum may be closed Tuesdays and Wednesdays.



Desert View Bookstore and Park Information

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

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 8–9 and 16. An *Accessibility Guide* for visitors with limited mobility is also available at the Visitor Center at Canyon View Information Plaza.

Activity	Option
Attend Free Ranger Programs	<ul style="list-style-type: none"> Listed on pages 2–3 Junior Ranger program described on page 6
Visit Scenic Hermit Road 7 miles (11 km) one-way Allow at least 2 hours round trip	<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 (40 km) 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 above for more information
Hiking	
Walk Part of the Rim Trail	<ul style="list-style-type: none"> See map pages 8–9; described on page 12 Trail may be accessed at many locations along rim
Day Hike into Grand Canyon	<ul style="list-style-type: none"> See pages 12–13 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
Backpack in Grand Canyon	<ul style="list-style-type: none"> Permit and fees required (see page 13) Inquire at Backcountry Information Center (8:00 a.m.–noon and 1:00–5:00 p.m.)

Superintendent's Greeting



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

Steve Martin—Superintendent, Grand Canyon National Park

Enjoying Grand Canyon

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



For more than 30 years the National Park Service has provided a free shuttle bus system on the South Rim. 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 8-9 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 seven miles to Hermits Rest, stopping at eight 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 8–9 for a map with routes, stops, and times.

Grand Canyon Semester: The West as Image and Reality



Grand Canyon, students confront current issues of the American West. Earn 16 semester credit hours while immersing yourself in experiential learning that could change your life.

For more information visit www.grandcanyonsemester.nau.edu.

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

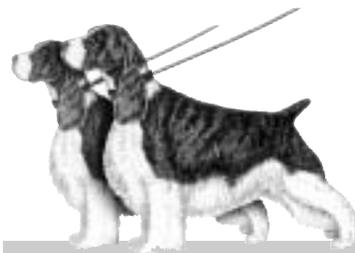
Sunrise & Sunset

Date	Sunrise	Sunset
Sept. 4	6:02 a.m.	6:52 p.m.
Sept. 9	6:06 a.m.	6:45 p.m.
Sept. 16	6:12 a.m.	6:35 p.m.
Sept. 23	6:17 a.m.	6:24 p.m.
Sept. 30	6:23 a.m.	6:14 p.m.
Oct. 7	6:28 a.m.	6:04 p.m.
Oct. 14	6:34 a.m.	5:54 p.m.
Oct. 21	6:41 a.m.	5:45 p.m.
Oct. 28	6:47 a.m.	5:37 p.m.
Nov. 4	6:54 a.m.	5:30 p.m.
Nov. 11	7:01 a.m.	5:24 p.m.
Nov. 18	7:08 a.m.	5:19 p.m.
Nov. 25	7:15 a.m.	5:16 p.m.

Moon Phases

New Moon	Full Moon	Moon Rises
Sept. 11		
	Sept. 26	6:13 p.m.
Oct. 10		
	Oct. 25	5:12 p.m.
Nov. 9		
	Nov. 24	5:12 p.m.

All times are Mountain Standard Time.



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 (located in the Maswik Transportation Center). Kennels are available. Telephone: (928) 638-0534.

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.

Would you like to be a Junior Ranger?

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



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

Once completed (don't forget attendance at one or more ranger programs) 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.



Wildlife Alert Grand Canyon's wild deer and elk can be especially aggressive during the fall!

Fall is the rutting period for deer and elk. During this period, these animals become increasingly aggressive. They may become angered at any intrusion into their territory. Elk,

which weigh as much as 1,000 pounds (450 kg), have been known to injure or kill people who approach them. Never approach wild animals. Photograph all wildlife from the safety of your vehicle. Use telephoto lenses and observe quietly.

It is dangerous, and illegal, to feed wild animals in a national park. Violators will be fined. Wildlife can become dependent upon handouts and lose their ability to hunt and forage. Such animals lose their fear of humans. They can become aggressive and bite, kick, or gore. Many are struck by cars while searching for handouts. Help us keep wildlife wild. Never feed or approach wildlife.



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*, Allyson Mathis
- *Introduction to Grand Canyon Geology*, Greer Price
- *Carving Grand Canyon*, Wayne Ranney
- *Grand Canyon: Solving Earth's Grandest Puzzle*, James Powell

Park Science

Condor Country



Almost everyday, it seems, we hear about another plant or animal threatened with extinction. Lost in these stories are some of the successes that have occurred over the last few years—the reintroduction of wolves in the northern Rocky Mountains, the increase in the North American

population of whooping cranes, and the reestablishment of black-footed ferret colonies in the western United States. The National Park Service at Grand Canyon National Park participates in a reintroduction program for the California condor with encouraging results.

Fossils found in canyon caves indicate that condors have lived in this area for the last 50,000 years. These scavengers survived on the carcasses of the large mammals that roamed throughout North America during the last Ice Age. With the loss of this food source and a changing climate, condor populations declined. Researchers estimate only a few hundred California condors existed, mostly along the West Coast, when European explorers arrived five hundred years ago. Shooting, egg and feather collecting, even collisions with power lines further reduced the population. By the 1980s fewer than two dozen condors lived in the wild, all in California.

At that time all California condors were moved into a captive breeding program. Handlers developed techniques to raise condors in captivity. Fortunately the condors cooperated and numbers increased. In 1996 The

Peregrine Fund released a group of young condors just north of Grand Canyon in an effort to reestablish an Arizona population. Every year since, additional condors have been released in northern Arizona. Many have chosen to frequent Grand Canyon, especially in the spring and summer, making this one of the easiest places to view California condors.

Today approximately 60 condors soar above Arizona with more than 300 in the world. Condors live 40–60 years and do not begin breeding until six or seven years of age. Experience in the Grand Canyon area shows that young pairs rarely succeed in raising a chick until their second or third attempt. In 2003 one pair hatched their single egg and raised the young to fledging, the first condor to hatch and fledge in the wild since 1984 and the first successful nest in Arizona in more than 100 years. Each year since several pairs

have nested; some successfully, some not. In 2007 at least six pairs exhibited nesting behavior and two pairs seem to be raising chicks. Fledging does not occur until fall.

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 provides hunters in northern Arizona with coupons for non-lead ammunition.

How do you measure the success of a reintroduction program? A group of birds feeding and surviving for a decade provides a positive sign. Condors successfully reproducing are even more encouraging. To learn more, attend the *Condor Talk: Wings over the Canyon* program described on page 2 or read the *Field Notes* on the Peregrine Fund website www.peregrinefund.org.

Reveling in the Dark



A world without opposites lacks drama. Good without evil. Noise without silence. Sweet without salt. Light without dark. True darkness is becoming rare. What would the world without darkness be like? Imagine a camping trip without your friend's flashlight-lit face. Raucous campfire songs or stories soften as darkness sets

in, creating a quiet confessional for telling secrets, gazing into starry skies, and asking big questions about life.

Many people expect to experience these nostalgic moments in national parks. The National Park Service works to protect the subtle qualities of the park experience, including dark

skies. In major cities you might see a handful of stars. More than 5,000 stars sparkle in Grand Canyon's night skies.

City lights reflect off moisture and dust in the air, spreading light pollution far from population centers. The glow of the lights from Las Vegas, Nevada can be seen from Grand Canyon and seven other National Park Service areas. Research suggests that artificial night light can impair bird migration, impact the survival of some plants, and determine the success and survival of nocturnal predators.

Protecting dark skies is simple. Choose light fixtures that direct light downward instead of upward and carefully plan the location of fixtures to lessen the pollution. Reduce the wattage of lights when possible. Making every outdoor light in the United States night sky friendly could save between \$2 billion and \$5 billion annually.

Do not miss Grand Canyon at night. Grab a flashlight and enjoy the night skies. Rangers lead night sky programs around the new and full moon. See page 3 or check at the visitor center for details.

Star patterns hold stories of ancient people, connecting us with our ancestors. Seasonal changes remind us of the natural rhythms sometimes overlooked in our fast-paced world. The magnitude of Grand Canyon, much like the magnitude of the universe, inspires us to reflect on our role in the natural world. What would we miss if we could never step out into the darkness and share the secrets of the night skies?

For more information on dark skies, visit the International Dark-Sky Association website www.darksky.org or the National Park Service lightscape site <http://www2.nature.nps.gov/air/lightscapes/overview.cfm>.

Left: North America at night, NASA photo.

Celestial Events

Planets

Hard to see **Mercury** is low on the western horizon right after sunset in late September.

Venus and **Saturn** graced the summer skies as brilliant evening stars. By mid-October they reappear close together in the east just before sunrise.

Mars rises in the east and is visible throughout the night, but will be prominent in mid-November.

Meteor Shower

The Leonid meteor shower, November 17–18, is usually one of the best of the year. Watch from a canyon overlook after midnight.

Park News

A Special Piñon Pine



Alice Talakte, an interpretive park ranger at Tusayan Museum, shares her Grand Canyon country experiences.

In the fall of 2004 piñon trees produced a bumper crop of edible seeds called pine nuts. Not every year is a good year and not every tree is a good producer. When my friends and I went out to harvest this bounty, we aroused the curiosity of many visitors who asked, "What are the people doing under those trees? What are you looking for? What do you do with them?"

I enjoy sharing my culture with visitors so I happily explained that the tasty nuts are a part of my traditional Navajo diet. Since many of our visitors are not involved in growing and gathering their own food, our activities were novel. It gave me an opportunity to help them understand how early people thrived using Grand Canyon's natural resources.

Piñon nut harvest takes me back to childhood experiences and fond memories. I learned how to gather pine nuts from my grandmother. I can still see her fingers patiently picking up the nuts as she felt for full shells containing sweet meats. She could easily fill a twenty-five pound sack in a

day. Early on, my bag contained mostly empty shells. Grandmother would have been proud when I finally learned her tricks. I now manage to fill a gallon-sized bag, a few pounds, in a day.

My grandmother's unwritten rule during piñon nut harvest was: "Do not shake the piñon tree to cause more nuts to fall out of their cones. This is an act of greed and disrespect for nature. A shaken piñon tree will retaliate on its own terms. Perhaps a strong windstorm will come or an early blizzard will cover the pine nuts preventing any further harvest. Always be thankful for the nutritious foods that nature provides. Take only what you need and leave the rest for other creatures."

One particular day, keeping in mind the lessons my grandmother taught me, I ventured out for piñon nuts. I walked all morning looking for a piñon tree, (*tsin*, or *chá ol* in Navajo) that would have dark, plump, creamy-colored nuts (*neesch'ii*). The warmth of the morning sun felt great at the start. After a while, it got hot. Only a few ounces of nuts rattled in my bag to show my day's progress. Taking a break under a piñon, I re-evaluated my situation. Then I heard

the unmistakable thump, thumping sounds of nuts falling out of the cones from high above and hitting the out-reaching branches on their way down. Right before me were prized nuts that I had failed to notice before. I quickly scanned for the dark-tinted shells; they were what I desired. I had found the special tree that would provide piñon nuts for my snacks. When I am involved in piñon nut collecting, it is easy to lose myself, while the cares of the world vanish.

My grandmother taught me lessons about many plants, seeds, berries, nuts, and roots. Some are good to use, and others are dangerous. Most of all, she taught me to respect nature's gifts. At her side, I learned to seek a special tree and to enjoy the wonderful rewards of hard work. Today I still enjoy the memories of piñon nut collecting and the unforgettable experience of finding my special piñon tree at Grand Canyon National Park. My hope is that future generations will continue to enjoy and appreciate the fruits of their labors and their cultural ties to nature by preserving and protecting the natural and cultural resources not only at Grand Canyon but everywhere.

Hermit Road Native Plant Restoration

Hermit Road from Grand Canyon Village to Hermits Rest is scheduled to be repaved in 2008. The project requires closing some or the entire road to visitor and shuttle bus traffic for much of the year. The current road surface is more than 50 years old and deteriorating. Repaving the road and improving the Rim Trail along it will enhance the experience and improve the safety for future visitors.

You may notice on your shuttle bus ride to Hermits Rest this fall a flurry of activity along the road. Vegetation Program staff with the help of volunteers are salvaging native plants, collecting native seed, and removing invasive species. Why are they doing these activities?

When Hermit Road is rehabilitated next spring, a strip of vegetation about six feet wide will be removed from the side of the road. Park staff and volunteers will salvage (save plants that are in danger of damage or destruction) as many plants as they can, holding them in the park's native plant nursery until construction is complete in the fall of 2008. Following construction, volunteers and staff again will team up to replant areas along the road, parking lots, and pullouts with the salvaged plants in an effort to restore native plant communities.

As part of the restoration efforts, park staff will spread native seed and mulch on the roadsides, encouraging recovery of grasses, forbs, and small shrubs. To preserve genetic integrity and to aid in the establishment of Grand Canyon native plants, park staff will collect all the seed within the boundaries of the park, specifically along Hermit Road.

The control of invasive, nonnative plants is crucial to the success of restoring native vegetation following construction. Because invasive species are particularly fond of recently disturbed ground, roadsides need to be treated carefully. Park staff and volunteers using hand tools will remove as many invasive plants as possible to reduce the need for control efforts after construction.



How you can be involved

The Vegetation Program is looking for enthusiastic volunteers year-round for the Hermit Road Project, as well as other in-park projects. Find available dates, contacts, and project information at www.volunteer.gov.

Want to know more?

To learn more about the story of the California condor, attend the *Condor Talk: Wings over the Canyon* ranger program described on page 2. Books about the condor include:

- *Condors in Canyon Country*, Sophie Osborn
- *California Condors*, Patricia A. Fink Martin (children's book)

The canyon's flora and fauna are described in many books. Take a look at:

- *Introduction to Grand Canyon Ecology*, Rose Houk
- *A Natural History Guide: Grand Canyon*, Jeremy Schmidt

Day Hiking

Before You Go, Remember...

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.

Fall Weather Varies

Inner-canyon temperatures can soar past 100° F (38° C) in September. The first snowstorms may come to the South Rim as early as mid-October. Know the weather forecast and dress accordingly.

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 (0.5 l) 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.

Mules and hikers

Several recent encounters between hikers and mules resulted in injuries to packers and the deaths 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

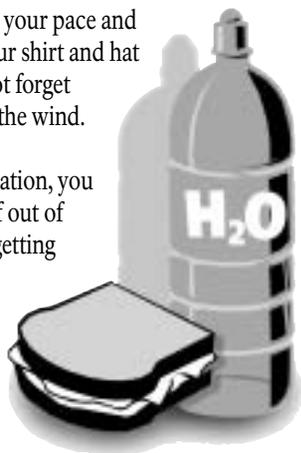
1. Be Prepared: Know your route. Autumn days are growing shorter. The weather can change dramatically. Carry a map, flashlight, and extra clothing including wind and rain protection.

2. Stay Comfortable: If it is hot, reduce your pace and hike during the cooler parts of the day. Wet your shirt and hat to stay cooler. If it is cold, add layers and do not forget your hat. It is important to stay dry and out of the wind.

3. Go Slowly: If you can carry on a conversation, you are hiking at the right pace. If you find yourself out of breath, your legs and digestive system are not getting enough oxygen. Lack of oxygen may cause fatigue, heavy legs, and exhaustion.

4. Rest Often: Sit down, prop your legs up, and take a ten-minute break at least once every hour.

5. Eat and Drink Frequently: Balance your food and water intake. Salty snacks help replace electrolytes lost through perspiration. No matter what the temperature, you need water and energy to keep going.



Hiking Chart

WARNING: Do not attempt to hike from the rim to the river and back in one day.

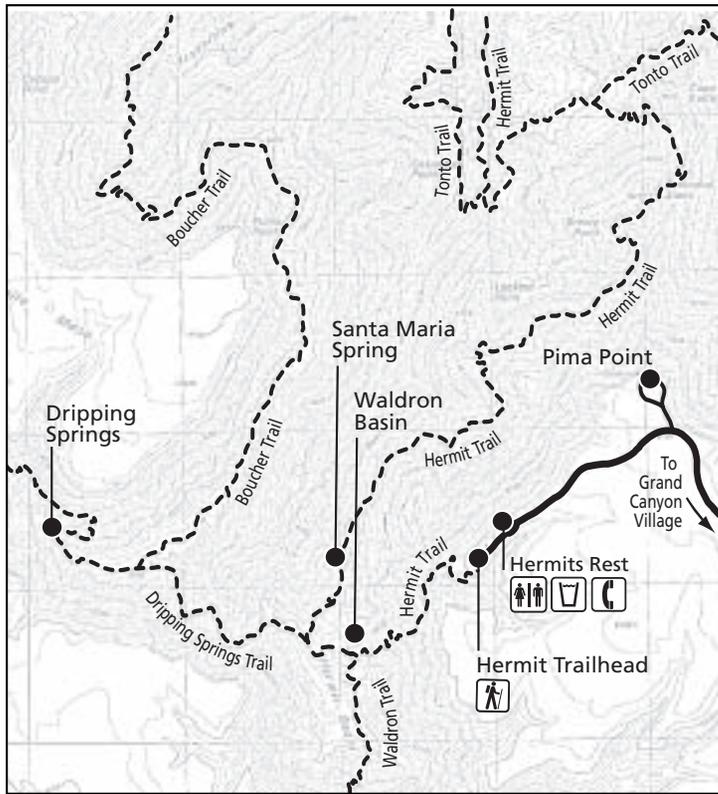
There are no loop trails for day hikers; you will be hiking on the same trail in both directions.

Remember! You are responsible for your own safety and the safety of those in your party.

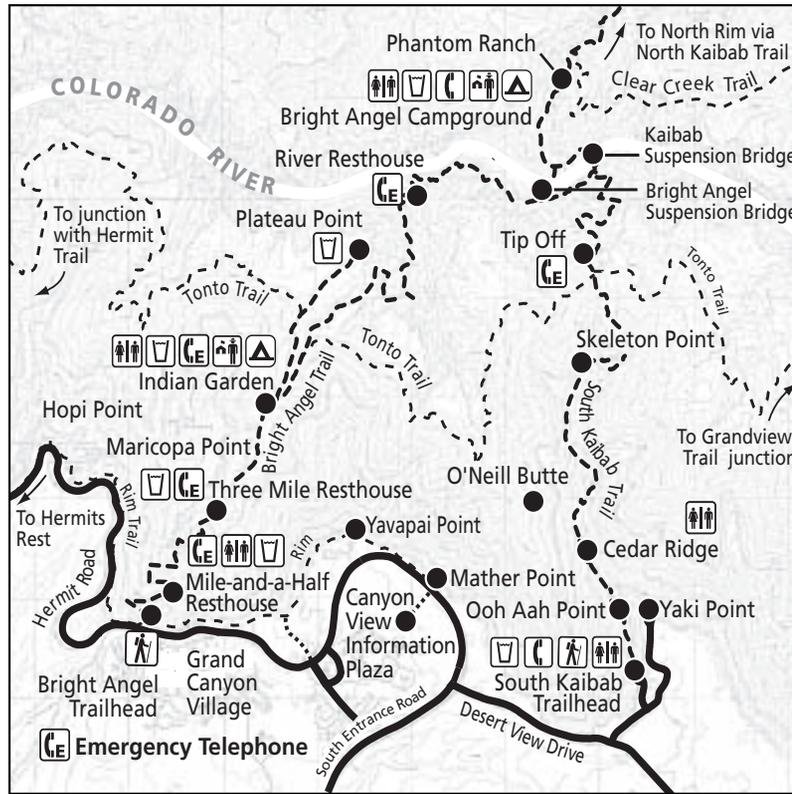
Trails	Destination	Distance Round-Trip	Approximate Time Round-Trip	Elevation Change	Notes
Rim Trail (Easy)					
Begin from any viewpoint in the village or along Hermit Road. The Rim Trail offers excellent walking for quiet views of the inner canyon and for visitors who desire an easy hike. See the map on pages 8–9.	Along the Village Rim	Your Choice	15 min.–1 1/2 hours	200 feet/60 m	Paved. Best easy walk. Passes historic buildings.
	Along Hermit Road	Your Choice	15 min.–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 or Backcountry Information Center for status.	1 1/2-Mile Resthouse	3 mi. / 4.8 km	2–4 hours	1,131 feet/345 m	Restrooms. Water May–Sept.
	3-Mile Resthouse	6 mi. / 9.6 km	4–6 hours	2,112 feet/644 m	Water May–Sept.
	Indian Garden	9.2 mi. / 14.8 km	6–9 hours	3,060 feet/933 m	Restrooms. Water.
Plateau Point is extremely strenuous.					
	Plateau Point	12.2 mi. / 19.6 km	8–12 hours	3,195 feet/974 m	Water year round. View of river 1 1/2 mi. (2.5 km) beyond Indian Garden.
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 the trailhead until first freeze.	Ooh Aah Point	1.8 mi. / 2.9 km	1–2 hours	600 feet/183 m	No water. First view east.
	Cedar Ridge	3 mi. / 4.8 km	2–4 hours	1,140 feet/347 m	Restrooms. No water. First hitching rail.
	Skeleton Point	6 mi. / 9.7 km	4–6 hours	2,040 feet/622 m	No water. Second hitching rail. First view of river.
 Hikers' Express shuttles depart daily and travel directly from the Bright Angel Lodge and the Backcountry Information Center to the South Kaibab Trailhead at: September —5:00, 6:00 and 7:00 a.m.; October —6:00, 7:00 and 8:00 a.m.; and November —7:00, 8:00 and 9:00 a.m.					
Hermit Trail (Steep)					
Unmaintained steep trail requires caution. Begins 500 feet (150 m) west of Hermits Rest. Water from springs must be treated before drinking. For experienced desert hikers. Hiking boots recommended.	Waldron Basin	3 mi. / 4.8 km	2–4 hours	1,240 feet/378 m	No water.
	Santa Maria Spring	5 mi. / 8 km	5–8 hours	1,760 feet/536 m	Treat water.
	Dripping Springs	7 mi. / 11.2 km	6–9 hours	1,140 feet/347 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 [19 km] east of village). For experienced desert hikers. Hiking boots recommended.	Coconino Saddle	2.2 mi. / 3.5 km	1–2 hours	1,190 feet/360 m	No water. Use extra caution along narrow sections.
	Horseshoe Mesa	6 mi. / 9.7 km	6–9 hours	2,600 feet/793 m	Restrooms. No water. Use extra caution along narrow sections.

Hiking and Camping Below the Rim

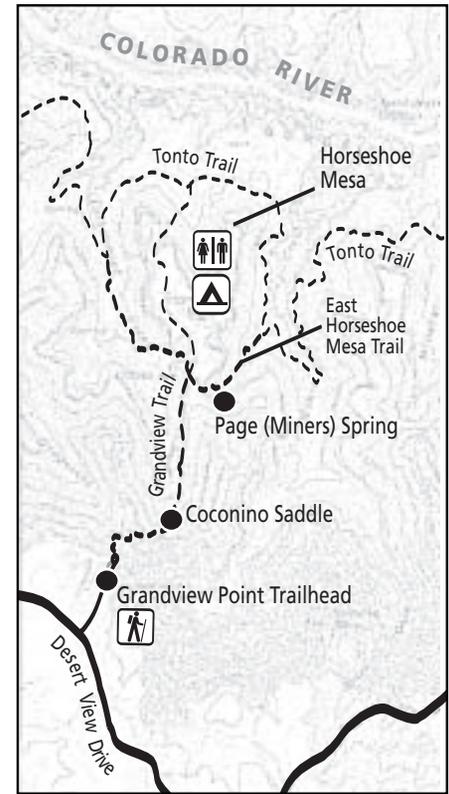
Hermit Trail



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. This is the result of dehydration due to intense sweating. Hikers can lose one to two quarts (1-2 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. This is a life-threatening emergency where the body's heat-regulating mechanisms become overwhelmed by a combination of internal heat production and environmental demands. Every year, two to three Grand Canyon hikers experience heat stroke.

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

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

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

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

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

Leave No Trace



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

1. Plan Ahead and Prepare
2. Travel and Camp on Durable Surfaces
3. Dispose of Waste Properly
4. Leave What You Find
5. Minimize Campfire Impacts
No campfires in Grand Canyon National Park backcountry.
6. Respect Wildlife
7. Be Considerate of Other Visitors

For more information visit www.lnt.org

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 at the park 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 5. A few items to consider include:

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

Lodging and Services

Food

Dining: Listed west to east (approximately) along the rim.

Hermits Rest Snack Bar
Open daily: 9:00 a.m.–sunset.

Maswik Cafeteria
In the Maswik Lodge on the west side of the Village. Open daily 6:00 a.m.–10:00 p.m. Sports Lounge open daily 5:00–11:00 p.m.

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

Bright Angel Coffee House
In Bright Angel Lodge. Open daily 5:30–11:00 a.m.

Bright Angel Fountain
Ice cream and snacks on the rim in Bright Angel Lodge. Open daily 11:00 a.m.–6:00 p.m.

The Arizona Room
On the rim next to Bright Angel Lodge. Open daily: lunch 11:30 a.m.–3:00 p.m. (no lunch beginning Nov. 1), dinner 4:30–10:00 p.m.; Reservations are not accepted.

El Tovar Dining Room
On the rim. Open daily: breakfast 6:30–11:00 a.m., lunch 11:30 a.m.–2:00 p.m., dinner 5:00–10:00 p.m.; Dinner reservations are required (928)638-2631 ext. 6432. Lounge 11:00 a.m. - 11:00 p.m.

Delicatessen at Marketplace
In the general store at Market Plaza. Open daily 8:00 a.m.–7:00 p.m. through Oct. 7. Beginning Oct. 8: 8:00 a.m.–6:00 p.m.

Yavapai Cafeteria
At Market Plaza. Open daily 6:30 a.m.–9:00 p.m.

Desert View Trading Post Snackbar
Open daily 9:00 a.m.–5:00 p.m. through Oct. 24. Beginning Oct. 25 9:00 a.m.–4:00 p.m.

Groceries

Canyon Village Marketplace
General store at Market Plaza. Open daily; 8:00 a.m. - 8:00 p.m. through Oct. 7; 8:00 a.m. - 7:00 p.m. beginning Oct. 8.

Desert View Marketplace
Open daily; 8:00 a.m. - 5:00 p.m. Closed Thanksgiving.

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 Fiddlers Green Circle, Suite 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.

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. Hook-ups are not available, but there is a dump station. Maximum vehicle length: 30 feet. Campsites are \$18 per night through Nov. 24; \$15 beginning Nov. 25. Sites may be available on a first-come, first-served basis. Check at the campground entrance. Reservations are available until Nov. 24. Contact Reserve America (877) 444-6777 or www.recreation.gov for reservations up to six months in advance.

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

Desert View Campground
Located near the East Entrance, 25 miles (40 km) from Grand Canyon Village. Self-registration—first-come, first-served. \$12 per site per night. Campground closes mid-Oct., depending on the weather.

Outside the Park

Camper Village
Commercial campground located one mile (1.6 km) south of park entrance in the town of Tusayan. Hookups and coin-operated showers are available. Call: (888) 638-2887 or visit online: www.grandcanyonentrance.com

Ten-X Campground
Operated by Kaibab National Forest. Located two miles (3 km) south of Tusayan. \$10 per site per night—no hookups or showers. Information: (928) 638-2443. Campground closes Sept. 30.

Services

Laundry & Showers
Located near Mather Campground;
• Through Sept. 20 open: 6:00 a.m.–11:00 p.m. Last laundry load 9:45 p.m.
• Sept. 21–Oct. 31 open: 7:00 a.m.–9:00 p.m. Last laundry load 7:45 p.m.
• Beginning Nov. 1 open: 8:00 a.m.–6:00 p.m. Last laundry load 4:45 p.m.

Bank and ATM
Located at Market Plaza. The bank is open Mon.–Thurs. 9:00 a.m.–5:00 p.m., and Fri. 9:00 a.m.–6:00 p.m. Traveler's checks and major credit cards are accepted. 24-hour ATM is also available. Telephone: (928) 638-2437. An ATM machine is also available in the Maswik Lodge lobby.

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

Kennels
Open daily: 7:30 a.m.–5:00 p.m. Telephone: (928) 638-0534. To retrieve your pet after 5:00 p.m., call Fire and Safety: (928) 638-2631.

Lost and Found
For items lost or found in hotels or restaurants, call (928) 638-2631. For all other lost items, call (928) 638-7798. 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.

Grand Canyon Community Library
Mon.–Fri. 10:30 a.m.–5:00 p.m.
Sat. 10:30 a.m.–4:00 p.m. Closed Sun. and holidays. Story time for infants through 5 years: Thurs. 11:00–11:30 a.m. Internet service available. Call (928) 638-2718 for directions to the library.

Books/Gifts

Listed west to east (approximately).
Hermits Rest9:00 a.m.–5:00 p.m.

Grand Canyon Village area Maswik7:00 a.m.–10:00 p.m.

Kolb Studio
Through Oct. 158:00 a.m.–7:00 p.m.
Beginning Oct. 168:00 a.m.–6:00 p.m.

Lookout Studio . . .9:00 a.m.–5:00 p.m.

Bright Angel7:00 a.m.–10:00 p.m.

El Tovar7:00 a.m.–10:00 p.m.

Hopi House
Through Oct. 247:00 a.m.–10:00 p.m.
Beginning Oct. 259:00 a.m.–5:00 p.m.

Verkamp's Curio
Through Sept. 159:00 a.m.–6:30 p.m.
Beginning Sept. 169:00 a.m.–6:00 p.m.

Canyon Village Market Place
Through Oct. 78:00 a.m.–8:00 p.m.
Beginning Oct. 89:00 a.m.–5:00 p.m.

Yavapai Curio
Through Oct. 248:00 a.m.–9:00 p.m.
Beginning Oct. 259:00 a.m.–5:00 p.m.

Yavapai Observation Station
Through Oct. 148:00 a.m.–7:00 p.m.
Beginning Oct. 158:00 a.m.–6:00 p.m.

Books & More (Canyon View Information Plaza)
Through Oct. 158:00 a.m.–7:00 p.m.
Beginning Oct. 168:00 a.m.–6:00 p.m.

Desert View area

Tusayan Museum . . .9:00 a.m.–5:00 p.m.
Beginning Nov. 6 may be closed Tues. and Wed.

Desert View Bookstore/Park Information9:00 a.m.–5:00 p.m.
As staffing permits.

Desert View Trading Post
Through Oct. 248:00 a.m.–6:00 p.m.
Beginning Oct. 259:00 a.m.–5:00 p.m.

Desert View Watchtower
Through Oct. 248:00 a.m.–6:00 p.m.
Beginning Oct. 259:00 a.m.–5:00 p.m.

Desert View Marketplace
.8:00 a.m.–5:00 p.m.

Medical

24-Hour Emergency Care
Dial 911 (From hotel rooms dial 9-911).

North Country Grand Canyon Clinic
Through Oct. 31: Daily 8:00 a.m.–6:00 p.m.
Beginning Nov. 1: Mon.–Fri.: 8:00 a.m.–5:00 p.m. Phone: (928) 638-2551.

Organizations and Services

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: 

Day-Use Wheelchairs

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

Accessibility Permit

To gain entry to Hermit Road, Yaki Point, and Canyon View Information Plaza pick up an Access Pass at entrance stations, visitor centers, most lodges, and Kolb Studio. This permit also allows use of designated parking if you do not have your accessibility tag or license plate.

Chair-Accessible Tours

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

Accessibility Guide

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

Child Day Care

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

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 the entrance station), Shrine of the Ages, the information kiosk near the post office, and Canyon View Information Plaza.

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 Comelia; (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. The Al Anon Family Group meets Friday at 8:15 p.m. also in the Kachina Room.

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

Lions Club
Meets twice monthly on the first and third Wednesdays at 7:00 p.m. at the Grand Canyon Quality Inn 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 at the north end of Tusayan. Rides are offered as weather permits. For information and reservations call (928) 638-2891.

Smooth-Water Raft Trips

Half-day trips on the Colorado River from Glen Canyon Dam to Lees Ferry are provided by Colorado River Discovery. (888) 522-6644; 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

Fun and informative programs combine lodging, meals, and two days in the field with an instructor. Inquire at the Front Desk or the Transportation Desk at any in-park lodge, or call (928) 638-2525, or visit www.grandcanyonlodges.com (click on promotions).

Hualapai Skywalk

The Hualapai Skywalk at Grand Canyon West on the Hualapai Indian Reservation opened to much publicity this spring. The Skywalk at the west end of Grand Canyon is approximately 250 miles from the South Rim—50 miles east of Highway 93 between Kingman, Arizona and Las Vegas, Nevada.

Stop by the Visitor Center at Canyon View Information Plaza for a handout with more details and a map. For additional information or to make reservations telephone (877)716-9378 or (702)878-9378 or visit www.destinationgrandcanyon.com.

Transport

Bus Service

Greyhound Bus Lines offers service from Flagstaff and Williams, Arizona, to points nationwide. (See shuttle service below for road transportation to the park.)

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. Call (928) 638-2631, ext. 6015.

Maswik Lodge

6:00 a.m.-6:30 p.m. until Oct. 31

Bright Angel Lodge

6:00 a.m.-8:00 p.m. until Oct. 31
6:00 a.m.-6:30 p.m. beginning Nov. 1

Yavapai Lodge

8:00 a.m.-1:00 p.m. and
2:00 p.m.-6:30 p.m. until Oct. 31

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. Scheduled service stops October 15. Charter service available until November 15.

Shuttle Service

Open Road Tours provides shuttle service between Grand Canyon National Park and Flagstaff, Arizona, twice daily. They also offer connections to Phoenix. Call (928) 226-8060 or (877) 226-8060 for times and rates.

Additional Out-of-Park Services

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

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

Café Tusayan 638-2151
Canyon Food Mart 638-2608
Canyon Star 638-3333
General Store 638-9228
McDonald's 638-2208
Pizza Hut 638-4629
Quality Inn 638-2673
Squire Inn Restaurant 638-2681
Tusayan Steakhouse 638-2780
We Cook Pizza, Etc 638-2278
Wendy's 638-6484

Internet Access

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

Cinema/Movie

Imax Theater (928) 638-2203
Through Oct. 31 8:30 a.m.-8:30 p.m.
Beginning Nov. 1 10:30 a.m.-6:30 p.m.
Movie shown every hour on the half hour.

Beauty Salon

Grand Canyon Squire Inn 638-8413

Western Union

Canyon Food Mart 638-2608

Kaibab National Forest

Tusayan Ranger District 638-2443

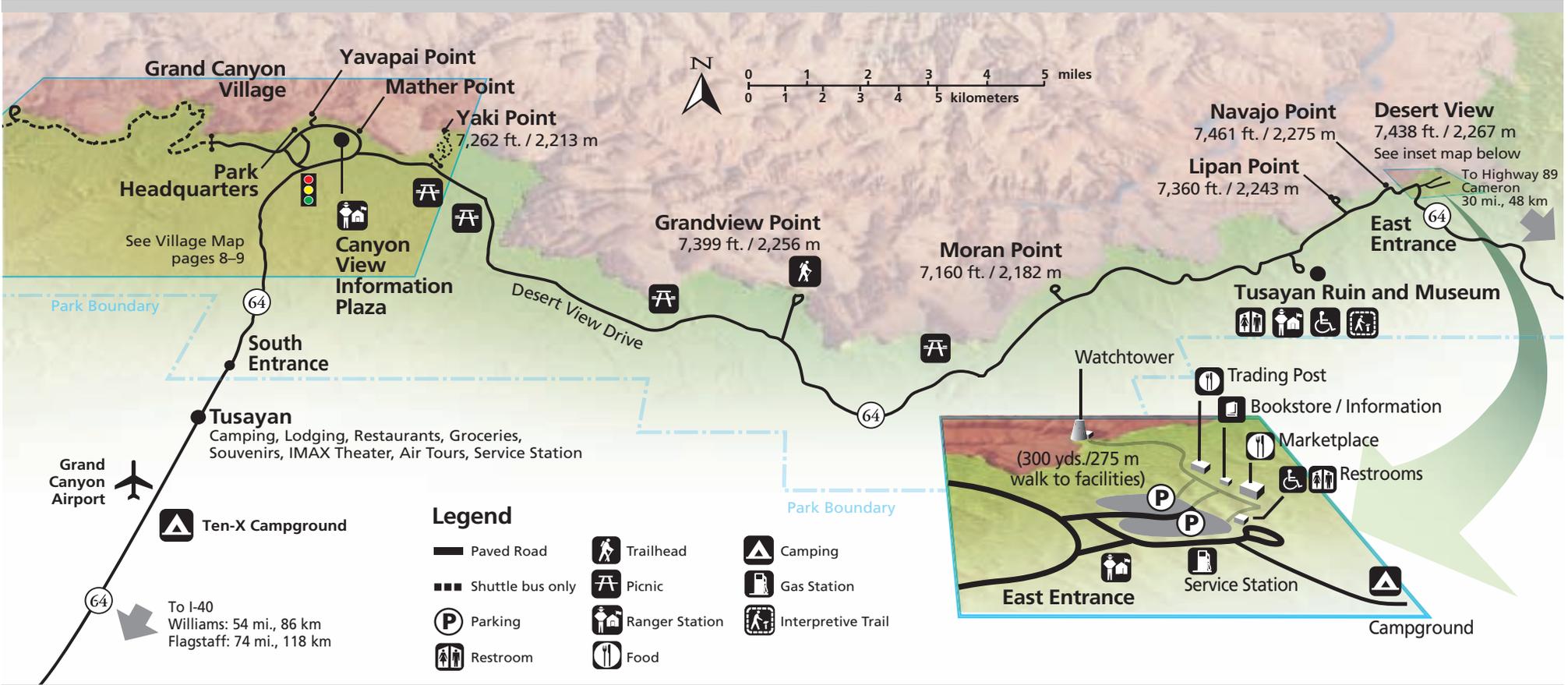
News & Weather (radio)

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



Arizona Highway Information 511
or (888) 411-ROAD or www.az511.com

South Rim



Bookstore Locations



Grand Canyon Association

A nonprofit park partner since 1932

When you shop at the Grand Canyon Association (GCA) bookstores, your purchase supports Grand Canyon National Park. Located at Canyon View Information Plaza, Kolb Studio, Tusayan Museum, and Desert View, GCA bookstores also provide information about the park, exhibits, and interpretive displays. See page 5 for details.

When you visit, ask about becoming a Grand Canyon Association member and how to receive discounts at Grand Canyon and other parks nationwide. Also ask about discounts on Grand Canyon Field Institute classes. Inquire at any Grand Canyon Association bookstore or call (928) 638-2481.

Shipping and mail order services are available. Shop 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 (16 km). However, getting from the South Rim to the North Rim by automobile requires a five-hour drive of 215 miles (346 km).

During winter months, the road to the North Rim entrance is closed due to snow. Lodging and camping are available at the canyon's North Rim from May 15–October 15. Reservations are strongly recommended. Additional facilities are available in the surrounding Kaibab National Forest, the Kaibab Lodge area, and Jacob Lake.

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	Closes October 28	9:00 a.m.– 5:00 p.m. 24-hour credit card access year-round
Desert View Marketplace		8:00 a.m.– 5:00 p.m.
Desert View Bookstore/ Park Information	Open Daily As staffing permits	9:00 a.m.– 5:00 p.m.
Trading Post Snack Bar	Until Oct. 24 Beginning Oct. 25	9:00 a.m.– 5:00 p.m. 9:00 a.m.– 4:00 p.m.
Trading Post Gift Shop	Until Oct. 24 Beginning Oct. 25	8:00 a.m.– 6:00 p.m. 9:00 a.m.– 5:00 p.m.
Watchtower Gift Shop	Until Oct. 24 Beginning Oct. 25	8:00 a.m.– 6:00 p.m. 9:00 a.m.– 5:00 p.m.
Watchtower Stairs	Until Oct. 24 Beginning Oct. 25	8:00 a.m.– 5:30 p.m. 9:00 a.m.– 4:30 p.m.
Desert View Campground	Closes mid-October	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

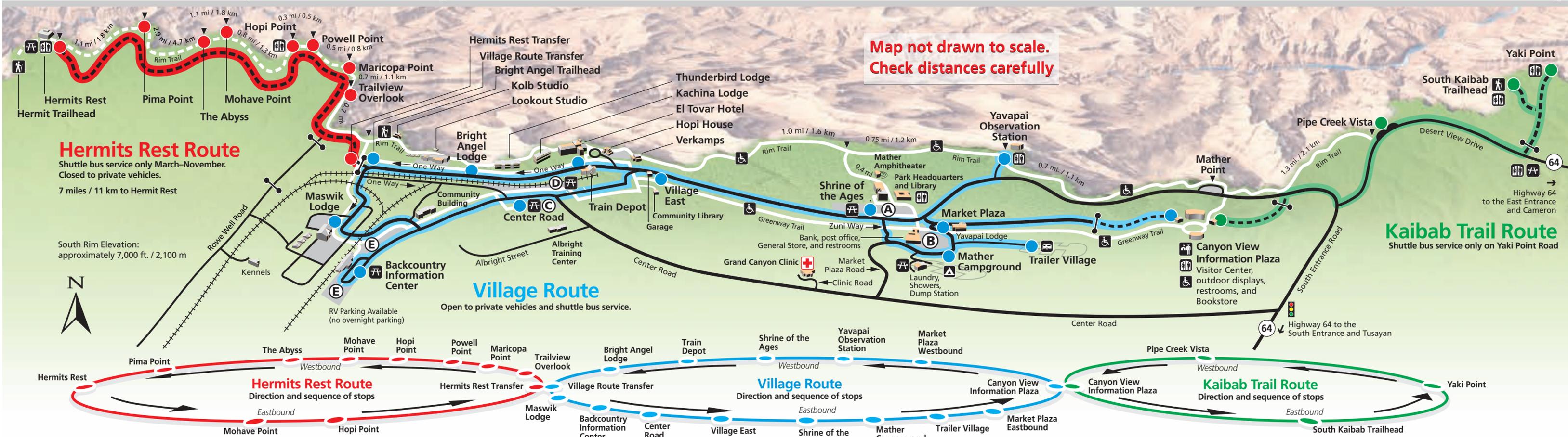
For the latest information updates, visit Grand Canyon National Park's website at: www.nps.gov/grca/



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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. Shuttle service may be suspended during inclement weather.

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

Hermits Rest Route

Buses provide transportation between the Village Route Transfer and Hermits Rest (7 miles/11 km) 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)
September, October, November
5:15–9:30 a.m. Buses run about every 30 minutes
9:30 a.m.–Sunset Buses run about every 15 minutes
Sunset–7:45 p.m. Buses run about every 30 minutes

If you want to view sunset at the overlooks along Hermit Road, plan on boarding a Hermits Rest Route bus by at least an hour before sunset. Some evenings, the line at the Hermit Rest Transfer stop can require a 30-minute wait.

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)
September, October, November
5:15–6:30 a.m. Buses run about every 30 minutes
6:30 a.m.–7:30 p.m. Buses run about every 15 minutes
7:30–10:00 p.m. Buses run about every 30 minutes

Kaibab Trail Route

Buses provide transportation between Canyon View Information Plaza, South Kaibab Trailhead, and Yaki Point. 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)
September, October, November
5:15–6:30 a.m. Buses run about every 30 minutes
6:30 a.m.–5:00 p.m. Buses run about every 15 minutes
5:00–7:45 p.m. Buses run about every 30 minutes

Hikers' Express: An early morning bus leaves daily from the Bright Angel Lodge and the Backcountry Information Center and goes directly to the South Kaibab Trailhead at:
September: 5:00, 6:00, and 7:00 a.m.
October: 6:00, 7:00, and 8:00 a.m.
November: 7:00, 8:00, and 9:00 a.m.

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. Bicyclist 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. The 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 sites 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.

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, Kolb Studio, 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 5:30 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
- Not to scale. Check distances carefully.