



The Guide

South Rim: March 1–May 26, 2007
Also available in Deutsch, 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. Its vast spaces offer solace from our hectic lives.

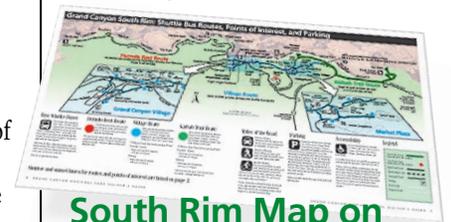
The Grand Canyon we visit today is a gift from past generations. Take time to enjoy this gift. Sit and watch the changing play of light and shadows. Wander along a trail and feel the sunshine and wind on your face. Attend a ranger program. Follow the antics of ravens soaring above the rim. Listen for 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.



What Time Is It?

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



South Rim Map on pages 8–9

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. See page 9.



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 4 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. Watch for snow and ice in early spring.

Emergency • 911

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

Ranger Programs

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

Grand Canyon Village

Activity

	Location	Time	Duration	Frequency
Human History at Grand Canyon 				
This program March 1–31 only				
Humans have been part of Grand Canyon's history for almost 12,000 years. The beauty that draws people to the canyon today also brought American Indians, prospectors, entrepreneurs, and the National Park Service to this special place. Depending on weather, be prepared for either a short walk along the rim or an indoor program in the Bright Angel History Room. Program presented March 1–31 only.	Patio on the rim side of Bright Angel Lodge	9:00 a.m.	45 min.	Daily
Fossil Walk: Remnant Impressions  				
This program begins April 1				
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. This program begins April 1. No programs May 7–9.	Patio on the rim side of Bright Angel Lodge	9:00 a.m.	1 hour	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. Program may include a short walk on a paved path. Plan sufficient time to arrive at the Visitor Center by the free Village Route shuttle bus. No programs May 7–9.	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, or pioneer history. Plan sufficient time to arrive at the Visitor Center by the free Village Route shuttle bus. No programs May 7–9.	Visitor Center at Canyon View Information Plaza	1:00 p.m.	30–45 min.	Daily
Geology Walk: 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 is a leisurely 1/2-mile (0.8 km) walk on a paved trail. Parking may be limited; plan to arrive by the free Village Route shuttle bus to the Yavapai Observation Station stop. No programs May 7–9.	Bicycle rack at Yavapai Observation Station	1:30 p.m.	1 hour	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. Walks may be canceled during inclement weather. No programs May 7–9.	Bicycle rack at Yavapai Observation Station	2:30 p.m.	45–60 min.	Daily
Condor Talk: Wings over the Canyon  				
What highly endangered bird with a 9-foot (2.7 m) wingspan is often spotted around Grand Canyon? The California condor! Learn about these wonderful birds in a talk at the canyon's rim. Parking is limited; consider parking at Lots C, D, or E or riding the free Village Route shuttle bus to the Bright Angel Lodge stop. No programs May 7–9.	In front of the Lookout Studio near the Bright Angel Lodge (Climbing stairs may be required.)	3:00 p.m.	30–45 min.	Daily
Colorado River Talk  				
Enjoy the grandeur and power of the Colorado River as you explore and discuss the river's role in Grand Canyon. Program may include a short walk on a paved path. Parking may be limited; plan to arrive by the free Village Route shuttle bus to the Yavapai Observation Station stop. No programs May 7–9.	Bicycle rack at Yavapai Observation Station	4:00 p.m.	30–45 min.	Daily
Evening Program  				
The perfect way to end your day at the Grand Canyon! Relax 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. Arrive by walking, driving, or riding the free Village Shuttle Bus. No programs May 16 and 23.	Shrine of Ages Auditorium (Parking Lot A, next to Park Headquarters)	7:30 p.m.	1 hour	Daily

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



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.



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



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

We hope that learning more about Grand Canyon National Park and its resources will lead to a greater appreciation of your national park. Many programs, except the Evening Program, are cancelled May 7–9 to allow our rangers to attend training.

Special Programs

Activity	Location	Time	Duration	Frequency
Full Moon Walks and Star Talks ⚡				
During evenings around full moon and new moon, rangers will offer moon walks and star talks as staffing and weather permit. Check bulletin boards at the visitor centers and campgrounds to see if these events are scheduled or call (928) 638-7644 to confirm program time and frequency. Programs begin one hour after sunset (see page 4 for sunset times). Check at the Visitor Center at Canyon View Information Plaza for current information.	Eastern-most promontory at Mather Point	1 hour after sunset	1 hour	As staffing and weather permit
Canyon View Visitor Center Dailies ♿ ⚡				
Throughout the day at the Visitor Center at Canyon View Information Plaza rangers offer a variety of short programs on geology, culture, and the flora and fauna of Grand Canyon. Check the bulletin boards at the Visitor Center to see what is on the menu for today.	Visitor Center at Canyon View Information Plaza	Times vary	20–30 min.	As staffing permits
Additional Special Programs				
As staffing permits, rangers will offer additional programs such as sunset talks at Yavapai Observation Station, tours of Kolb Studio, and rim walks at the flagpole near El Tovar Hotel. Look for signs at these locations to confirm times and availability.	Locations vary	Times vary	Varies	As staffing permits

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? Join a ranger for a walk 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. 1:30 p.m.	30–45 min. 30–45 min.	Daily Daily

Phantom Ranch

Ranger Programs ⚡	These programs begin March 6			
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. Programs begin March 6. No programs May 6–9.	Phantom Ranch , reachable only by hiking or mule ride	4:00 p.m. 7:30 p.m.	45 min. 45 min.	Daily Daily



Historic Kolb Studio Art Exhibits

March 1–29: Art for Our Park – Legacies

Children from Grand Canyon community’s school explore the importance of history through art as part of a celebration of National Youth Art Month. Admission is free.

April 12–July 15: Wish You Were Here

Postcards, letters and other documents sent from the Grand Canyon between 1900 and 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 all part of the story. Admission is free.

Grand Canyon Association Lecture Series at the Shrine of the Ages Auditorium

Bert Loper: Grand Old Man of the Colorado

Presented by Brad Dimock
Monday, March 12, 7:30–9:00 p.m.

Bert Loper’s name is well-known among Colorado River runners as one of the great old-time boatmen. Yet little is known of him other than his spectacular demise. He died at the age of eighty sitting at the oars while running one last rapid. Join author and river runner Brad Dimock for a rollicking ride through the life of this legendary boatman.

Grand Obsession: Harvey Butchart and the Exploration of Grand Canyon’s Backcountry

Presented by Elias Butler and Thomas Myers, M.D.
Monday, March 19, 7:30–9:00 p.m.

Following a routine tour bus stop at the South Rim, Harvey Butchart found his life’s great purpose: to plunge into the canyon and decipher its mysteries, to climb its peaks and buttes, and to record his findings for the rest of us. Join authors Elias Butler and Tom Myers as they discuss Butchart’s feats, tragedies and legacy.

All lectures are free and open to the public.

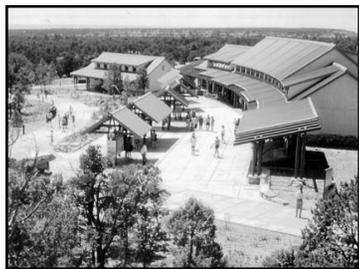


GRAND CANYON ASSOCIATION

Celebrating 75 Years

Enjoying Grand Canyon

Information Centers (see pages 2–3 for ranger programs at these locations)



Canyon View Information Plaza

Visit the visitor center and bookstore at Canyon View Information Plaza—only accessible 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. 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 6:00 p.m. until April 14 and 8:00 a.m. to 7:00 p.m. starting April 15. Outdoor exhibits may be viewed anytime.



Yavapai Observation Station

Yavapai Observation Station, one mile (1.6 km) east of Market Plaza, features exceptional views of the canyon and a bookstore with educational materials. Yavapai Observation Station will be closed in late April and early May for the installation of new geology exhibits. See article on page 11. The bookstore is open 8:00 a.m.–6:00 p.m. and 8:00 a.m.–7:00 p.m. beginning April 15.



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 3, 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 6:00 p.m. and 8:00 a.m.–7:00 p.m. beginning April 15.



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 village remains.



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.

Grand Canyon National Park Foundation



The Grand Canyon National Park Foundation preserves, protects, and enhances Grand Canyon National Park by promoting stewardship through philanthropy, volunteerism, and public education. In the past several years, the foundation has raised more than \$15 million to support a variety of

projects and programs:

- The Greenway biking and pedestrian trails—all wheelchair accessible.
- Renovation of historic buildings and historic boats.
- Critical research on condors, mountain lions, native plants, and other species.
- Environmental education programs.
- A fellowship program for university students pursuing careers in natural resource management.

Learn about the full range of our work and how you can be involved by visiting www.gcnpf.org, calling (928) 774-1760, or writing: 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!

Grand Canyon Semester: The West as Image and Reality



The National Park Service, in cooperation with Northern Arizona University, the Museum of Northern Arizona, and the Grand Canyon Trust offers an unforgettable undergraduate learning experience.

On backcountry field trips, in traditional classroom settings, and floating down the Colorado River, students confront current issues of the American West. Earn up to 18 semester credit hours while immersing yourself in experiential learning that could change your life. For more information visit www.grandcanyonsemester.nau.edu

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 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 15–30 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 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.

Sunrise & Sunset

Date	Sunrise	Sunset
March 1	6:59 a.m.	6:23 p.m.
March 4	6:55 a.m.	6:26 p.m.
March 11	6:45 a.m.	6:32 p.m.
March 18	6:35 a.m.	6:38 p.m.
March 25	6:25 a.m.	6:44 p.m.
April 1	6:15 a.m.	6:50 p.m.
April 8	6:05 a.m.	6:56 p.m.
April 15	5:56 a.m.	7:02 p.m.
April 22	5:47 a.m.	7:08 p.m.
April 29	5:38 a.m.	7:14 p.m.
May 6	5:31 a.m.	7:20 p.m.
May 13	5:24 a.m.	7:26 p.m.
May 20	5:19 a.m.	7:31 p.m.
May 26	5:16 a.m.	7:36 p.m.

Moon Phases

New Moon	Full Moon	Moon Rises
	March 3	6:26 p.m.
March 18		
	April 2	7:10 p.m.
April 17		
	May 2	8:01 p.m.
May 16		

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

Attend Free Ranger Programs

- Listed on pages 2 and 3
- Junior Ranger program described below
- Ride the free shuttle from the Village Route Transfer Stop
- Views of river at Hopi, Mohave, and Pima Points
- Visit Hermits Rest—historic landmark with view of river
- Closed to private vehicles. Ride the free shuttle buses.
- 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 Hwy. 89
- The park offers a variety of museums and information centers that house exhibits and provide park information
- See adjacent page for more information

Visit Scenic Hermit Road

7 miles one-way. Allow at least 2 hours roundtrip.

Visit Scenic Desert View Drive

25 miles one-way

Visit an Information Center or a Museum

Hiking at Grand Canyon:

- **Walk Part of the Rim Trail**
- **Day Hike into Grand Canyon**
- **Backpack Overnight in Grand Canyon**

- See map pages 8–9; Rim Trail described on page 12
- Trail may be accessed at many locations along rim
- 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
- Permit and fees required (see page 13)
- Inquire at Backcountry Information Center (8:00 a.m.–12:00 noon and 1:00–5:00 p.m.)

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.



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 six ranger-led field trip programs at the canyon covering geology, ecology, and history topics. Programs are designed for grades 3–6, are curriculum based, and address Arizona academic standards. Advanced reservations are required. These programs are popular, so contact the park as soon as possible to schedule your trip. Rangers may be available for pre-visit classroom presentations.

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

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 interagency pass may be purchased at park entrance stations, Grand Canyon Association bookstores, or online at www.recreation.gov.

Let Wildlife Feed Themselves

By keeping your distance, you let wildlife be wild.

Spring is a special but precarious time for wildlife. The long winter is coming to an end and new foods are growing. Many animals will soon be giving birth.

Enjoy wildlife from a safe distance. What is a safe distance? If the animal obviously knows you are there, you are too close. Seemingly tame squirrels, ravens, coyotes, deer, and elk, accustomed to human hand-outs, can turn aggressive without warning. You could be harmed! If wildlife approaches you, back slowly away and give them space.



It is unlawful to approach, feed, or harass wildlife in any way. Violators may be subject to fines or imprisonment.

Pets must be on a leash at all times. Loose or feral pets often disturb or kill wildlife or their newborns. Protective wildlife parents can be aggressive and could harm you or your pet. Keep wildlife and your pets safe by observing the leash law.

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 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.

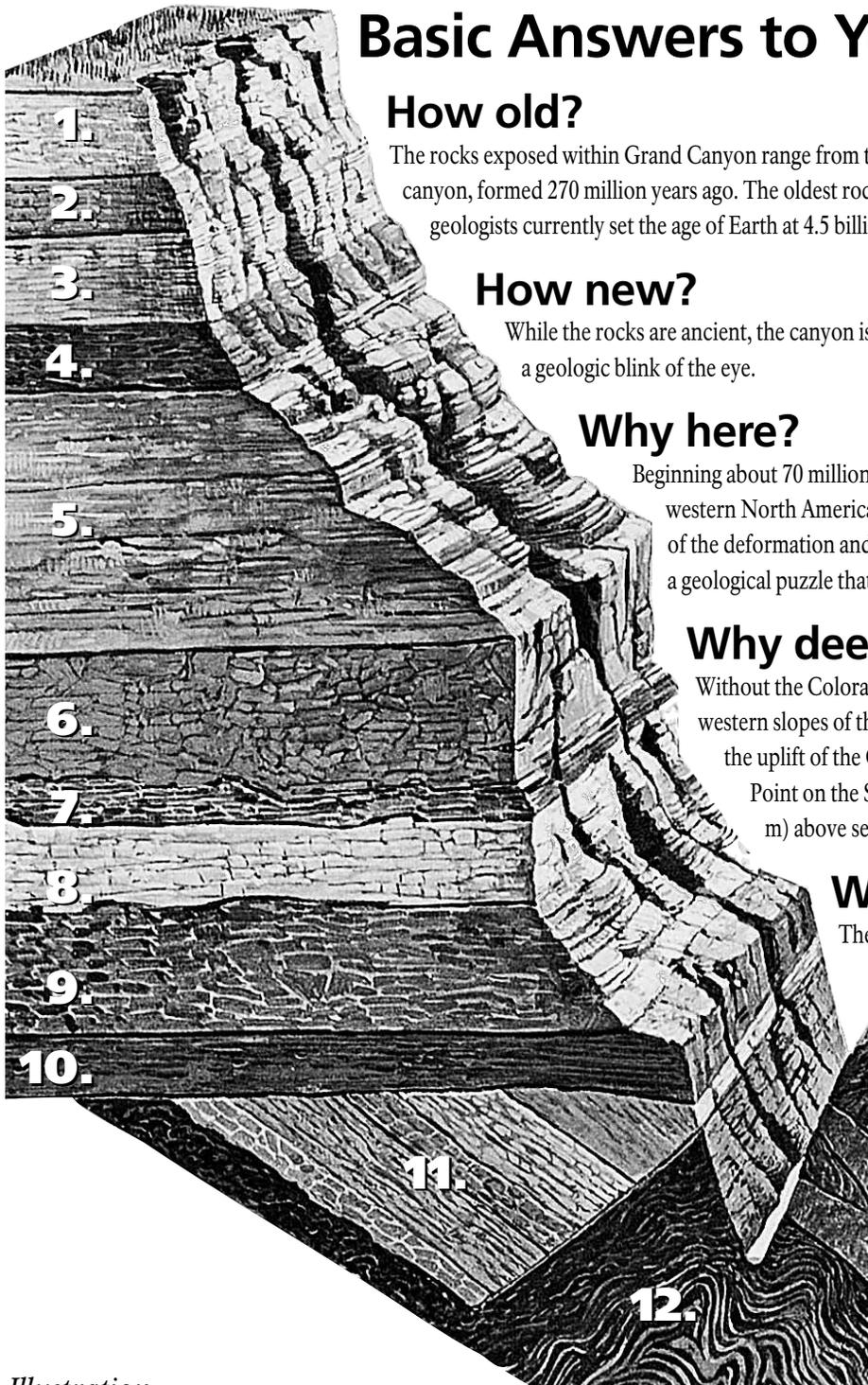
Once completed (don't forget attendance at one or more ranger programs) bring the booklet back to the Visitor Center at Canyon View Information Plaza or Tusayan Museum to receive an official Junior Ranger certificate and badge.



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 1.84 billion years ago. For comparison geologists currently set the age of Earth at 4.5 billion 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	1.2 billion–740 million years
12. Vishnu basement rocks	1.84–1.68 billion 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*
- *Introduction to Grand Canyon Geology*, Greer Price
- *Carving Grand Canyon*, Wayne Raney
- *Grand Canyon: Solving Earth's Grandest Puzzle*, James Powell

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, shrubbox, 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.

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.

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



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 annual Members' Gathering at the South Rim each fall, our membership newsletter *Canyon Views*, and other special opportunities and offers.

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



Today, GCA donates almost \$2 million annually to the National Park Service as financial aid, amounting to more than \$26 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.

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



**GRAND
CANYON
ASSOCIATION**
Celebrating 75 Years

Preserving Our Cultural Heritage



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

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

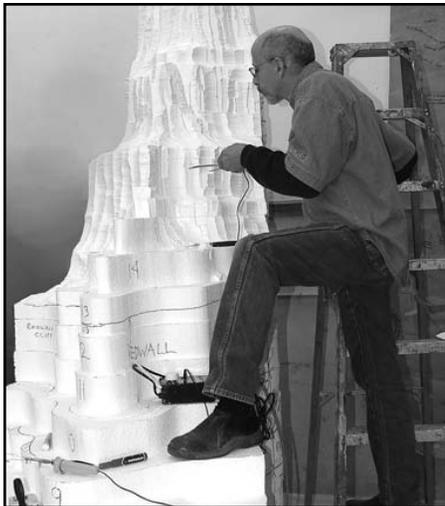
DON'T:

- 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

Park News



New Exhibits for an Old Friend

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 was opened with temporary furnishings last summer. This spring exhibits telling Grand Canyon's geologic story spanning almost two billion years will be installed. A new book sales area concentrating on geology is also planned. Yavapai Observation Station will be closed for a couple of weeks in late April and early May for the installation.

If you are here in May, spend some time at Yavapai Observation Station to enjoy the new exhibits. Check at Yavapai or the Visitor Center at Canyon View Information Plaza for the date and time of the ceremonial dedication of the displays scheduled for just before Memorial Day weekend.

Left: Fabricator carving canyon profile.

Below: Schematic of displays in exhibit room



“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 at Yavapai Point. For almost 80 years it has perched on the rim. 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. National Park Service architect Herbert C.

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.



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.

Know the Weather

Spring weather varies. Snowstorms on the rim are common in March and can occur as late as May. Late April and May can be windy. By mid-May temperatures along the river in the inner canyon may approach 100° F (40°C).

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 large breakfast, a full lunch, a snack every time you take a drink, and a rewarding full dinner at the end of the day. This is not a time to diet.

Watch Your Time

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

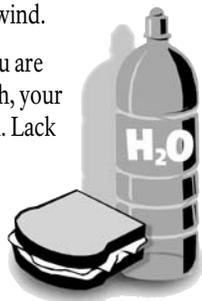
Mules and Hikers

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

- Step off the trail on the uphill side away from the edge.
- Follow the directions of the wrangler. Remain 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. Know the weather forecast. The weather can change quickly and dramatically. Carry a map, flashlight, and extra clothing including wind and rain protection. Instep crampons may be necessary on icy trails in early spring.
- 2. Stay Comfortable:** Dressing in layers is the key to comfortable hiking. This allows you to adjust for the changing conditions as you go up and down the trails. And as Mother always said, "Don't forget your hat!" It is important to stay dry and protected from 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 can cause fatigue, heavy legs, and exhaustion.
- 4. Rest Often:** Sit down, prop your legs up, and take a 10-minute break at least once every hour.
- 5. Eat and Drink Frequently:** Balance your food and water intake. Salty snacks help replace electrolytes lost through perspiration. No matter what the temperature, you need water and energy to keep going.



Hiking Chart

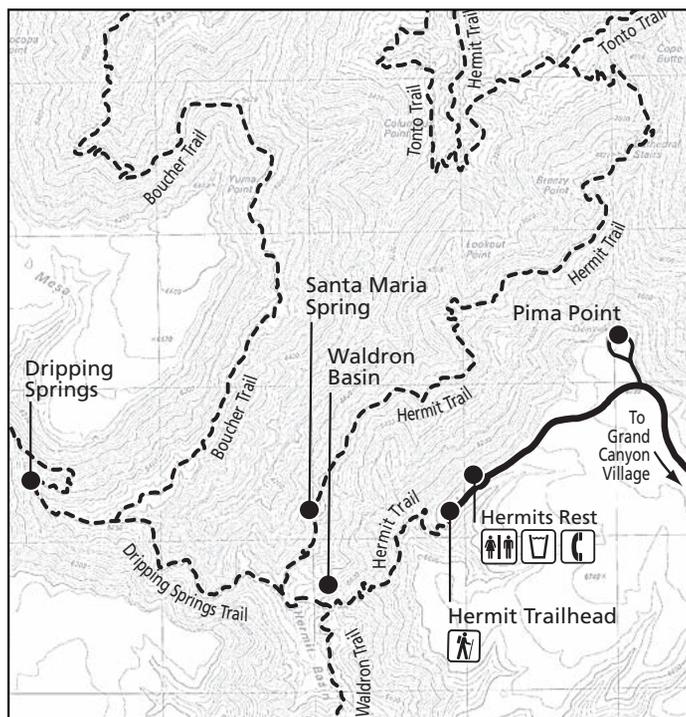
WARNING: It is recommended that you do not attempt to hike from the rim to the river and back in one day. There are no loop trails for day hikes; you will be hiking on the same trail in both directions. **Remember! You are responsible for your own safety and the safety of those in your party.**

Trails

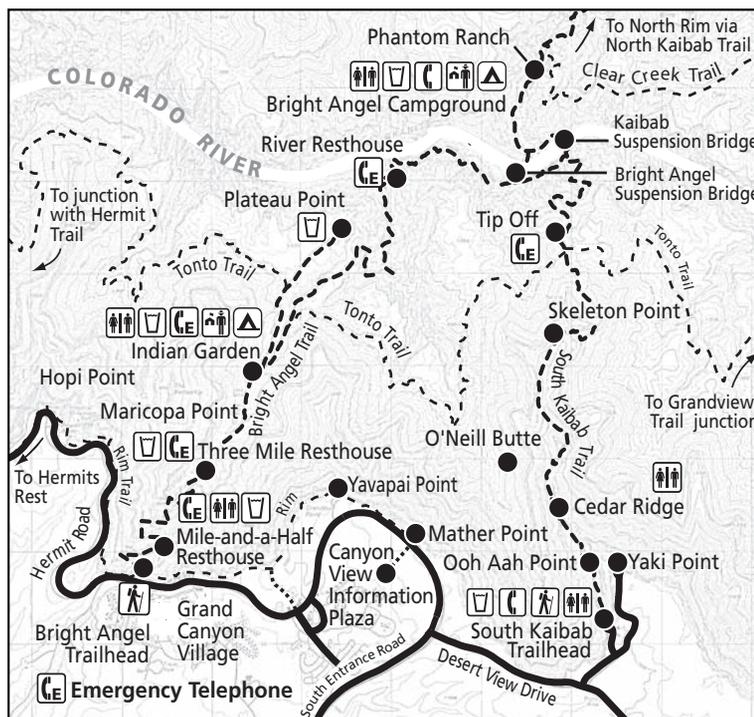
	Destination	Distance Round Trip	Approximate Time Round Trip	Elevation Change	Notes
Rim Trail Begin from any viewpoint in the village or along Hermit Road. The Rim Trail offers excellent walking for quiet views of the inner canyon and for visitors who desire an easy hike. See the map on pages 8–9. No water west of Bright Angel Lodge.	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. Detour around Orphan Mine.
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 for status. Upper portion may be extremely icy in early spring. Use crampons for safe walking.	1 1/2-Mile Resthouse	3 mi. (4.8 km)	2–4 hours	1,131 feet (345 m)	Restrooms. No water until May.
	3-Mile Resthouse	6 mi. (9.6 km)	4–6 hours	2,112 feet (644 m)	No water until May.
	Indian Garden	9.2 mi. (14.8 km)	6–9 hours	3,060 feet (933 m)	Restrooms. Water.
Plateau Point hike is extremely strenuous.					
	Plateau Point	12.2 mi. (19.6 km)	8–12 hours	3,195 feet (974 m)	No water. View of river 1 1/2 mi. 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. Upper portion may be extremely icy in early spring. Use crampons for safe walking.	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. (10 km)	4–6 hours	2,040 feet (622 m)	No water. Second hitching rail. First view of river.
 Express hikers' shuttles directly from Bright Angel Lodge and the Backcountry Information Center to the South Kaibab trailhead depart daily at: March —7:00 a.m., 8:00 a.m., and 9:00 a.m.; April —6:00 a.m., 7:00 a.m., and 8:00 a.m.; May —5:00 a.m., 6:00 a.m., and 7:00 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 mi. (4.8 km)	2–4 hours	1,240 feet (380 m)	No water.
	Santa Maria Spring	5 mi. (8 km)	5–8 hours	1,760 feet (540 m)	Treat water.
	Dripping Springs	7 mi. (11 km)	6–9 hours	1,400 feet (430 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. May be extremely icy in early spring.	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. (9.6 km)	6–9 hours	2,600 feet (793 m)	Toilet. No water. Use extra caution along narrow sections.

Hiking and Camping Below the Rim

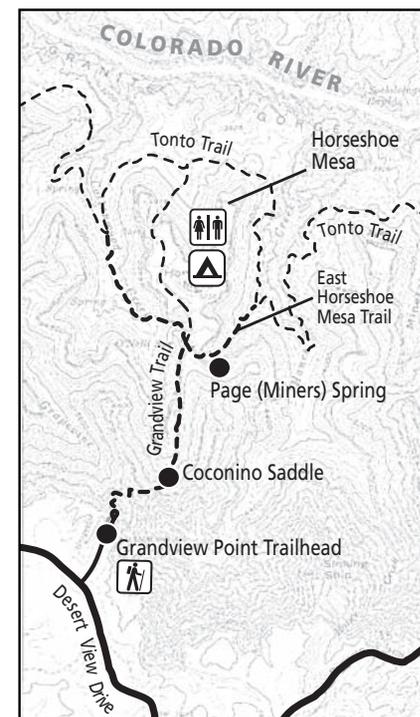
Hermit Trail



Corridor Trails Bright Angel and South Kaibab



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 judgment 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, and a careless attitude

Treatment: put on dry clothing, drink warm liquids, 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 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

General Store Marketplace

The General Store is located in Market Plaza. Open daily: March 1–12, 8:00 a.m.–7:00 p.m.; Beginning March 13, 8:00 a.m.–8:00 p.m.

Delicatessen at Marketplace

Located in the General Store. Open daily: March 1–12, 8:00 a.m.–6:00 p.m.; Beginning March 13, 8:00 a.m.–7:00 p.m.

El Tovar Dining Room

Located on the rim. Open daily: Breakfast: 6:30 a.m.–11:00 a.m.; Lunch: 11:30 a.m.–2:00 p.m.; Dinner: 5:00 p.m.–10:00 p.m. Dinner reservations are required: (928) 638-2631 ext. 6432. Lounge: 11:00 a.m.–11:00 p.m.

The Arizona Room

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

Bright Angel Restaurant

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

Bright Angel Coffee House

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

Bright Angel Fountain

Ice cream and snacks. Located at the Bright Angel Lodge on the rim. Open daily: 11:30 a.m.–5:30 p.m. as weather permits.

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 open daily: 5:00 p.m.–10:00 p.m.

Yavapai Cafeteria

Located at Market Plaza. Open daily: 6:30 a.m.–8:00 p.m. (Subject to change based on demand).

Hermits Rest Snack Bar

Open daily: 9:00 a.m.–5:00 p.m.

Desert View Marketplace

Open daily: March 1–12, 9:00 a.m.–5:00 p.m.; Beginning March 13, 8:00 a.m.–5:00 p.m.

Desert View Trading Post Snackbar

Open daily: 9:00 a.m.–5:00 p.m. Beginning May 17: 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. \$77–138.

Yavapai Lodge

Market Plaza. \$97–126.

Phantom Ranch

Located at the 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 only permitted in designated campsites in Grand Canyon National Park. Violators are subject to citation and 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. \$27.00 per site per night for two people. \$2.00 for each additional person over age 16. Campers may register at the entrance to Trailer Village. Reservations may be made with Xanterra Parks & Resorts. 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.

Desert View Campground

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

Outside the Park

Camper Village

Commercial campground located one mile (1.6 m) south of park entrance in the town of Tusayan. Hookups and coin-operated showers are available. Call (928) 638-2887 or visit www.grandcanyonentrance.com

Ten-X Campground

Operated by Kaibab National Forest. Located two miles south of Tusayan. \$10 per site per night. No hookups or showers. Group sites available by reservation. Information: (928) 638-2443. Opens May 1, weather permitting.

Services

Laundry and Showers

Located near Mather Campground. March 1–March 29: 8:00 a.m.–6:00 p.m. - Last laundry load: 4:45 p.m. March 30–May 31: 7:00 a.m.–9:00 p.m. - Last laundry load: 7:45 p.m.

Chase Bank and ATM

Located at Market Plaza. Open: Mon.–Thurs.: 9:00 a.m.–5:00 p.m. and Fri.: 9:00 a.m.–6:00 p.m. Accepts travelers checks and major credit cards. 24-hour ATM. Telephone: (928) 638-2437. ATM also available in 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. For retrieval after 5:00 p.m., contact Fire and Safety: (928) 638-2631.

Lost and Found

For items lost or found in hotels or restaurants, call (928) 638-2631. For all other lost items call, (928) 638-7798. 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 p.m.–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 General Store Marketplace. Limited repair services are also available.

Community Library

Open Mon.–Fri. 10:30 a.m.–5:00 p.m., Sat. 9:00 a.m.–2:00 p.m., closed Sun. and holidays. Children's story time Thurs. 11:00 a.m. Internet access available. Call (928) 638-2718 for directions to library.

Child Day Care

The Kaibab Learning Center is available for 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.

Accessibility Permit

An accessibility permit, allowing access to some areas closed to public traffic, is available at the entrance gates, the Visitor Center at Canyon View Information Plaza, Park Headquarters, Kolb Studio, El Tovar concierge desk, and the Transportation Desks at the Bright Angel, Yavapai, and Maswik Lodges.

Accessible Tours

Wheelchair-accessible tours are available by prior arrangement. Contact any lodge transportation desk or call (928) 638-2631 for information. TDD telephones 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, Kolb Studio, Tusayan Museum, Desert View Information Center, and the park entrance stations.

Medical

24-Hour Emergency Care

Dial 911 (From hotel rooms dial 9-911).

North Country Grand Canyon Clinic

March 1–March 31
Monday – Friday: 8:00 a.m.–5:00 p.m.

Beginning April 1
Daily: 8:00 a.m.–6:00 p.m.

Telephone: (928) 638-2551



Organizations and Services

Religious Services

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

Current schedules are posted at Mather Campground (near the check-in station), Shrine of the Ages, the information kiosk near the post office, and the Visitor Center at Canyon View Information Plaza.

Community Easter Sunrise Service

April 8, 5:55 a.m. Located at Mather Point. Shuttle service available from Market Plaza. Open to all.

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 Kiel, Branch President. (928) 638-4050.

El Cristo Rey Roman Catholic

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. 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 El Tovar dining room.

Lions Club

Meets twice monthly on the first and third Wed. 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 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. www.xanterra.com

Horse Rides

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

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.

Hualapai River Runners offers all day trips in the western end of the canyon. Trips originate at Diamond Creek north of Peach Springs, Arizona, a drive of about 160 miles (257 km) or 4-5 hours from the South Rim. For more details call (928) 769-2419. www.destinationgrandcanyon.com

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 lodging Transportation Desk.

Transport

Bus Service

Greyhound Bus Lines offers service from Flagstaff and Williams, Arizona, to points nationwide. (See shuttle service below for road transport 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). www.thetrain.com

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 motor-coach tours (including wheelchair-accessible vehicles) is available at the lodge lobbies (hours vary seasonally). Call (928) 638-2631, ext. 6015.

Maswik Lodge

Times vary based on seasonal demand.

Bright Angel

6:00 a.m.-6:30 p.m. March 1-31.
6:00 a.m.-8:00 p.m. Starting April 1.

Yavapai Lodge

Times vary based on seasonal demand.

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. Scheduled service begins May 15. 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. www.openroadtours.com

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 Station638-2608

Food

Cafe' Tusayan638-2151
Canyon Food Mart638-2608
Canyon Star638-3333
General Store638-9228
McDonald's638-2208
Mexican Kitchen638-8423
Pizza Hut638-4629
Quality Inn638-2673
Squire Inn Restaurant638-2681
Tusayan Steakhouse638-2780
We Cook Pizza, Etc638-2278
Wendy's638-6484

Internet Access

Grand Canyon Tourist Center .638-2626
Quality Inn638-2673
Red Feather Lodge638-2414
Jennifer's Internet & Bakery
Cafe638-3433

Beauty Salon

Grand Canyon Squire Inn638-8413

Western Union

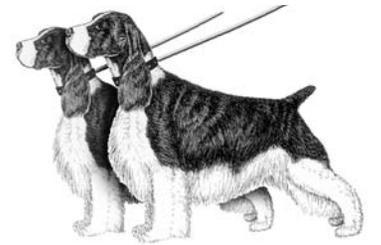
Canyon Food Mart638-2608

Kaibab National Forest

Tusayan Ranger District638-2443

News & Weather

KSGC 92.1638-9552
KNAU 90.3(800) 532-5628



Pets must be leashed at all times.

Leashed pets are allowed on 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.

Books/Gifts

Bright Angel . . .7:00 a.m.-10:00 p.m.

Books & More at Canyon View Information Plaza . . .8:00 a.m.-6:00 p.m.
Beginning April 15 . . .8:00 a.m.-7:00 p.m.

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

Desert View Trading Post9:00 a.m.-5:00 p.m.
Beginning May 178:00 a.m.-Sunset

Desert View Watchtower8:00 a.m.-5:00 p.m.
Beginning May 178:00 a.m.-Sunset

El Tovar7:00 a.m.-10:00 p.m.

Hermits Rest9:00 a.m.-5:00 p.m.
Beginning May 178:00 a.m.-Sunset

Hopi House9:00 a.m.-6:00 p.m.
Beginning May 178:00 a.m.-8:00 p.m.

Kolb Studio8:00 a.m.-6:00 p.m.
Beginning April 15 . . .8:00 a.m.-7:00 p.m.

Lookout Studio .9:00 a.m.-5:00 p.m.
Beginning May 178:00 a.m.-Sunset

Maswik7:00 a.m.-10:00 p.m.

Tusayan Museum .9:00 a.m.-5:00 p.m.

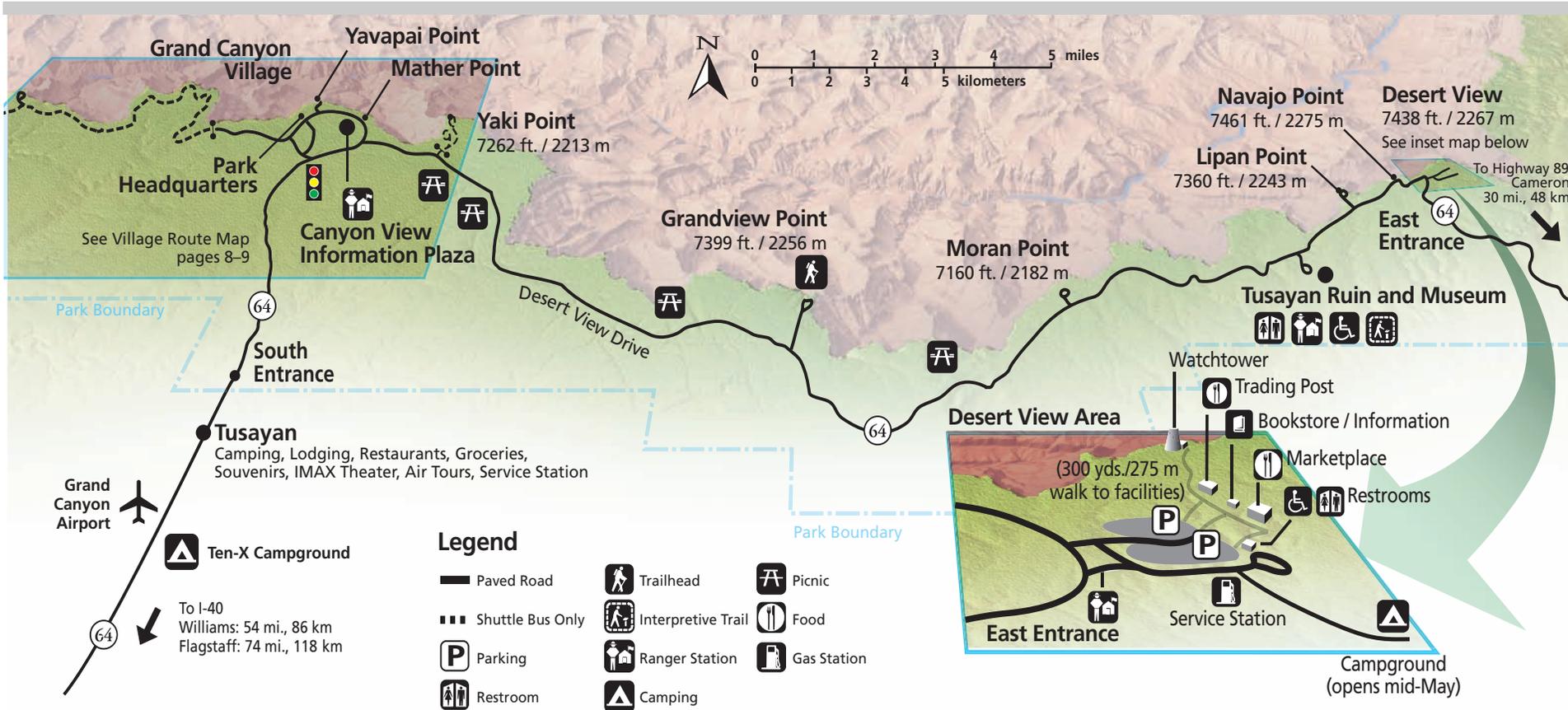
Verkamps Curio
Until March 149:00 a.m.-6:00 p.m.
March 15-April 14 . .9:00 a.m.-6:30 p.m.
April 15-May 14 . . .9:00 a.m.-7:00 p.m.
Beginning May 15 . . .9:00 a.m.-7:30 p.m.

Yavapai Observation Station8:00 a.m.-6:00 p.m.
Beginning April 15 . . .8:00 a.m.-7:00 p.m.

Yavapai Curio
March 1-167:00 a.m.-9:00 p.m.
Beginning May 17 . . .7:00 a.m.-10:00 p.m.



South Rim



Bookstores



GRAND CANYON ASSOCIATION
Celebrating 75 Years

A nonprofit park partner since 1932

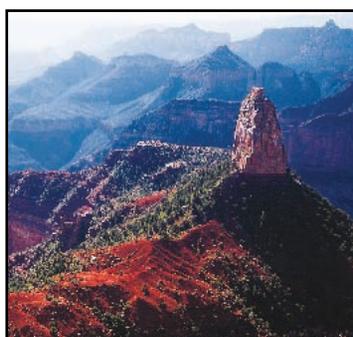
When you shop at Grand Canyon Association (GCA) bookstores your purchase supports Grand Canyon National Park. GCA is a nonprofit organization created in 1932 to cultivate knowledge, discovery, and stewardship for the benefit of Grand Canyon National Park and its visitors. Since then, GCA has provided over \$23 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 how to receive reciprocal discounts at stores in other national parks. See page 4 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.

Shop online: 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 10 miles. However, getting from the South Rim to the North Rim by automobile requires a five-hour drive of 215 miles.

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 through mid-October. 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	Staffed March 31	9:00 a.m.–5:00 p.m.
	24-hour credit card access year round.	
Desert View Marketplace	Until March 12: 9:00 a.m.–5:00 p.m.	
Open daily	Beginning March 13: 8:00 a.m.–5:00 p.m.	
Bookstore/Park Information		9:00 a.m.–5:00 p.m.
Open daily as staffing permits		
Trading Post Snack Bar		9:00 a.m.–5:00 p.m.
Open daily	Beginning May 17: 8:00 a.m.–7:00 p.m.	
Trading Post Gift Shop		9:00 a.m.–5:00 p.m.
Open daily	Beginning May 17: 8:00 a.m.–Sunset	
Watchtower Gift Shop		9:00 a.m.–5:00 p.m.
Open daily	Beginning May 17: 8:00 a.m.–Sunset	
Watchtower Stairs		9:00 a.m.–4:00 p.m.
Open daily	Beginning May 17: 8:00 a.m.–1/2 hour before Sunset	
Desert View Campground		
Opens mid-May or sooner, weather permitting		

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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