



# Badlands Visitor Guide

The official newspaper of  
Badlands National Park

2010 Issue



Photo by Rick Braveheart, Badlands Artist in Residence, Fall 2009

## Welcome to Badlands

Welcome to Badlands National Park! We are pleased to be able to help you enjoy what we believe to be one of the most spectacular, scenic, and interesting national parks in the country.

People have been awed and fascinated by Badlands for as far back as we know. Native American stories and legends show a recognition of badlands geology and landscape features, along with the unusual fossils found here. Early Europeans, homesteaders, ranchers, and the state of South Dakota also recognize this remarkable place, which eventually resulted in the designation of Badlands National Monument in 1929. By 1939 Badlands National Monument was established, and in 1978 Badlands National Monument was elevated to national park status.

As you plan and enjoy your visit here, consider spending some time in some of our less visited areas. The Sage Creek Rim Road has spectacular views, and the best chance of seeing wildlife including bison, deer, bighorn sheep, coyotes, pronghorn, prairie dogs, ferrets, eagles, hawks, and foxes. While your odds of seeing them all are slim, your odds of seeing at least three or more are good.

The South Unit welcomes you during summer months at the White River Visitor Center. The visitor center is managed and staffed by tribal rangers, who are interested in sharing their culture along with the spectacular scenery and natural resources found within the South Unit.

A hike on a trail, or participation in a ranger guided hike or talk will become part of your visit that you will remember long afterwards.

Enjoy your park! Rangers and staff are all here to help you make Badlands a visit to remember.

Stephen G. Thede  
Deputy Superintendent



NPS Photo

## Things to See and Do

### Plan Your Visit

- Drive the Highway 240 Loop Road (60 minutes).
- Take a side trip down Sage Creek Rim Road to Robert's Prairie Dog Town to see wildlife and experience spectacular views of the park (30 minutes).
- Hike a trail (see page 8 for a map of the trails that include descriptions, distances, and amount of time to allow).
- Attend the Night Sky Program (June - mid September) (60 minutes).
- Attend a ranger program, program listing on page 12 (June - mid September) (20 - 60 minutes).
- Stop by the Ben Reifel Visitor Center to watch the award winning park video and tour the exhibits (30 - 60 minutes).
- Take in a sunrise or sunset. They can be viewed from any of the overlooks or campgrounds located in the park (20 - 30 minutes).
- Stop by the White River Visitor Center (hours of operation on page 2) which is staffed by members of the Oglala Sioux Tribe (45 minutes - 1 hour).
- Tour the South Unit of the park. Be sure to get permission from landowners before crossing private land. A list of contacts is available at the White River Visitor Center (45 minutes - all day).
- Visit the new tipi village located between the Ben Reifel Visitor Center and the Cedar Pass Lodge.

## Remember These Numbers . . .

# 6

Maximum length of the leash (in feet) that must be on your dog if it is in the park. Look for more regulations on page 3.

# 7

Number of days your passenger vehicle entrance pass permits you to explore the Badlands. Stay a little longer!

# 45

Maximum speed limit on park roads. Lower speed limits are posted in heavy traffic areas.

# 100

Minimum distance in yards you should keep from park wildlife. Any time an animal reacts to your presence means you are too close.

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## Quick Facts about Badlands National Park

- Established as a National Monument in 1939
- Redesignated Badlands National Park in 1978
- Acreage: 244,000
- Wilderness: 64,144 acres

- Visitation: approximately one million visitors each year from all over the world

### Key Resources:

- Largest expanse of protected prairie ecosystem in the National Park system

- Considered one of the world's richest mammal fossil beds

- 50% of Badlands National Park is co-managed with the Oglala Lakota Nation, the second largest American Indian Reservation in the United States

- Badlands National Park and the Buffalo Gap National Grasslands are the most successful reintroduction sites for the black-footed ferret, one of the world's rarest mammals.

### Key Management Issues:

- Visitor and employee safety
- Reduction of exotic plant species
- Protection of fossil resources
- Maintenance of park facilities
- Preservation of over 50,000 artifacts and specimens in museum collections
- Reintroduction of native wildlife (pictured below)



Black-footed Ferret

Photo by Randy Matchett, US Fish and Wildlife Service



Swift Fox

DianeHargreaves.com



Bighorn Sheep

Photo by Teresa Zimmerman



Bison

DianeHargreaves.com

## Visitor Facilities

### Ben Reifel Visitor Center

**?** Located at park headquarters the Ben Reifel Visitor Center reopened in 2006 with new exhibits, a 97 seat, air conditioned theater, a new park film, *Land of Stone and Light*, and improved classroom and restroom facilities. Badlands Natural History Association sells postcards, books, posters, and other educational materials. Open year round.

#### Hours of Operation

|                           |                 |
|---------------------------|-----------------|
| April 18 - May 29         | 8 a.m. - 5 p.m. |
| May 30 - September 11     | 7 a.m. - 7 p.m. |
| September 12 - October 30 | 8 a.m. - 5 p.m. |
| October 31 - April 2011   | 8 a.m. - 4 p.m. |

**Badlands National Park is in the Mountain Time Zone.**

### White River Visitor Center

**?** Located on the Pine Ridge Reservation off Highway 27, this visitor center is operated by the Oglala Sioux Parks and Recreation Authority and is staffed by Tribal members. In 2007, new exhibits were installed by the National Park Service. Contact (605) 455-2878 for more information.

#### Hours of Operation

Early June through Early September 10 am - 4 pm

### Picnic Areas

**A** Picnic tables are located at Bigfoot Pass and Conata Picnic Areas in addition to tables at the White River Visitor Center. Bigfoot Pass and Conata Picnic Areas do not have water available.

**Remember that open campfires are not permitted.**

## Local Services

### Gas Stations and Convenience Stores

- Cactus Flat
- Interior
- Kadoka
- Philip
- Pine Ridge
- Rapid City
- Scenic
- Wanblee
- Wall

### Restaurants

- Cactus Flat
- Kadoka
- Philip
- Pine Ridge
- Rapid City
- Scenic
- Wall

### Motels and Campgrounds

- Cactus Flat
- Interior
- Kadoka
- Philip
- Pine Ridge
- Rapid City
- Wall

### Hospitals and Clinics

- Kadoka
- Philip
- Rapid City
- Wall

### Post Office

- Interior
- Kadoka
- Philip
- Pine Ridge
- Rapid City
- Scenic
- Wanblee
- Wall

### Cedar Pass Campground

**A** Located near the Ben Reifel Visitor Center, Cedar Pass Campground has 96 sites. Camping fees are \$14 per night per campsite. The campground is operated on a first come, first served basis and has a fourteen day limit. Cold running water, flush toilets, covered picnic tables, and trash containers are available. The campground does not have showers. A dump station is available with a \$1.00 fee per use. Campground hosts are on duty during the summer to assist with registration and provide information. Look for them in the afternoon and early evenings at the campground entrance booth. **Open campfires are not permitted.**

#### Group Camping

Four campsites are available in the Cedar Pass Campground for organized groups with a designated leader. The nightly fee is \$3.00 per person with a minimum fee of \$30.00. Advance reservations can be made by contacting Group Camping Reservations at: [www.CedarPassLodge.com](http://www.CedarPassLodge.com)

or write to:  
Cedar Pass Lodge  
20681 Hwy 240  
Interior, SD 57750

(605) 433-5460; fax (605) 433-5560

### Sage Creek Primitive Campground

**A** Open year round, access to this campground may be limited in winter and during the spring rainy season due to road conditions. The Sage Creek Rim Road is remote and unpaved. It is not recommended for large recreational vehicles. The campground is currently free and offers pit toilets and picnic tables. There is a fourteen day limit. There is no water available. **Open campfires are not permitted.**

### Cedar Pass Lodge

The only lodging, gift store, and restaurant in Badlands National Park, Cedar Pass Lodge provides visitors a distinctive collection of regional and handmade gifts, Native American crafts, and offers a memorable stay in this unique destination.

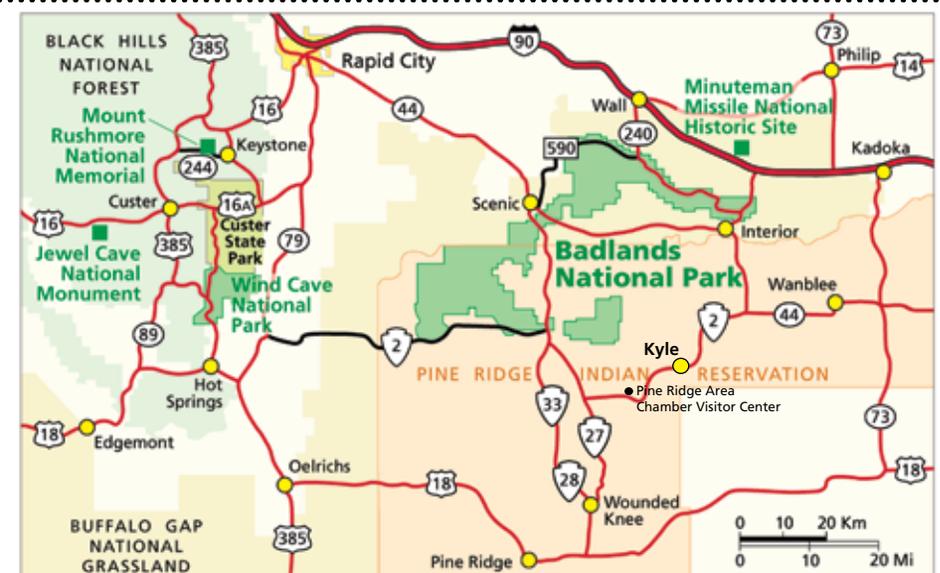
| Gift Shop Hours of Operation |                 |
|------------------------------|-----------------|
| April 17 - May 21            | 8 a.m. - 4 p.m. |
| May 22 - August 31           | 7 a.m. - 9 p.m. |
| September 1 - October 9      | 8 a.m. - 7 p.m. |

**The dining room closes 30 minutes before the gift shop.**

For additional information: [www.CedarPassLodge.com](http://www.CedarPassLodge.com) or write Cedar Pass Lodge, 20681 Hwy 240, Interior, SD 57750; (605) 433-5460; fax (605) 433-5560

### Accessibility

- The Ben Reifel Visitor Center and White River Visitor Center are both accessible to wheelchair users. Examples of fossils and rocks provide a tactile experience for all who enjoy handling objects, and is appropriate for the visually impaired.
- The Window Trail and the Door Trail are both accessible to wheelchair users.
- The Cedar Pass Campground has two accessible campsites. All campground restrooms are accessible. One group campsite is accessible.
- The Cedar Pass Lodge dining room and gift shop meet accessibility standards.
- Several summer ranger programs, including all talks and portions of the Geology Walk, are accessible to wheelchair users. Others include adaptations for visual or hearing impaired visitors.
- Ask at the Ben Reifel Visitor Center about the listening devices that can be used to aid in hearing the park film.
- A complete listing of accessible facilities is available at the Ben Reifel Visitor Center or online at: <http://www.nps.gov/bad/>.



For more information about these local communities, contact the Chambers of Commerce or South Dakota Tourism.

Interior City Council (605) 433-5445  
Kadoka Chamber 1-800-467-9217  
Philip Chamber (605) 859-2645  
Pine Ridge Chamber (605) 455-2685  
Rapid City Chamber 1-800-487-3223  
Wall Chamber (605) 279-2665  
South Dakota Tourism (605) 773-3301

[kadokacity@wccenet.com](mailto:kadokacity@wccenet.com)  
[ccphilip@gwtc.net](mailto:ccphilip@gwtc.net)  
[pracc@gwtc.net](mailto:pracc@gwtc.net)  
<http://www.rapidcitycvb.com>  
<http://www.wall-badlands.com>  
<http://TravelSD.com>

# Rules and Regulations

## Your Safety

- Summer is hot and dry. Carry and drink one gallon of water per person per day.
- Thunderstorms can produce lightning. During lightning storms, avoid lone trees and high places. Return to your car, if possible.
- Be careful on cliff edges and on badlands formations, especially when surfaces are wet.
- Wear clothing and sunscreen to protect yourself from the sun.
- Wear sturdy boots or shoes to protect your feet from cactus spines.
- Beware of the rattlesnakes that reside in the park. They can be found throughout the park and are venomous. Rattlesnakes avoid the sun by coiling in cracks and crevices or staying in the thick grasses. Wear closed toe leather shoes. Be careful where you place your hands and feet.
- Plan your trip carefully. Use the Badlands Visitor Guide to choose a trail within your abilities. Make informed decisions.
- Be careful when exploring buttes. The rock surface is very unstable. Falls are the most common cause of injury in the park. Most people find that it is easier to climb up than come down.
- Cell phones will not work in most of the park. Your safety depends on your own good judgement, adequate preparation, and constant attention.
- Winter weather can be very unpredictable. Sudden and dramatic weather changes are common. Check at the visitor center for weather updates.
- Protect yourself - dress in layers, watch for changing weather conditions, and let someone know about your travel plans.

## Protect Your Park

- Leave fossils, flowers, rocks, and animals where you find them. Collecting in the park is illegal and punishable by a fine and/or imprisonment. Report all unusual sightings and finds to park staff at the Ben Reifel or White River Visitor Centers.
- Preserve your heritage. Do not enter, alter, or deface archeological sites. Do not collect artifacts.
- All vehicles and bicycles must travel on designated roads.
- It is recommended that you stay on designated trails in high use areas such as Fossil Exhibit and Cliff Shelf Nature Trails.
- Observe the speed limit and watch for wildlife crossing the roads.
- Help the park maintain its high air quality rating; turn off your engine when you are away from your vehicle. Letting your vehicle idle is punishable by a fine.



NPS Photo

## Rules of the Road

- The speed limit is 45 miles per hour, unless posted otherwise.
- Seatbelts are required for all passengers at all times.
- When viewing wildlife drive cautiously and use pull outs to allow others to pass safely.
- Keep vehicles on established roads. Do not park on the grass. The underside of your vehicle can start a prairie fire.
- Pedestrians have the right of way. Vehicles must stop for pedestrians in crosswalks. It's the law.
- Gravel roads may be closed due to heavy rain or snow. They will become slick and impassable.

## Backcountry Camping & Hiking

Before you venture into the backcountry or wilderness, there are some things you should know:

- Permits are not currently required for overnight stays in the Badlands backcountry. Contact a staff member at the Ben Reifel Visitor Center or Pinnacles Entrance Station before setting out on an overnight trip for more information. Backcountry registers are located at the Medicine/Castle Trail Loop, Saddle Pass Trailhead, Conata Picnic Area, Sage Creek Basin Overlook, and the Sage Creek Campground.
- Twisted or fractured ankles are the most common serious injury sustained in Badlands National Park. Make sure you are wearing sturdy boots with good ankle support. The park is home to many burrowing animals. Watch your footing.
- Campfires are not allowed under any circumstances. Use a backpacking stove.
- Pets are not permitted on trails, in backcountry, or Wilderness Areas.
- The location of your campsite must be at least 0.5 miles from a road or trail and must not be visible from a roadway.
- There is little to no water available in the backcountry. The small amounts of water found are not drinkable or filterable due to the high sediment content. Always carry at least one gallon of water per person per day.
- All refuse must be carried out. Use the cat hole method to dispose of human waste. Dig a small hole 6 to 8 inches deep and a minimum of 200 feet from any water source. Since animals will often dig up cat holes and scatter the toilet paper, it is preferred that you pack out any toilet paper used. If you must bury toilet paper, use a minimal amount and bury with at least 6 inches of soil. Strain food particles from wastewater, pack out food scraps, and scatter remaining water more than 200 feet from any stream channel.
- Check the weather forecast. Severe thunderstorms are common during the summer, so are days above 100°F (38°C). September and early October are the best backpacking months.

## Camping and Campfires

- Campfires are not permitted due to the extreme danger of prairie wildfire.
- Camp stoves or contained charcoal grills can be used in the campgrounds or picnic areas.
- Wood gathering is not permitted.
- There are no hook-ups or showers available at the campgrounds in the park.



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## Bicycling

**Bicyclist Warning:** The Badlands Loop Road is narrow with many curves. Watch out for large RVs with extended mirrors.

- Bicycles are prohibited on park trails.
- Bicyclists are permitted on all park paved and unpaved roads and must obey all traffic regulations.
- Always ride with the flow of the traffic.
- Several steep passes make riding the Loop Road challenging.
- See and be seen. Wear bright colors and a helmet. A map of suggested routes is available at the Ben Reifel Visitor Center.

## Hunting

- Hunting is strictly prohibited in Badlands National Park.
- State laws pertaining to firearms are strictly enforced.

## Pets

- Pets are allowed only on paved or gravel roads and in developed areas such as campgrounds.
- Pets must be kept on a leash no longer than six feet at all times.
- They are not allowed on trails or in public buildings.
- Leaving an animal unattended and/or tied to an object is prohibited. Due to the extreme summer heat, do not leave your pet in your vehicle with out leaving a window cracked at least several inches or without water.
- Pet etiquette dictates always cleaning up animal waste and disposing of it in trash receptacles.

## Emergency? Call 911

## Road Conditions? Call 511

### Contact Us

**Mailing Address**  
Badlands National Park  
25216 Ben Reifel Road  
PO Box 6  
Interior, SD 57750

**Park Website**  
[www.nps.gov/bad/](http://www.nps.gov/bad/)

**Email**  
[badl\\_information@nps.gov](mailto:badl_information@nps.gov)

**Park Headquarters**  
605-433-5361

**Fax Number**  
605-433-5404

# Paleontology

## What is a fossil?

A fossil is a preserved sign of ancient life. Paleontologists study animal tracks and plants preserved over time, as well as bones that have been converted into fossils through natural chemical processes. Additionally, other signs such as feces and pollen have also been fossilized and are studied to help get a broader picture of life in prehistoric North America. The area in and around Badlands National Park has had a long association with research on fossil vertebrates. Scientists have been using this area as an outdoor laboratory for over 150 years.



Fossilized turtle shell

NPS Photo

## Field Work

For field work here at the Badlands, the paleontologist's tools of choice are soft bristled brushes, dental picks, and small trowels. Field specimens are "jacketed," or carefully encased in plaster and burlap for transport to the storage facility to await preparation for study or display. Fieldwork has a glamorous reputation from movies



NPS Photo

like Jurassic Park. Firmly in our minds is the idea of sun burnt scientists diligently working to uncover huge fossilized bones. However, reality is that for every hour of fieldwork, fossil preparators and other scientists spend twelve or more hours in a laboratory cleaning, repairing, and identifying each specimen. Badlands fossils range in size from elephant-sized mammals to microscopic rodent teeth. A single specimen may fill a storage building or one hundred specimens may fit inside a film canister.

## The Museum

Fossil specimens are maintained in storage facilities for research purposes or for display in museums and similar educational facilities. Each specimen is assigned a unique number for the larger collection of which it is a part. This process of cataloging specimens includes critical information such as where the specimen was found, when it was found, and



NPS Photo

identifies it with as much detail as possible. This process enables scientists of the future, who may have more information or improved technology, to continue learning about these important fossils.



NPS Photo

## Fossil Surveys at Badlands National Park

Since the year 2000, paleontological field teams have surveyed for fossils within Badlands National Park. As of this writing, 253 paleontological localities have been documented. Plans are to expand the surveys to other parts of the park and develop one of the surveyed sites into a new fossil excavation in 2012. All fossil surveys are completed in close consultation with geologists so that individual rock layers can be carefully mapped and ancient environments can be determined. The park has developed a database to store all locality information. Field crews use GPS units to record the location of individual fossil sites. All fossil localities are entered into the Park GIS database. This summer, staff at Badlands National Park will partner with faculty at the South Dakota School of Mines and Technology to measure the rates of erosion at various rock formations throughout the park. Erosion rates will help field crews determine how fast fossil sites erode away and how quickly they need to be documented and excavated.



NPS Photo



Archaeotherium skeleton  
NPS Photo

## What's Up with the Pig Dig?

After all of the fossils were excavated, prepared, and curated, one of the premier fossil sites, known as the Pig Dig closed in 2008. For fifteen field seasons, the National Park Service has worked with the South Dakota School of Mines and Technology on the excavation and documentation of 33 million year old fossils. Believe it or not, there is still more work to be completed. Badlands National Park staff plan to develop wayside exhibits describing the history and scientific significance of the site. The exhibits will be on site near the Conata Picnic Area and will feature a mural which depicts the area 33 million years ago. The mural and exhibits should be completed by 2012. Plans are also being made to include the Pig Dig within a series of scientific publications and a new book on the White River Badlands



DianeHargreaves.com

## Protecting Fossil Resources

You can help protect paleontological resources here and anywhere you travel by following these tips:

- Leave fossils where you find them. It's tempting to pick them up and take them with you, but don't. Removing them from their context destroys much of the information critical to scientists. Context refers to where they are found geologically and in what position the fossils are found.
- Be an informed visitor. Be familiar with current issues in paleontology. Once you watch for fossils in the news, you'll find them discussed almost daily.

# Badlands Geology

Deep canyons, towering spires, and flat-topped tables can all be found among Badlands buttes. Yet, despite their complex appearance, they are largely a result of two basic geologic processes: deposition and erosion.

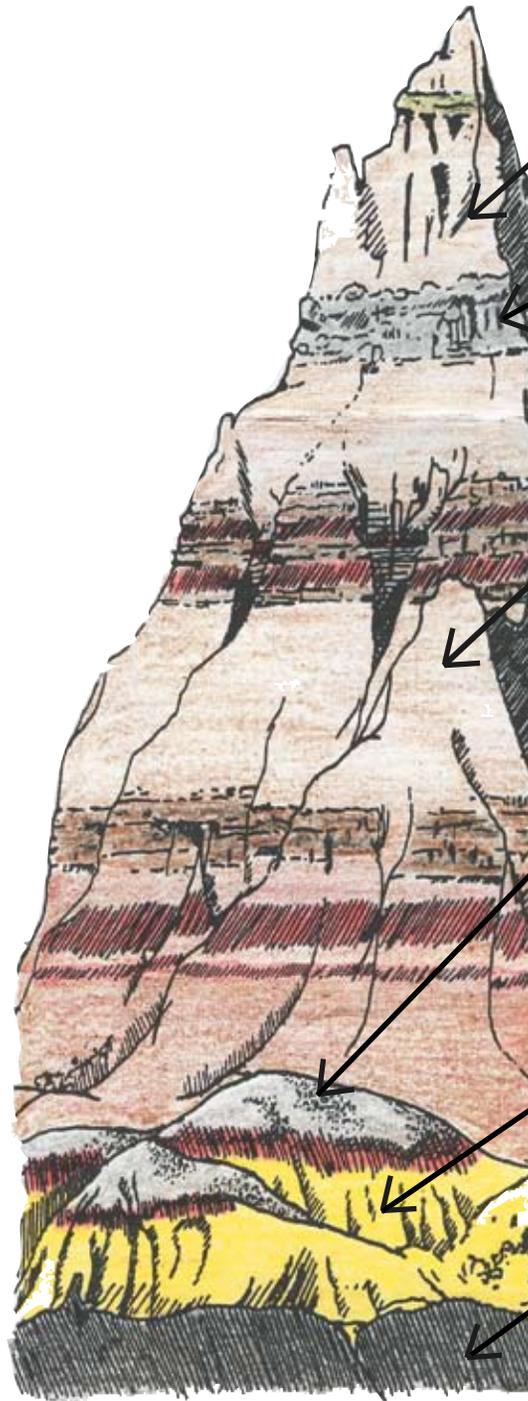
The serrated Badlands terrain did not begin eroding until about 500,000 years ago when water began to cut down through the rock layers, carving fantastic shapes into what had been a flat floodplain. The ancient fossil soils, buried for millions of years, became exposed once again. Many of the layers are gently warped and faulted due to mountain building activities that formed the Black Hills, 70 miles to the west.

Erosion is ongoing. Every time it rains, more sediment is washed from the buttes. One day, a peak may tower above the land; the next, a storm may weaken it just enough for it to crash to the ground. While the Badlands are long lasting in human terms, they are short lived in a geologic time scale. Evidence suggests that they will erode completely away in another 500,000 years, giving them a life of one million years. Compare that to the age of the earth, which is approximately 4.6 billion years old. Even the Rocky Mountains, considered young, started to rise only 70 million years ago. On average, Badlands buttes erode one inch each year. However, change can occur much slower or faster.

As the Badlands buttes erode, some of the sediment is washed onto the prairie below, building up its level while the rest is carried by small streams to the White, Bad, and Cheyenne Rivers. These tributaries flow into the Missouri River, which drains into the Mississippi River. Eventually, some Badlands sediments will travel as far as the Gulf of Mexico.

The Loop Road hugs the Badlands wall, a long, narrow spine of formations that stretch 60 miles from Kadoka west towards the town of Scenic. Wind, rain, and freeze/thaw action have gradually worn down the badlands sediments, leaving the Badlands Wall behind. As erosion has continued, the wall has retreated from the three major drainages. The town of Wall, South Dakota takes its name from this feature that dominates the horizon.

A quick look at the buttes will show that the Badlands were deposited in layers. These layers formed soft, sedimentary rocks, composed of minute grains of sand, silt, and clay that have been cemented into solid form. Geologists study sedimentary rocks to determine what type of environment caused the material to accumulate. Layers similar in character are grouped into units called formations with the oldest layers at the bottom.



The lighter colored **Sharps Formation** was primarily deposited from 28 to 30 million years ago by wind and water as the climate continued to dry and cool. Volcanic eruptions to the west continued to supply ash during this time. Today, the Brule and Sharps form the more rugged peaks and canyons of the Badlands.

As the Oligocene Epoch continued, a thick layer of volcanic ash was deposited, forming the bottom layer of the Sharps Formation. This **Rockyford Ash** serves as a boundary between the Brule and Sharps.

During the Oligocene Epoch, between 30 to 34 million years ago, the tannish brown **Brule Formation** was deposited. As the climate began to dry and cool after the Eocene the forests gave way to open savannah. New mammals such as oreodonts (sheep-like, herd mammals) began to dominate. Bands of sandstone interspersed among the layers were deposited in channels and mark the course of ancient rivers that flowed from the Black Hills. Red layers found within the Brule Formation are fossil soils called *paleosols*.

The greyish **Chadron Formation** was deposited between 34 to 37 million years ago as a river flood plain that replaced the sea. Each time the rivers flooded, they deposited a new layer on the plain. Alligator fossils indicate that a lush, subtropical forest covered the land. However, mammal fossils dominate. The Chadron is known for large, rhinoceros-like mammals called titanotheres. This formation can be recognized because it erodes into low, minimally vegetated grey mounds.

The sea drained away with the uplift of the Black Hills and Rocky Mountains, exposing the black ocean mud to the air. Upper layers were weathered into a yellow soil, called **Yellow Mounds**. The mounds are an example of a fossil soil, or *paleosol*.

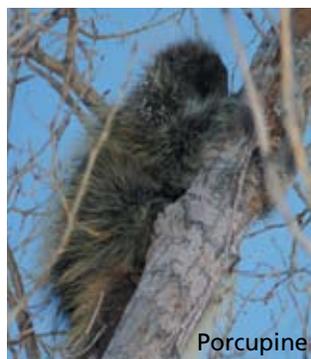
The oldest formation exposed in Badlands is the **Pierre Shale**. These black layers were deposited between 69 and 75 million years ago during the Cretaceous Period when a shallow, inland sea stretched across what is now the Great Plains. Sediment filtered through the seawater, forming a black mud on the sea floor that has since hardened into shale. Fossil clams, ammonites, and sea reptiles confirm the sea environment.

## Badlands Wildlife

**Please do not feed the wildlife. Human food makes animals dependent on people for food and can make them aggressive.**



Coyote  
Photo by Mike Schroeder



Porcupine  
Photo by Julie Rice, 2008 VIP



Bighorn Sheep  
Photo by Mike Schroeder



Bobcat  
NPS Photo



Black-billed Magpie  
NPS Photo



American Bison  
NPS Photo



Prairie Rattlesnake (venomous)  
DianeHargreaves.com



Blacktailed Prairie Dog  
Photo by Mike Schroeder



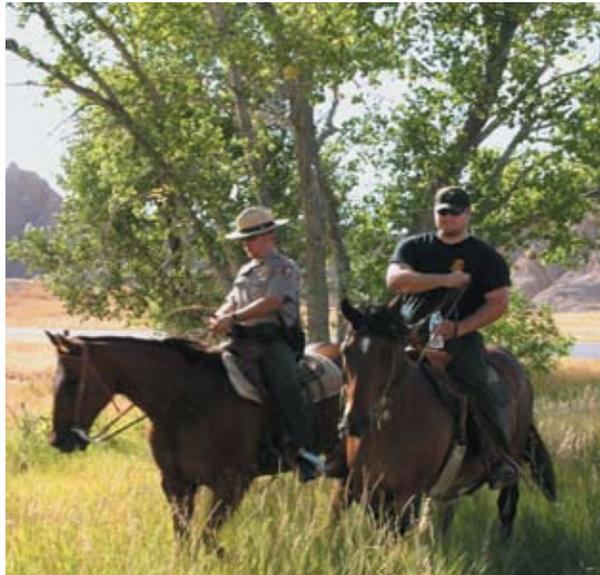
Black-footed ferret  
Photo by Randy Matchett, US FWS



Swift Fox  
DianeHargreaves.com

# Horse Use in Badlands

The Badlands Wilderness Area is located in the Sage Creek drainage and consists of 64,000 acres of eroded spires and mixed grass prairie, offering prime horseback riding terrain in the park. Although most riders confine themselves to the Wilderness Area, horseback riding is allowed anywhere in the park except on marked trails, roads, highways, and developed areas. For day ride access, vehicles and horse trailers may be parked at overlooks and parking areas. Off road driving is strictly prohibited. There are no designated riding trails in the park but topographic maps are available for purchase at the bookstore, located in the Ben Reifel Visitor Center.



NPS photo

- Only certified weed free hay or processed horse feed products may be brought into the park.
- Horses and pack animals are not allowed to run loose, be loose herded, or trailed.

- The tying of horses and pack animals to any living or dead feature that causes damage to the feature, vegetation, or soil is prohibited.
- Picketed horses and pack animals shall not be kept within 100 feet of trails, campsites, or water sources.
- Picket pins should be packed in. Picket pin sites must be moved frequently to prevent overgrazing or other damage to vegetation. The pins must be pulled out of the ground prior to leaving camp.
- Horse and pack animal manure must be completely removed from the campground and must be well scattered in any other grazing areas in the park.
- If a horse or pack animal is lost or dies within park boundaries, the loss must be reported as soon as possible to park staff.
- Dogs and other pets are not allowed in the Badlands Wilderness Area.

A portion of the Sage Creek Campground is designated for horse use. A watering hole known as CCC Spring is located about ½ mile southwest of the campground. Hitching posts are provided. Riders must provide weed free hay or pellets for feed. Horses should not be allowed to run free or be picketed in the campground. No fires are allowed, except in contained grills. The campground limit is 14 consecutive nights.

No commercial horse rental or day rides are available in Badlands National Park. Local businesses offer day rides outside the park and outfitters may offer overnight backcountry trips under a commercial use license. For more information, contact South Dakota Tourism or local chambers listed on page 2 of this paper.

## How Far To...?

### South Dakota Towns & Cities

|             |           |
|-------------|-----------|
| Buffalo Gap | 102 miles |
| Custer      | 120 miles |
| Deadwood    | 122 miles |
| Hermosa     | 122 miles |
| Hot Springs | 148 miles |
| Interior    | 2 miles   |
| Kadoka      | 26 miles  |
| Philip      | 34 miles  |
| Pine Ridge  | 83 miles  |
| Rapid City  | 88 miles  |
| Scenic      | 38 miles  |
| Sioux Falls | 280 miles |
| Spearfish   | 131 miles |
| Sturgis     | 110 miles |
| Wall        | 30 miles  |

### Out of State Cities

|                 |           |
|-----------------|-----------|
| Denver, CO      | 490 miles |
| Minneapolis, MN | 552 miles |
| Omaha, NE       | 458 miles |

### National & State Parks

|                       |             |
|-----------------------|-------------|
| Minuteman Missile NHS | 8 miles     |
| Bear Butte State Park | 120 miles   |
| Custer State Park     | 125 miles   |
| Devils Tower NM       | 197 miles   |
| Grand Canyon          | 1,148 miles |
| Grand Teton NP        | 628 miles   |
| Jewel Cave NM         | 148 miles   |
| Mount Rushmore        | 99 miles    |
| Rocky Mountain NP     | 475 miles   |
| Theodore Roosevelt NP | 343 miles   |
| Wind Cave NP          | 132 miles   |
| Yellowstone NP        | 574 miles   |

### Attractions

|                             |           |
|-----------------------------|-----------|
| Wounded Knee via Scenic     | 82 miles  |
| Wounded Knee via Kyle       | 67 miles  |
| Crazy Horse Monument        | 114 miles |
| Black Hills National Forest | 75 miles  |

# Spotlight on Programs

## Night Sky & Solar Viewing Programs

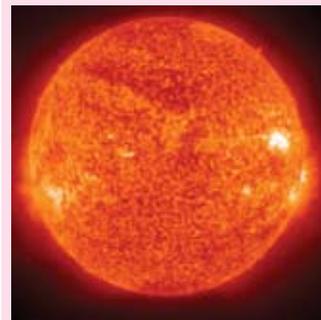


Photo: National Oceanic and Atmospheric Administration (NOAA)

### Sun Fun

Ask at the Ben Reifel Visitor Center for times and locations of program.

Come view the sun through a solar telescope.

### Night Sky Program

Friday, Saturday, Sunday, Monday  
Cedar Pass Amphitheater

Bring your binoculars, the ranger will help you locate constellations, stars, and planets. Program starts when the sky is dark!



Photo: NASA

## Night Sky & Solar Equipment



16 inch Dobsonian telescope purchased in 2009.

NPS Photo

Coronado solar telescope purchased in 2008.



NPS Photo

## Tipi Village

Stop by the Tipi Village, located across from the Ben Reifel Visitor Center, to experience the Oglala Lakota Sioux culture.

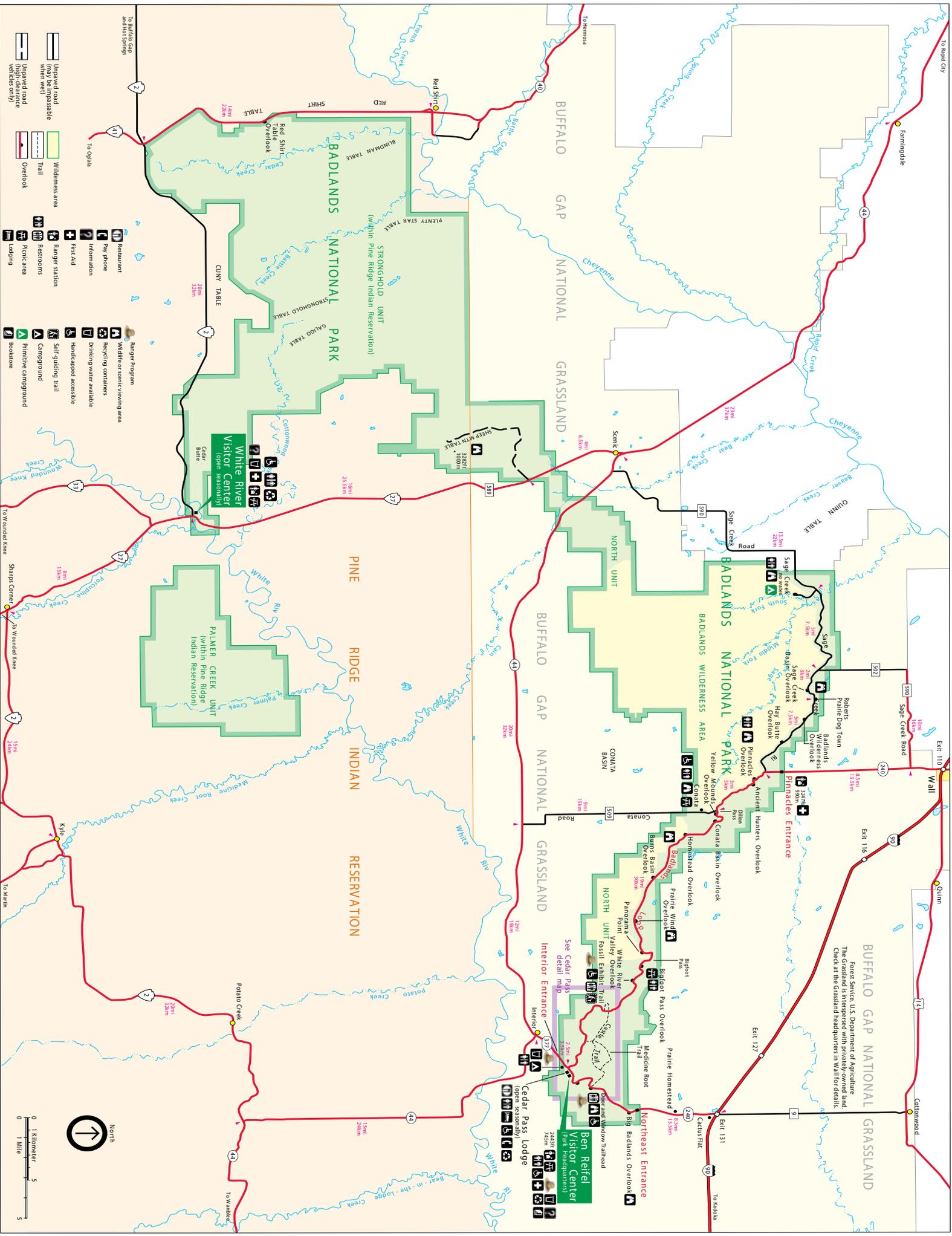


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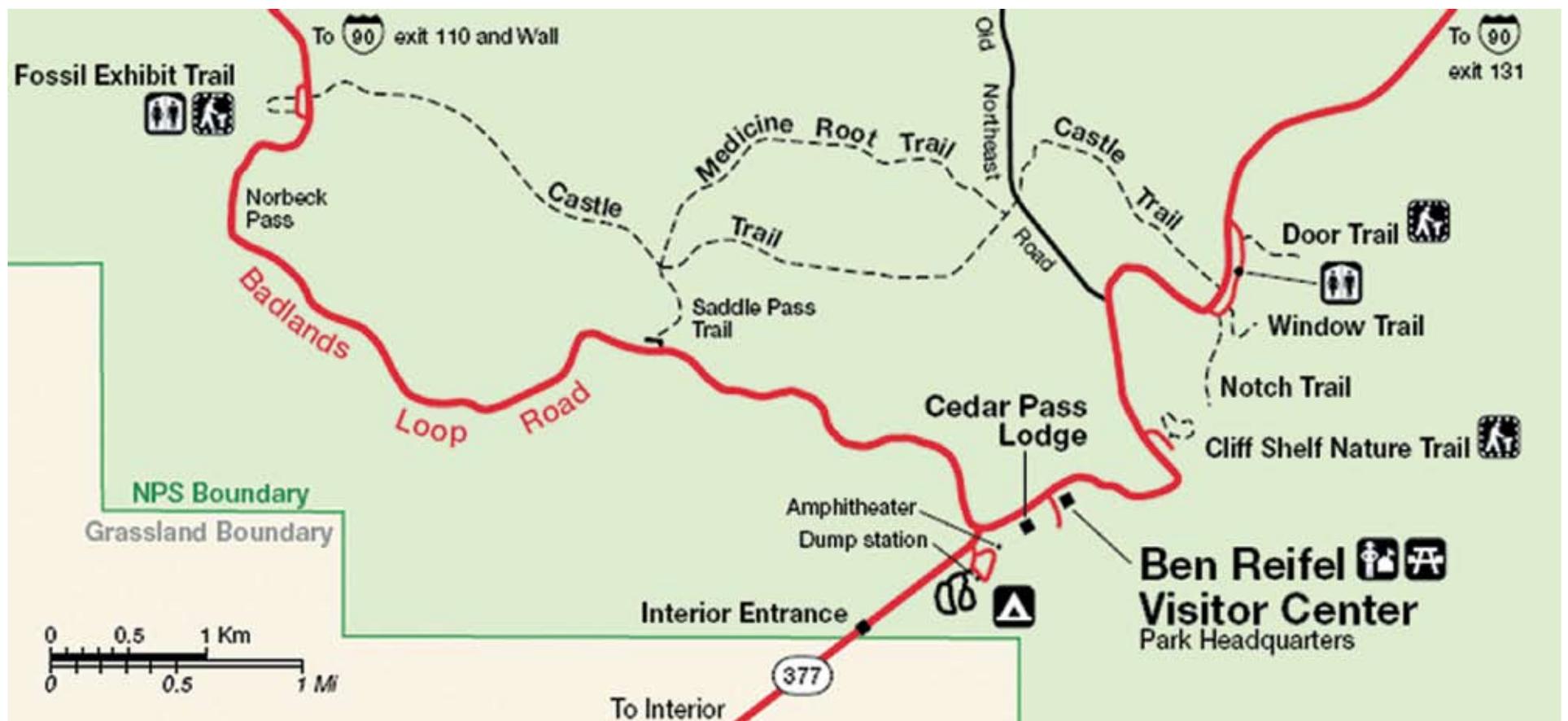


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# Park Map



# Hiking in the Park



## Door Trail

.75 miles/1.2 km (round trip)

20 minutes

Easy. An accessible ¼ mile boardwalk leads through a break in the Badlands Wall known as “the Door” and to a view of the Badlands. From there, the maintained trail ends. Travel beyond this point is at your own risk. Watch for drop offs.

## Window Trail

.25 miles/.40 km (round trip)

20 minutes

Easy. This short trail leads to a natural window in the Badlands Wall with a view of an intricately eroded canyon. Please stay on the trail.

## Notch Trail

1.5 miles/2.4 km (round trip)

1 1/2 - 2 hours

Moderate to strenuous. After meandering through a canyon, this trail climbs a log ladder and follows a ledge to “the Notch” for a dramatic view of the White River Valley. Trail begins at the south end of the Door and Window parking area. Watch for drop offs. Not recommended for anyone with a fear of heights. Treacherous during or after heavy rains.

## Castle Trail

10 miles/16 km (round trip)

5 hours

Moderate. The longest trail in the park begins at the Door and Window parking area and travels five miles one way to the Fossil Exhibit Trail. Relatively level, the path passes along some Badlands formations.

## Cliff Shelf

.5 miles/.8 km (round trip)

1/2 hour

Moderate. This loop trail follows boardwalks and climbs stairs through a juniper forest perched along the Badlands Wall. A small pond occasionally exists in the area and draws wildlife, such as deer or bighorn sheep. Climbs approximately 200 feet in elevation. Please stay on the trail.

## Saddle Pass

.25 miles/.40 km (round trip)

1/2 - 1 hour

Strenuous. This short trail climbs up the Badlands Wall to a view over the White River Valley. The trail ends where it connects with the Castle and Medicine Root Loop Trails.

## Medicine Root Loop

4 miles/6.4 km (round trip)

2 hours

Moderate. This generally rolling spur trail connects with the Castle Trail near the Old Northeast Road or at the intersection of the Castle and Saddle Pass Trails. Trail users are provided the opportunity to explore the mixed grass prairie while enjoying views of the Badlands in the distance. Watch for cactus.

## Fossil Exhibit Trail

.25 miles/.40 km (round trip)

20 minutes

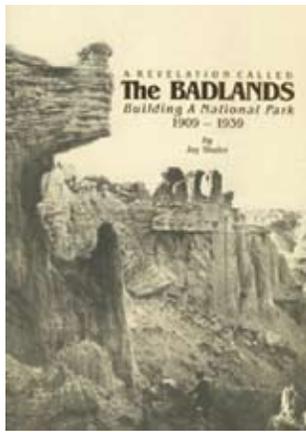
Easy. Fully accessible trail features fossil replicas and exhibits of now extinct creatures that once roamed the area.

## Badlands Weather

| Month                          | January | February | March | April | May  | June | July | August | September | October | November | December |
|--------------------------------|---------|----------|-------|-------|------|------|------|--------|-----------|---------|----------|----------|
| Average High Temperatures      | 34°F    | 40°F     | 48°F  | 62°F  | 72°F | 83°F | 92°F | 91°F   | 81°F      | 68°F    | 50°F     | 39°F     |
| Average Low Temperatures       | 11°F    | 16°F     | 24°F  | 36°F  | 46°F | 56°F | 62°F | 61°F   | 51°F      | 39°F    | 26°F     | 17°F     |
| Average Precipitation (inches) | 0.29    | 0.48     | 0.90  | 1.83  | 2.75 | 3.12 | 1.94 | 1.45   | 1.23      | 0.90    | 0.41     | 0.30     |

Weather warnings and forecasts for Badlands National Park and vicinity can be heard on NOAA Weather Radio 162.450 MHZ. Forecasts can also be obtained by calling 605-341-7531.

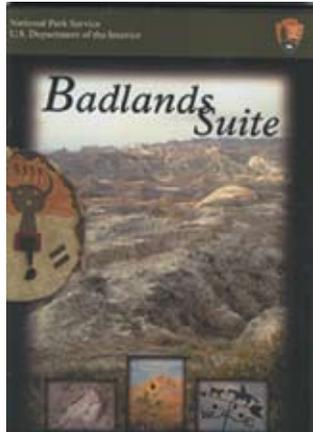
# Shop Badlands Natural History Association



**A Revelation Called the Badlands Building a National Park 1909 – 1939**  
\$4.95 \*\*

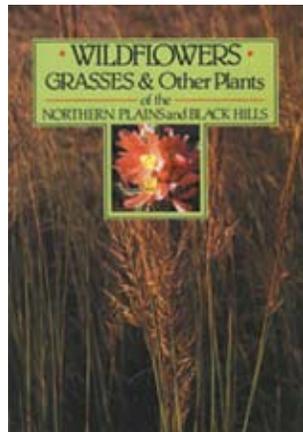
Author: Jay Shuler

The National Park Service and South Dakota State archives provided the photos and history of the struggle to protect the White River Badlands as a national park.



**Badlands Suite**  
\$19.99 \*\*  
DVD includes:  
Land of Stone and Light  
From Field to Lab  
Multiple Perspectives

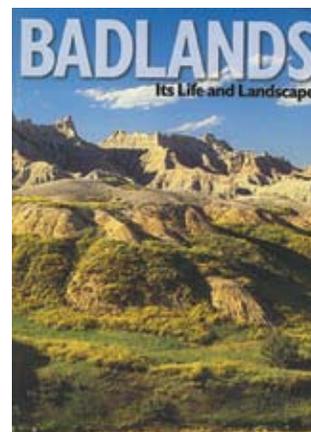
This DVD takes you on a journey into the White River Badlands of South Dakota. In three different presentations, become acquainted with the people of this place.



**Wildflowers, Grasses, & Other Plants of the Northern Plains and Black Hills**

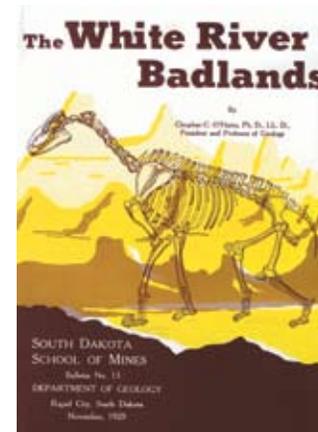
Author: Theodore Van Bruggen  
\$8.95 \*\*

Color photographs and descriptions of over 300 plants found in Badlands National Park and the surrounding areas.



**Badlands Its Life and Landscape**  
Author: Joy Keve Hauk  
\$7.95 \*\*

Packed with information on geology, paleontology, human history, flora, and fauna, this booklet has numerous identifying photos.



**The White River Badlands**  
Author: Cleophas C. O'Harra Ph.D., LL. D., President and Professor of Geology  
\$9.95 \*\*

This is the only book in print specifically about the geology and paleontology of the White River Badlands of South Dakota at present.

**\*\*All prices are subject to change.**



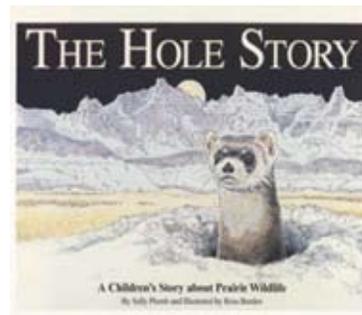
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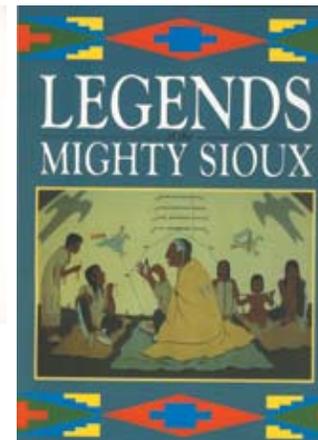


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**The Hole Story**  
Author: Sally Plumb  
\$6.95 \*\*

Wonderful illustrations accompany this children's story of life on the prairie. Learn about Kit, an endangered black-footed ferret, and his struggle to survive when he gets reintroduced to the wild in Badlands National Park.



**Legends of the Mighty Sioux**  
\$7.95\*\*

A compilation of forty-five legends of the famous Sioux Indians of South Dakota. All of the legends pertain to the Sioux' traditional lore, from tales told around the campfire, to legends associated with places or mountains, and battle and hunting legends.

**Check out the new Badlands Natural History Association website: [www.badlandshna.org](http://www.badlandshna.org).**

## Join Badlands Natural History Association

The Badlands Natural History Association, or BNHA, was established in 1959 to work in cooperation with the National Park Service in furthering its scientific, educational, historical and interpretive activities. Since then, BNHA has contributed over \$1 million to the park. Sales of BNHA items in the park visitor center results in donations to the park's education and resource management programs.

BNHA is a nonprofit organization that has an active membership program. To become a member of BNHA, complete the membership form and submit with payment of dues at the Ben Reifel Visitor Center or mail to BNHA; P.O. Box 47; Interior, South Dakota 57750. Members receive a 15% discount on all sales of BNHA merchandise and will receive a discount at most other National Park Service bookstores.

Your membership dues are used directly to enhance the experience of visitors to the area. An investment for the future, your contribution is a perpetuation of the National Park idea.

Your membership dues will be gratefully received, immediately acknowledged, and efficiently used. Your membership dues are tax-deductible.

**Individual Association Membership** \$25 per person per calendar year. Includes membership card allowing you a 15% discount at BNHA stores and discounts with other cooperating associations in the U.S. and special mailings through the year.

**Lifetime Membership** \$250 per person. Includes membership card allowing you a 15% discount at BNHA stores and discounts with other cooperating associations in the U.S. and special mailings.

Name \_\_\_\_\_

Address \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

Phone \_\_\_\_\_ Amount Enclosed \_\_\_\_\_

# Entrance Fees

|   |                          |                       |                             |                                  |
|---|--------------------------|-----------------------|-----------------------------|----------------------------------|
| <b>Per Vehicle Entry</b><br>Private Non-Commercial Vehicle  | 7 Days                   | \$15.00               |                             |                                  |
| <b>Motorcycle</b><br>Flat fee   | 7 Days                   | \$10.00               |                             |                                  |
| <b>Per Person Entry</b><br>Bicycle, Non-Commercial Bus Passenger  | 7 Days                   | \$7.00                |                             |                                  |
| <b>Badlands Park Pass</b><br>Unlimited entry to Badlands NP   | 1 Year                   | \$30.00               |                             |                                  |
| <b>America The Beautiful Pass</b><br>Valid for unlimited entry to designated federal fee areas                                      | 1 Year                   | \$80.00               |                             |                                  |
| <b>Senior Pass</b><br>62 & Over US Citizen<br>Valid for entrance to designated federal fee areas & half price on camping            | Lifetime                 | \$10.00               |                             |                                  |
| <b>Access Pass</b><br>Permanently Disabled US Citizen<br>Valid for entrance to designated federal fee areas & half price on camping | Lifetime                 | FREE                  |                             |                                  |
| <b>Commercial Tour</b><br>Based On Seating Capacity   | Sedan<br>\$25 *<br>(1-6) | Van<br>\$50<br>(7-15) | Mini-Bus<br>\$60<br>(16-25) | Motorcoach<br>\$150<br>(26 & up) |

\* plus \$7 per person for SEDAN ONLY



Annual Pass



Access Pass



Senior Pass

## INTERAGENCY PASS PROGRAM

The following passes are available at Badlands National Park:

### America the Beautiful Pass

\$80 - Valid for one year from month of purchase  
This nontransferable annual pass covers the entrance fees or standard amenity fees at sites managed by the National Park Service, U.S. Forest Service, Bureau of Land Management, Bureau of Reclamation, and U.S. Fish and Wildlife Service. It does not cover camping fees, parking fees, user fees (i.e. cave tours), concession activities, or cooperating association bookstore charges.

### Senior Pass

\$10 - Valid for holder's lifetime  
This nontransferable passport allows lifetime entrance to all National Park Service, U.S. Forest Service areas, U.S. Fish and Wildlife Service, Bureau of Reclamation, and Bureau of Land Management areas. It also entitles the bearer to a 50% discount on camping fees in federal campgrounds. It cannot be used at concession facilities or cooperating association bookstores. Identification must be provided at time of purchase.

### Access Pass

Free - Valid for holder's lifetime  
This nontransferable pass allows lifetime entrance to all National Park Service, U.S. Forest Service, U.S. Fish and Wildlife Service, Bureau of Reclamation, and Bureau of Land Management areas to United States citizens or permanent residents who are blind or permanently disabled. It also entitles the bearer to a 50% discount on camping fees in federal campgrounds. It cannot be used at concession facilities or cooperating association bookstores.

# Become a Junior Ranger!



NPS Photo

Are you ready to climb out of that car and have some fun with a ranger? Children ages 2 and older can become a Badlands National Park Junior Ranger! Junior Rangers are kids like you - national park explorers, fun seekers, and concerned citizens. There are two ways to become a Junior Ranger and earn your official Badlands badge.

Join us for the 10:30 a.m. Junior Ranger Program (June - August). Meet at the Ben Reifel Visitor Center for 45 minutes of laughs and learning. The program is different every day, but here are a few things you might do:

- Go on a nature hike.
- Play guessing games to learn characteristics of prairie plants and animals, then hunt around the prairie for tracks and signs.
- See Badlands fossils and discover what paleontologists do.

Complete a Junior Ranger Booklet (year round). You can pick up your free Junior

Ranger Booklet at the Ben Reifel Visitor Center. Return the booklet to a ranger when you have completed the activities and you will be awarded your badge. You can also complete the booklet as you travel through the park. Mail it back to us for review and we will return it with your Junior Ranger badge enclosed.

Parents! Junior Ranger Programs are fun for the whole family. Please attend the 10:30 a.m. Junior Ranger Program with your children. Your family can collect Junior Ranger badges at over 300 national parks.

Look for online adventures at:

[www.nps.gov/webrangers](http://www.nps.gov/webrangers).



# Your Entrance Fees At Work

Badlands National Park is a designated Federal Recreation Fee Area. Fees collected at Badlands directly benefit this park and other units of the National Park Service. Fees paid at Badlands are unique in that under special agreement fees are split with the Oglala Sioux Tribe.

Some of the projects that have been funded by fees at Badlands include:

- Upgraded comfort stations in the Cedar Pass Campground
- Park-wide trail improvements

- New exhibits and park film at the Ben Reifel Visitor Center
- Installation of restroom facilities at overlook areas
- Modernization of park bison corrals
- Support for reintroduction of bighorn sheep and black-footed ferret within the park

# Exploring the South Unit

In 1976, Badlands National Monument entered into an agreement with the Oglala Lakota Nation to co-manage and protect 122,000 acres that had been used as an aerial bombing range during World War II. This doubled the size of the Monument and led Congress to redesignate the area as Badlands National Park in 1978. The new Badlands National Park was subdivided into two units: the North Unit, consisting of park land north of Highway 44, and the South Unit, park land south of Highway 44.

The South Unit contains many sites sacred to the Oglala Lakota and other American Indian cultures. Please show respect by not touching or removing objects tied to trees and shrubs. All artifacts must be left in place. Remember to practice Leave No Trace principles at all times in the Stronghold District.

The White River Visitor Center was opened in 1978 and has remained open during the summer months to provide orientation to the South Unit and Pine Ridge Indian Reservation.

Due to the quantity of unexploded ordnance that continues to litter the areas used for bombing practice, a multi-agency

task force is working toward clearing the South Unit of these devices. Please contact a ranger if you find unexploded ordnance. Cellular phones can detonate these devices.

The South Unit remains largely undeveloped and lacks access points, such as roads and trails. The South Unit is a protected natural area and is not managed as a four-wheel-drive recreation area. Travelers must remain on existing primitive road tracks. Do not leave these tracks. We encourage anyone interested in backcountry hiking or camping in the South Unit to notify the ranger at the White River Visitor Center to ensure your safety and that you are not trespassing on private lands. Explorers must often cross private land to access the public land. Always obtain permission from landowners for vehicular or foot access before setting out for Cuny Table, Stronghold Table, and Palmer Creek. A list of land owners is available at the White River Visitor Center. Be prepared with alternative destinations if land owners do not grant permission to cross their property. Hikers in the South Unit must be experienced map readers. Plan on a minimum of two days to hike in and out of the remote Palmer Creek area.

One of the few designated roads is the Sheep Mountain Table Road, 4 miles south of the town of Scenic on Pennington County Road 589. The stunning views from windswept Sheep Mountain Table are accessible under dry conditions, but the road is impassable when wet or snow covered (high clearance vehicles recommended). Please use caution along the unstable cliff edges of the table. Sheep Mountain Table is designated a day use area. Overnight camping is not allowed.



NPS Photo



NPS Photo

# Minuteman Missile

National Park Service  
U.S. Department of the Interior

National Historic Site  
South Dakota



## “Ace In The Hole”

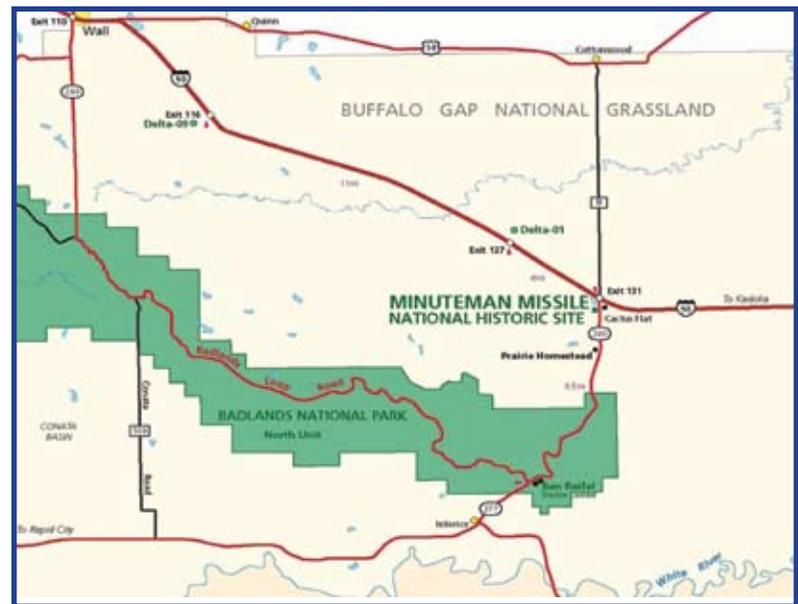
President Kennedy referring to Minuteman Missiles, 1962

Here you will find remnants of the Cold War, including an underground launch control center and a missile silo. Minuteman missiles held the power to destroy civilization as we know it. Yet the same destructive force acted as a deterrent which kept the peace for three decades. Minuteman Missile makes it possible to revisit a time when the threat of nuclear war haunted the world.

Due to innovative solid-fuel technology, the Minuteman was deployed in remote underground silos and could be launched by crews stationed at launch control centers miles away. Designed to travel over the North Pole and arrive at its target thirty minutes after the launch command was given, its 1.2 megaton warhead carried the explosive equivalent of over one million tons of dynamite.



NPS Photo



## You Have Questions – We Have the “Top Secret” Answers



NPS Photo

Because nuclear weapons sites were under tight security, most civilians developed their understanding of missiles from popular movies like “War Games” (1983) and “Dr. Strangelove Or: How I Learned to Stop Worrying and Love the Bomb” (1964). As is often the case, the “Hollywood version” of life around missiles could be misleading and inaccurate. How much of the truth do you really know?

1. Were the missiles “top secret?”
2. Were the missiles launched by pressing a red button?
3. If a missileer did not execute a launch command would their partner shoot them?
4. Did the missileers know where the missiles were going?
5. How many missileers did it take to launch the missiles?
6. Were most missiles aimed at cities?

The answers to these questions cannot be found anywhere on this page. **The only place to find these answers** is at Minuteman Missile National Historic Site’s visitor center. It is now time for you to come visit Minuteman Missile and ask a ranger these questions and learn the real truth about nuclear missiles.

### How do I get to Minuteman Missile National Historic Site?

The Minuteman Missile Visitor Center is a great starting point for tours to the site and where you can view the park film. It is located off Interstate 90, exit 131, beside the Badlands Trading Post (Conoco gas station). To get there from the Badlands National Park Visitor Center, take South Dakota Highway 240 8.5 miles north towards Interstate 90. Just before reaching the interstate you will see the Badlands Trading Post on the left. The Visitor Center is adjacent to the trading post.

### What are the hours for the Minuteman Missile Visitor Center?

The visitor center is open from 8:00 a.m. to 4:30 p.m., Monday through Saturday and closed on Sunday during the Summer season (Memorial Day - Labor Day). The rest of the year, the visitor center is open Monday through Friday from 8:00 a.m. to 4:30 p.m..

### Can we see the missile silo?

Launch Facility Delta-09 (the missile silo) is open from Monday through Saturday May 3rd - October 29 from 8:00 - 4:00 p.m. with no reservations required. A ranger will be stationed on site intermittently to provide informal programs and answer questions. When a ranger is not at the silo, a self-guided cell phone tour is available to guide your visit to the launch facility (missile silo) Delta-09. Visitors can access up to ten tour stops via their own cell phone. These stops offer information about the silo structures and operations during the Cold War. Delta-09 is located on the south side of Interstate 90, exit 116. Turn south on to the county road and the silo is ½ mile on the right.

### What else can we see at Minuteman Missile?

Open Houses are given every Thursday throughout the summer from 9:00 a.m. - Noon. Reservations are not required! Visitors will be able to get an abbreviated ranger guided tour of Launch Control Facility Delta-01. This tour will include the opportunity to go into the underground Launch Control Center and learn how Minuteman nuclear missiles could have been launched during the Cold War.

Formal tours require a reservation. They are offered Monday through Saturday during the summer. Tour space, except for open house days, is extremely limited; it is best to make reservations in advance by calling 605-433-5552. Tours are also given once a day, Monday through Friday from October 1st - April 30th at 10:00 a.m.

## Got Kids? Get A Patch!

Come to the Minuteman Missile Visitor Center to get a Junior Ranger Program. We have programs for kids 7-11 years of age and 12 and up! When they successfully complete the program, a National Park Service ranger will issue an official certificate and a Junior Missileer patch!

# Ranger Programs



These programs run from Sunday, May 30 through Saturday, September 11, 2010

 = accessible

Badlands National Park is in the Mountain Time Zone. Programs are presented at several locations throughout the park. These locations are identified in the park newspaper and park brochure. You can also find them by watching for white signs announcing programs along the Loop Road.

## Geology Walk

**8:30 a.m. Daily**

Explore the geologic story of the White River Badlands on this 45 minute walk. Meet at the Door Trailhead located at the far north end of the Doors/Windows parking area two miles south of the Northeast Entrance Station on the Badlands Loop Road. Wear a hat and closed-toe shoes. Terrain is varied.



## Fossil Talk

**10:30 a.m., 1:30 p.m., 3:30 p.m. Daily**

Explore what fossils can tell us about the story of ancient life in the Badlands and why they should be protected at this 15 - 20 minute talk. Meet at the Fossil Exhibit Trail, 5 miles northwest of the park headquarters/visitor center on the Badlands Loop Road.

## Junior Ranger Program

**10:30 a.m. Daily**

Calling all visitors between 7 and 12 years of age! Meet at the Ben Reifel Visitor Center for a 45 minute adventure into an aspect of the Badlands. Wear closed-toe shoes and a hat. It may be a walk, a game, or another activity. Attendees will be awarded a Junior Ranger badge. Parents are also welcome!

## Prairie Walk

**5:30 p.m. Daily through August 28, 2010**

Join a park ranger for this easy, 1/2 mile walk into the prairie. Meet at the Ben Reifel Visitor Center for an exploration of prairie life and landscape. Wear closed-toe shoes and bring a hat and water.



## Night Sky Program

**Fri. - Mon. (Program start times are listed below. Meet at the amphitheater.)**

Join a park ranger for a 40 minute to 1 hour presentation at the Cedar Pass Campground Amphitheater. This program takes a cultural look at the night sky in Badlands National Park. Be sure to remember your binoculars, the ranger will help you to locate constellations, stars, and planets. Program will start when the sky is dark!



## Evening Program

**Tues. - Thurs. (Program start times are listed below. Meet at the amphitheater.)**

Join a park ranger for a 40 minute to 1 hour presentation at the Cedar Pass Campground Amphitheater. A weekly listing of program topics is available at the Ben Reifel Visitor Center and bulletin boards throughout the park. Program will start when the sky is dark!

### Night Sky & Evening Program start times:

|                 |           |
|-----------------|-----------|
| May, June, July | 9:00 p.m. |
| August          | 8:30 p.m. |
| September       | 8:00 p.m. |

**Stop by the Ben Reifel Visitor Center and ask about updated program listings, special programs, and events. These will also be posted on the bulletin boards throughout the park.**

### Visitors: Be Alert for Construction

During the summer of 2010, there will be work zones throughout the park for road construction and improvement, fencing projects, boardwalk and building repairs. The Loop Road 240 will be undergoing a major rehabilitation through a FHWA ARRA stimulus project. This work will result in traffic delays throughout the Loop Road while the driving surface is recycled and repaved and drainage features are improved to enhance road longevity.

As we go to press, the schedule for these and other activities has not been set. Please check at the entrance stations or the Ben Reifel Visitor Center and White River Visitor Center for information on closures or delays. Use caution around heavy equipment. Please observe all road warnings. Do not enter areas posted as "closed." Our goal is a safe visit for all!



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## Scenic Views of Badlands



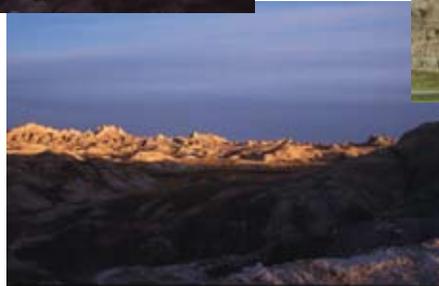
**Badlands at night**  
NPS Photo



**Storm clouds**  
NPS Photo



**Lightning storm**  
NPS Photo



**Sunrise**  
NPS Photo



**Sunset**  
NPS Photo



**After a rainstorm**  
NPS Photo