Through the Seasons,

The Beauty of the Guadalupes Remains

By Michael Haynie

In the interplay of light and shadow and their changing proportions through the seasons act as the warp and weft of the beautifully complex landscape of the Guadalupes. Nature, the master weaver who stitches it all together, has saved her most valued yarn to make sure it does not unravel. The silver thread of water hidden in remote canyons, running through scattered springs, and saved for a seasonal flourish when many would assume the desert would be at its hottest and driest, the summer, becomes the strength and support of a delicate fabric that we must handle with care. Easily torn, and time-consuming to mend, the varied environments of Guadalupe Mountains National Park are part and parcel of a precious heirloom that we bequeath to future generations.

Spring

By Michael Haynie

Spring seasons. Spring temperatures can be mild or extremely variable, accompanied by high winds. April showers are sporadic and often are measured only in the hundredths of an inch. Summer with increased light and heat, splits in two... before the monsoon rains, and after. Adding a little water this way has a transformative effect, bringing dormant seeds into their fullness. Fall brings welcome respite from the heat, and one of the greatest surprises of all... a beautiful display the sunset’s palette of colors held gently for a few weeks in the leaves of maples, ash, walnut, and sumacs. Bright orange, yellow, and scarlet deepen to amber, gold, and crimson from mid-October to mid-November. Winter’s shorter days range from cool to cold, but the nights are often freezing. Snow is rare, and high winds are again common. While the night sky here is always dazzling, the longer nights and clearer air of winter make for excellent viewing of the ancient light of stars and galaxies. For those with telescopes, this time of year offers excellent views of the Orion and Crab nebulae. For those without, gear is not needed to enjoy the seasonal highlight of the Gemind meteor shower in mid-December.

With adequate preparation, Guadalupe Mountains National Park can be enjoyably visited all year long. Spring and fall are the busiest seasons. Visiting during these times allows you to avoid the more extreme temperatures of the summer and winter and to see some spectacular seasonal phenomena, whether its the bursting forth of new life in mid- to late-spring (April - May), to the winding down of the year with one last hurrah of color in the fall.

The first part of summer is the hottest, with afternoon and evening rains (usually short-lived thunderstorms) common in the latter part of summer. Flowers are more abundant, and as the monsoon rains become more reliable, a renewed burst of growth occurs, greening the grasses and freshening the air. In winter, temperatures may be mild during the day (50s or 40s), but winds can make them feel much cooler. Most nights will have freezing temperatures. Visibility is often better, so hikes to the highcountry offer distant vistas and viewing the night sky is often at its best. Before you visit, be sure to check out our safety information regarding the weather (page 5) and bring everything you need.

The park has limited driving opportunities, but if you are willing to explore some of our trails, which range from accessible nature trails, to moderate canyon hikes and strenuous mountain hikes, you can discover one of the most biologically diverse areas in West Texas and experience a wilderness landscape preserved in perpetuity.

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Greetings

WELCOME TO GUADALUPE MOUNTAINS National Park. Guadalupe Mountains National Park protects one of the world’s best examples of a fossil reef, diverse ecosystems, and a cultural heritage that spans thousands of years.

Our park staff are here to help make your visit a truly memorable event and will be happy to help you plan your visit in the park and surrounding areas. Guadalupe Mountains National Park has over 80 miles of hiking trails to explore, ranging from wheelchair accessible paths to strenuous mountain hikes, including an 8.4 mile roundtrip hike to Texas’ highest mountain, Guadalupe Peak (8,751’).

As you travel and spend time in the area please remember to keep safety in mind. Deer and other wildlife are plentiful—enjoy watching wildlife, but remember they often move across roads, especially in the evenings; be vigilant while driving during twilight hours. Hikers should be prepared for rapidly changing weather conditions. Hikers can become dehydrated in our dry climate, so carry plenty of water (one gallon per person per day is recommended). Always check with a ranger before venturing into the backcountry.

We wish you a rewarding experience in every way.

Eric Brunnenmann
Superintendent

What time is it?! Because Guadalupe Mountains National Park is close to the Central Time Zone, your phone will display the wrong time unless you set it to Mountain Time. Both Guadalupe Mountains and Carlsbad Caverns National Parks are in the Mountain Time Zone.

Ask Lupe!

Hola Lupe!

What’s the best way I can help your friends that live in the park? And, do you know any jokes?

Hasta luego,
Maya the Magnificent

My Magnificent Maya,

One of the best things you could do for me, is to tell all your human friends to slow down on that road they drive on with their big noisy cars! Unfortunately, all the time I nearly get attacked by those big metal monsters because speed racers just go zooming by. Can’t they see I’m walking here?!

If you could also help keep the area clean of weird trash and plastic things, that would be nice. Sometimes, my foot gets caught in them, and the other day, I almost had a hard time getting away from a mean ol’ coyote! Thirty years ago, I gave birth to a litter of nine! I am still walking around and will be a lot longer! What is happening?! I hope you like my jokes, because I usually don’t laugh at all.

Sincerely,

Lost in the Twilight Zone

Dearest Lost in the Twilight Zone,

Well, let me tell you! There are two big towers on either side of the highway that runs through the park. One tower says Mountain Time but the tower on the other side says Central Time. Depending on where you stand, your phones and glitchedy gadgets will spout all manners of nonsense. Not to fear, I’ll help you! Ha-ha. As we are surrounded by mountainously mountainous mountains, we are obviously in Mountain Time! Your cantankerous contraptions just aren’t as smart as a clever little ringtail like me (;

From the brilliant genius of the devilishly handsome, Lupe

That is probably the hardest question I have ever been asked in my entire life. ‘Cept when someone asked me where the bathrooms were, I mean. … Aren’t they everywhere? Anyways! Let me see, there are maintenance rangers to keep everything neat and tidy in the human areas, just so I can run around and make a mess again! They sure are swell! Mmm, I also like the Law Enforcement rangers, they make sure bad guys don’t hurt me, my buddies and our favorite trees. Whenever I need help, I call them right away! The interpretive rangers who talk to people all the time are probably the most fun! They tell all sorts of cool stories about different adventures in the park; I like to sit and listen to their evening programs when the sun sets to fade—they’re the best bedtime stories ever! There are administrative folks in the back offices who are always doing paperwork. We have this ongoing joke where I run up to the window and wave, and this one lady always screams! She gets sooo happy to see me. The science folks are awesome too. Sometimes they do cool experiments in the wild—like catching bats and digging up holes for stuff. I like to dig too, so we pretty much have a lot in common. I think my favorite rangers are the science folks who are always doing paperwork. We have this ongoing joke where I run up to the window and wave, and this one lady always screams! She gets sooo happy to see me.

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The Other Side of the Mountain

By DW Vitt

WE HAVE ALL DONE IT, LOOKED UP AT A mountain and wondered what’s up there. Metaphorically we have all done that with our careers too. No matter where you start at work, we all wonder what it would be like at the next level, and all of us eventually reach our career summits. And just like real mountains, after years of “climbing”, we need to find our way back home. That’s the hard part.

And that’s where an interesting choice happens later in one’s life, similar to the choice we all made when we started our initial climb. Do we re-trace our steps and report back on what we found at our summit or looking out do we head down the “other side of the mountain” to explore paths not taken in our original quest?

In the summer of 2018, after qualifying for my pension, my oldest son and I climbed Guadalupe Peak as a dual celebration. The first being my retirement and the second his acceptance of a position with American Airlines whose donated obelisk sits atop the Peak. Hiking to the top of the Peak is a family tradition going back now twenty-five years, with each of my wife and I’s three children completing that experience and numerous other hikes throughout the Park - Fall Colors in McKittrick Canyon, the traverse from Pine Springs to Dog Canyon and the ever-present Bear Canyon’s leaning rocks.

Having lived numerous places around the country, throughout my career, I always felt a bit guilty that I never provided my children with a rural place to call “home”, like I had experienced through trips to my grandparent’s farm as a child. But to make up for it, my wife and I tried our best to take summer vacations, when the children were young, at national parks. And it worked... during that hike two years ago it did my heart good to hear my son mention memories of prior hikes we had taken here at the park and how, now that he was becoming a father himself, he wanted to continue the family tradition of climbing Guadalupe Peak as a milestone and a celebration. Even challenging me to keep myself in shape so I too could participate, at least by manning the family Base Camp, while the next generation heads up its first “side of the mountain”.

At the end of that day hike I was greeted by a member of Volunteers-in-Parks (VIP), who informed me there were ways for me to get involved both locally and nationally helping the National Parks Service interpret and maintain the parks for all of our enjoyment. Within months of my orientation with regards to the VIP Program I found myself participating in backcountry patrols recording trail usage and issues, standing an interpretive post explaining the significance of Pratt Cabin to the park’s history, and most recently, carrying a McLeod tool up Bear Canyon as a crew of volunteers assisted the park’s maintenance staff with the cleaning out of water bars, many of which I have treaded over without thinking about the work needed to maintain these erosion prevention resources.

This experience has changed my whole perspective with regards to retirement. Instead of continuing on my original path, just at a slower pace, I have literally headed to “the other side of the mountain” on a new path. It’s been invigorating to learn new skills, and being mentored by a younger generation of rangers has been invaluable in helping me see a positive elderhood. But the real benefit to volunteering is to realize that by doing so, I am helping to create a legacy here at Guadalupe Mountains National Park which will provide future generations of my family a rural forever home, here on “the other side of the mountain”.

Volunteerism Makes a Difference

WE WOULD LIKE TO EXTEND OUR SINCERE GRATITUDE TO THE DEDICATED effort and talent that volunteers have brought to Guadalupe Mountains National Park. Volunteers play a vital role in fulfilling our mission of preserving our natural and cultural heritage and sharing that heritage with the visiting public. Volunteers do everything from staffing the information desk, roving interpretation, patrolling trails, to trail maintenance, research, and more.

To become a Volunteer-In-Park (VIP) visit www.volunteer.gov or contact:

Guadalupe Mountains National Park
Amanda Cooper, Volunteer-In-Park Coordinator
951-351 ext. 2311

Your Fee Dollars at Work

Out of the 409 units in the National Park Service (NPS), 44 parks charge an entrance fee. The Federal Lands Recreation Enhancement Act (FLREA) allows the NPS to collect and retain revenue and requires that fee revenue be used to enhance the visitor experience. At least 80 percent of the money stays in the park where it is collected, and the other 20 percent is used to benefit parks that do not collect fees. What does that mean for our national parks and for you?

The NPS is authorized to use entrance and recreation fees for a variety of items related to your experience, such as:

- Habitat restoration directly related to wildlife-dependent recreation including hunting, fishing, wildlife observation, and photography, such as a volunteer project to repair and maintain boundary fencing that allows visitors to safely observe native elk and pronghorn at Big Hole National Battlefield (Montana)
- Law enforcement related to public use and recreation, such as partnering with the San Juan Country Sheriff’s Office to provide dispatch services for law enforcement and other emergency operations at Canyonlands National Park, (Utah)
- Direct operating or capital costs associated with the recreation fee program to pay for entrance station and campground staff
- Fee management agreements with gateway communities to provide emergency medical services
- Repair, maintenance, and facility enhancement related directly to visitor enjoyment, visitor access, and health and safety

In 2020, Guadalupe Mountains National Park will use funds generated from collected fees to complete these projects:

Replace roof and upgrade facilities of comfort station at Pine Springs
Restripe Pine Springs Parking Lot
**Guadalupe Mountains National Park**

**ENTRANCE FEE**

$10.00/person (16 & older)  
Free for Senior, Access, and Annual Pass holders

**SERVICES**

Facilities and services within and near Guadalupe Mountains National Park are extremely limited. The nearest gas stations are 43 miles west (Dell City, TX), 55 miles southeast of Carlsbad, 10 miles east of El Paso, and 65 miles north of Van Horn on Highway 54 and Highway 62/180. Open every day except December 25. Open daily 8:00 a.m. to 4:15 p.m. (Mountain Time Zone). Information, natural history exhibits, introductory slide program.

**INFORMATION & EXHIBITS**

Pine Springs Visitor Center  
Elevation 5,620’  
On Highway 62/180, 55 miles south of Carlsbad, 10 miles east of El Paso, and 65 miles north of Van Horn on Highway 54 and Highway 62/180. Open every day except December 25. Open daily 8:00 a.m. to 4:30 p.m. (Mountain Time Zone). Information, natural history exhibits, introductory slide program.

Frijole Ranch History Museum  
The ranch house features exhibits describing historic and current use of the Guadalupe. Grounds include a picnic area near a spring shaded by large oak trees. Open intermittently.

**McKittrick Canyon**  
Highway entrance gate is open 8:00 a.m. to 9:00 p.m. Mountain Standard Time. During Daylight Savings Time, hours are expanded 8:00 a.m. to 4:30 p.m. Restrooms, outdoor exhibits, slide program, picnic tables.

**Hike Safely...**

- There is no water available along park trails, so be sure to bring plenty with you. One gallon per person per day is recommended.
- Trails are rocky—wear sturdy shoes. Trekking poles are recommended.
- Carry a trail map.
- Pack warm clothing and rain gear; sudden weather changes are common.

**Protect the Park...**

- Stay on trails, don’t cut across switchbacks or create new trails.
- Carry out all trash, including cigarette butts.
- Report any trail hazards to the Pine Springs Visitor Center or any park staff member.
- Collecting of natural, historic or prehistoric objects is prohibited.

**Hiking**

**Pinery Trail**  
Distance: 0.6 mile  
Difficulty: Easy. Wheelchair accessible, slight incline on return trip.

Discover the desert as you walk to the ruins of the Pinery, a stagecoach station on the Butterfield Overland Mail Route in 1858. Trailside exhibits. This is the only trail pets on leash are allowed.

**McKittrick Canyon Trail**  
Distance: 4.8 miles  
Difficulty: Strenuous. Approximately 2,000’ elevation gain, steep, rocky path.

Follow an intermittent stream through the desert and canyon woodlands to the historic Pratt Cabin. A guidebook is available at the trailhead. The Grotto Picnic Area and Hunter Line Cabin are one mile beyond the Pratt Cabin. Please do not drink the water or wade in the creek. To protect this fragile environment, you are required to stay on the trail.

**Guadalupe Peak Trail**  
Distance: 8.4 miles  
Difficulty: Strenuous. Approximately 3,000’ elevation gain, steep, rocky path.

Hike to the “Top of Texas” at 8,751’ with spectacular views. Avoid the peak during the hottest months of July and August due to high temperatures. Moderate to Strenuous.

**Guadalupe Mountains National Park**

**Camping**

Water and restrooms are available, but there are no showers, RV hookups, or dump stations. The fee is $8.00 per night, per site, $75.00 with a Senior Pass (or existing Golden Age Passport) or Access Pass (or existing Golden Access Passport). No wood or charcoal fires permitted; camp stoves are allowed.

**Pine Springs Campground**  
Located near the Pine Springs Visitor Center, there are twenty tent and nineteen RV campsites (including a wheelchair accessible tent site) available on a first-come, first-served basis. Two group campsites are available for groups of 10-20 people. Reservations (for group sites only) can be made on the park’s website up to two months in advance. Campers planning on day hiking in McKittrick Canyon, on Guadalupe Peak or the Bowl will want to stay here.

**Dog Canyon Campground**  
Located at the end of New Mexico Highway 137, 70 miles from Carlsbad and 10 miles from Park Headquarters, at an elevation of 6,290’ in a secluded, forested canyon on the north side of the park. The campground has nineteen tent and four RV campsites (including a wheelchair accessible tent site). It is one group site for groups of 10-20 people. Reservations for the group site only can be made up to two months in advance by visiting the park’s website (www.nps.gov/gumo).

**Other Popular Hikes...**

<table>
<thead>
<tr>
<th>Trailhead</th>
<th>Trail</th>
<th>Distance</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pine Springs</td>
<td>Devil’s Tail</td>
<td>4.2 miles</td>
<td>Moderate to Strenuous. Hike in Pine Spring Canyon to the Hikers’ Staircase and Devil’s Hall. After the first mile, the trail drops into the wash and becomes very rocky and uneven. Turn left and follow the canyon bottom to the Hiker’s Staircase and beyond to the Devil’s Hall. Area beyond Devil’s Hall closed March – August due to sensitive species.</td>
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<tr>
<td></td>
<td>The Bowl</td>
<td>8.5 miles</td>
<td>Strenuous. The Bowl shelters a highcountry conifer forest. Recommended route: Tejas Trail, Bovii Trail, Hunter Peak, Bear Canyon Trail; Frijole Trail, Tejas Trail (Invkx) back to campground. Trail climbs 2,500’.</td>
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<tr>
<td></td>
<td>El Capitán Trail</td>
<td>11.3 miles</td>
<td>Moderate to Strenuous. Desert lovers will appreciate the rocky arroyos and open vistas while skirting along the base of El Capitán. Recommended route: El Capitán Trail, Salt Basin Overlook, and return to Pine Springs on the El Capitán Trail.</td>
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<tr>
<td>Frijole Ranch</td>
<td>Manzanita Spring</td>
<td>4 miles</td>
<td>Easy. Path is paved and wheelchair accessible. Hike to a small pond that serves as a desert oasis. Dragonflies, butterflies, and birds are active here in the warmer months. During winter, bluebirds frequent the area. Opportunities for chasing upon other wildlife are higher here as well.</td>
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<td></td>
<td>Smith Spring Trail (entire loop)</td>
<td>2.3 miles</td>
<td>Moderate. Climb the foothills and learn about the natural history of the Chihuahuan Desert. Trailside exhibits.</td>
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<td></td>
<td>McKittrick Nature Loop</td>
<td>0.9 miles</td>
<td>Strenuous. For serious geology buffs, this trail has stop markers that can be used with a geology guidebook sold at the Visitor Center. There are excellent views into McKittrick Canyon from the ridgetop. Trail climbs 2,000’.</td>
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<tr>
<td></td>
<td>Pecan Reef Trail</td>
<td>8.4 miles</td>
<td>Moderate. Follow the Bush Mountain Trail to the ridgetop for a view into West Dog Canyon. Trail climbs 800’.</td>
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<tr>
<td></td>
<td>Indian Meadow Nature Loop</td>
<td>0.6 miles</td>
<td>Easy. Enjoy a stroll around a meadow frequented by a variety of birds and other wildlife. Along the way you will see evidence of recent fires and regrowth.</td>
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<tr>
<td></td>
<td>Marcus Overlook</td>
<td>4.6 miles</td>
<td>Moderate. Follow the Bush Mountain Trail to the ridgetop for a view into West Dog Canyon. Trail climbs 1,500’.</td>
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<tr>
<td></td>
<td>Lost Peak</td>
<td>6.4 miles</td>
<td>Strenuous. Climbs out of Dog Canyon on the Tejas Trail to visit the conifer forest above. Outstanding views from Lost Peak. Lost Peak is a short distance off trail to the right, before the horse hitches. Trail climbs 1,500’.</td>
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<tr>
<td></td>
<td>Salt Basin Dunes</td>
<td>3.4 miles</td>
<td>Moderate. Follow the old roadbed from the parking area, for a little over a mile, to the north end of the dune field. There is one high dune to ascend that some may find difficult. No shade. Enjoy the contrast of the pure white dunes with the sheer cliffs of the the Guadalupeas as a backdrop. Great for sunset or sunrise hikes all year, and daytime hikes during the winter.</td>
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**Weather**

<table>
<thead>
<tr>
<th>Average Temperature (° F)</th>
<th>Average Rainfall</th>
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<tbody>
<tr>
<td>High</td>
<td>Low</td>
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<tr>
<td>Jan</td>
<td>56</td>
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<td>Feb</td>
<td>59</td>
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<td>Oct</td>
<td>73</td>
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<tr>
<td>Nov</td>
<td>67</td>
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<tr>
<td>Dec</td>
<td>59</td>
</tr>
<tr>
<td>Average annual precipitation for Pine Springs (1980-2003)</td>
<td>17.4</td>
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</tbody>
</table>

**Backpacking**

Eighty-five miles of trails lead through forests, canyons, and desert to ten backcountry campgrounds. A free permit is required if you plan to spend a night in the backcountry. Permits are issued at the Pine Springs Visitor Center and the Dog Canyon Ranger Station. Permits are issued for groups of 10-20 people. Permits can be made up to two months in advance by visiting the park’s website (www.nps.gov/gumo).

**Horseback Riding**

Sixty percent of the park’s trails are open to stock use. A backcountry permit is required for all stock use. These free permits are issued at the Pine Springs Visitor Center and Dog Canyon Ranger Station. Stock riding is limited to day trips only.

**Stable stock** are available at Dog Canyon and near Frijole Ranch. Each has four pens and will accommodate a maximum of 10 animals. Reservations may be made two months in advance by visiting the park’s website (www.nps.gov/gumo).
Lightning may be the most awesome hazard faced by hikers. In our area, storms are common from May through September, and usually occur in the late afternoon or early evening. You can estimate the distance of a lightning strike in miles by counting the time in seconds between flash and sound and dividing by five.

The effects of being close to a lightning strike may be minor, such as confusion, amnesia, numbness, tingling, muscle pain, temporary loss of hearing or sight, and loss of consciousness. Severe injuries include burns, paralysis, coma, and cardiac arrest. Since injuries may not be obvious initially — burns and cardiac injury may not appear until 24 hours after the lightning strike — medical observation is recommended for all lightning victims.

Decrease your risk of injury from lightning:
- Get an early start so that you can finish your hike before storms erupt.
- Be aware of current and predicted weather. Watch the sky for development of anvil-shaped cumulus clouds. If a storm is building, descend to lower elevations.
- If a storm occurs, seek shelter. A car or large building offers good protection. Tents offer no protection.
- Turn off cell phones and other electronic equipment.
- If totally in the open, avoid single trees. Stay off exposed ridges.
- When caught in heavy lightning, the best stance is to crouch with feet close together, minimizing the opportunity for ground currents to find a path through the body. Crouch on a dry sleeping pad, if available.
- Stay out of shallow caves or overhangs. Large dry caves which are deeper than 50 feet and smaller trees.
- In forests, seek low spots under thick growth or smaller trees.
- Avoid standing water, fences, power lines, and pipelines. Discard metal hiking sticks.
- Groups should not huddle together. Scatter so if one person is injured, the others can help — stay at least 30 feet apart.

Heat

The body balances heat loss against heat gain to keep the core body temperature within narrow limits. With strenuous exercise in hot climates, heat gain can exceed loss. Core temperatures may rise, sometimes to dangerous levels. Dehydration exacerbates heat illness.

Heat Exhaustion develops over hours due to water and electrolyte loss from sweating, it causes collapse or gradual exhaustion with an inability to continue to exercise. Symptoms include headache, dizziness, fatigue, nausea, vomiting, muscle cramps, rapid pulse, thirst and profuse sweating, gooseflesh, chills, and pale skin, and low blood pressure — the victim may faint.

Heatstroke occurs in people who undertake heavy exertion in hot climates, and results in sudden collapse with extreme elevation of body temperature, decreased mental status, and shock. It is a medical emergency that can kill, begin treatment immediately. Symptoms include headache, drowsiness, irritability, unsteadiness, confusion, convulsions, coma, a rapid pulse and low blood pressure, and either dry or sweat moistened hot skin.

Prevention
Drink plenty of water when exercising in hot weather, before feeling thirsty and after feeling satisfied. Drink enough to produce clear urine regularly during the day. Eat high carbohydrate foods for energy. Avoid heavy exercise in high temperatures and high humidity. Wear light-colored clothes that fit loosely and cover all sun-exposed skin. Avoid alcohol and caffeine, both increase loss of fluid.

Treatment
- Have the victim rest in the shade.
- Remove excess clothing.
- Wet the victim to increase evaporation.
- Have the victim drink fluids; if available, add 1/4 teaspoon salt and 6 teaspoons sugar to 1 quart of water.
- In serious cases, begin immediate, rapid cooling by one of these methods:
  a) Increase evaporation by sprinkling water on the skin and fanning vigorously.
  b) Immerse the victim’s body in cool water.
  c) Place cold packs on the neck, abdomen, armpits, and groin.
- Stop cooling when mental status improves. Continue to monitor the victim.
- Contact a park ranger for assistance.

Hypothermia

Hypothermia is a cooling of the body core when more heat is lost than is produced, and can be life threatening. Wetness and wind are a lethal combination that chill a person more rapidly than dry cold. Hypothermia can occur in any season of the year; the hiker exposed to a sudden summer halststrom while wearing only a T-shirt and shorts is more likely to become hypothermic than a well-dressed winter hiker. Windchill adds to the problem, but affects only the exposed parts of the body. Wearing windproof clothing reduces the effects of windchill.

Signs of mild hypothermia include progressively worsening shivering, uncharacteristic behavior, grumbling about feeling cold, inappropriate excitement or lethargy, poor judgement, confusion, and hallucinations. The victim may experience stiff muscles and cramps, uncoordinated movements, and stumbling. Skin will be cold, pale and bluish due to constricted blood vessels.

As hypothermia becomes severe, shivering ceases. The victim’s behavior changes from erratic to apathetic to unresponsive. The pulse becomes weak, slow, and irregular. Breathing slows, pupils become dilated. Eventually the victim will slip into a coma.

Prevention
Know the weather forecast; carry appropriate extra clothing, such as a water/ wind repellent shell, jacket, hat and mittens, and a space blanket or tarp for shelter. Evaporation of sweat is a major source of heat loss during exercise; try to avoid sweating by wearing ventilated clothing. Watch for early signs of hypothermia, and act promptly to avert it. Gauge the day’s activity to the party’s weakest member; children are more prone to hypothermia than adults. Being exhausted, hungry, dehydrated, or demoralized prevents a proper response to cold and hastens the onset of hypothermia.

Treatment
- Do not delay.
- Find shelter out of the wind.
- Remove wet clothes and replace with dry, add layers and a wool cap to increase insulation.
- Give food and warm, sweet drinks.
- If the victim is shivering strongly, place victim inside a sleeping bag well insulated from the ground.
- If the victim responds to rest and warmth, he may be able to continue hiking.
- For severe hypothermia, provide heat to the victim’s trunk after rescue by whatever means are available — body-to-body contact, hot water bottles, chemical heating pads, hot rocks wrapped in clothing. Place the heat sources in the groin and armpits and alongside the neck. Always have clothing between a heat source and the skin to prevent burns.
- Never leave a hypothermic victim alone.
- Contact a park ranger for assistance.

Help Protect the Park and Leave Rocks Unstacked

Is this stack of stones an important hiking tool or a long-lasting disturbance of the environment?

During back to prehistoric times, rock cairns have been used around the world to mark trails and historic moments in history. Many of our national park sites mark trails by placing rock cairns sparingly along the paths. These cairns are placed so that from one stack, hikers can see the next cairn and navigate safely. However, in recent years, unauthorized rock cairn building has become an epidemic!

Hikers wanting to mark their personal passage by building their own cairns, adding to an existing rock cairn, or marking alternative paths are aiding in the destruction of our wild lands. By adding to cairns or building new ones, well-meaning hikers are altering the landscape, increasing the rate of erosion, and possibly leading people astray.

Please help keep your national parks wild and naturally beautiful by leaving the stones where they lie.
**Hiker Safety & Wildlife**

**Mountain Lions**

With their large size and very long tails, mountain lions are unmistakable. Adult males may be more than 8 feet in length and weigh an average of 150 pounds. Adult females may be up to 7 feet long and weigh an average of 90 pounds. Their tracks show 4 toes with 3 distinct lobes present at the base of the pad, which is generally greater than 1.5 inches wide. Claw marks are usually not visible since their claws are retractable.

Mountain lions take their prey, usually deer, by ambush. After spotting prey, a lion stalks using available cover, then attacks with a rush, often from behind. They usually kill with a powerful bite below the base of the skull, breaking the neck, then drag the carcass to a sheltered spot beneath a tree or overhang to feed on it. Often they cover the carcass with dirt or leaves and may return to feed on it over the course of a few days.

Although no one has had a physical encounter with a mountain lion at Guadalupe Mountains National Park, sightings have become more frequent in the last few years. Lions have increasingly shown more curiosity about people and less fear. Even with this increased lion activity, your chance of seeing one of these elusive creatures is extremely low. A few simple precautions may reduce the risk of a dangerous encounter.

**Rattlesnakes**

Rattlesnakes are the only venomous snakes found in the Guadalupe Mountains. They are recognized by the triangular, flat head, wider than the neck; vertical, elliptical pupils, and a heat-sensitive “pit” located between the eye and the nostril. Rattles are generally present, recognized by the triangular, flat head, wider than the neck; vertical, elliptical pupils, and a heat-sensitive “pit” located between the eye and the nostril. Rattles are generally present.

First aid for a snakebite:
- Get the victim away from the snake.
- Rattlesnakes strike across a distance equal to half their body length and can bite more than once. Do not attempt to capture or kill the snake.
- Remove constrictive jewelry such as rings and watches.
- Suction with a venom extractor is only minimally effective and must be started within two to three minutes. Do not attempt oral suction or incising the skin.
- Use a sling or a splint to immobilize the limb loosely; keep it below the level of the heart.
- Look for signs of envenomation: severe burning pain at the bite site; swelling starting within 5 minutes and progressing up the limb (swelling may continue to advance for several hours); discoloration and blood-filled blisters developing in 6 to 48 hours; and in severe cases, nausea, vomiting, sweating, weakness, bleeding, coma, and death. In 25% of rattlesnake bites, no venom is injected.
- If there are immediate, severe symptoms, keep the victim quiet; activity increases venom absorption. Have someone contact a ranger as soon as possible to begin evacuation.
- If there is no immediate reaction, you may choose to walk slowly with the victim to the trailhead. Begin evacuation as quickly as possible; contact a ranger for assistance. If evacuation is prolonged and there are no symptoms after six to eight hours, there has probably been no envenomation. However, all bites can cause infection and should be treated by a physician.
- Transport the victim to a medical facility where antivenin is available. The closest facility to the park is Carlsbad Medical Center, at the north end of Carlsbad, New Mexico on US 285 (2430 West Pierce); driving time is 1½ hours from Pine Springs.

When you hike in mountain lion country: Travel in groups. Lions may key in on easy prey, like small children. Make sure children are close to you and within your sight at all times—do not let children run ahead of adults! Talk with children about lions and teach them what to do if they meet one.

To avoid rattlesnake bites, stay on trails where you are more easily able to see a snake.

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**First aid for a snakebite:**
- Do not approach a lion, especially one that is feeding or with kittens. Most mountain lions will try to avoid confrontation. Give them a way to escape.
- Stay calm; speak calmly yet firmly. Move slowly. Avoid prolonged direct eye contact.
- Face the lion and stand upright. Do all you can to appear larger. Raise your arms, or open your jacket.
- Protect small children by picking them up so they won’t panic and run.
- Back away slowly, if you can do it safely. Do not run! Running may stimulate a lion’s instinct to chase and attack.
- If the lion behaves aggressively, throw stones, branches or whatever you can get your hands on without crouching down or turning your back. Wave your arms slowly and speak firmly. What you want to do is convince the lion that you are not prey and that you may in fact be a danger to the lion.
- Fight back if a lion attacks you. People have fought back successfully with rocks, sticks, jackets, and their bare hands. Protect your head and neck with your arms. Remain standing or try to get back up.
- Please report all mountain lion sightings to a park ranger.

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Rattlesnakes are protected in National Parks; it is illegal to harm them.
Imagine starting out on a caving trip to Lincoln National Forest; things can be very different. Like many national forests, primitive roads provide driving access into some very remote areas. These roads can be extremely rough; many folks opt to get out and hike along the beautiful ridgeways. Primitive camping is allowed almost everywhere and car camping is allowed within 300’ of most roads. After finding the perfect campsite high in the Guadalupe Mountains, the next task is actually finding the caves themselves. There are no established trails that take visitors to wild caves, so finding the cave entrance can be an extensive search along the side of a steep canyon, with the added challenges of orienteering and following maps. To help groups find caves and promote conservation, Lincoln National Forest facilitates a public trip leader program. Members of the NSS with extensive caving experience lead others to find new adventures.

If ‘wild caving’ sounds like fun, there is an easy way to get started right where you live. There are caving clubs called “Grottos” located across the country as part of the National Speleological Society. Finding and contacting one of these Grottos is a click away at www.caves.org. There you will find a U.S. map and contact information for caving enthusiasts from across the country. The National Speleological Society is a great partner organization and NSS Grottos provide the necessary training and education needed for visiting the backcountry caves of Lincoln National Forest.

Wildland Caving Opportunities on the Lincoln National Forest

By Jerermy Evans

THE GUADALUPE RANGE DISTRICT, the southern-most district of the Lincoln National Forest, has many spectacular recreation opportunities. Remote, quiet and mysterious, the District beckons the visitor to explore this unique desert landscape. The Guadalupe Ranger District shares its southern boundary with two national parks: Guadalupe Mountains and Carlsbad Caverns. Hiking, camping, hunting, bird watching, and horseback riding are just some of the incredible activities that can be enjoyed on the district. One of the recreational highlights is Sitting Bull Falls Recreation Area. It sits at the end of a long remote canyon and has a series of waterfalls (fed from springs atop the canyon) that create a large pool of water at the base of the falls, up to 20 feet from top to bottom. The Sitting Bull Falls Recreation Area meets ADA guidelines for accessibility and some of the features include paved sidewalks, restrooms, picnic tables, rock cabanas, freshwater, trash containers, and a viewing deck of the waterfall.

Sitting Bull Falls and the surrounding landscape are the remnants of an ancient reef known as Captain Reef. Approximately 260 million years ago, the area was on the edge of a huge inland sea. The predominant geology of the area is limestone and is full of fissures and caves that were slowly eroded by acidic water over long periods of time. Deep and rough canyons were carved by annual flooding and rains. Other geologic forces have created picturesque valleys today and they can be very challenging and remote, requiring specialized equipment, weeks of planning, and extensive training.

By Brad Bolton

Do you like a challenge and to travel where you rely on your own wits and physical strength to climb and negotiate through cave passages? For folks who really enjoy ‘wild caving’-type of trips, there are many adventures to be found in nearby Lincoln National Forest.

The Lincoln National Forest manages numerous caves, many of which are in the same mountains shared with the two national parks. While nothing can compare to Carlsbad Caverns, many Forest Service caves are spectacular, unique, and world-renowned for exquisite formations. New discoveries are made yearly as scientists come to the Lincoln to study the geology and biology of caves. The caves are in a completely natural setting nestled in the high mountains and deep canyons. Visiting caves in the Lincoln National Forest can be challenging and remote, requiring specialized equipment, weeks of planning, and extensive training.

Below ground, management of backcountry caves is very similar for the different agencies. That is because the same 1988 Cave Protection Act is the federal law that requires management of significant caves for all national parks and national forests. Lincoln National Forest promotes conservation by facilitating a backcountry cave permit system, and by coordinating volunteers from the National Speleological Society (NSS) who monitor the caves for research, wildlife conservation, and preventing misuse.

Sitting Bull Falls (Lincoln National Forest)

By Jeramy Evans

The Guadalupe Mountains sit on the northern edge of the Chihuahuan Desert and have a rich and diverse geologic and archaeological history. American Indians first came into the area around 10,000 years ago and the Mescalero Apache called this area their home for many, many years. Spanish explorers came to the area in the 1500s; the horses they brought proved to be very valuable to the Apache. By the mid-1800s, exploring settlers, settlers, ranchers, businessmen, cattleman, and outlaws had migrated into the area. Because of the rough and remote terrain, the Guadalupe Mountains were settled very slowly.

In the 1950’s, the Civilian Conservation Corps was assigned to the area and built impressive stone structures that still stand today as the picnic sites at Sitting Bull Falls. The 1970s ushered in a little more development: crews installed vash restrooms, added more cabanas and improved the trail to the falls. In the 1980s, a route to the top of the falls was built by the Youth Conservation Corps. Then on Easter Sunday of 2001, the Last Chance Fire burned through the area, severely damaging the picnic cabanas and destroying the trees and vegetation. Sitting Bull Falls was closed for a year while repairs were made; once reopened, the area was damaged again by a flood event in September of 2003. Another flood in 2004 delayed reconstruction efforts. Finally, by May 2005, all reconstruction and repairs were completed. A new walkway was built, which leads to a viewing deck; and a bird’s eye-view of the falls. The entrance road to the well-known site was reconstructed and “re-paved” the way to a whole new experience.

Come and enjoy Sitting Bull Falls and the surrounding area. Take a hike on the many trails or relax and have a picnic with your family. Whatever you decide to do, your adventure to the Guadalupe Ranger District will be memorable. Don’t forget to come prepared. Bring plenty of water and pay attention! Deer, javelina, mountain lions, snakes, tarantulas, rabbits, and many other animal species call the area home. If you decide to go out and explore the backcountry, please go prepared; the weather in this area can be unpredictable and so can the wildlife! Please be safe and enjoy your national forest.

If you have questions, please visit the Guadalupe Ranger District office at 5203 Buena Vista Drive in Carlsbad or call 575-885-4818.

Sitting Bull Falls is approximately 42 miles west of Carlsbad, New Mexico and can be reached by car via Highway 485 to Highway 15 and then Forest Road 276 / County Road 409. Pets on leashes are allowed.

It is a day-use area open from 9 - 5 daily (October to March) or 8:30 - 6 (April to September); the standard amenity fee is a bargain at $5 per vehicle. Visitors can wade in the water below the falls, lake, or picnic. The picnic sites have tables and grills, but you’ll need to bring your own charcoal and be aware of any fire danger warnings. Many of the picnic sites provide overhead shelter from the sun’s rays that bear down on the area most of the day. Fresh water and restroom facilities are available. There is a paved, ADA accessible path to the falls viewing area. Camping is not allowed in the falls day use area, but is allowed almost anywhere else on the Guadalupe Ranger District.
Nearby Attractions

**BRANTLEY LAKE STATE PARK**
www.emnrd.state.nm.us/SPD/brantley-statepark.html
Located 12 miles north of Carlsbad on U.S. Highway 285, the campground has 95 RV sites with water and RV electric hookups (a few with sewer), a dump station, playground, restroom with hot showers, shelters, tables and grills. Other facilities include picnic areas with sheltered tables and grills, playground, a fishing dock, boat ramps with docks, and a visitor center.

**LINCOLN NATIONAL FOREST (GUADALUPE DISTRICT)**
575-887-4811
www.fs.usda.gov/lincoln/home
The forest encompasses 1,003,440 acres for hiking, caving, camping, picnicking, horseback riding, hunting and sightseeing. Maps are available at the Guadalupe Ranger District Office located at 5001 Buena Vista Drive Carlsbad, NM 88220.

**BRANTLEY LAKE STATE PARK**
575-457-2384
www.emnrd.state.nm.us/SPD/brantley-statepark.html
Located 12 miles north of Carlsbad on U.S. Highway 285, the campground has 95 RV sites with water and RV electric hookups (a few with sewer), a dump station, playground, restroom with hot showers, shelters, tables and grills. Other facilities include picnic areas with sheltered tables and grills, playground, a fishing dock, boat ramps with docks, and a visitor center.

**Black River Recreation Area**
This 1,200 acre oasis in the Chihuahuan Desert is home to rare species of plants, fish, and reptiles in and around the river. The most frequently visited site is the Cottonwood Day Use Area, which includes a wildlife viewing platform, picnic tables, and a toilet. Turn west onto CR418, travel two miles, and then turn left at the fork.

**La Cueva Non-Motorized Trail System**
The trail system contains more than 15 miles of maintained trails. The non-motorized trails are used by mountain bikers, hikers, and equestrians. The trails wind through the rolling limestone foothills of the Guadalupe Mountains and the rugged Chihuahuan Desert environment.

The area is located partially within the city limits of Carlsbad, NM. From Lea Street, go west to Standpipe Rd. Turn south and travel 3 miles to the gravel access road. Turn right and travel approximately 0.3 miles to the trailhead and parking area. There are no facilities other than the parking area and trail signs.

**CARLSBAD Caverns National Park**
575-785-2232
www.nps.gov/cave
Visitor Center
707 Carlsbad Caverns Highway
Carlsbad, NM 88220
Carlsbad Caverns National Park features a immense cave system of highly decorated chambers, and from mid-May to mid-October, a spectacular bat flight each evening. Visit the website for the latest information on hours of operation.

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