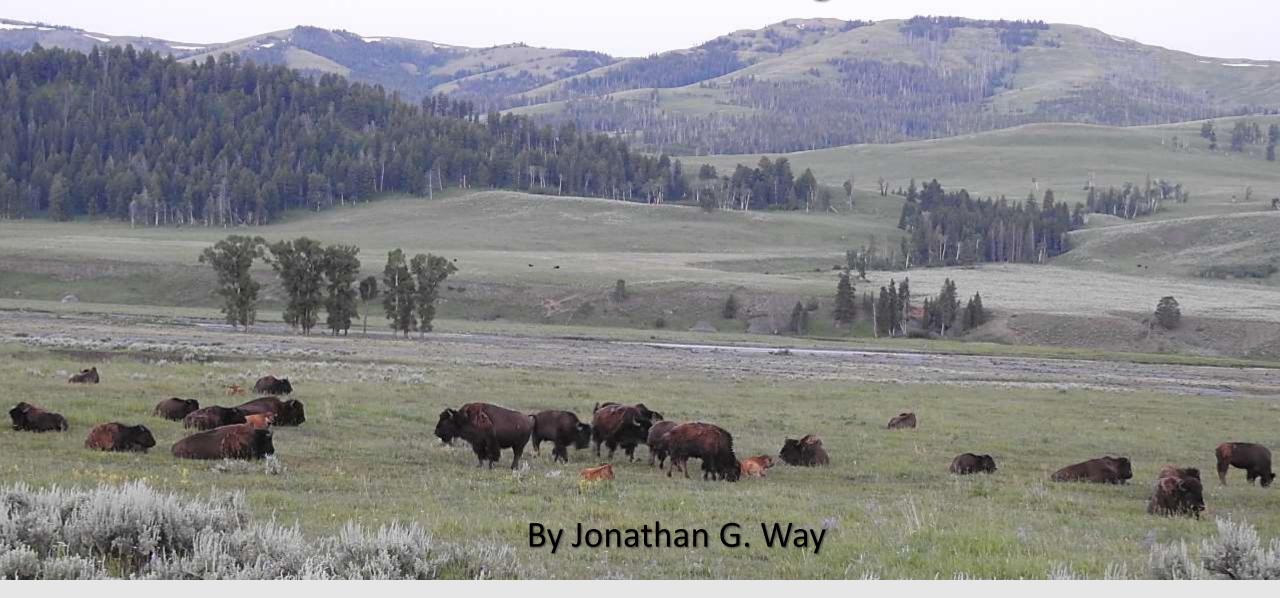
Yellowstone Wildlife during Summer



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 - http://www.easterncoyoteresearch.com/store or MyYellowstoneExperience.org
- Previous books by Jonathan Way:
 - Way, J. G. 2007 (2014, revised edition). <u>Suburban Howls: Tracking the Eastern Coyote in Urban Massachusetts</u>. Dog Ear Publishing, Indianapolis, Indiana, USA. 340 pages.
 - Way, J. G. 2013. My Yellowstone Experience: A Photographic and Informative Journey to a Week in the Great Park. Eastern Coyote Research, Cape Cod, Massachusetts. 152 pages. URL: http://www.myyellowstoneexperience.org/bookproject/
 - Way, J. G. 2020 (Revised, 2021). Northeastern U.S. National Parks: What Is and What Could Be. Eastern Coyote/Coywolf Research, Barnstable, Massachusetts. 312 pages. E-book. Open Access URL: http://www.easterncoyoteresearch.com/NortheasternUSNationalParks/
 - Way, J.G. 2020 (Revised, 2021). The Trip of a Lifetime: A Pictorial Diary of My Journey Out West. Eastern Coyote/Coywolf Research, Barnstable, Massachusetts. 561 pages. E-book. Open Access URL: http://www.easterncoyoteresearch.com/TheTripOfALifetime/.
 - Way, J.G. 2021. Coywolf: Eastern Coyote Genetics, Ecology, Management, and Politics. Eastern Coyote/Coywolf Research, Barnstable, Massachusetts. 277 pages. E-book. Open Access URL: http://www.easterncoyoteresearch.com/CoywolfBook.
 - Way, J.G. 2021. Christmas in Yellowstone: A Dream Come True. Eastern Coyote/Coywolf Research, Barnstable, Massachusetts. 208 pages. E-book. Open Access URL: http://www.easterncoyoteresearch.com/ChristmasInYellowstone.
 - Way, J.G. 2021. Mud, I mean April, in Yellowstone: Nature's Transition from Winter to Spring. Eastern Coyote/Coywolf Research, Barnstable, Massachusetts. 330 pages. E-book. Open Access URL: http://www.easterncoyoteresearch.com/MudIMeanAprilInYellowstone.

Pay it Forward

Dear Reader,

I have a love affair with Yellowstone. It is an amazing place with tremendous scenery, awe inspiring geologic features, and abundant wildlife, along with great people happy to be in the world's first national park. I have been to the park 24 times up through early 2021, for a total of 213 days. I have written four books related to my experiences: <u>My Yellowstone Experience</u> (2013), <u>The Trip of a Lifetime</u> (2020), <u>Christmas in Yellowstone</u> (2021), and <u>Mud, I mean April, in Yellowstone</u> (2021). However, because the majority of people travel to national parks in the summertime, I thought a tome about wildlife in Yellowstone during the busy season would be a unique contribution to the literature, and would be personally meaningful to the many tourists who visit the park during the busy season to seek out the park's famous fauna.

This major project came about, in part, because many of my Facebook friends (including family members) continue to be enchanted with the pictures that I post when I travel. For this pictorial montage, I combed through about 7,000 images from my 7 most recent summertime trips and select files from other trips, and chose my best 661 pictures of wildlife (including some scenery added in) during the summertime.

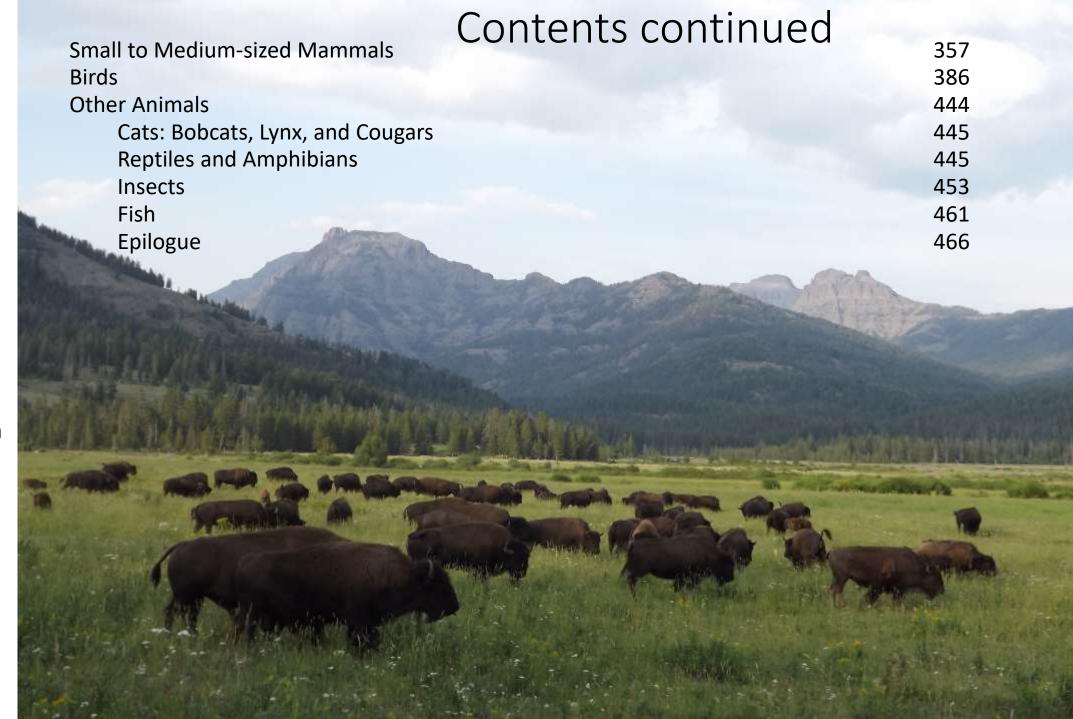
Thanks in advance!
Jon Way

This picture and cover: Bison in Lamar Valley go hand-and-hand during the summertime. They are the most visible and iconic of Yellowstone's wildlife and why I chose them as the cover image. It is virtually impossible to not see bison in this beautiful valley during the summer, especially in the flats where large herds graze on grass. Picturesque Specimen Ridge frames the background of both pictures.



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Bison in Round Prairie in the far northeastern part of the park.

Preface and Acknowledgements

I have a great affection for Yellowstone. It is a tremendous place with fabulous scenery, jaw dropping geologic features, and plentiful wildlife. Almost all of the people are cheerful to be there, and are pleasant to interact with. I have been to the park two dozen times for two-thirds of a year, and I have written four books related to my experiences. My first is a color print guide book, *My Yellowstone Experience* (2013), and was based on my first 14 trips totaling 123 days. *The Trip of a Lifetime* (2020) is a 561 page e-book based on my 21st journey into the park during July 2019, which lasted 7 days, as well as two additional weeks in other western national parks. *Christmas in Yellowstone* (2021) is based on a dream 9 day trip I took during the 2020 holiday season. Lastly, *Mud*, I mean April, in Yellowstone (2021) is based on a 9 day trip I took in mid/late April 2021 and it highlights the mud season as nature transitions from winter to spring.

As I have published and reflected upon those books, I came to realize that all of them are a highlight of the many experiences that I have had with lots of scenery, geothermal features, and wildlife. I realized that it was time to take my personal memories out of the limelight and instead summarize the park and its wildlife that I have observed during my many trips. Because the majority of people travel to national parks in the summertime, I thought a book about wildlife in Yellowstone during the busy season would be a unique contribution to the literature, and would be personally meaningful to the many tourists who visit the park during the busy season.

I took numerous trips there during the 2010s, the majority of them being during the summer months. Until now, I have not published the findings from those visits. My son, Nathan, was young during that timeframe, so I spent much time wildlife watching with him during his 6 trips with me. The result of those expeditions along with a few other trips is summarized here. In addition to Nathan traveling with me, Steve Cifuni has been a good friend and frequent travel companion. He has gone on the majority of those trips too and has been instrumental in keeping me motivated to visit all of the places that we have both visited in the park, and elsewhere. We've had the fortune of being able to leave our vehicles at Steve's parents' house just outside of Boston, Massachusetts, and are then driven to Logan Airport by his father, which I greatly appreciate. In addition to Nathan and Steve, there have been other friends and family members who have traveled to the park with me, and I want to thank all of them for their comradery over the years. And thanks to the people who helped me with obligations at home when I was gone, including Tara Way, Robin and Tim Way, Michael Way, C. Alex Wells, and Tom Morgan!



The table below summarizes my trips to Yellowstone, which started on a cross country voyage with my family when I was in high school, and goes through early 2021. The ones denoted in bold are the focus of this book for a few reasons. One, my first book, *My Yellowstone Experience* (2013), has many of my best images from my first 14 trips and trips 15-20 and 22 are not represented elsewhere besides social media sites (*Note:* Trip 21 has to do with my book *The Trip of a Lifetime*). Two, those were the majority of my most recent trips to the park and are clustered during the summertime due to work-life situations forcing me to travel then. Three, by that point I had then became very familiar and knowledgeable about Yellowstone's wildlife, and also became adept at organizing my pictures which made them easy to retrieve for this endeavor. Four, and perhaps most importantly, camera technology has improved dramatically from when I first started visiting and taking pictures in the early 2000s. I started with a 6 X zoom point-and-shoot digital camera in 2004 and now have my third generation version, an 83 X optical magnification \$500 device that is nearly as powerful as some of the very best equipment available on the market, especially when I take those images on a tripod to obtain a steady shot.

Trip#	<u>Date</u>	# of days		Trip#	<u>Date</u>	# of days	
1	July 1992	4		13	Mid-Mar. 2012	7	
2	May/June 1996	22		14	Early-Mid Oct. 2012	8	
3	Mid June 2001	10		15	July 2013	8	
4	Feb/March 2004	10		16	Late March 2014	8	
5	Early June 2005	10		17	July-Aug. 2014	8	
6	Late June 2006	9		18	June 2015	10	
7	Mid-April 2007	7		19	Late-July to Mid-Aug 2015	15	
8	Late Nov. 2007	7		20	Late June 2016	7	
9	Mid/Late April 2009	8		21	Early July 2019	7	
10	Mid Oct. 2010	8		22	Mid-July 2020	9	
11	Late Jan. 2011	5		23	Christmas 2020	9	
12	Mid/Late Oct. 2011	8		24	Mid/Late April 2021	9	
*Trips in bold are the focus of this book							

While I've been to Yellowstone many times, it has taken a relatively short period of time to obtain all of the images, especially of wildlife like wolves, that I have gathered for this and my other previous books. This area is one of the best places in the world to see and photograph wildlife, especially when starting the day at pre-dawn and continuing to dusk. There are some important reasons why it is so special for wildlife sightings: 1) Probably most importantly, is that wildlife are protected from human killing in a large 2.2 million acre area, and they seem to understand that compared to outside the park. 2) Much of the northern, and a section of the central part of Yellowstone, is open which makes it is easy to see wildlife from a distance. 3) There are a variety of people, ranging from casual tourists to long-time visitors (who spend from weeks to months a year in the park) to park employees, who all observe wildlife full-time when there. This network of humanity literally puts eyes on the ground throughout the park, especially in the Lamar Valley area, which greatly facilitates wildlife viewing.

I want to thank all of those visitors and employees of the park who have aided with wildlife sightings. Chief among them is Rick McIntyre, wolf watcher extraordinaire and former National Park Service employee, who I have featured in all of my Yellowstone books. Rick has observed over 100,000 wolves in Yellowstone and is widely regarded as the person who has observed the most wolves by anybody in history! Yes, in history! I always treasure spending time with Rick when there and am proud to call him a friend. I want to also thank Wolf Project technician Jeremy SunderRaj, who is essentially Rick's protégé, along with seasonal park ranger Bill Wengeler, the many park employees who have aided with my wildlife sightings over the years, and dozens of other wolf watchers, especially Kathie Lynch, Dan and Laurie Lyman, Mark and Carol Rickman, Susan and Reve Carberry, and Doug McLaughlin and Melba Coleman of Optics Yellowstone. While many folks, including myself, focus on observing wolves to start each day, in actuality we see many species in our travels either as a result of their interactions with the large canines or because they are in the same general area. Many of the wolves are radio-collared in the park and their signals' facilitate where to look for them and ultimately this allows us to view them.

There is a great website, https://yellowstonereports.com/index.php, which details the daily activities of the wolves and other Yellowstone flora and fauna. Laurie Lyman, a retired teacher from California, and a friend of mine, summarizes these happenings with her observations and her friends' reports when she is there. These daily reports are amazing and keep folks like me up-to-date when not in the park. When I am there, I try and do my part by reporting to Laurie what I see to keep others informed of exciting happenings in Yellowstone.



I greatly appreciate the comments and support – both emotionally and financially – of my many Facebook friends (including family members) over the years. They have given me the motivation to publish many of these manuscripts. I have found that e-books are the easiest and by far cheapest way of producing these pictorial tomes and hope that you enjoy this format.

My most recent books, such as the <u>Christmas</u> and <u>April</u> volumes noted on pages 2 and 7, are a direct result of social media posts, which gave me the outline for the storyline. I have taken thousands of images over the years with the vast majority being pictures, along with some videos. For this pictorial montage, I combed through ~7,000 images, comprising the aforementioned 7 summertime trips (including some of Steve's better pictures), as well as select files from other expeditions. I created a folder of 702 of the best wildlife pictures, another with 191 scenery pics for section transitions and context for some of the zoomed in wildlife pictures, and a third with 63 miscellaneous images, such as cabins where we stayed and pictures of us in action. Many of those images have been shared previously on social media when I was in the park, but they have never before been published in an organized volume, aside from the <u>July 2019 pictures</u>. To show off Yellowstone's wildlife during summer, I used the top 661 pictures herein.

My mother, Robin Way, copy-edited the text to make it more professional, as she always does. Her comments and support over the years have been crucial to my ability to publish all the books that I have. I can't thank her enough. Steve also provided useful comments on an earlier version. Lastly, the National Park Service provided helpful maps to direct readers to important locations that I visited in the park. I also cited many of their weblinks when referring to specific species.

My friends Bob Landis, cinematographer extraordinaire; Dr. Bob Crabtree, Founder and Chief Scientist of <u>Yellowstone</u> <u>Ecological Research Center</u> (YERC); and long-time wolf watchers Mark and Carol Rickman from Colorado have all greatly enhanced my/our ability to visit the park as all have offered housing over the years and stimulating conversations about the park's wildlife. Bob C. has also allowed me to use spare vehicles and his staff at YERC, especially Melissa Todd, who has often facilitated the use of those cars. Due to the generosity of everyone mentioned in this chapter, I truly view this and my other books as collaborative efforts.

I hope you enjoy it and are able to donate to support my research which will help keep these e-books in Open Access format. Please see the *Pay it Forward* page at the beginning of this document if you want to support my work. Thank you!

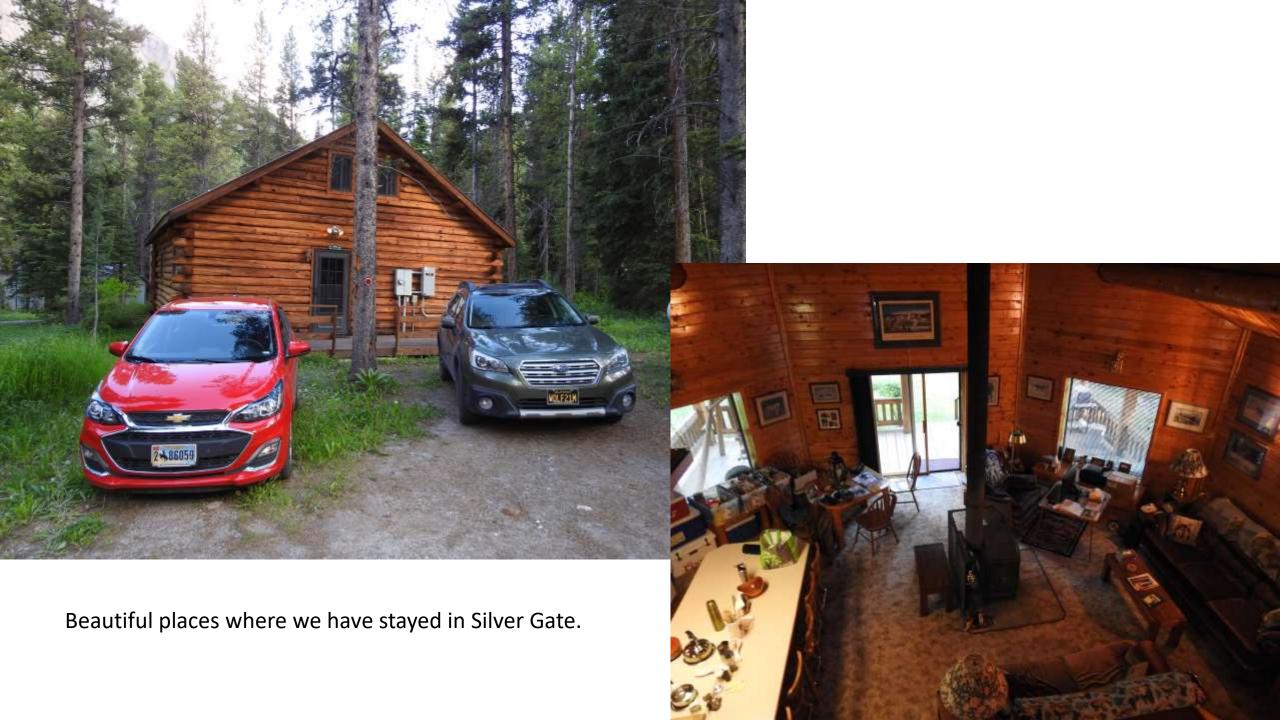




Places where we have stayed in Cooke City including YERC's A-Frame (top and next page) and camper (bottom).



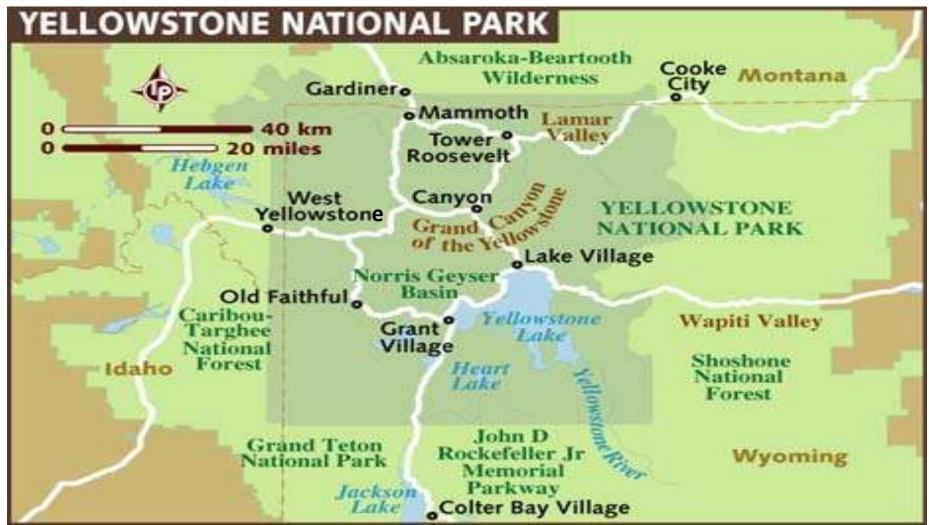




Maps of Places Visited

During the summer, we spent the majority of our time in the northeastern part of the park, especially in the Tower to Lamar Valley area. We usually lodged in Silver Gate and Cooke City to be close to the action as the most visible wolf packs are in the Lamar Valley area. We visited the other regions of the park more to view scenery (e.g., Grand Canyon of the Yellowstone) or geothermal features (Norris and Old Faithful) with one exception: Hayden Valley between Canyon and Lake Village, which reliably has a visible wolf pack (now called the Wapiti Lake Pack but that has changed over the years) along with bison, elk, and

grizzly bears.

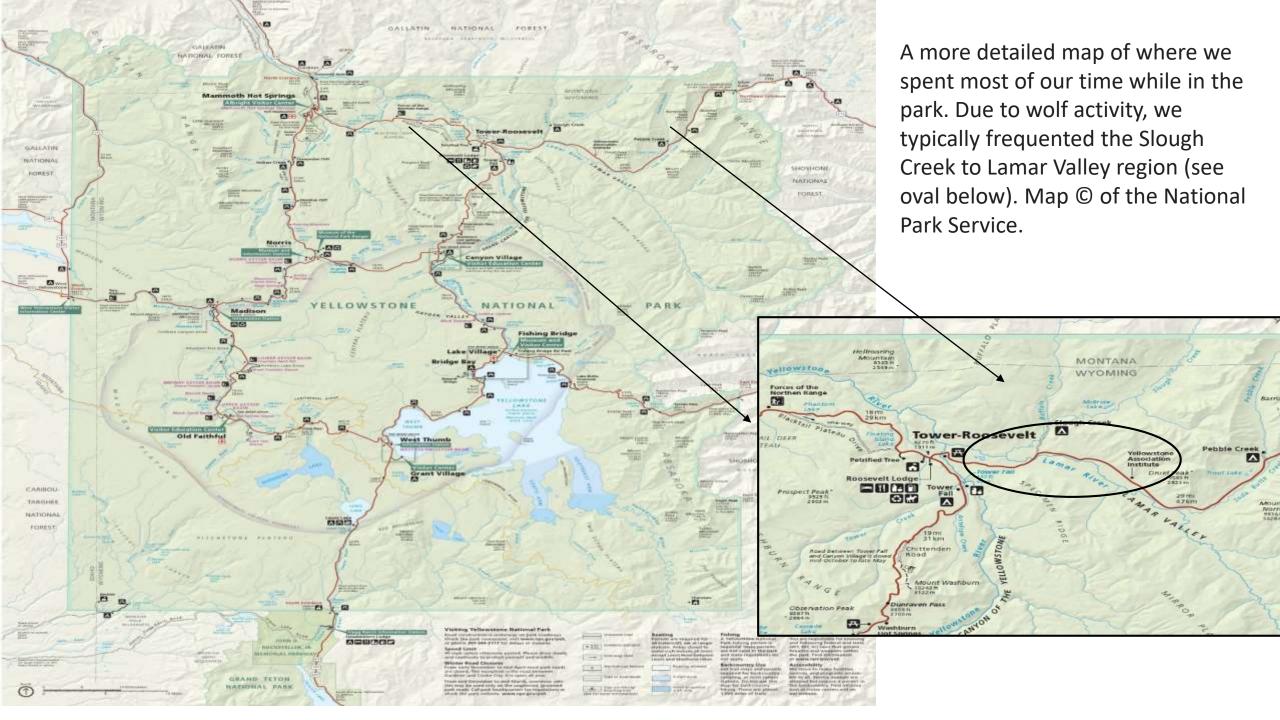




The open nature of Hayden Valley in the central part of the park is a magnet for wildlife watchers during summer.









Because Hayden Valley is closed to vehicles in the winter, the much larger Lamar Valley area provides year-round wildlife viewing.



Slough Creek flats is just west of Lamar Valley proper but many television documentaries lump this area together as part of Lamar Valley, since it is part of the roughly 30 miles wide (roughly west to east) 'Northern Range'. We have observed many wolves there over the years, including denning packs just to the right of this photo (see next page).



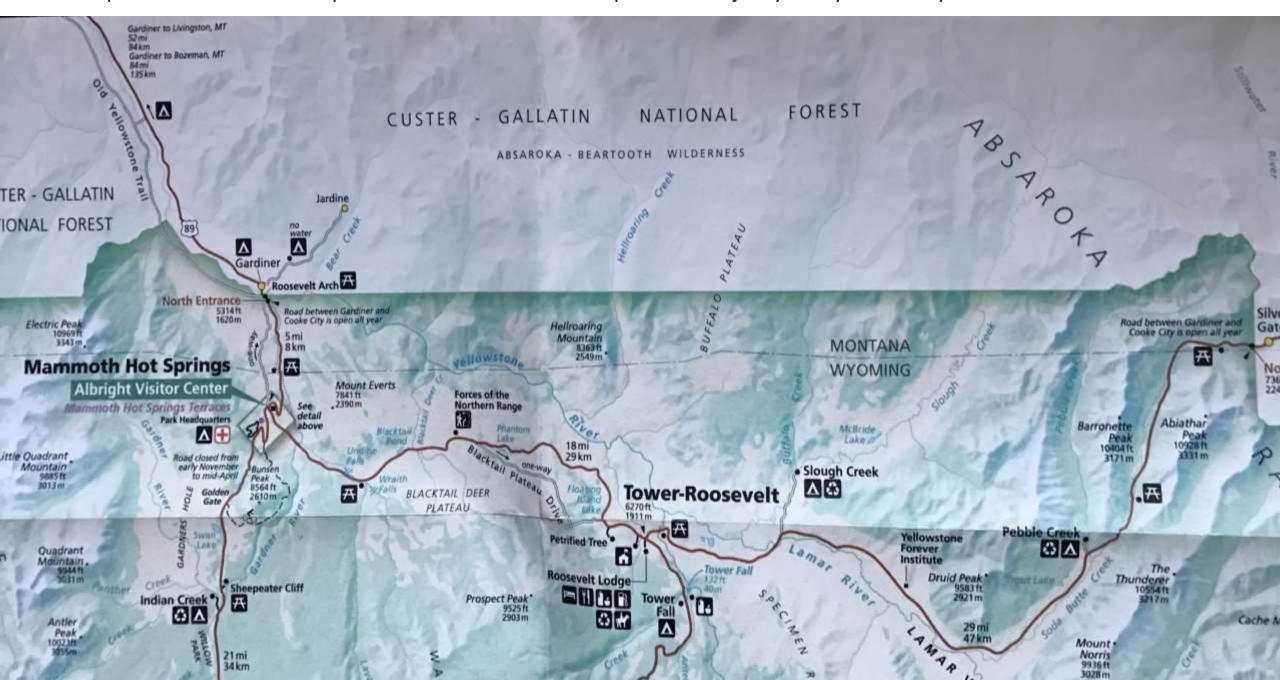




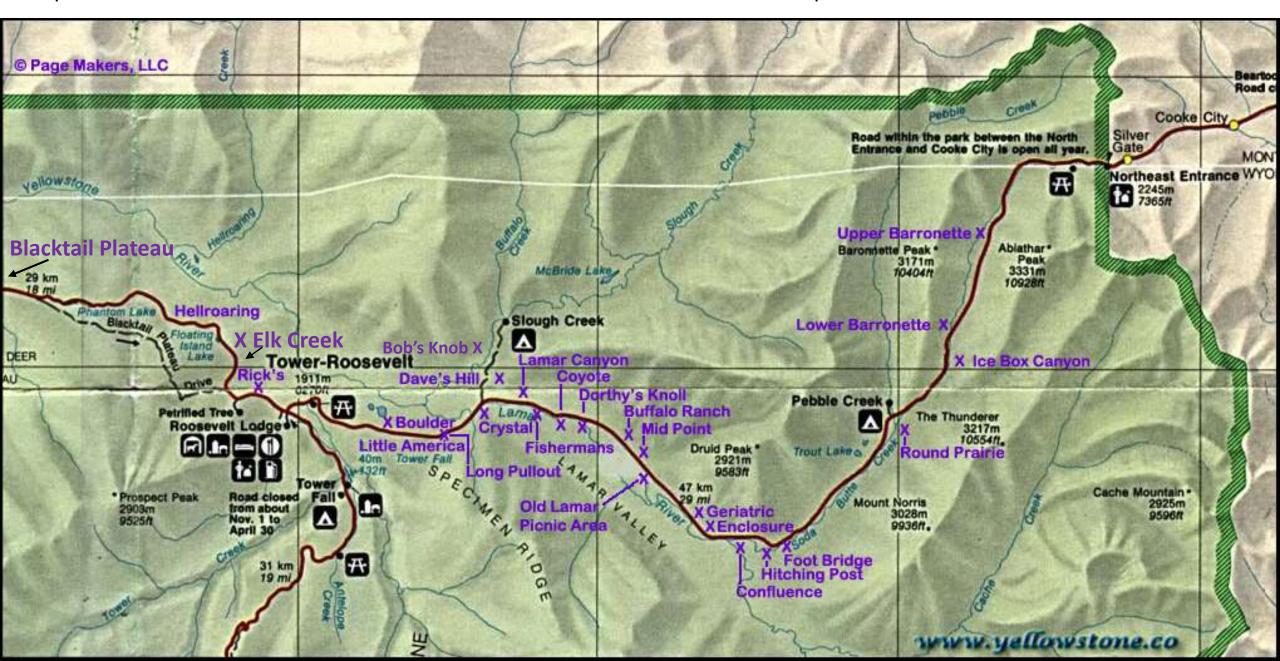
Wolf watchers looking for wildlife at the Slough den and Slough flats areas as shown in the previous pages.



A close-up view of the northern part of Yellowstone where I spent the majority of my time. Map © of the National Park Service.



Names of locations in northern Yellowstone in more detail. Purple names indicates pullouts/overlooks where many people stop to observe wildlife. The Blacktail Plateau is to the immediate west of this map.



The Lamar Canyon den area, in the trees and edge of the grassland below Druid Peak (top left), was used as a homesite by wolves for many years. It was close to the road (see 'Footbridge' parking lot center right) but required a half mile hike to the south to get a view over the hills immediately north of the road. The den area was in the trees in the center of the picture. Wolves, including pups, could be watched when they left the den area and came out into the open hillsides. 'Hitching Post' parking lot is just out of view behind a hill in the middle left of this photograph (see previous page).



Ungulates

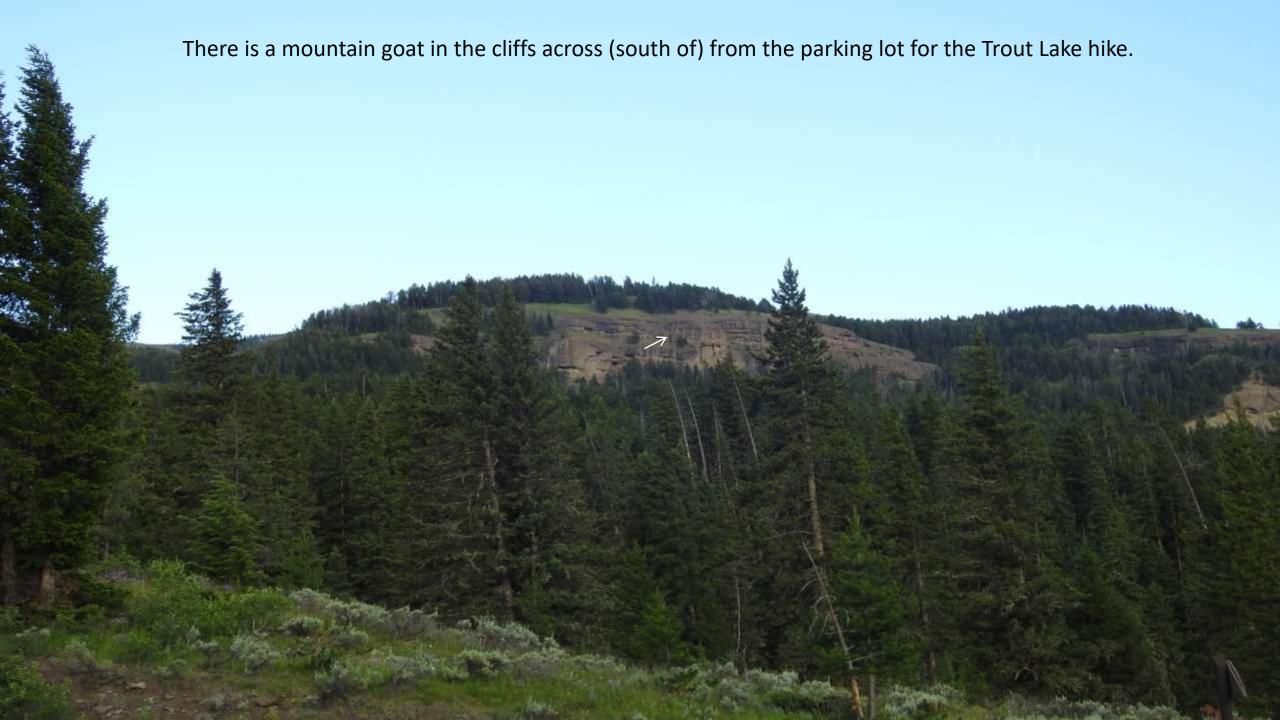
Yellowstone National Park is home to 8 species of hoofed animals, known as 'ungulates'. In this chapter, I show pictures from roughly the smallest to largest: mountain goat, pronghorn, white-tailed deer, mule deer, bighorn sheep, elk, moose, and bison. Mountain goats are native to North America but apparently not the Yellowstone area. They colonized high elevation areas of Yellowstone after introduction to mountain ranges outside of the park. Populations have expanded from areas outside of the park in the Beartooth Range to the northeastern section of the park around Mt. Barronette and Round Prairie. There are also some in the northwestern part of the park too. The other 7 ungulates are native species with different habitat needs. I will discuss each one as they appear in this chapter. Lastly, I will conclude with horses, a 9th species of hoofed animal present in the park when humans transport them there during summer.



Mountain goats in alpine vegetation in the Beartooth Range east of the Northeast entrance of Yellowstone. This population eventually expanded down to colonize the park.













Pronghorn Pronghorn bedded in 'Little America' in the Slough Creek area.

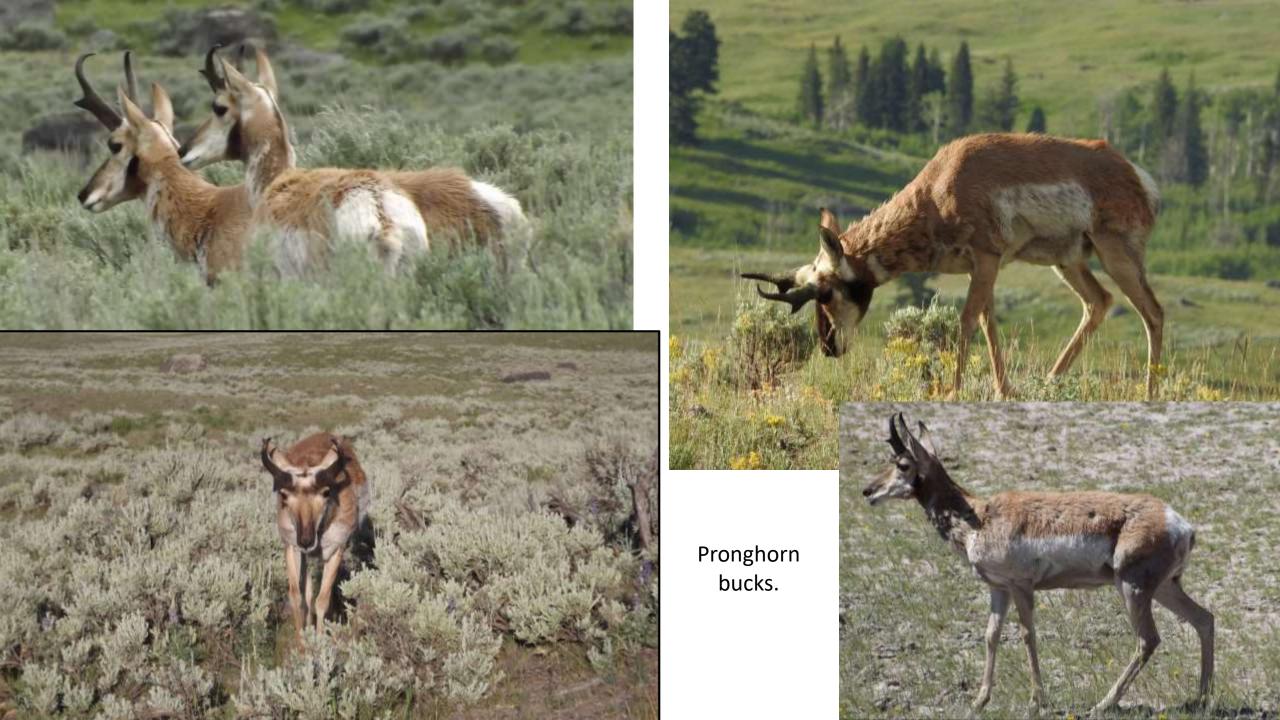






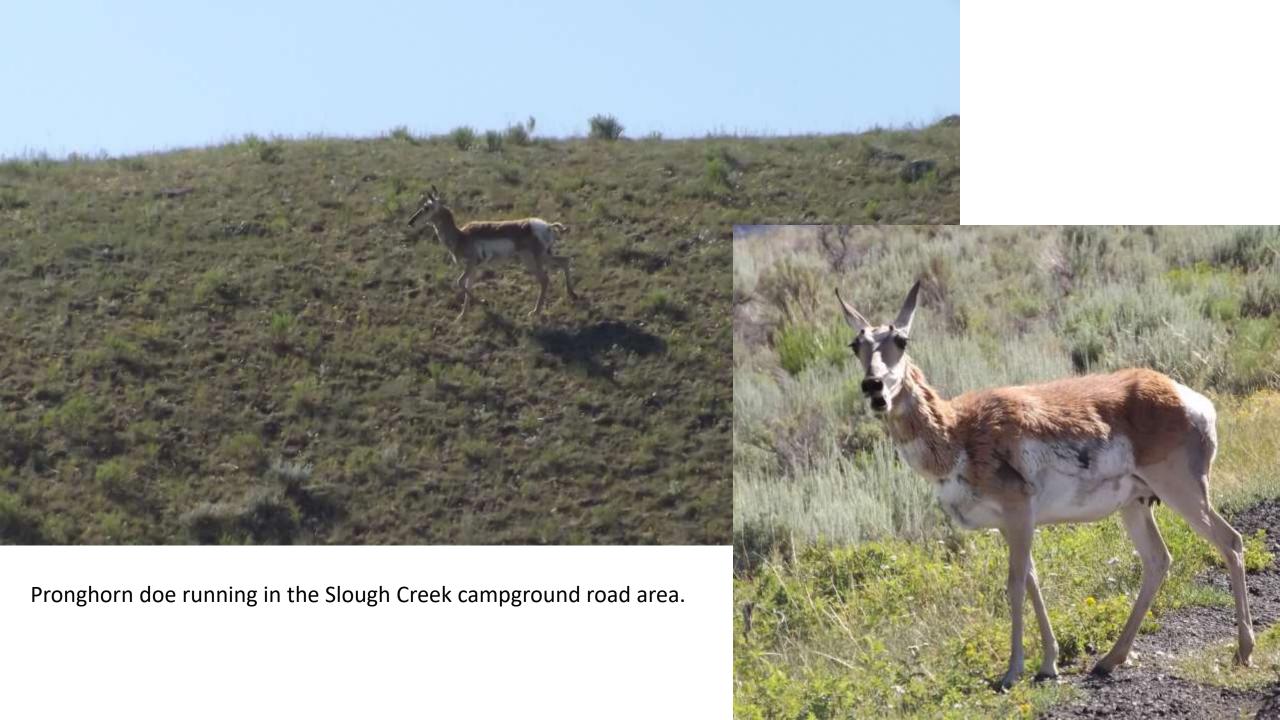




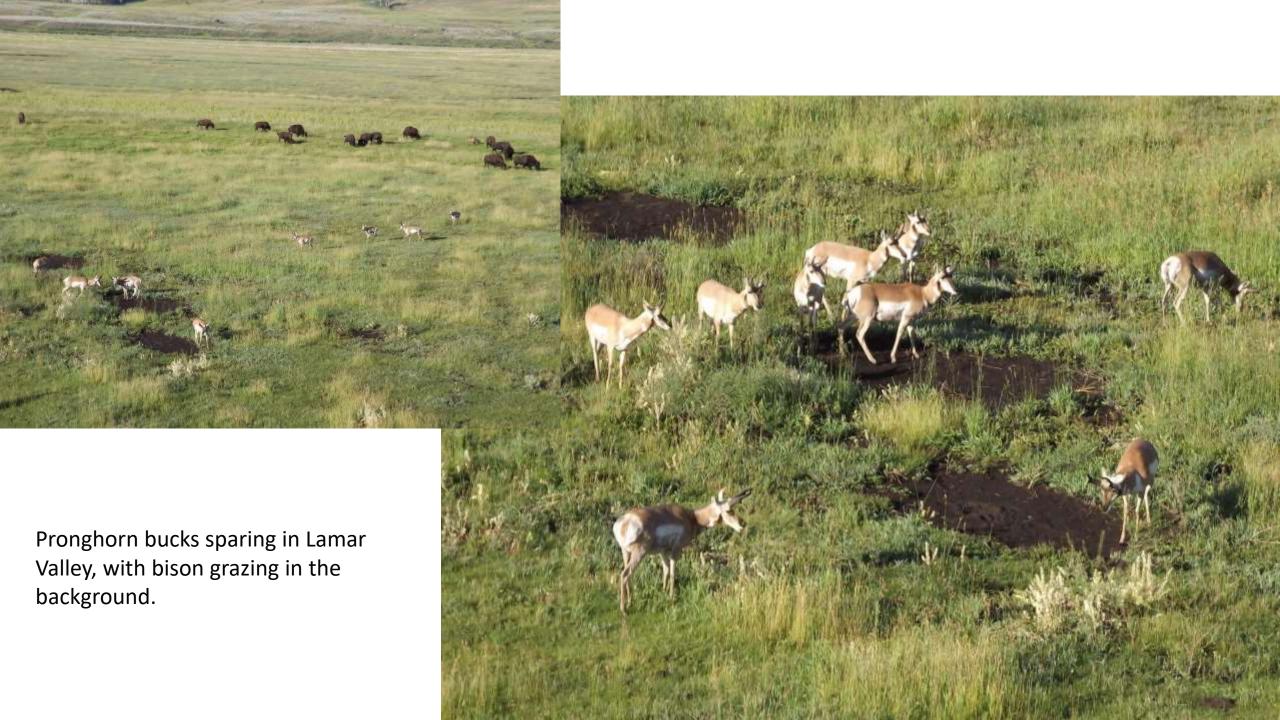




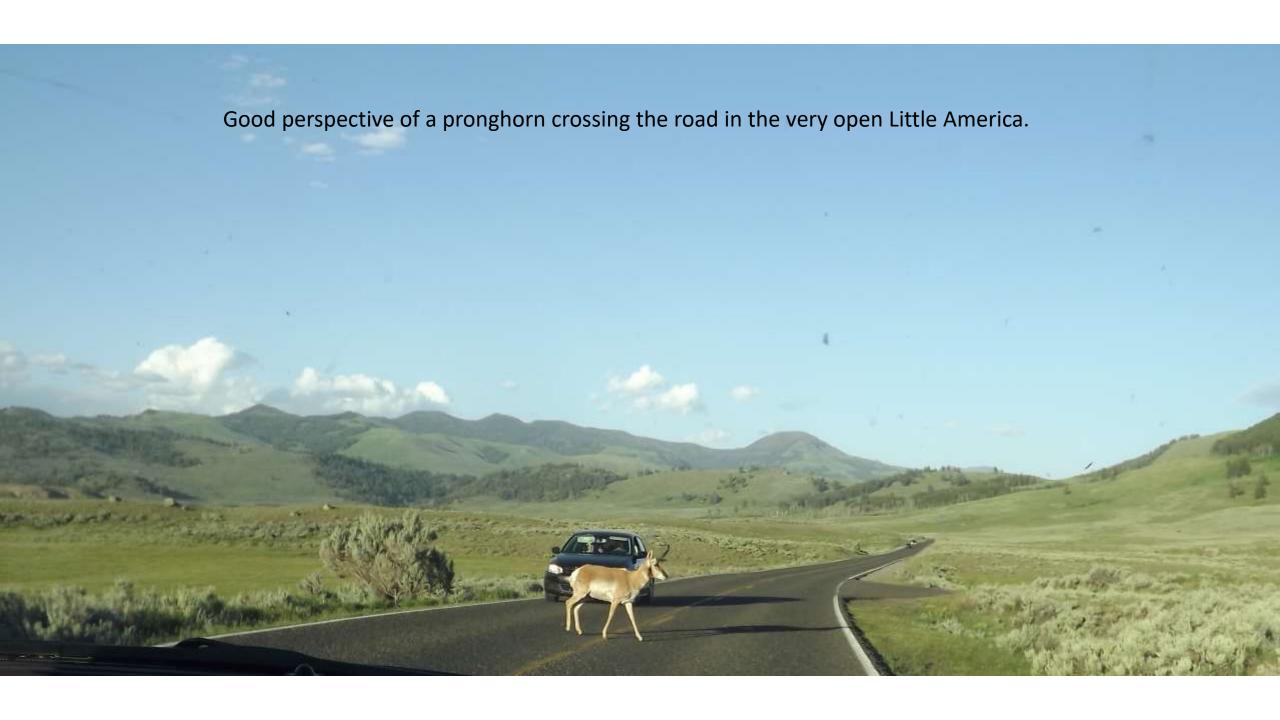






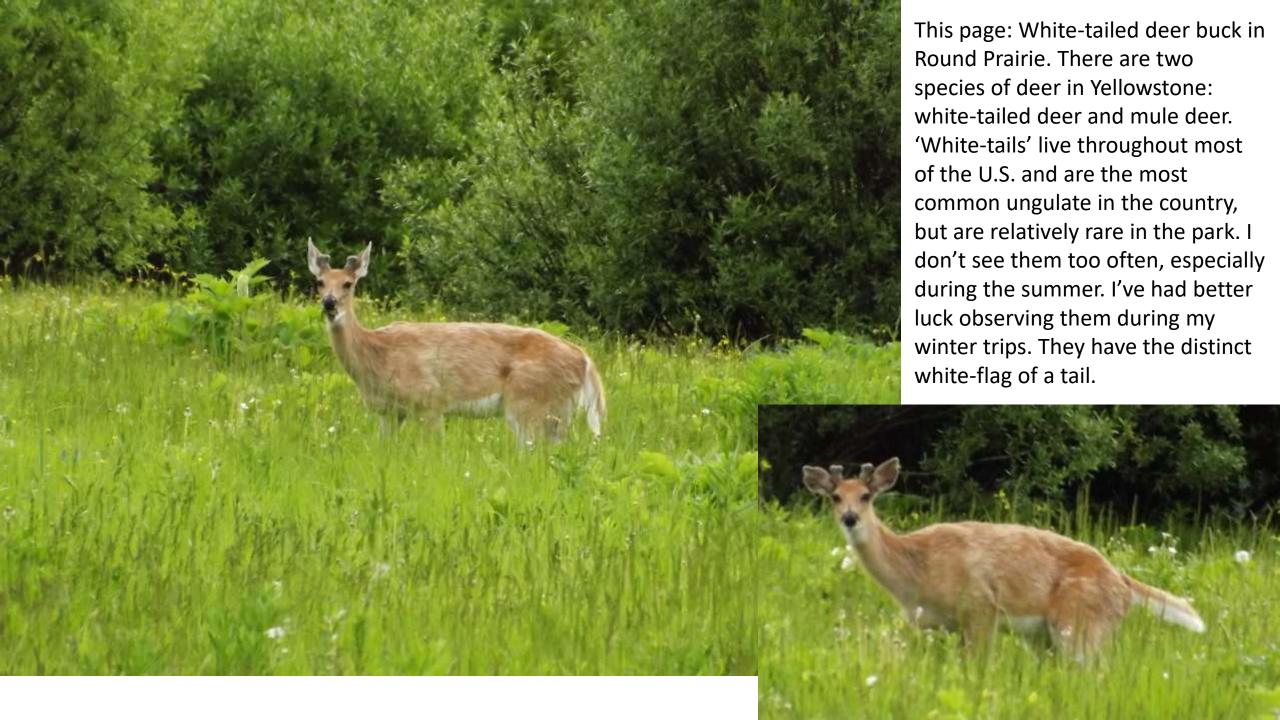


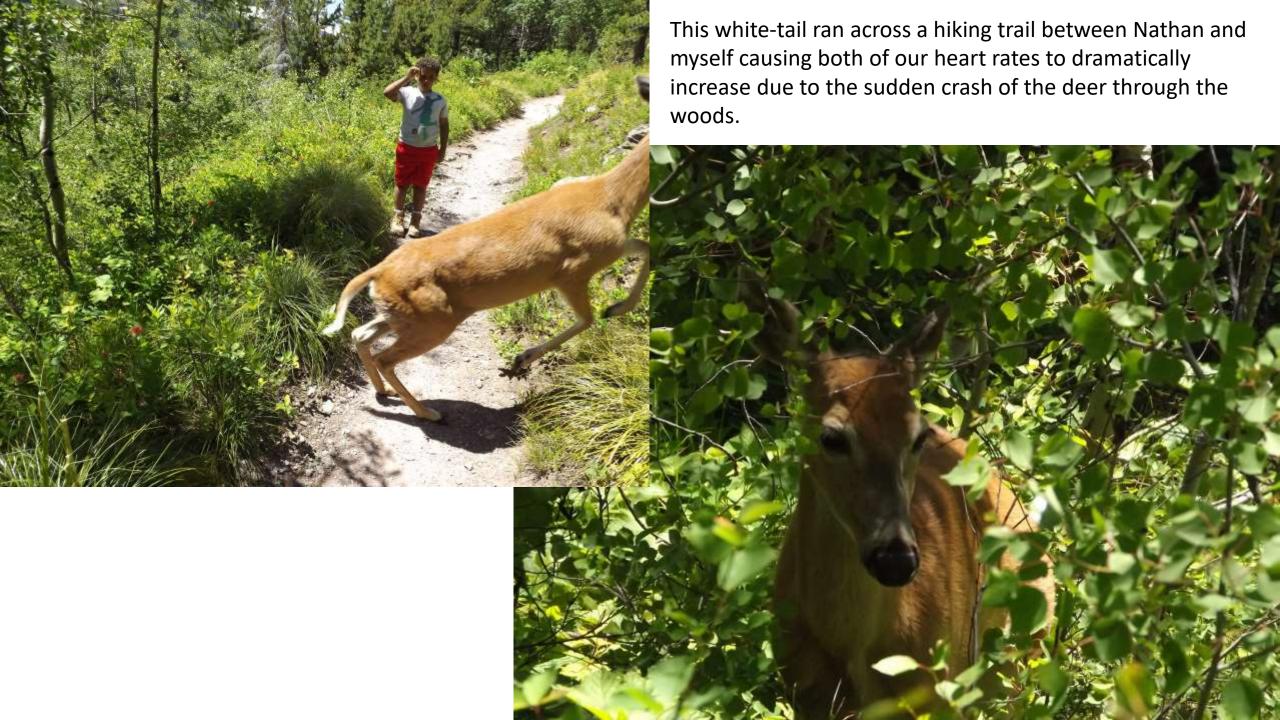


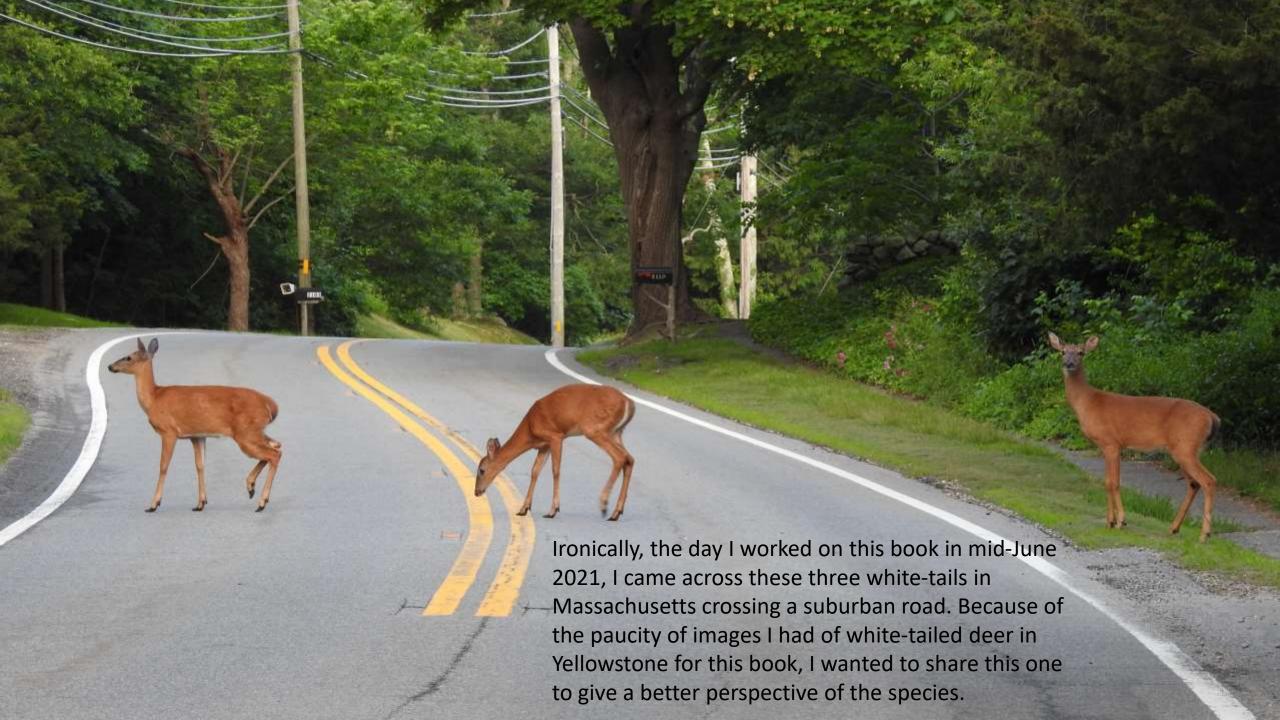






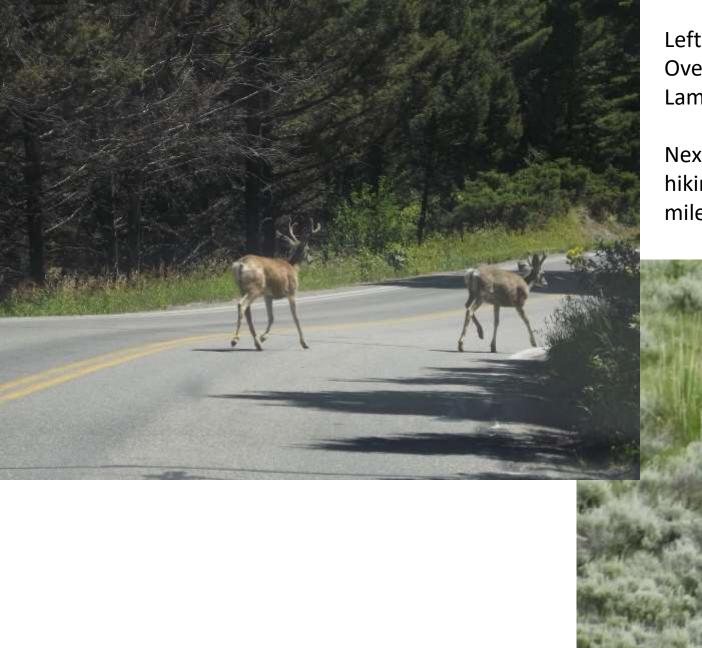












Left: Two mule deer crossing the road near Hellroaring Overlook while a small group of 'mulies' are on alert in Lamar Valley (bottom).

Next page: A mule deer doe looks down at me while I'm hiking in the backcountry along Cache Creek about 4.5 miles from the 'Footbridge' parking lot in Lamar Valley







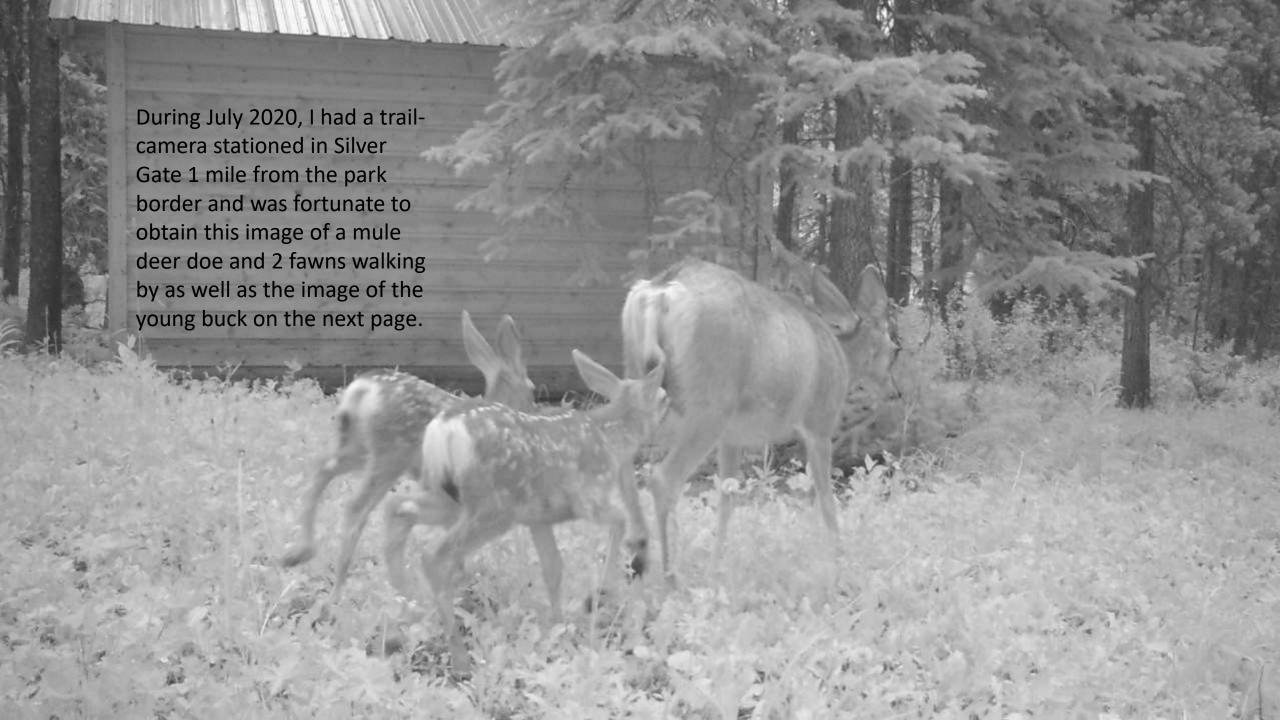
Mule deer in Round Prairie along the Soda Butte River.

Next page: Mule deer doe in a different section of Round Prairie among wild flowers.







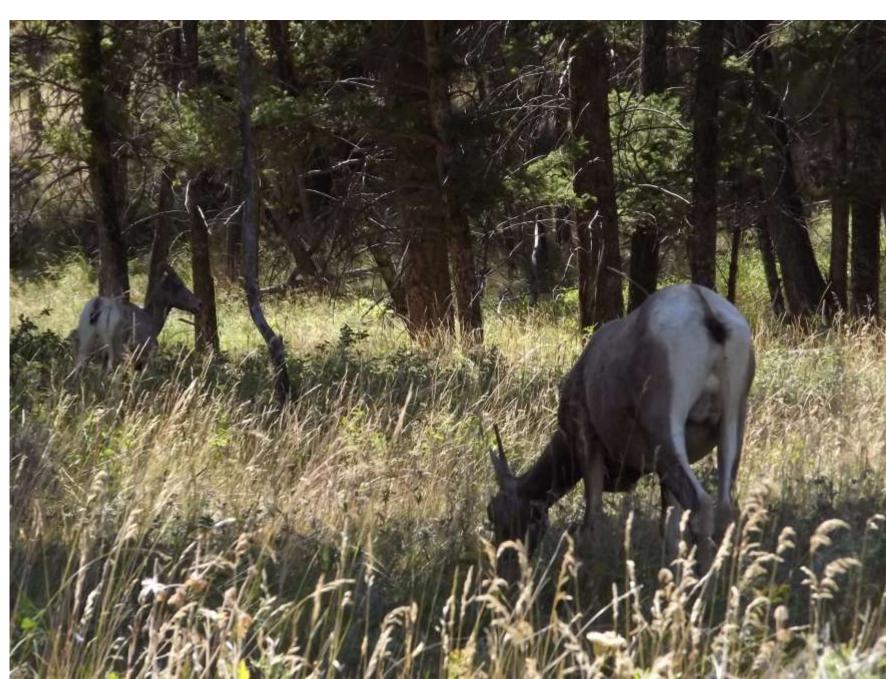






'Bighorns' typically inhabit steep mountainous areas similar to mountain goats. In Yellowstone, I mostly see them in lower areas than goats, who are often at the very top of mountains. However, both critters live in and around steep, hilly areas to avoid predators (next two pages).







Good perspective of the bighorn sheep from the previous page in Gardner Canyon showing the steep country where this animal lives. Notice the 'Sheep Management' sign (circled) to the lower left which prohibits people from entering this area.





Bighorn sheep ewes in Gardner Canyon (right) with two lambs nearby (below). I often see bighorns here and in the Lamar Valley area in the winter. In the summer, they often move to higher country like those around Mt. Washburn (next 2 pages).











Bighorns in some absolutely beautiful country on the Mt. Washburn hiking trail with surrounding mountains in the background.





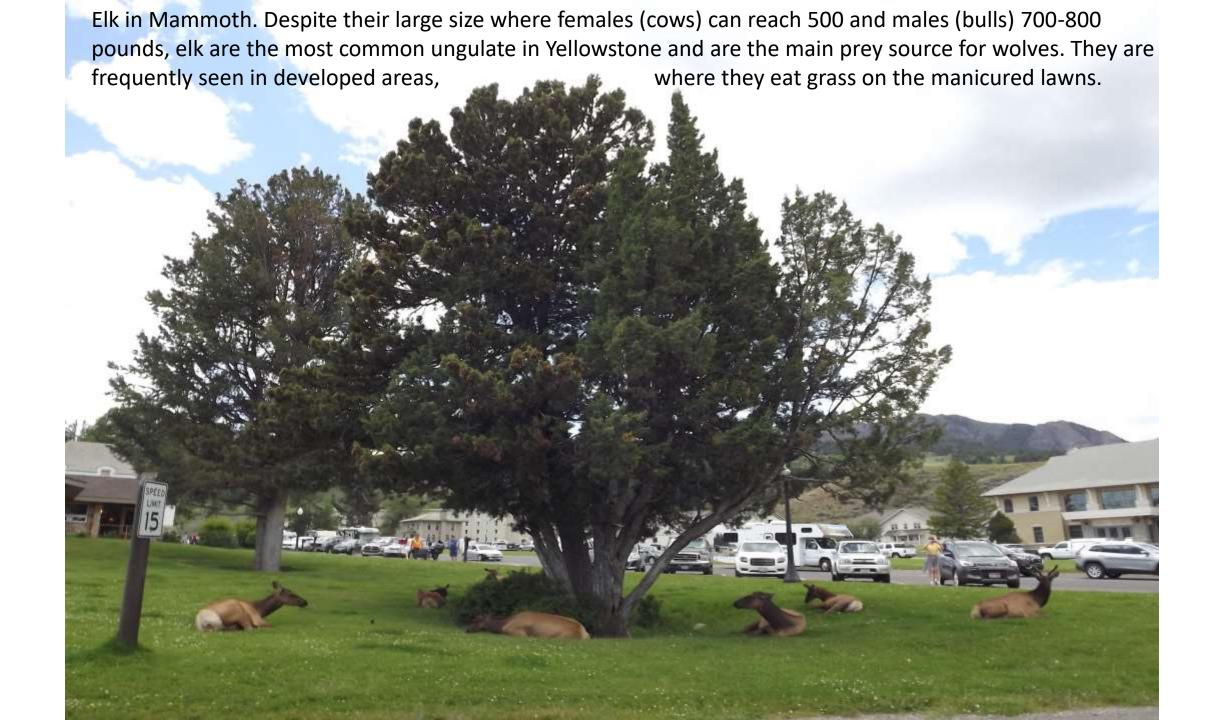


Most people go to Calcite for the stunning view of the calcium carbonate rocks and the unique geologic features present on the banks of the Yellowstone River. But just above the landmark and around the steep, grassy areas are the ever present bighorn sheep.











see next page). As a result of this carelessness, every year tourists are gored by bison and elk.

















Bull elk.







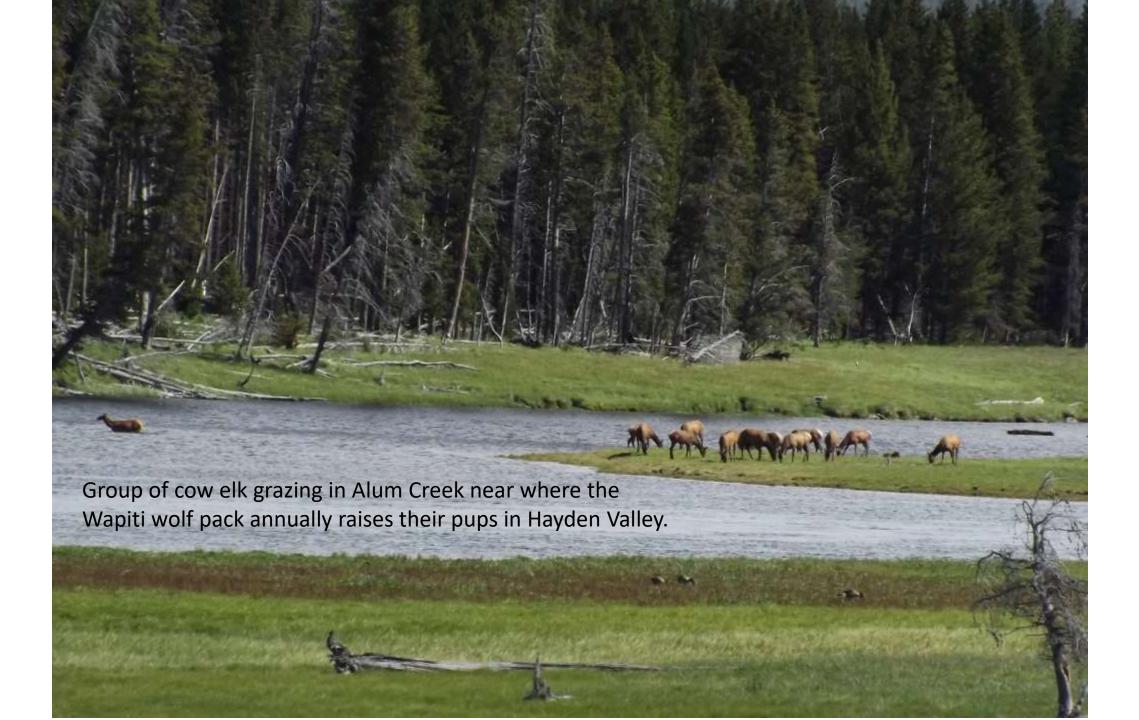
Very healthy cow elk.





Panoramas of elk in the town of Mammoth.



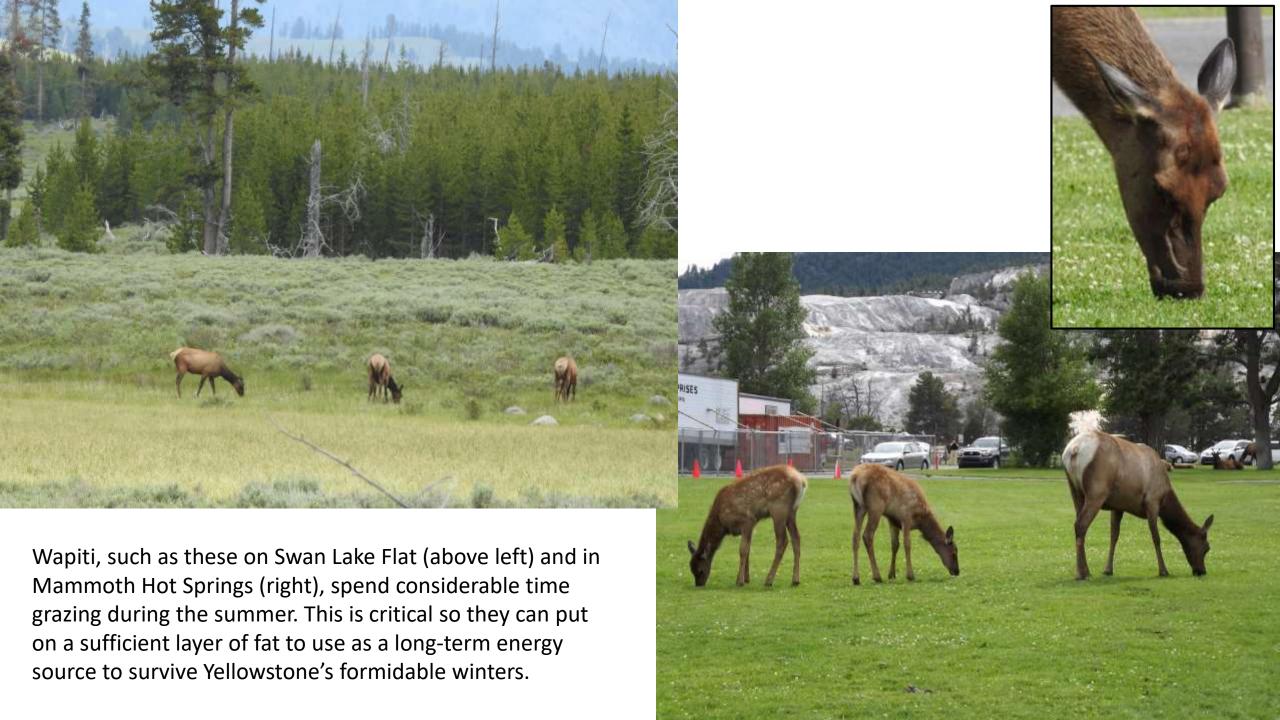


This and next page: A large herd of elk grazing on Willow Flats down in Grand Teton National Park, summer 2020. These elk are still part of the Greater Yellowstone Ecosystem, so I include this impressive group here.











Moose



Moose bull in the Lower Barronette Meadow in the far northeast section of the park (see close up of that moose on the next page). While moose aren't that common in the park, I seem to spot them during most trips, especially in the winter when they come out into open wetland meadows to feed on willows. However, I frequently see them in the summertime too!

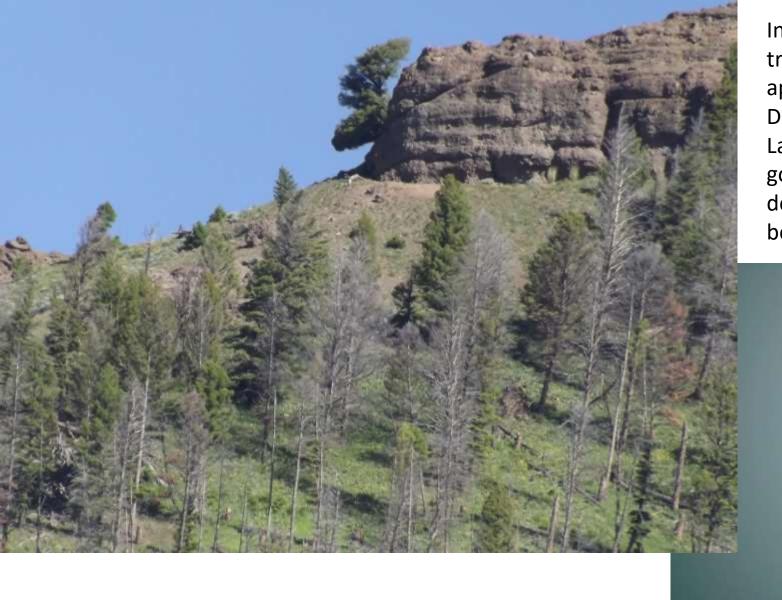












In an amazing act of similarity, this Douglas fir tree looks just like a bull moose's head and is aptly called the 'Moose Tree'. It is at the base of Druid Peak and near where the Druid and then Lamar Canyon wolf packs denned for years. It is a good frame of reference for people when describing wildlife sightings, most notably grizzly bears, up there.

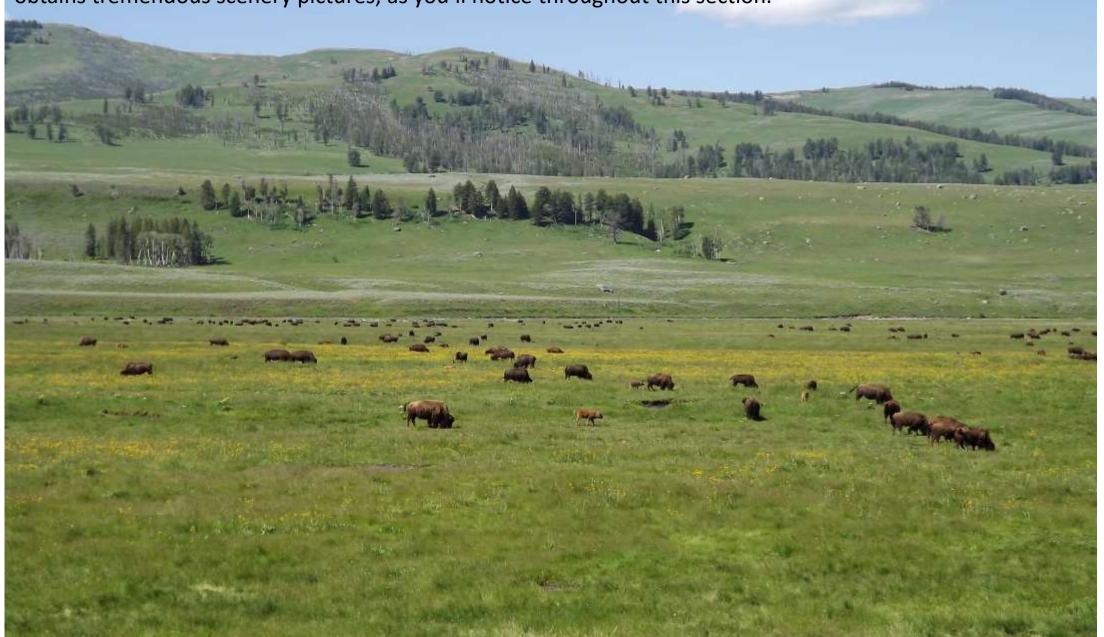


Bison

Last, but certainly not least, for the ungulates are bison. They are the largest North American mammal, reaching the size of a small car at up to 2,000 pounds. They are the most ubiquitous of all of the ungulates in Yellowstone and can reliably be spotted everyday in the open valleys and meadows. Over the years, I have taken the most images of this species of all of Yellowstone's animals and they have grown to become one of my favorite species. About 5,000 migratory bison live in the park year-round. They are relatively easy to keep track of because they live in open terrain and also because, sadly, the authorities in Montana limit their ability to roam outside the park. They are either pushed back inside the park through hazing, or are killed at the park border for simply being bison. This is a true example of modern day racism in action. Fortunately, groups like the <u>Buffalo Field Campaign</u> are there to document these ongoing injustices.



Bison grazing on clover and grasses on the flats of Lamar Valley with Jasper Bench (middle of picture) and Specimen Ridge (top) in the background. Bison herds often situate themselves in areas where one also obtains tremendous scenery pictures, as you'll notice throughout this section.





This is a really cool view of a bison herd near the road and people in Little America. I obtained the image as I was hiking up the unofficial Crystal Trail to look at petrified trees high up Specimen Ridge.



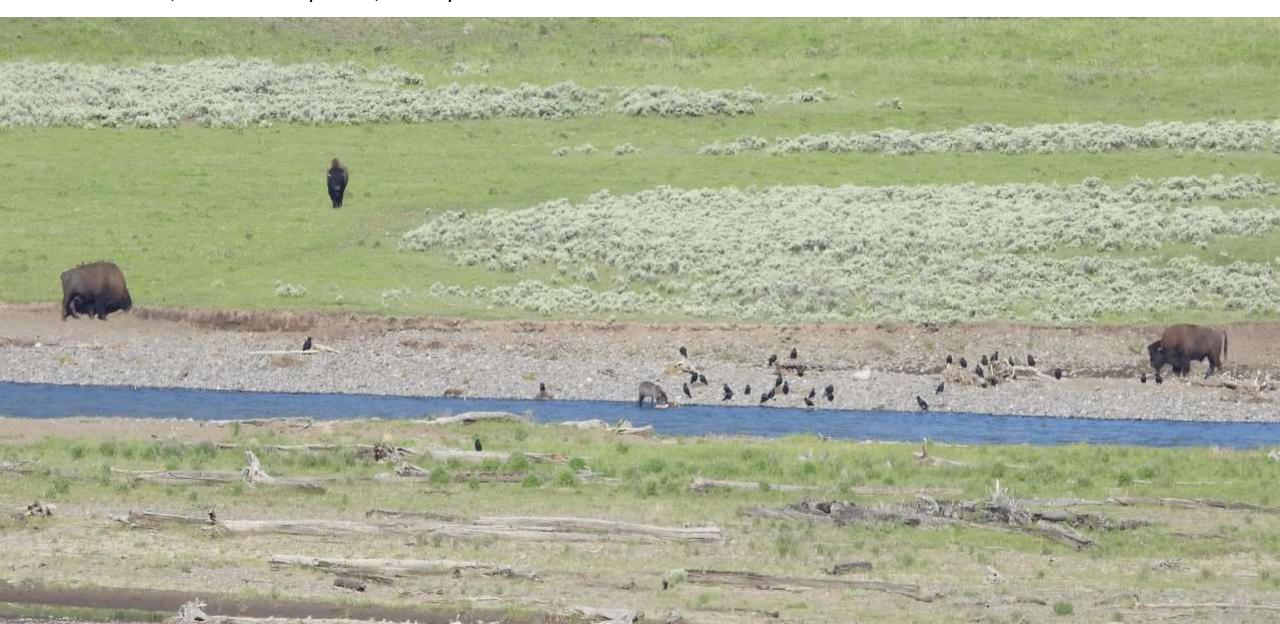


View from near the top of the Crystal Trail with a large petrified tree stump (left) and a commanding view of the surrounding valley (bottom). Notice the park road winding through Little America in both images.





Three bull bison approach a wolf and ravens in the Lamar River feeding on a bison calf that likely drowned. They briefly pushed the wolf off the carcass and caused the ravens to fly away before losing interest and walking away. Bison often have these 'funerals', similar to elephants, as they visit and sniff their fallen kin.



Bison grazing around the Slough Campground Road. We were looking for wolves to the north of this observation point. It is amazing to be able to pause scanning through our spotting scopes and see ~50 bison just below us to the east.



This huge bull passed by me at the western end of Lamar Valley. As this and the previous pictures have shown, Lamar Valley and the adjacent Little America region east of Tower Junction are some of the best places in the park to spot 'American buffalo', the other name for bison even though they aren't true buffalo.





Lamar Valley (below) and Little America (top) always have a lot of bison year-round, but especially during summer.



Many bison in Lamar Valley.















Bison in Lamar Valley on and near the road at dawn (top) and dusk (bottom and next page).

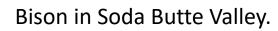




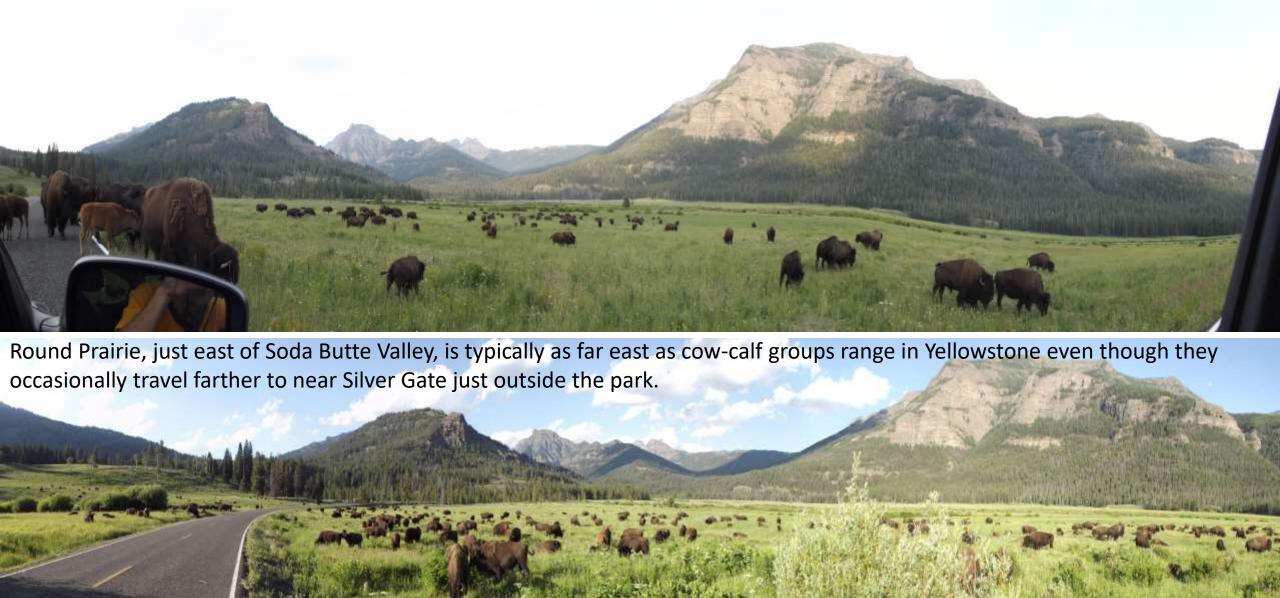
An eye-level angle of bison cows and calves walking away from the road in Little America.



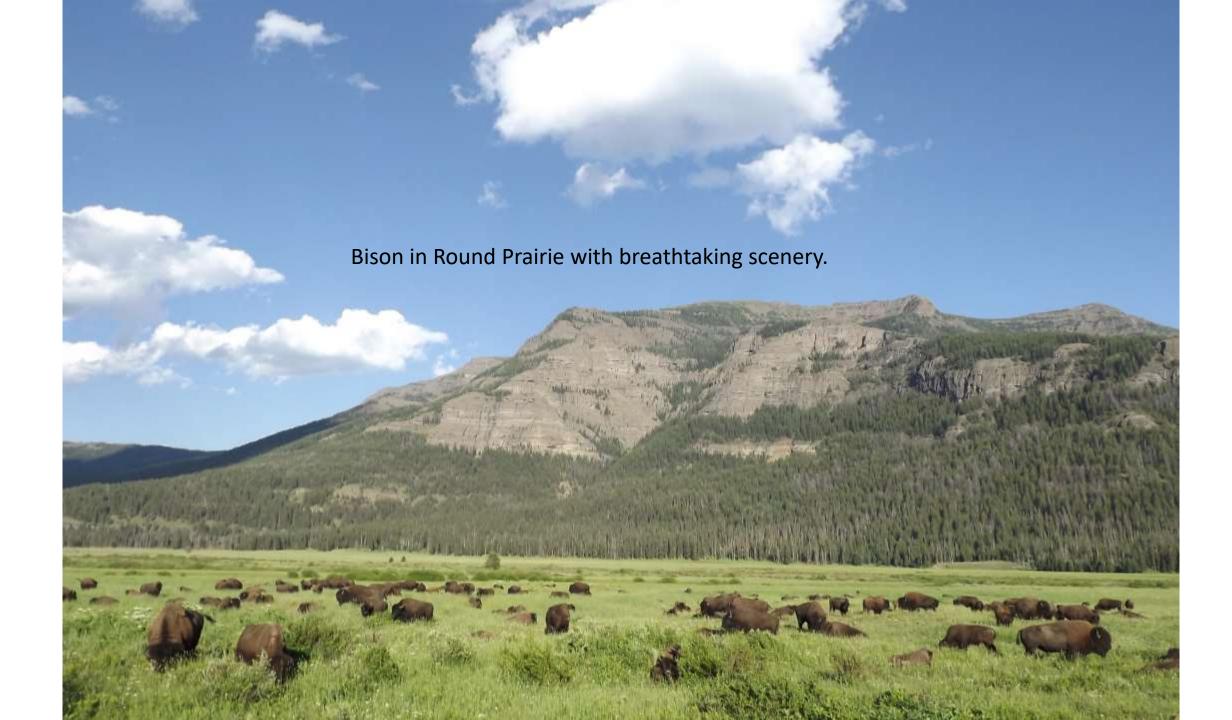














In addition to Lamar Valley, Little America, and other nearby areas of the northern range, the other major location to spot large herds of bison in the park is down in Hayden Valley in the central part of the park where the open landscapes there facilitate large gatherings of these ungulates (also see next page).













Watching and waiting for buffalo to cross roads is a daily part of life in Yellowstone. Sometimes busy summer days and lots of bison in an area can make for sizable traffic









Bison, such as these crossing the park road at the Crystal Creek parking lot, shed their winter coats in the early summer. They are perfectly healthy, even though some may think they are ragged or diseased.



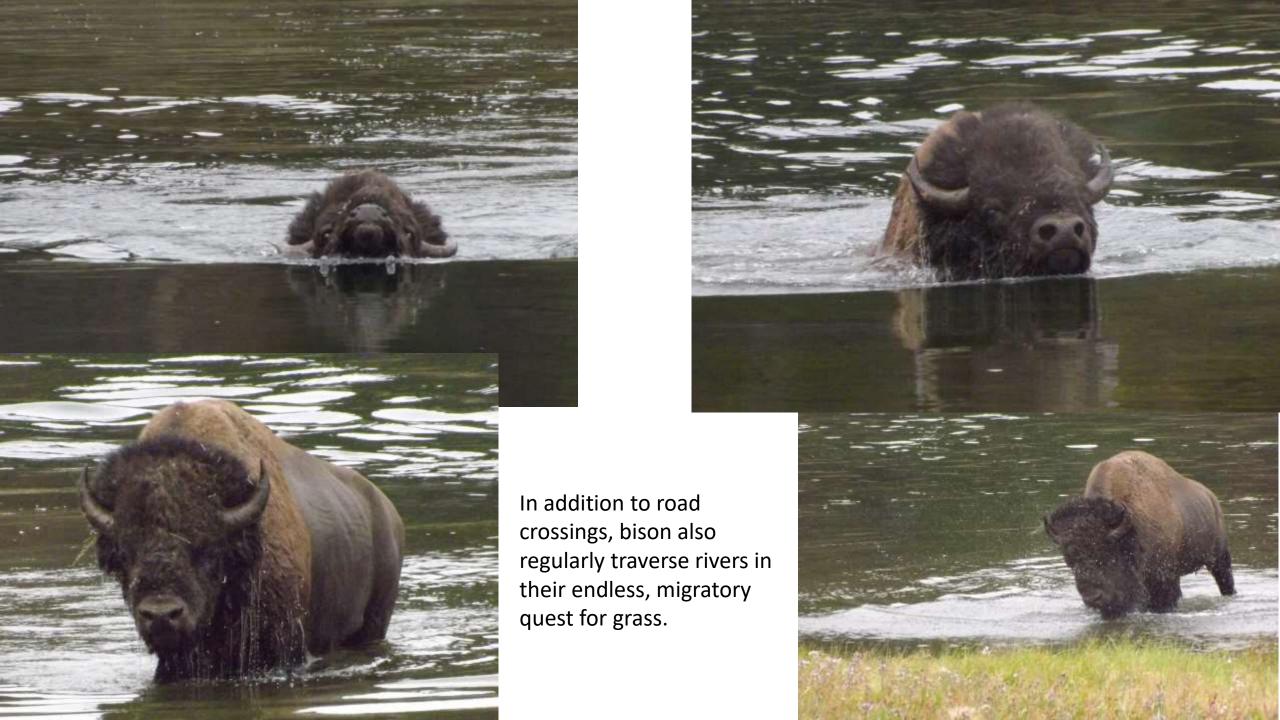




It is difficult to describe the sense of awe and wonder felt in watching, and even smelling, bison families as they travel past you, literally five feet from your car.











Only in Yellowstone can these river crossings be observed so easily from just off the park's main road system.









By early August, the grass starts turning from green to golden yellow, giving the landscape an early fall-like appearance. This is the time of the year when bison breed, a testosterone filled couple of weeks called the rut.

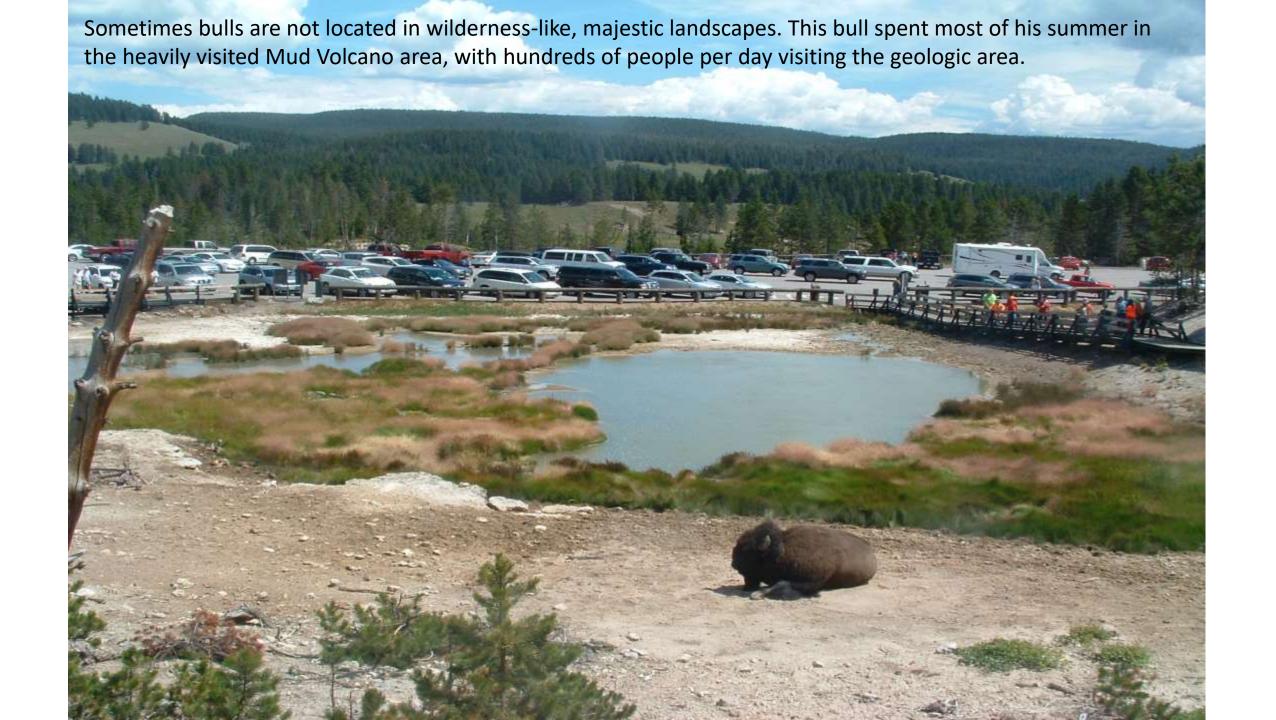


Old bull bison often spend the summer alone, such as these bison in Cooke City outside the park (top) and in the middle of the Mud Volcano Geyser Basin (right).

Next page: Two other solitary bulls enjoy the tranquility of July before the late summer rut begins.

















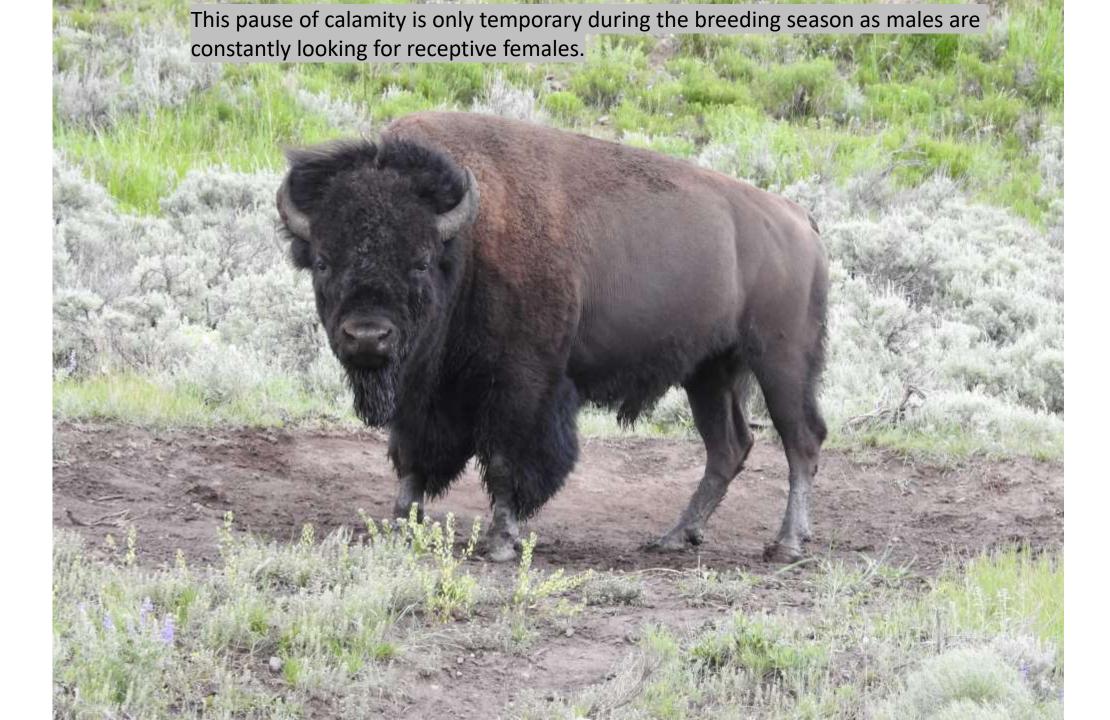






Male bison grunting to attract a mate.





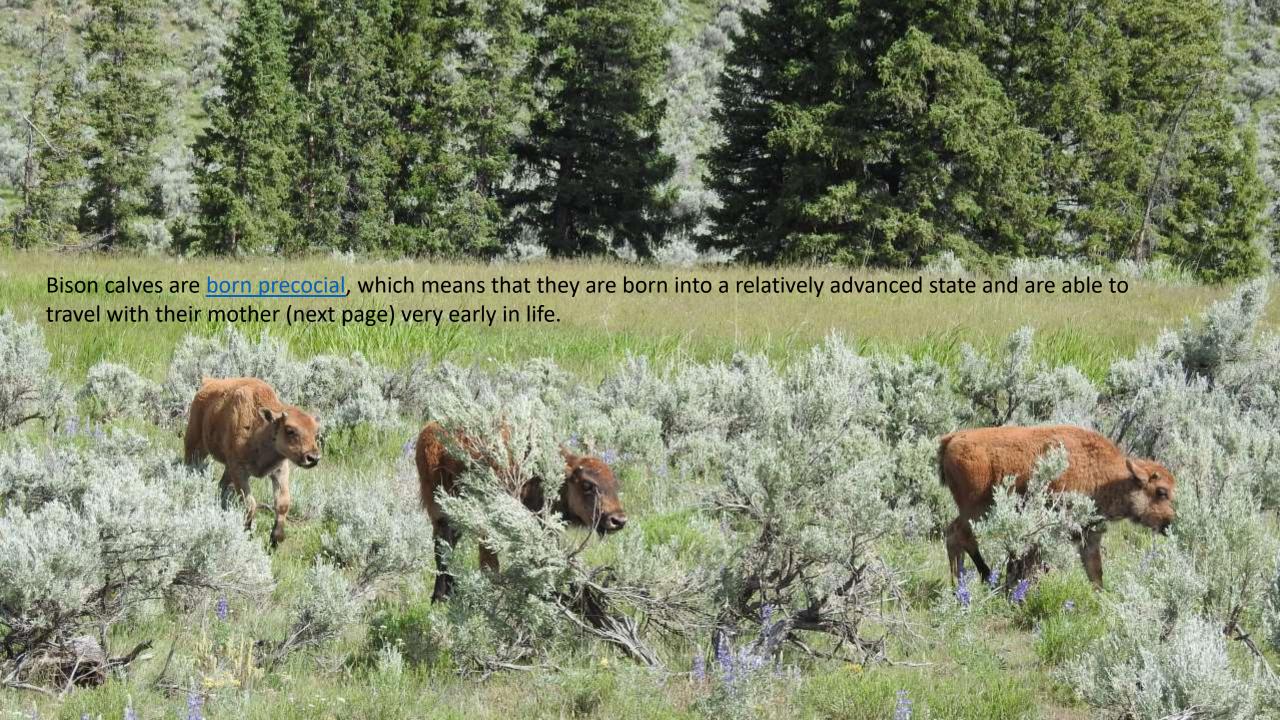


Regular wildlife watchers in Yellowstone, including myself, get the distinct feeling that cows can't wait for the rut to end so they and their matrilineal-based families can get on with their lives without bulls constantly following them around! Obviously, however, this event is critical for the species to continue their line. Bison populations are able to increase fairly quickly, especially when considering their large body size.























An overriding experience during the summer is having the amazing opportunity of watching so many bison cows and calves growing up so close to the park road in direct view of eager wildlife watchers. It is an experience that I never take for granted. In fact, I often have breakfast or lunch near a herd to let the scene truly sink in.





By the middle of the summer, calves are traveling with their mothers and often gather in large herds sometimes numbering over 1,000. These are the seminal settings of bison featured earlier in this chapter.

Exactly 100 pictures into this section on bison, I hope you enjoyed the images and have a better appreciation for this magnificent animal, who was <u>declared our national mammal in 2016</u>. I leave you, the reader, with a grazing bison herd in Lamar Valley with Jasper Bench just above the river. This is one of my favorite places on earth.





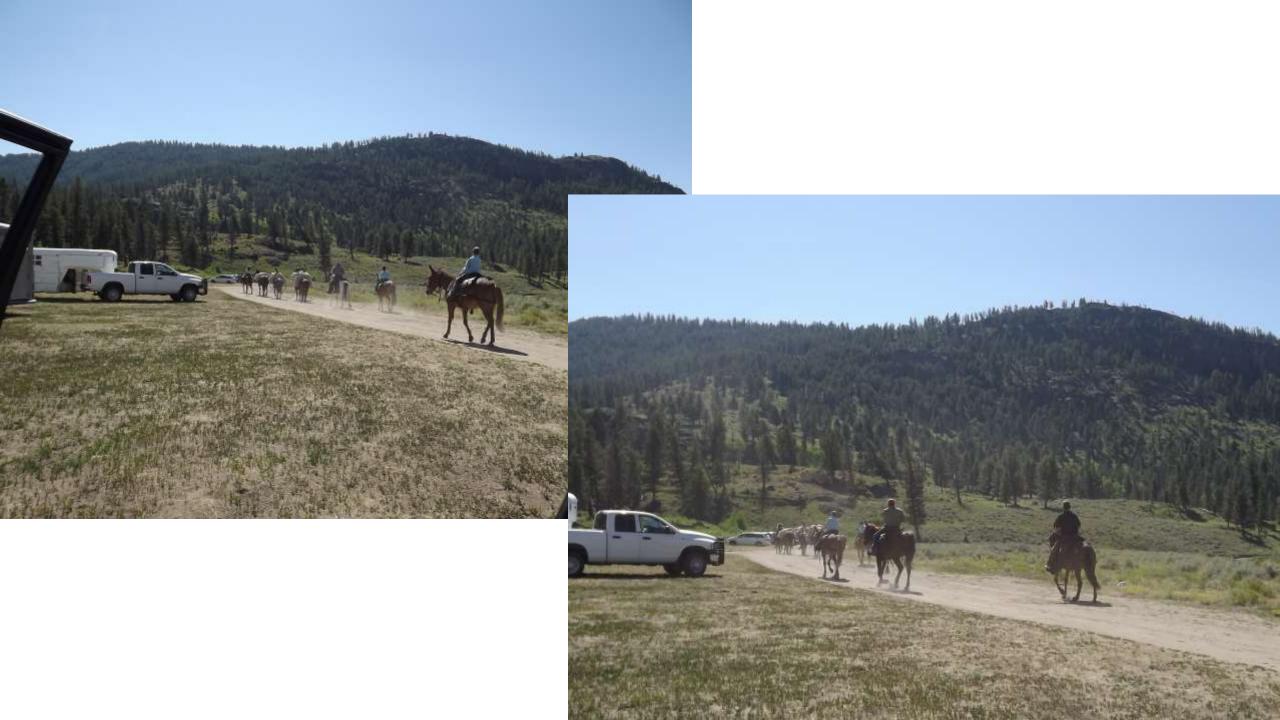


Left: Horses at the aptly named 'Hitching Post' in Lamar Valley.

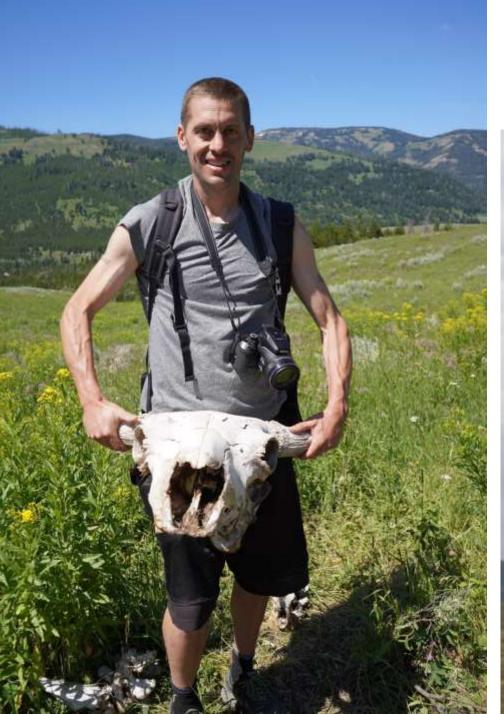
Bottom and next page: Horses and people going on an excursion at Slough Creek.

Horses can be thought of as Yellowstone's 9th ungulate species during the summer. While there are <u>wild horses not too far</u> <u>from the park</u>, none reside within it. People often take pack horse rides into the backcountry, while I prefer to hike. The smell and appearance of their scat is unmistakable when hiking where horses go.









Bison and their remains, such as this skull (left), are ubiquitous in Yellowstone. So are wildlife watchers, as one of the dominant activities in the park is to look for and watch animals (below, right), especially in the northern section of the park. Wildlife watching is the subject of the next chapter.



The Wolf/Wildlife Watchers

Yellowstone has always been a popular place to observe wildlife. As I mentioned in the *Preface* of the book on page 10, the animals have figured out that they are safe within the boundaries of the 2.2 million acres of protected, nonhunted land. This means that they are less afraid of people than places where they are persecuted. Plus, the open landscapes allow people to see animals from a distance, especially when using spotting scopes (see previous page).

Wolves were reintroduced to Yellowstone in 1995-1996 after a ~70 year absence. They were put in acclimation pens (see below) for ~10 weeks and then released. With 31 wolves (14 in 1995 and 17 in 1996) brought in from Canada and 10 pups in 1997 from a litter that was killing cattle in ranchland in Montana, the recovery program has been a smashing success with a stable population hovering around 100-120 in Yellowstone, and many more residing outside the park.

An unexpected development from the wolf recovery project was the visibility of the wolves. Wolves generate millions of dollars a year in the Yellowstone area as thousands of people come specifically to observe them. This network of *Home sapiens*, including myself, looking for the large canines enables thousands of people to observe wolves each year. With so many eyes on the ground, and knowing where to look for them, wolves are generally seen on a daily basis in the park. Before the reintroduction effort this was virtually unheard of anywhere else in the world, and still is, making Yellowstone hands-down the

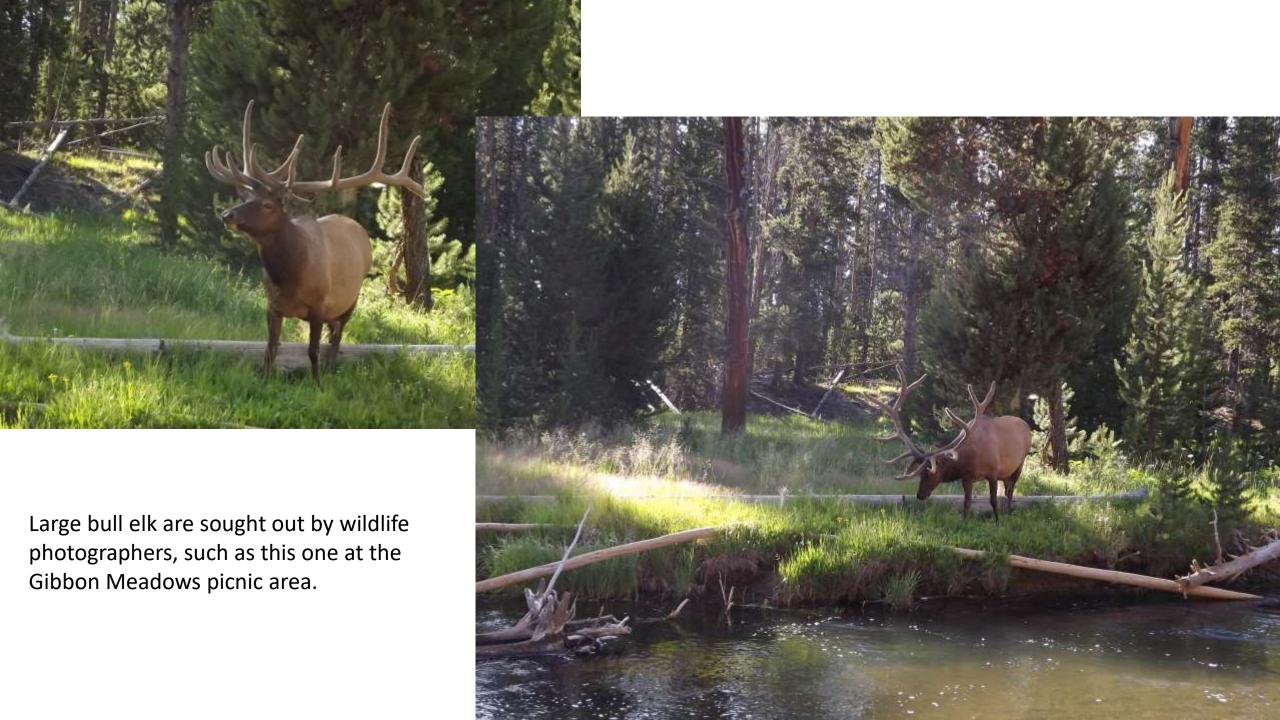




Wolf watchers go wherever wolves are being seen and the Slough Creek flats area, pictured here, has historically been one of the best places to observe them, especially in recent years.









Hayden Valley (above) and Blacktail Deer Plateau (below) are also good places to spot wolves as both areas have resident packs.



The Blacktail Deer Plateau has been an underappreciated place to observe wolves over the years. It is close to the towns of Mammoth and Gardiner, which makes the area a short drive for many to reach the location. Wolves are often seen from far away (2-3 miles), but the relative lack of people there makes for a more







Popular 'Grizzly Overlook' in Hayden Valley.



First the Canyon (2008-2017) and now the Wapiti Lake wolf packs (2015/16-present) are regularly observed from Grizzly Overlook in Hayden Valley.





A panoramic perspective of Hayden Valley from Grizzly Overlook.



Historically the Lamar Valley has been one of the best places in the park (and the world) to watch wolves. Next page: Close-up of the 'wolf jam' in Lamar Valley.







The Druid Peak Pack and then Lamar Canyon Pack denned in the foothills below Druid Peak in Lamar Valley for years. Hundreds of people would go there to observe them, as shown here.

Spotting scopes are critical to being able to observe wolves from a distance, such as this scene from around a mile away south of 'Footbridge' Lot in Lamar Valley. Visitors that come with only binoculars are often frustrated by how difficult it is to properly see their study subjects from a distance.

Note: The moose-head looking tree referred to in the moose section is at the top left of the ridge in the background of Druid Peak before it slopes down with the conifer trees.







Above: While scanning for wolves in the distance, bison would often travel through the area grazing, sometimes causing the people to have to move. The Lamar Canyon wolves were denning at the time on the left side of this picture. This view is to the southeast toward Mount Norris and the foothills below it. It was almost comical as most wolf watchers would be looking through their spotting scopes, completely ignoring the bison which were sometimes only 100 feet away.

Left: Wolf watchers in the rolling hills south of Hitching Post parking lot with the setting full moon above them in Lamar Valley, with Specimen Ridge in the background.

In recent years, Slough Creek has become the most reliable place to observe wolves as the large Junction Butte pack has denned there. Because of their presence, the Lamar Canyon pack has moved east, out of Lamar Valley, and mostly out of view into the forested, northeastern edge of the park.







Canids of Yellowstone

There are 8-10 species of wild dogs in North America depending on how one classifies them (e.g., are red wolves, *Canis rufus*, and eastern wolves, *Canis lycaon*, the same or separate species?). Three of those species inhabit Yellowstone: red fox, western coyote, and gray wolf. I have observed many red foxes over the years, but not many during recent summers. The two images below and the one on the next page are the only fox images I could locate during those 7 trips used for this book. Note the distinct white tip on the tail, which is characteristic of all red foxes no matter the color morph.

Red Fox

Red foxes are big as far as foxes go, but at about 10 pounds they are by far the smallest canid in Yellowstone.











A red fox in Cooke City during a fall trip to Yellowstone. Notice

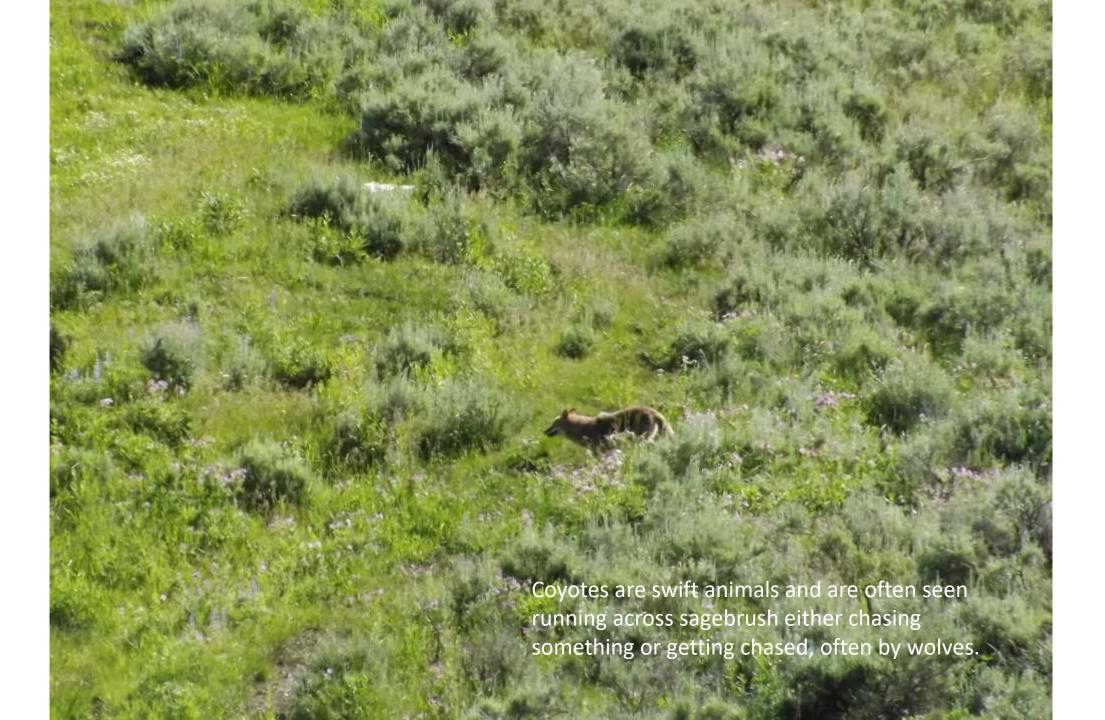
Coyote

Coyotes are the medium-sized canids in the park, weighing 25-30 pounds. They are often described as a combination of a fox and a wolf since they often prey on rodents like foxes but can live in packs and be social like wolves, sometimes even tackling large prey like deer and elk.

Coyote running over the hillside. Despite the presence of wolves, who will kill coyotes that come too close to them, I have seen hundreds over the years and many grace the pages of my other Yellowstone books (see page 2). However, on recent summertime trips I have not observed many of them. I suspect they are hunting and denning mostly out of view during summer months when bison dominate the lowlands.









Gray Wolf

Gray wolves are the largest living member of the Canidae family. In Yellowstone, they weigh 90-130 pounds and live in packs averaging 10 members. There are approximately 10 packs that live primarily within Yellowstone and 100-120 wolves in the park, accounting for inter-year variation. As discussed in the previous chapter, thousands of people come to the park specifically to view wild wolves. Yellowstone is one of the only places in the world where wolves can reliable be observed on a daily basis.





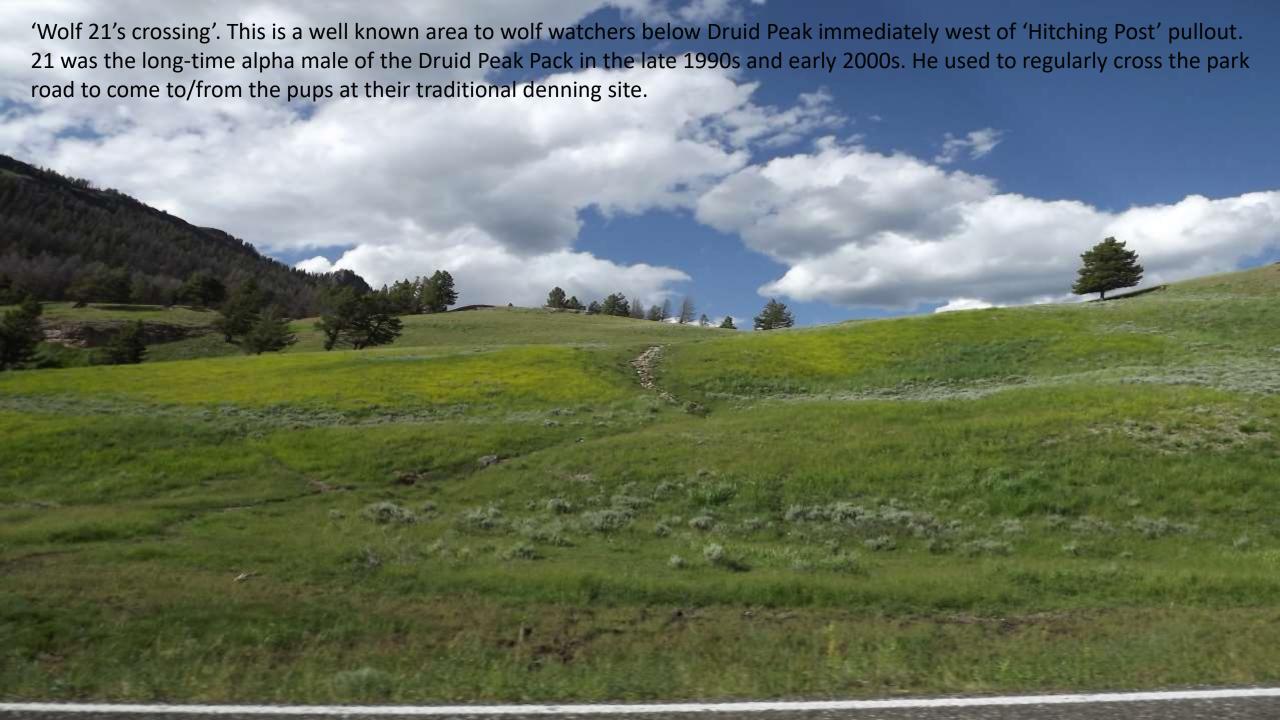
A turning point in my photography ability occurred during my last 2 trips to the park for this book (July 2019 and July 2020), as I purchased a Nikon Cool Pix P900 camera in Fall 2017. It has an 83 X optical zoom compared to my previous camera's 26 times magnification. This made a dramatic difference that quite literally changed the game for getting clear images of distant wildlife, especially wolves. It also helped that the Junction Butte wolves were very visible shuttling between Lamar Valley and the Little America/Slough Creek area to feed their pups (see previous pages) in July 2019. Compare the pictures on the next 24 pages, when using my old camera, to the one which starts after this section called *July 2019*.

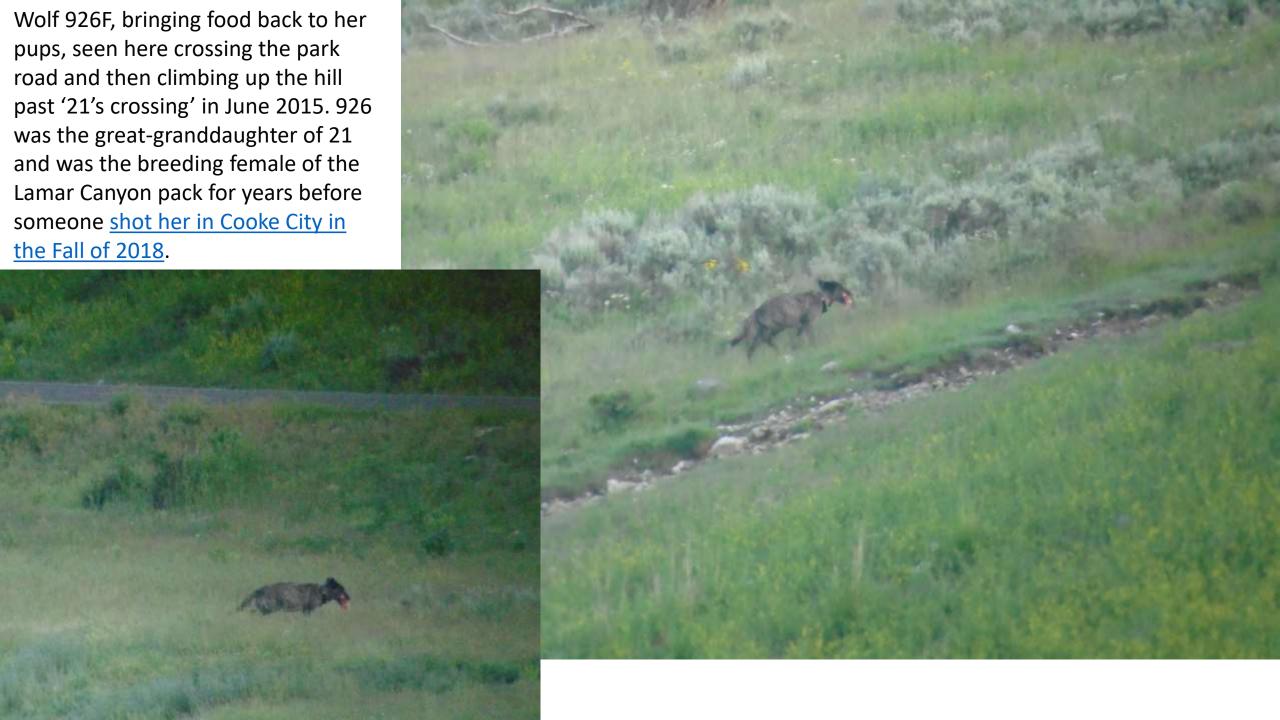
Wolf 890M, formerly of the Junction Butte (until 2016) Pack became the breeding male of the Mollie's Pack, who live in the remote Pelican Valley area. He is observed here crossing the park road in Little America in 2015.



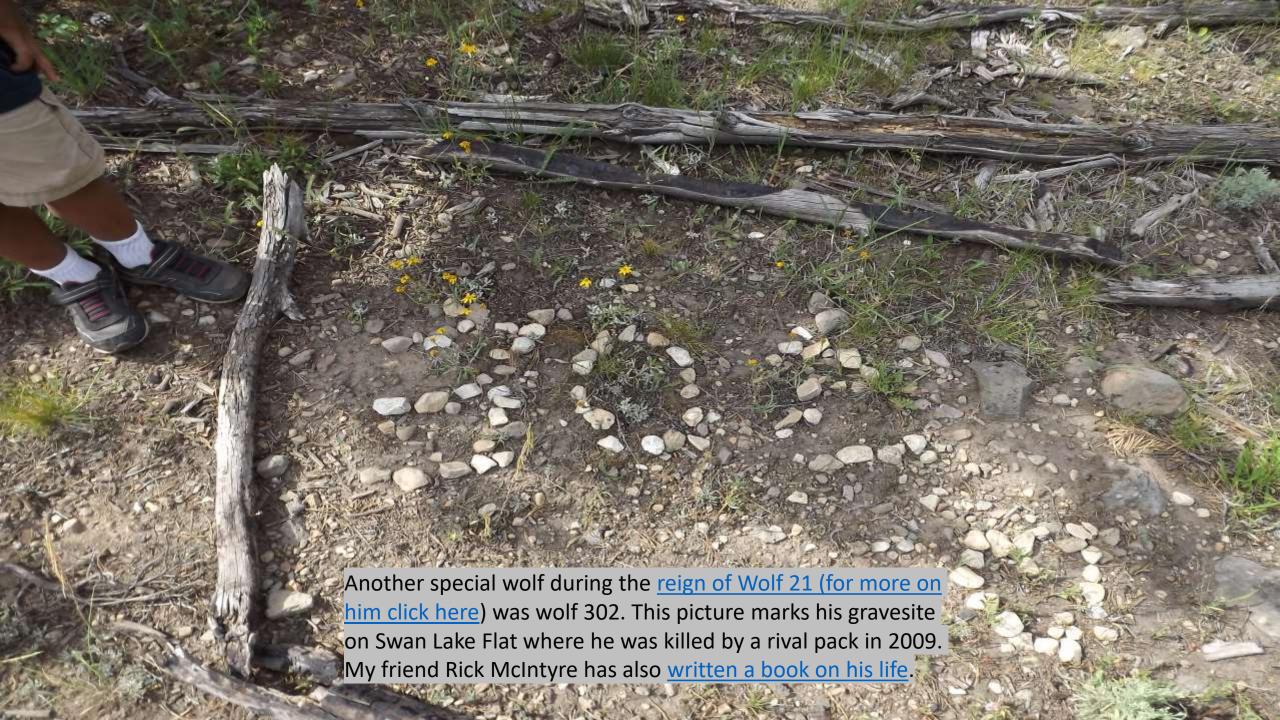










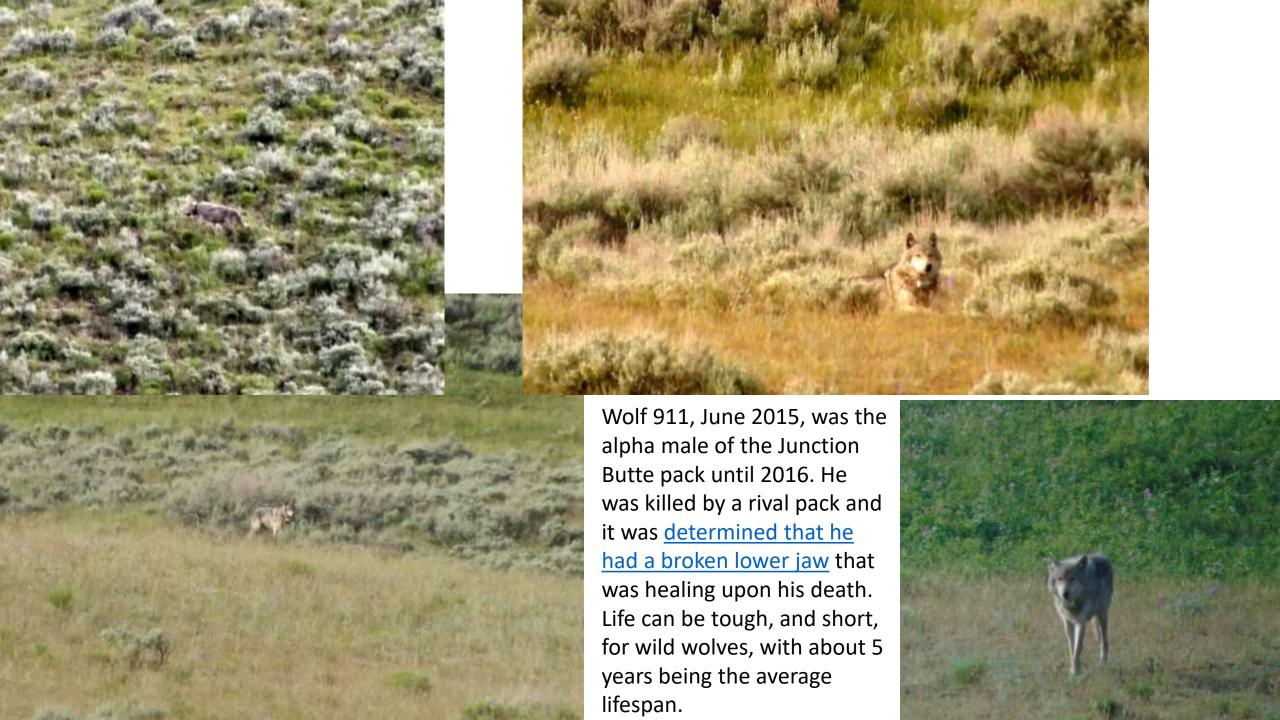


Wolf 859, a yearling male of Lamar Canyon Pack, observed in July 2013 in Lamar Valley. Bottom left: A pronghorn casually ran past him as he looked in a different direction no doubt knowing he couldn't capture the swift 'antelope', which they are often called.







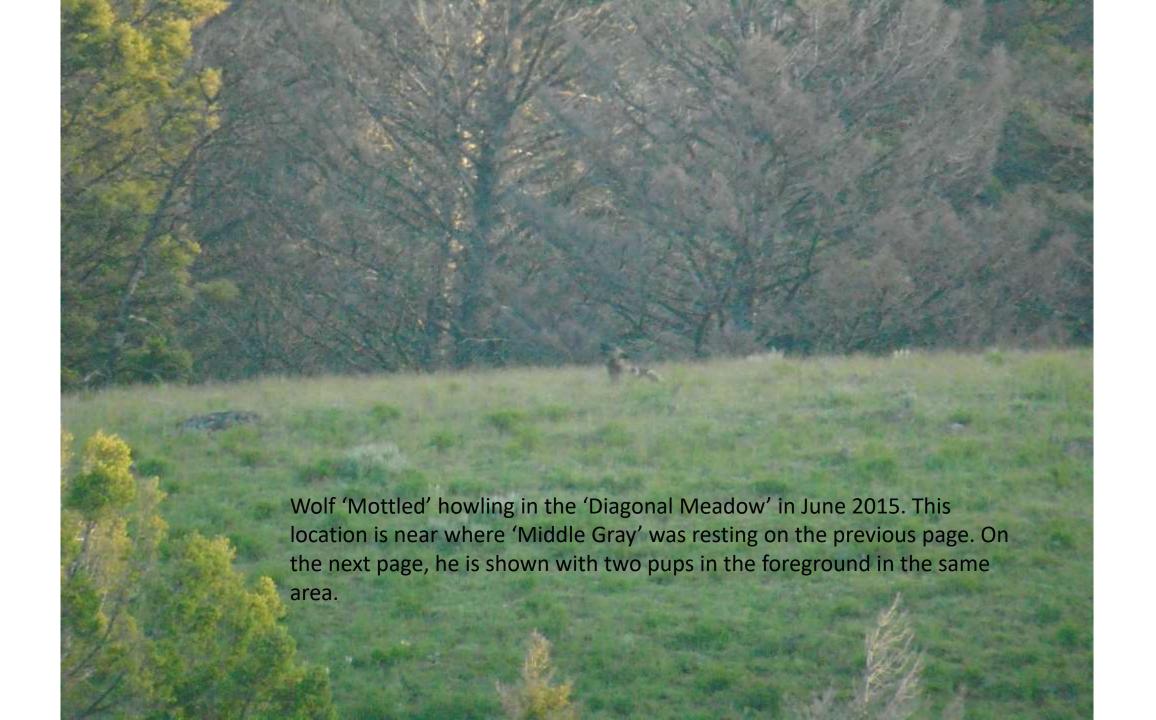


Wolf 965M of the Lamar Canyon pack in June 2015. This attractive wolf eventually left the pack and was killed by a hunter in 2016 just north of the park boundary where hunting is legal.















Wolves 890M and 970F of the Junction Butte Pack, June 2015, on Jasper Bench.



Without good optics, such as my spotting scope pictured here, wildlife can be very difficult to spot in the sagebrush, even in open country. Here wolves were in the open eating an elk calf while its mother looked on. The sagebrush doesn't appear big from a distance, but it can be over 4 feet tall. This can partially or fully obstruct the view of even the biggest wolf.

Here an elk cow watched as Wolf 965M of the Lamar Canyon Pack traveled with food in his mouth. Wolf 926F is out of sight in this frame behind sagebrush as she fed on the small carcass.





This and next page: My favorite scenes of the Lamar Canyons (shown here howling). In subsequent pages within this chapter, I show pictures from more most recent summertime trips. As you will notice, the magnification ability of the camera was a game changer, allowing me to get up-close shots, even showing their penetrating eyes on many of the images. Since acquiring that camera, I now take about twice the number of pictures compared to previous expeditions. For example, during my 7 day trip July 2019 I took 1,144 photos and in July 2020 I took 1,046! You might initially think that I would take less images in later years since I know the park so well, but just for that reason, as well as the capabilities of the newer camera, it is the opposite: I now know the park so well, I want to document everything in detail when there.









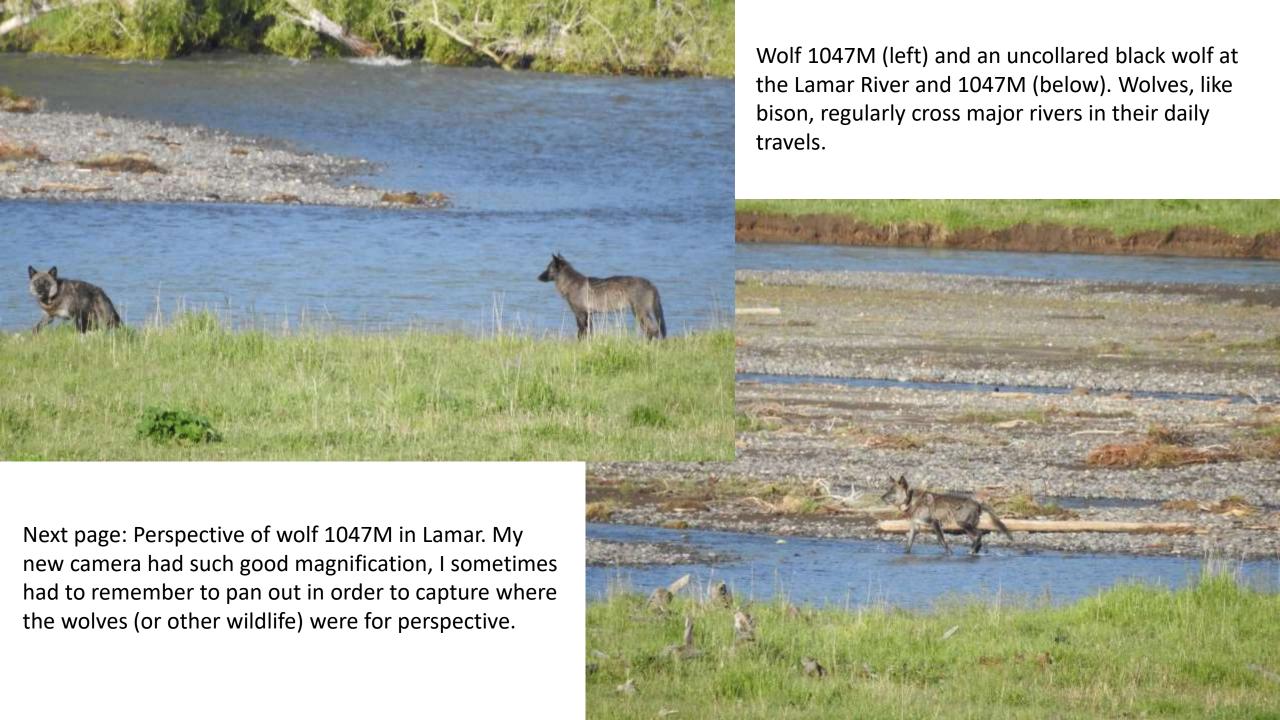




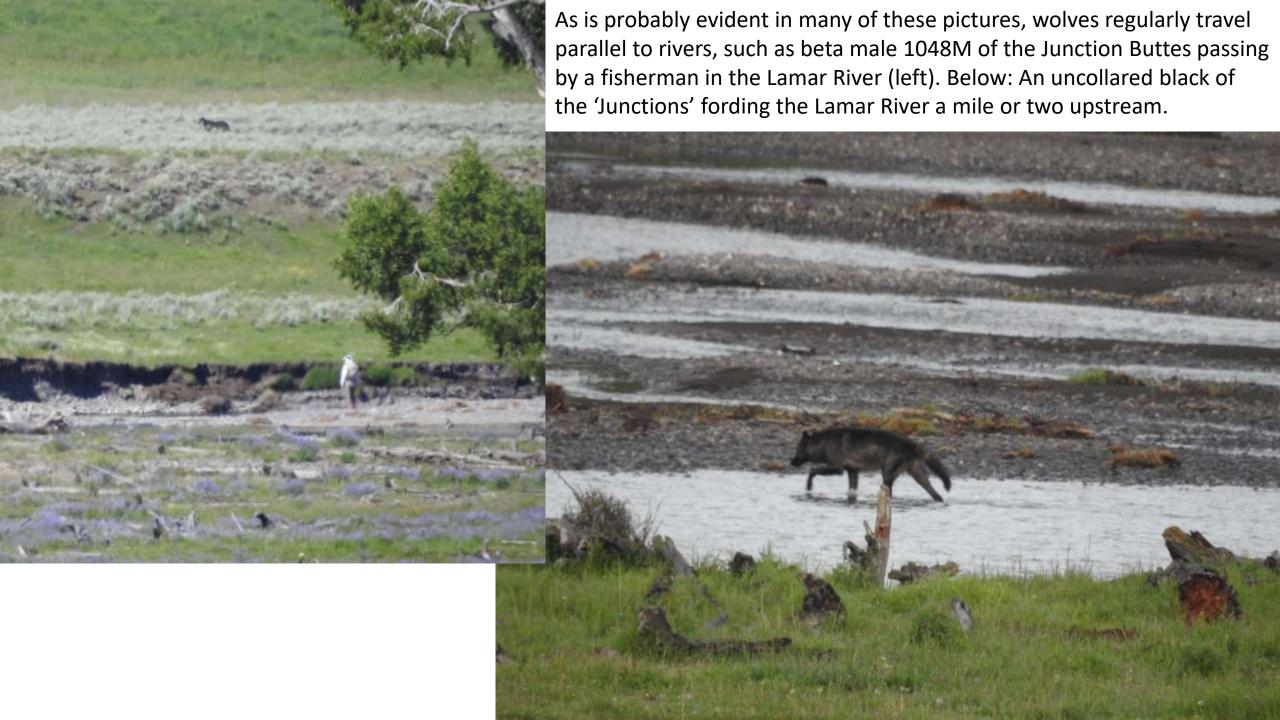














While the 2019 trip was going along perfectly well, with many wolf and other wildlife sightings, a bison cow dying in Lamar Valley only 200 meters from the road (see below) a couple of days into my trip made for an absolutely amazing week. Wolves and bears went to the carcass for 3 days until it was consumed. It took about 24 hours for the wolves to locate it and get comfortable enough to approach from such of a close distance, but once they did it was 'party time'! Most people were respectful and stayed along the road corridor giving the animals space to come and go. For more on my July 2019 trip, please read "<u>The Trip of a Lifetime: A Pictorial Diary of My Journey Out West</u>".





































The main part of the Junction pack announced their claim to the area with a loud group howl on our side of the Lamar River. They mainly fed at night when people were not at the site and retreated when it became light out.

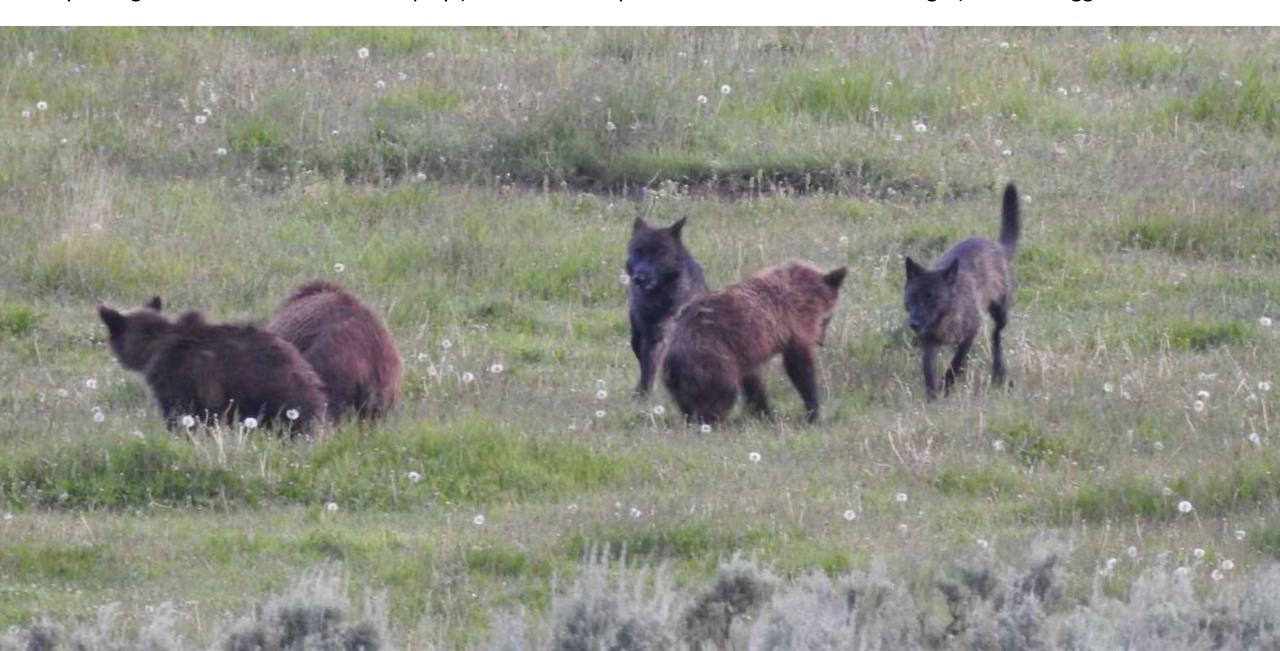








It seemed pretty obvious that the carnivores knew each other and it almost seemed like the interactions of the yearling bears and yearling wolves was as much about play (notice the tail up with the female wolf on the right) as it was aggression.





Just as if it couldn't get any better, a bald eagle photobombed the wolves and grizzlies for this spectacular image, as the predators approached the carcass area.







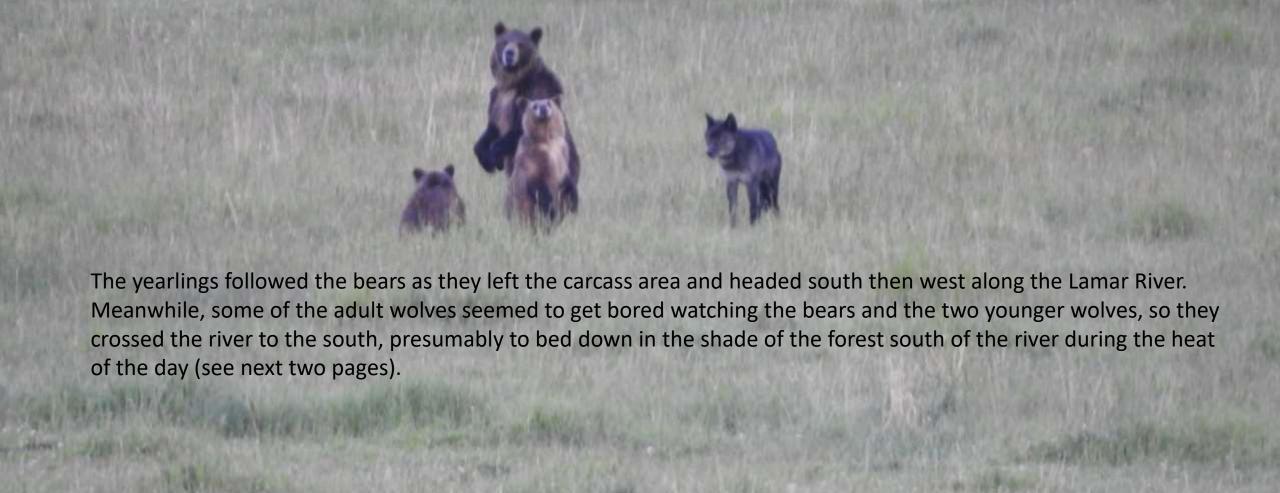
















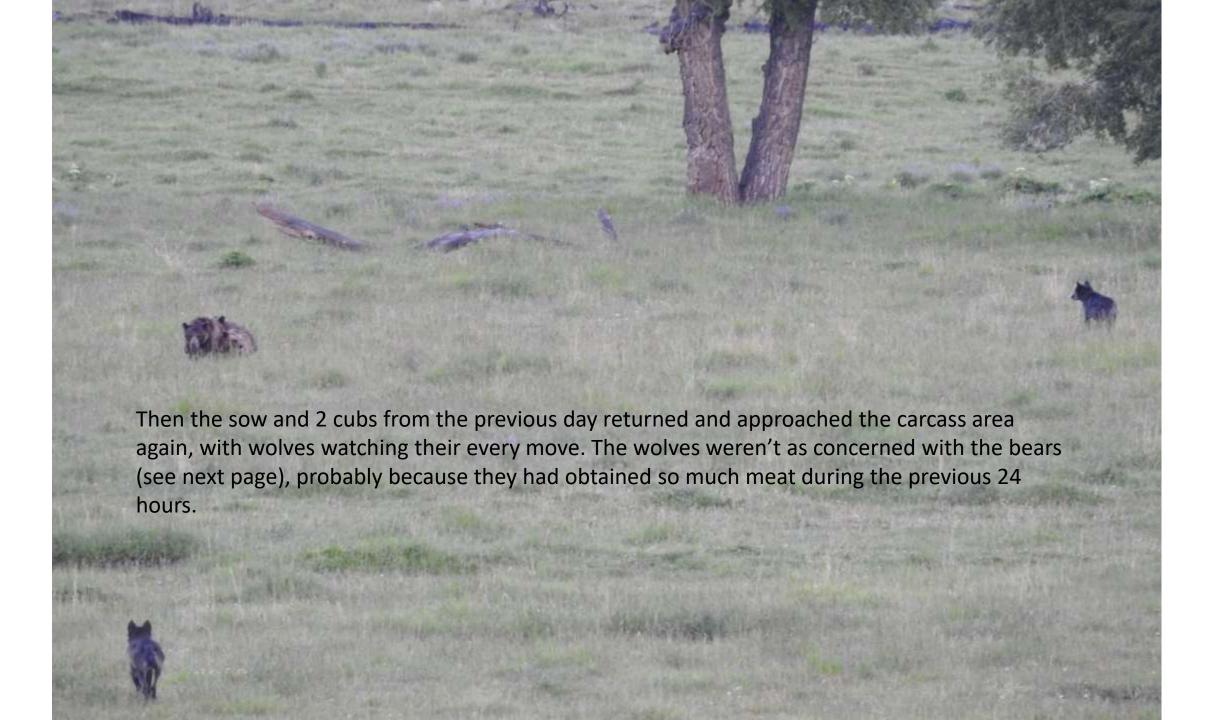


The next morning, two adolescent (about 3.5 years old) bears, likely siblings, were on the carcass at dawn and fed on the carcass at the same time as the wolves. In this picture, the 2 bears and 6 wolves are in the frame as the bison carcass gets smaller and smaller. Next page: The two bears kept their heads down and chowed down while some wolves waited around the area for them to leave.







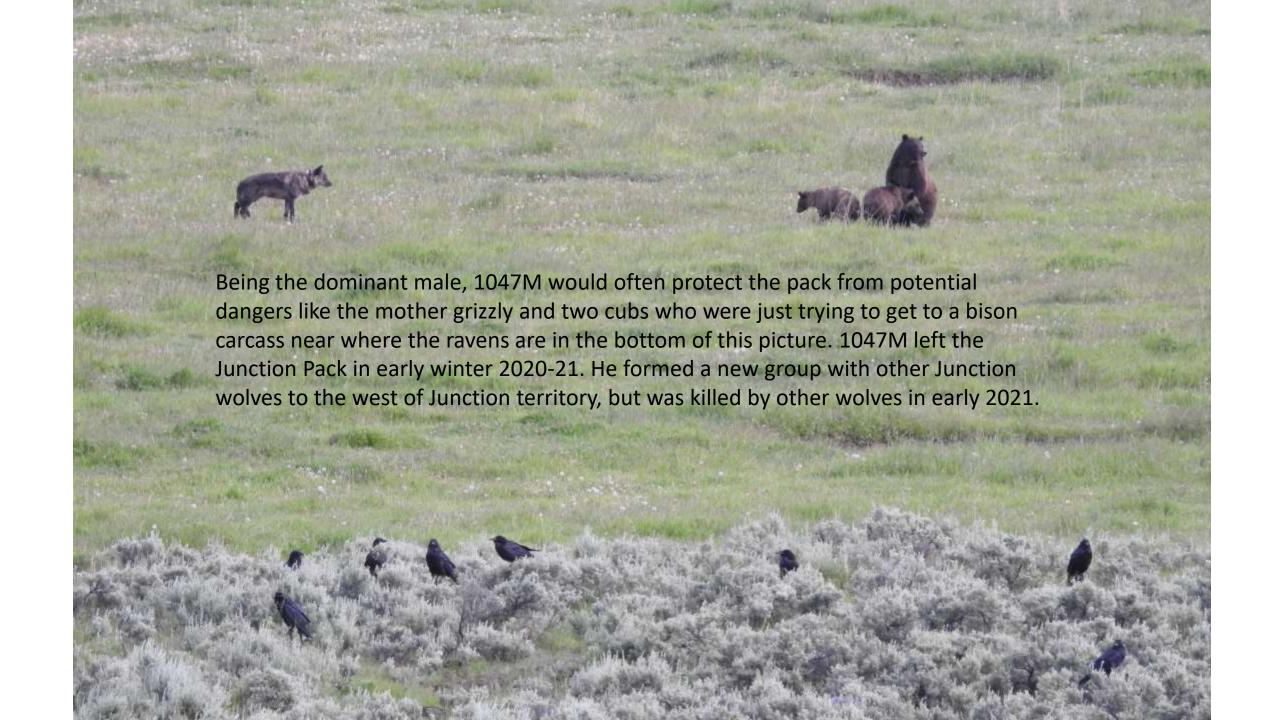
















Junction Wolves 2020

In 2020, the Junction wolves denned above (north of) Slough Creek in the well known homesite that thousands of people have observed from the park road. The pups stayed there until July, so were still there during my trip. While I never had the consistently close appearance of the pack that occurred in 2019, I still obtained many wonderful images.

Shown here: Junction Butte Pack yearling wolf near Slough Creek returning to provision the pups (also see next page).







A different black wolf traveled to the old carcass as the other black fed on scraps. It was curious that this individual scent-trailed to the location given that it surely knew where the food source was by that point since the carcass was mostly consumed.



Gray yearling 1228F met up with one of the blacks at the carcass area. However, she never stayed in one place and I never obtained a good photograph of her during that trip. But in April 2021, I obtained many pictures of here in my 'Mud, I mean April, in Yellowstone' book.

The black wolf '2 year old (or 'Third') mother' was eventually radio-collared as 1276F. She is part of the Junction Butte pack and is seen here in Lamar Valley traveling along the Lamar River near a bull bison (also see her standing alert on the next page).





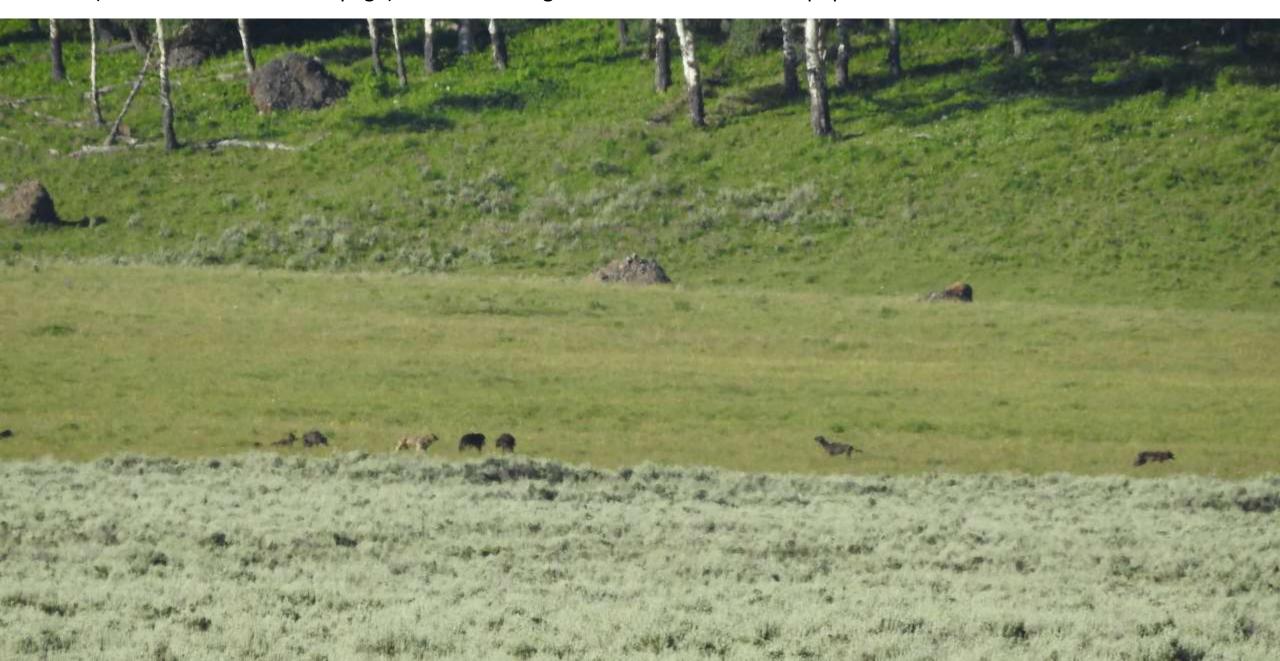








I saw this great rally during my first morning in the park in 2020. A group of the Junction Butte wolves came together and howled (below and also see next page) before traveling west back to where their pups were located.







Junction Butte wolves traveling across the Lamar Valley on their way to the den area above Slough Creek. Just like in 2019, in 2020 they daily traveled the 10 miles each way back and forth between the two areas.













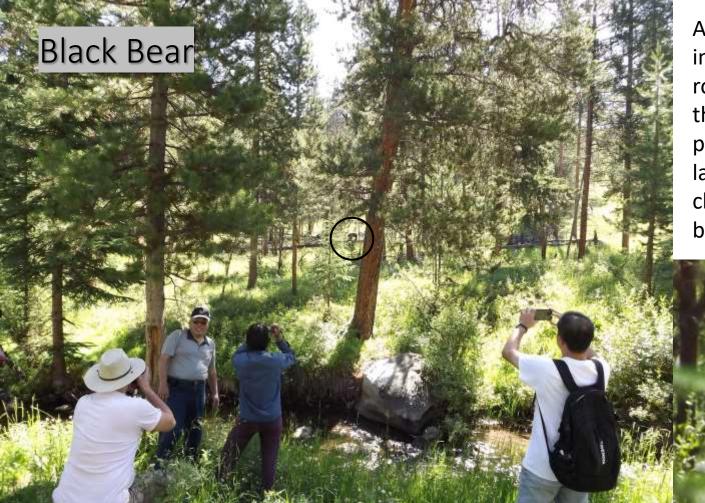




Bears

There are 8 species in the Ursidae family, of which 3 live in North America: black bear, brown or grizzly bear (also called 'Kodiac' bear in coastal Alaska), and polar bear. Yellowstone has two of those species: 1) The more timid forest dwelling black bear, who lives throughout much of the United States from the west to the east coast; and 2) The grizzly bear, a threatened species in the Lower 48 states. Grizzly bears have two main population cores in the Lower 48: 1) the Greater Yellowstone Ecosystem, with Yellowstone National Park as the core, protected population; and 2) the Northern Continental Divide in Northwestern Montana, with Glacier National Park serving as its primary area. Grizzlies evolved in open areas, so are generally more aggressive than black bears. However, it is important to realize that encounters with humans are relatively low even in areas where their population is increasing.



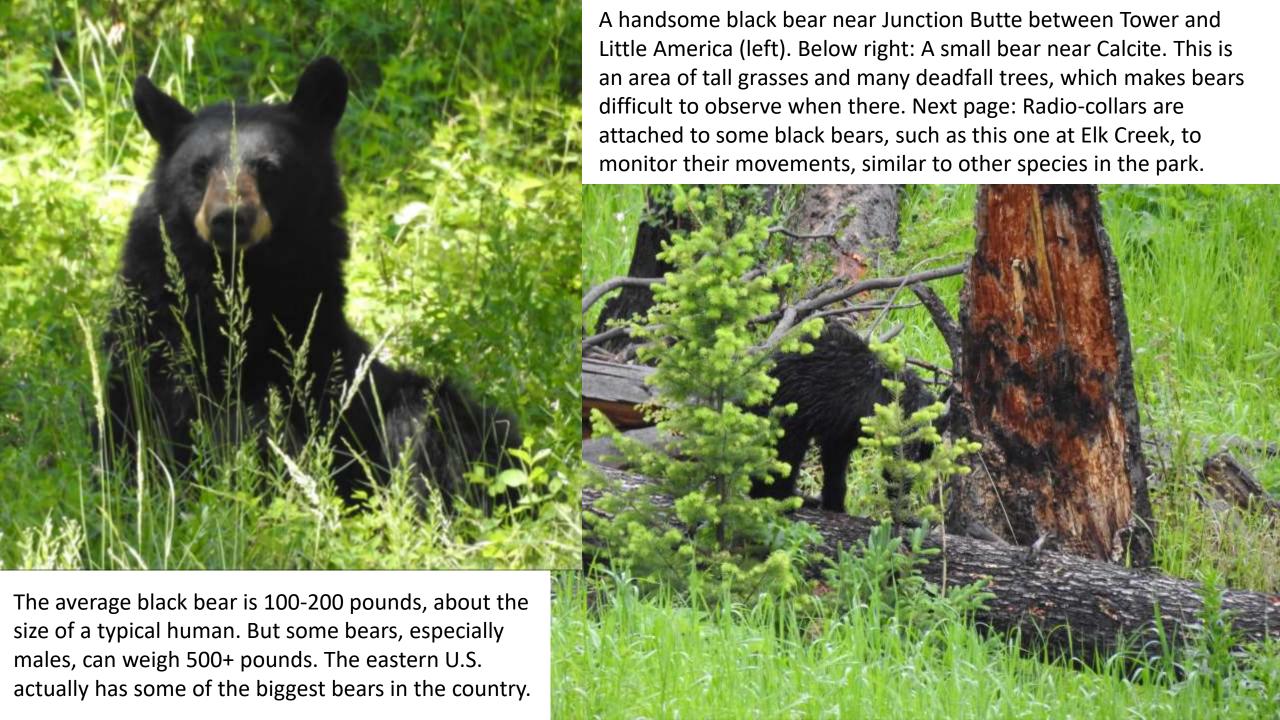


A black bear at Antelope Creek (left). Tourists often inappropriately walk right up to bears and park on the roads to see them, creating major traffic or 'bear jams' in the process. Luckily, they are very timid creatures, preferring to be left alone in the shelter of a forest. The lack of a shoulder hump and straight-faced profile is a clear indicator of a black bear versus a grizzly, even for brown colored individuals (below and next page).

All bears belong to the Ursidae family. An ursid is a plantigrade (i.e., walks on soles of its feet like humans) carnivore, comprising the spectacled bear, the black, brown, polar, and sun bears, and various extinct species that also gave rise to the giant panda of the family Ailuropodidae.







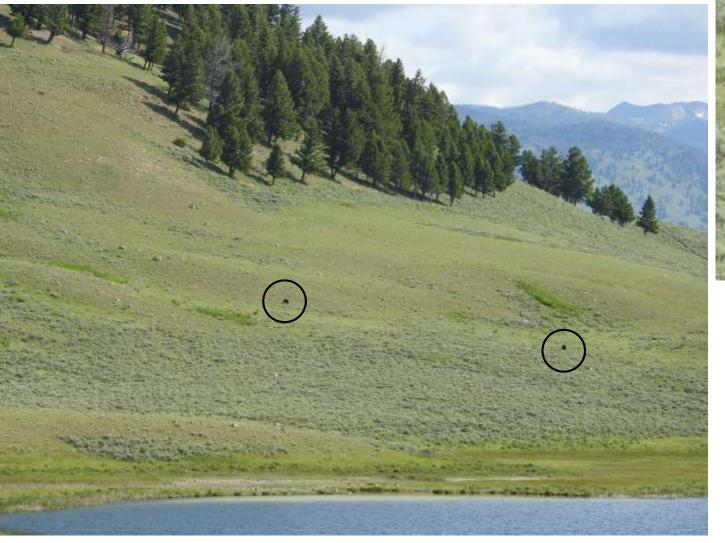








Black bears sometimes show up in more open country than you might expect, such as these bruins near Blacktail Ponds. They are typically males (right) or a mating/courting pair (below), while females with cubs prefer protective tree cover.



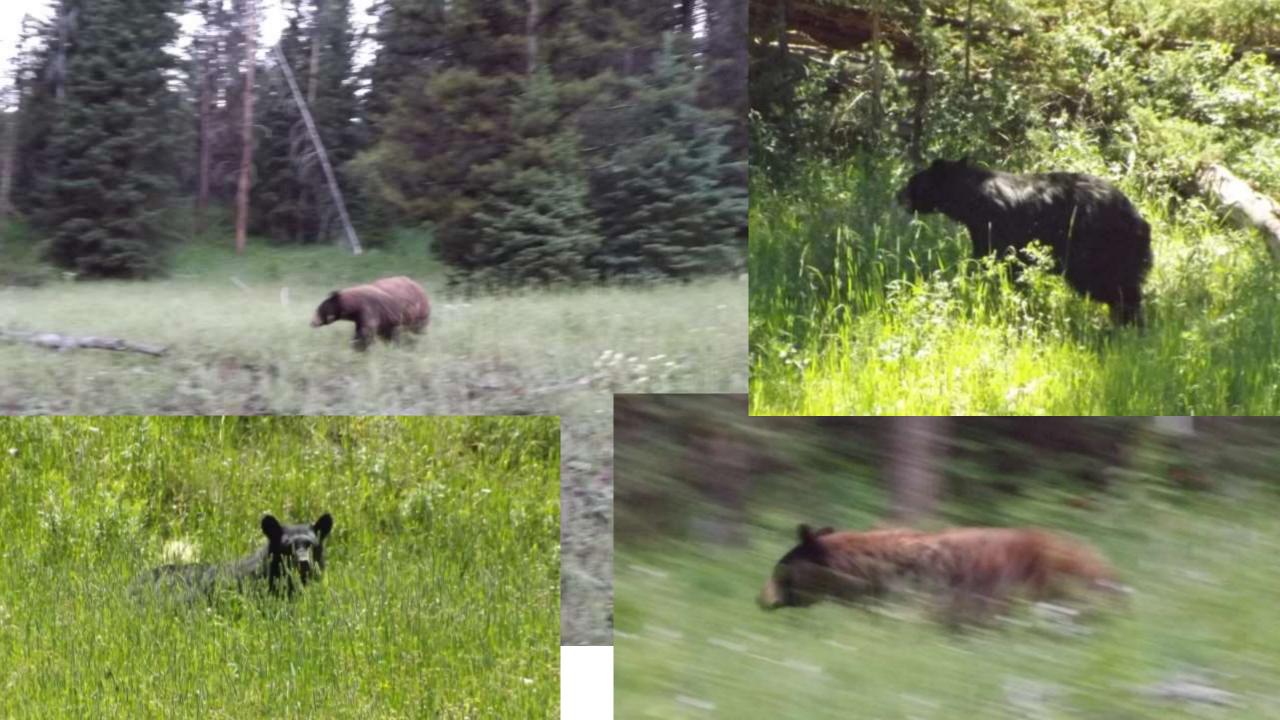


Next page: Black bear with an ear tag. Sometimes bears, and other wildlife, are given tags to mark them, even if more expensive radio-collars are not put on to track them. This frequently happens with bears that may be causing a problem, such as closely approaching people or searching for human food sources.



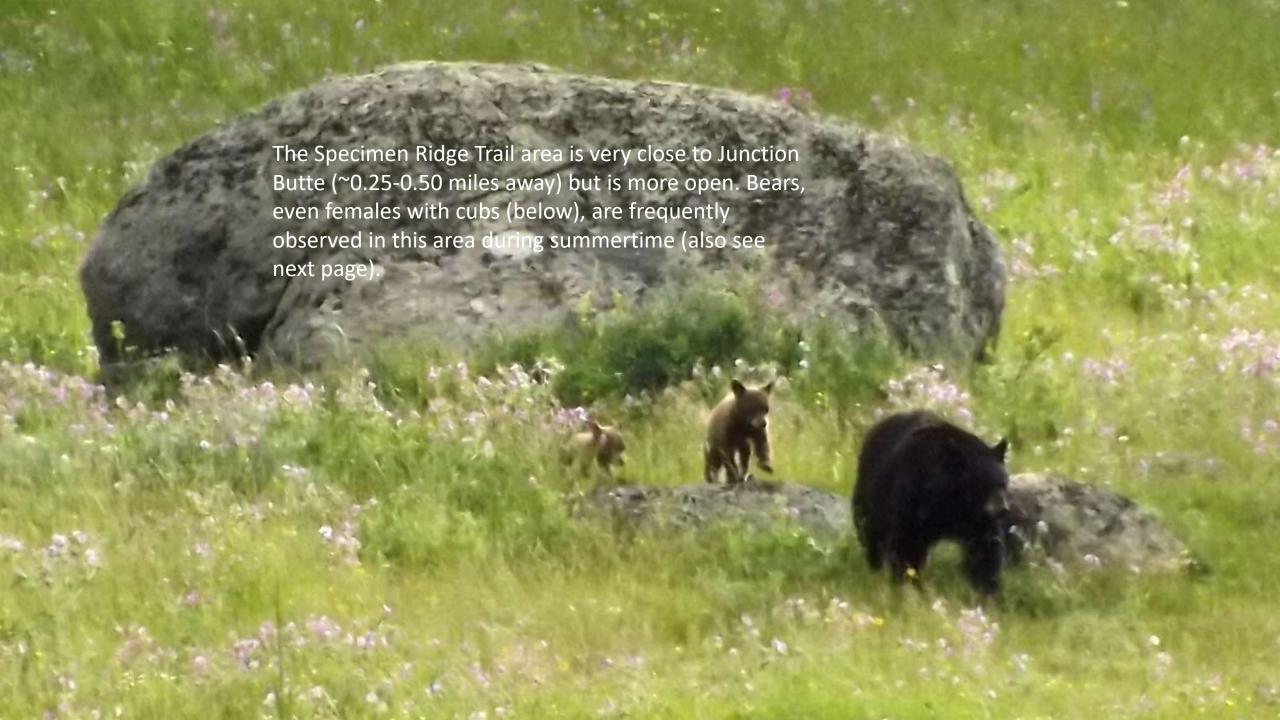














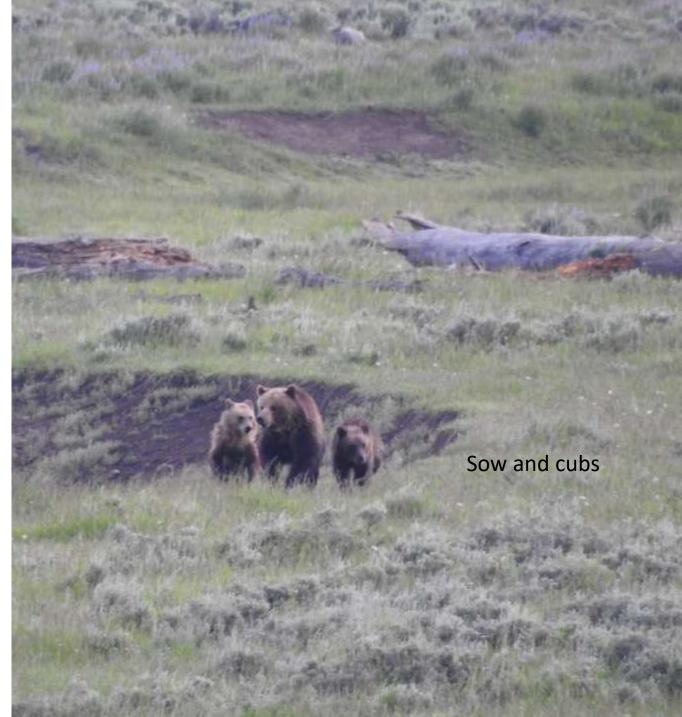
When bears are behaving naturally, such as when foraging, their heads are often down. While this does not make for great pictures and can frustrate photographers, beware that this is the best for the bear(s). Summer is a critical time for ursids to pack on fat stores to get them through their winter hibernation. Bears with their heads up scanning for danger or looking at humans means less time spent eating.



Next page: Black bear tracks near Geode Creek just east of the Blacktail Plateau.



Grizzly Bear Grizzly boar



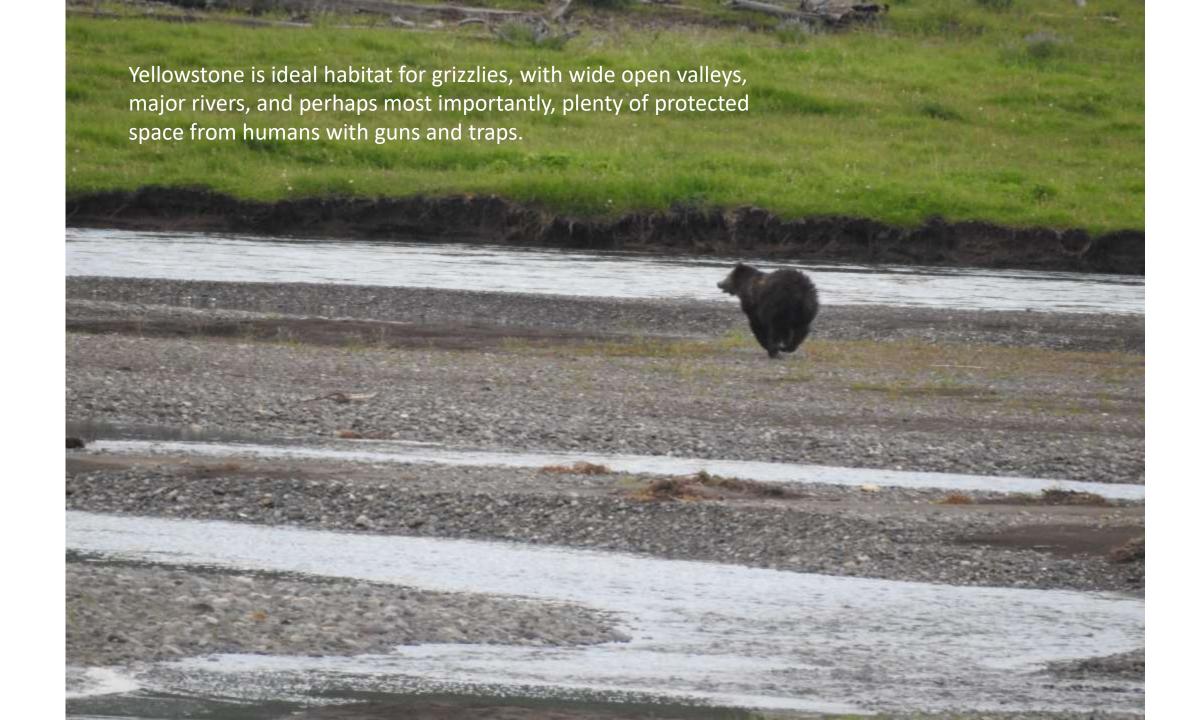


Grizzly bears once ranged throughout the western United States, but their current southern stronghold is in the Yellowstone area where about 150 bruins live in the park and about 800 range throughout the ecosystem. They can be identified by their pronounced shoulder hump, dished face profile, short ears, and generally larger size. Males in the park weigh up to 600-700 pounds, which is impressive but not as large as some of their Alaskan brown bear kin (e.g., Kodiac bears) who can tip the scales at 1,500 lbs.

Both grizzly and black bears are omnivores and eat a variety of plant and root material. However, in Yellowstone, grizzlies, especially large males (pictured here), eat a high percentage of meat. This is due to the abundance of ungulate carcasses, which are either killed by wolves, killed by grizzlies themselves (especially elk and bison calves), or from bison that die naturally. Bison most often perish during winter (called winter kill) or after the August rut when males gore each other to death.









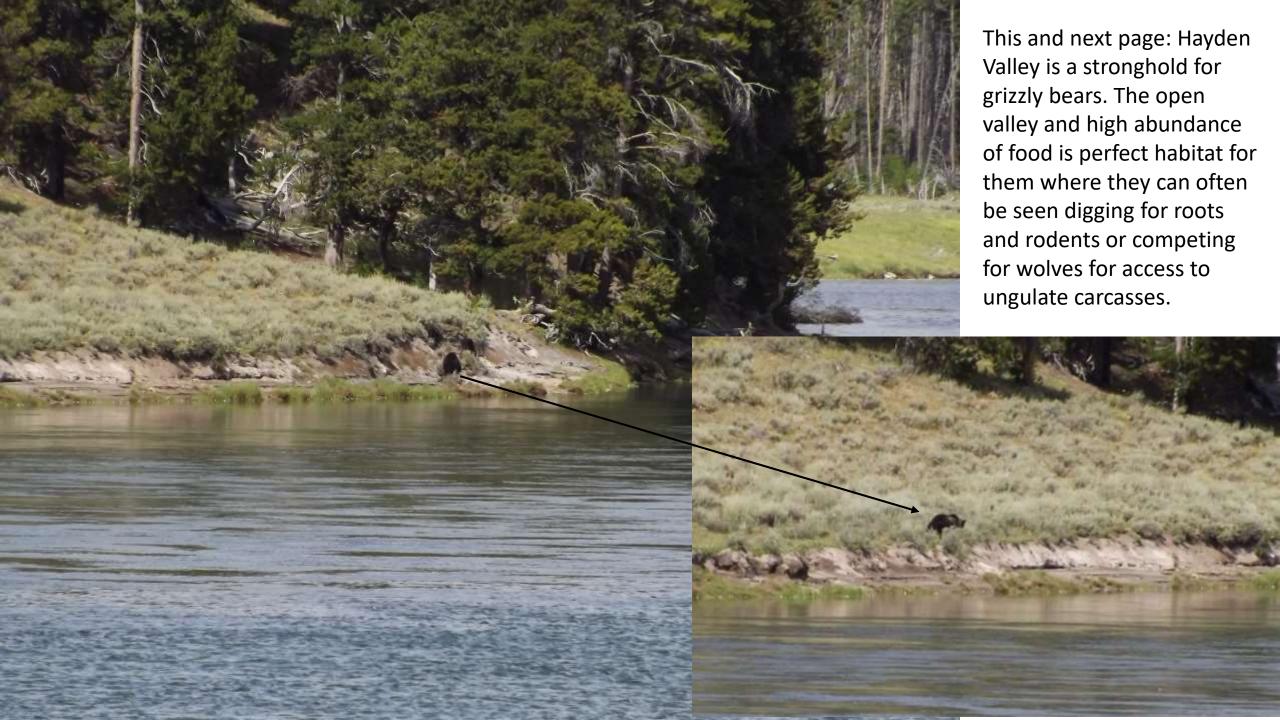




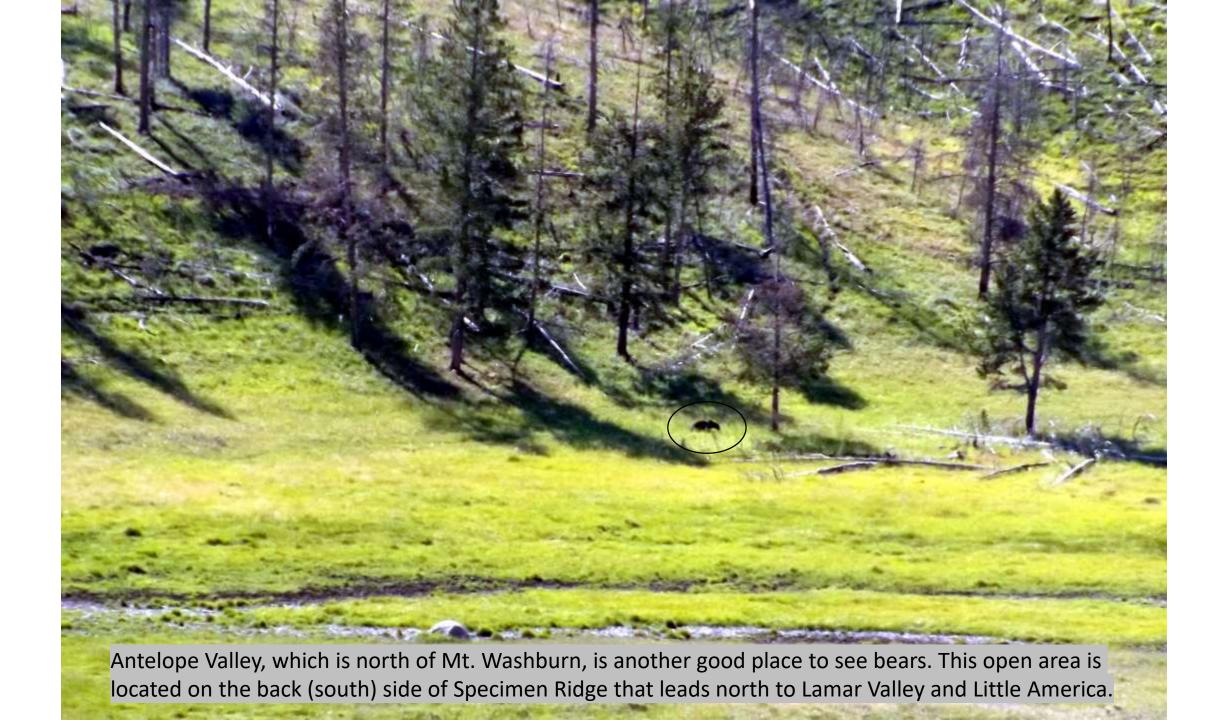




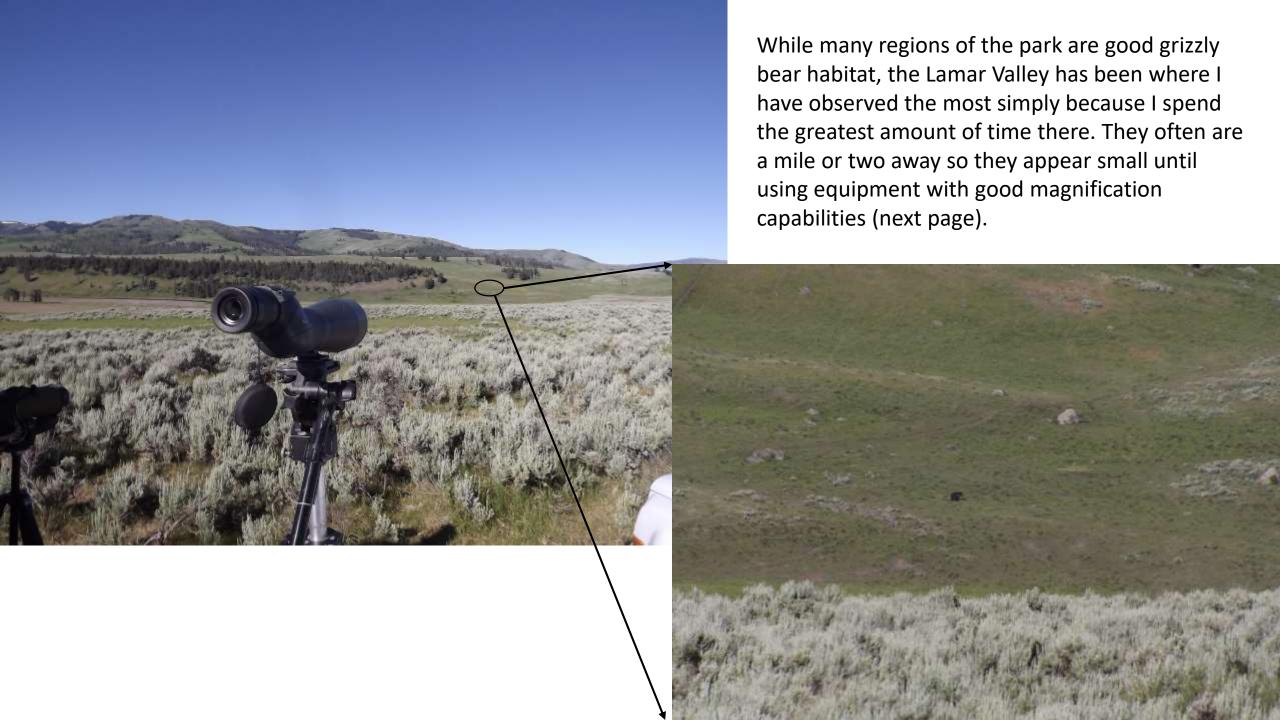








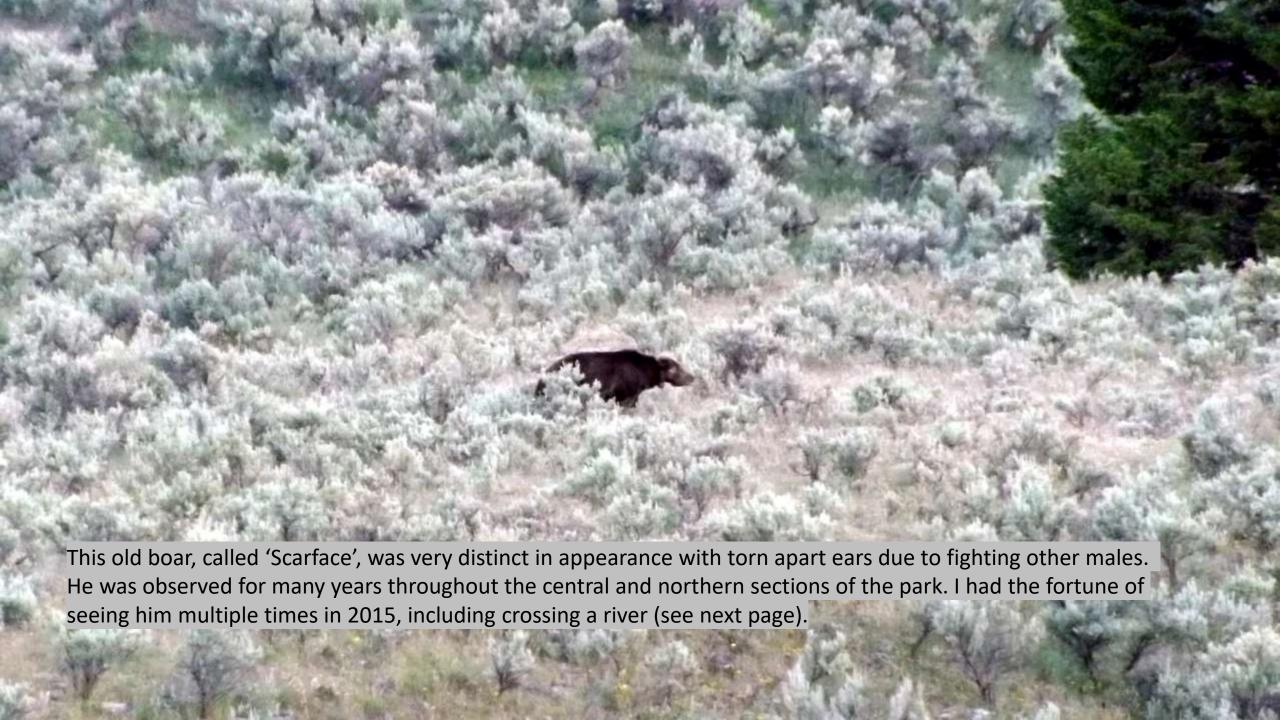
A good perspective of Antelope Valley during the mid-summer wildflower season, as viewed to the east.



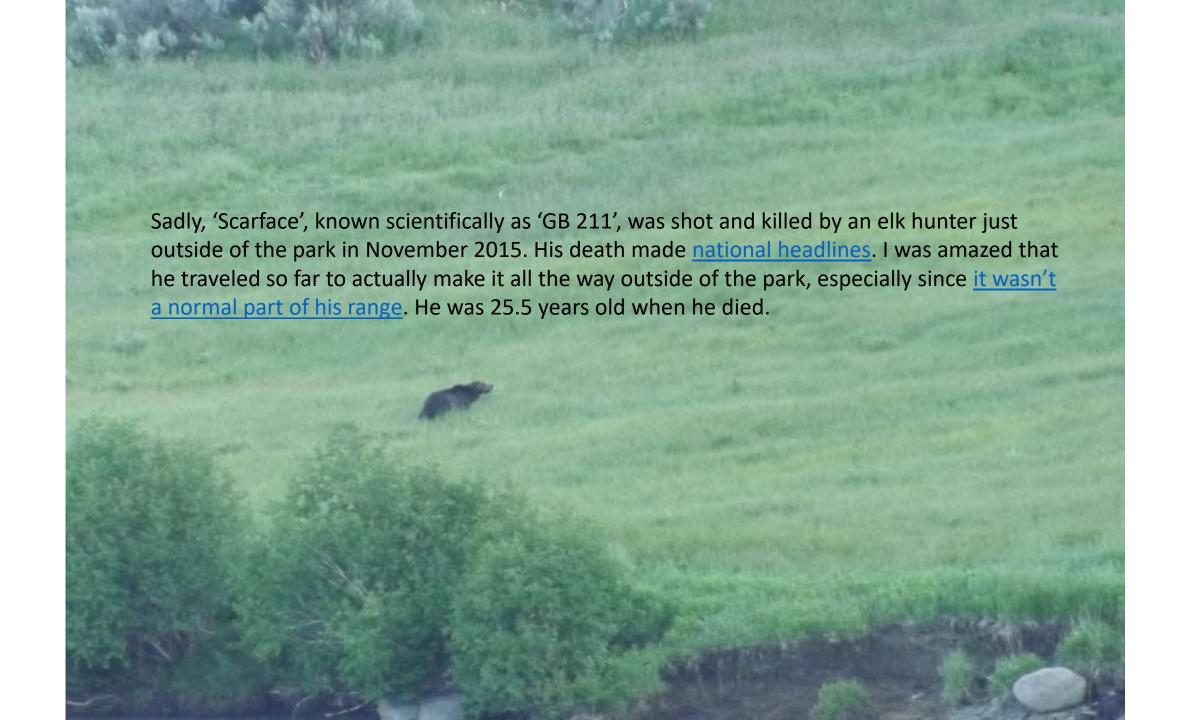














Small to Medium-Sized Mammals

The previous chapters highlighted the larger animals in the park, which are usually the most sought after fauna to observe. In total, <u>67 different mammal species inhabit the park</u>. In this section, I highlight some other common but lesser discussed critters. While this chapter is not expansive, it will cover many of the 'other' animals that you are most likely to observe on a summer visit.





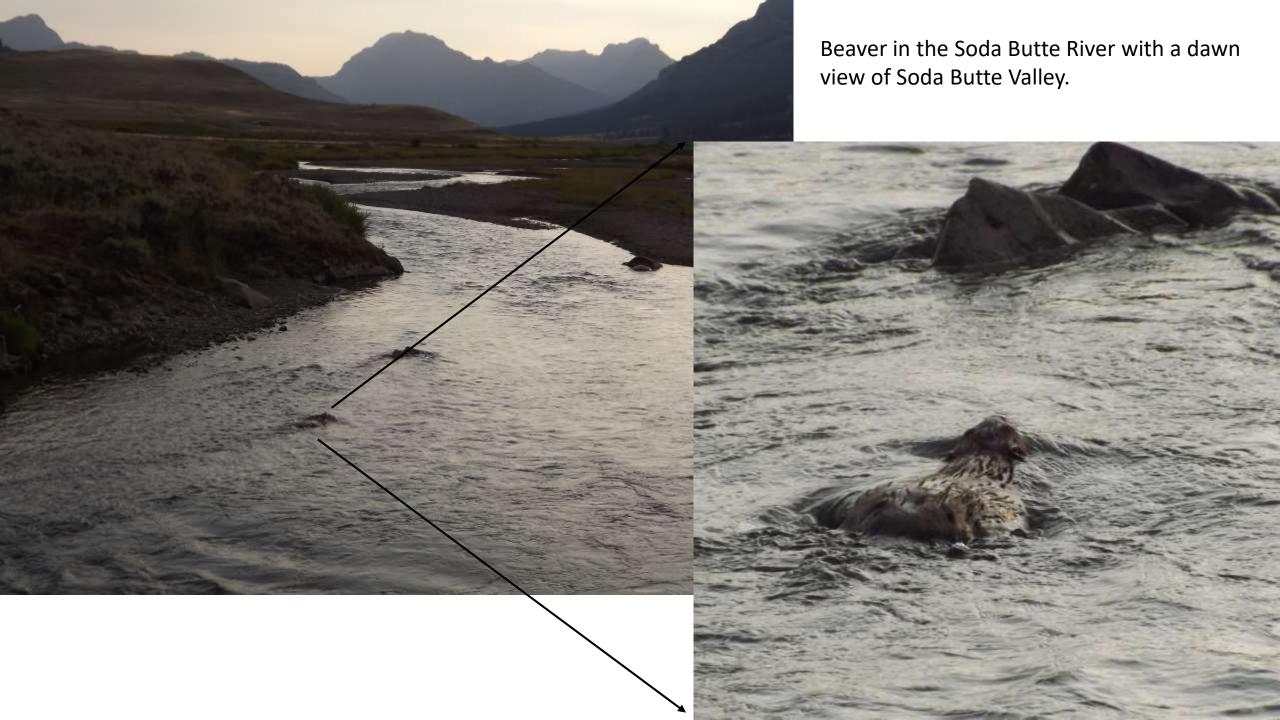
















Golden-mantled ground squirrels (right) look similar to chipmunks (left) but are larger and do not have stripes on their head (see next page). They are often found in mountainous habitat up to timberline.



I commonly observe golden-mantled ground squirrels in the Beartooth Mountains northeast of the park and up at the top of Mt. Washburn in Yellowstone. Next page: Notice the reddish 'golden' color (i.e., mantle) behind their necks.



Five larger golden-mantled ground squirrels (left) near two least chipmunks (top right).









Jackrabbits are <u>not a common sight in Yellowstone</u>. They live in sagebrush dominated areas but high ungulate numbers in the park likely keeps their numbers low. They are more common in lower elevations, such as the Gardiner Basin and outside the park. It is likely that a combination of predators and poor habitat limit their numbers inside the park.















The Yellowstone River Trail provides beautiful views of Specimen Ridge (left) and the Yellowstone River. This varied area, from cliffs to meadows, provides ideal habitat for marmots and bighorn sheep, among many other species.



Next page: Pikas (formerly also called picas) are small, rabbit-like animals. They live in high elevation, cold areas, typically on talus slopes. They are <u>considered an indicator species</u> for detecting the ecological effects of climate change. Due to rising temperatures, pikas are losing habitat in lower elevation areas in Yellowstone and beyond. While they are relatively numerous atop mountain peaks, I have not observed that many over the years.

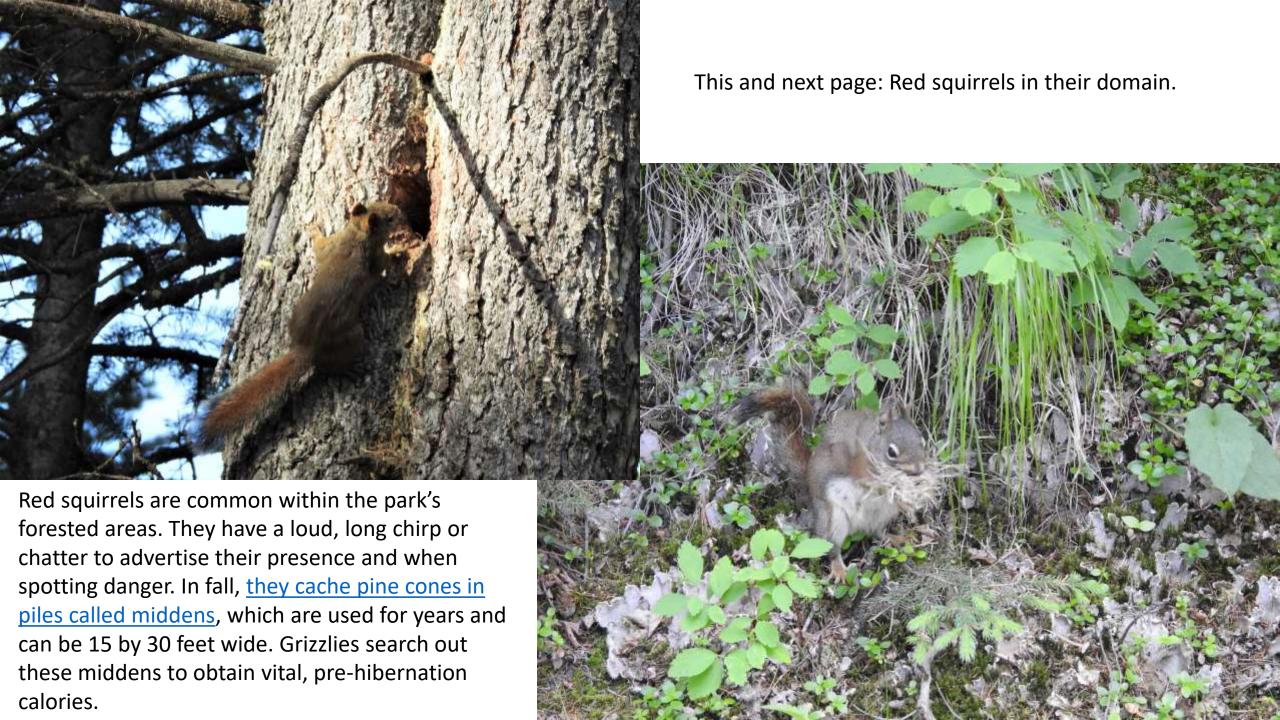




Top: Bunsen Peak (back center) from Swan Lake Flat. Bottom: View from the top of Bunsen Peak of Swan Lake Flat and the surrounding area. Pikas live at the top of Bunsen in the scree fields characteristic of the top of many mountains in this area (see next page).





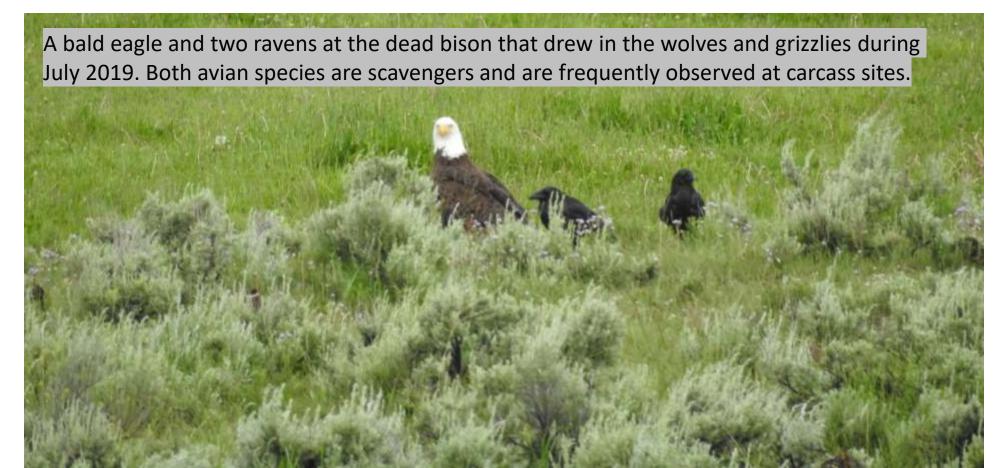


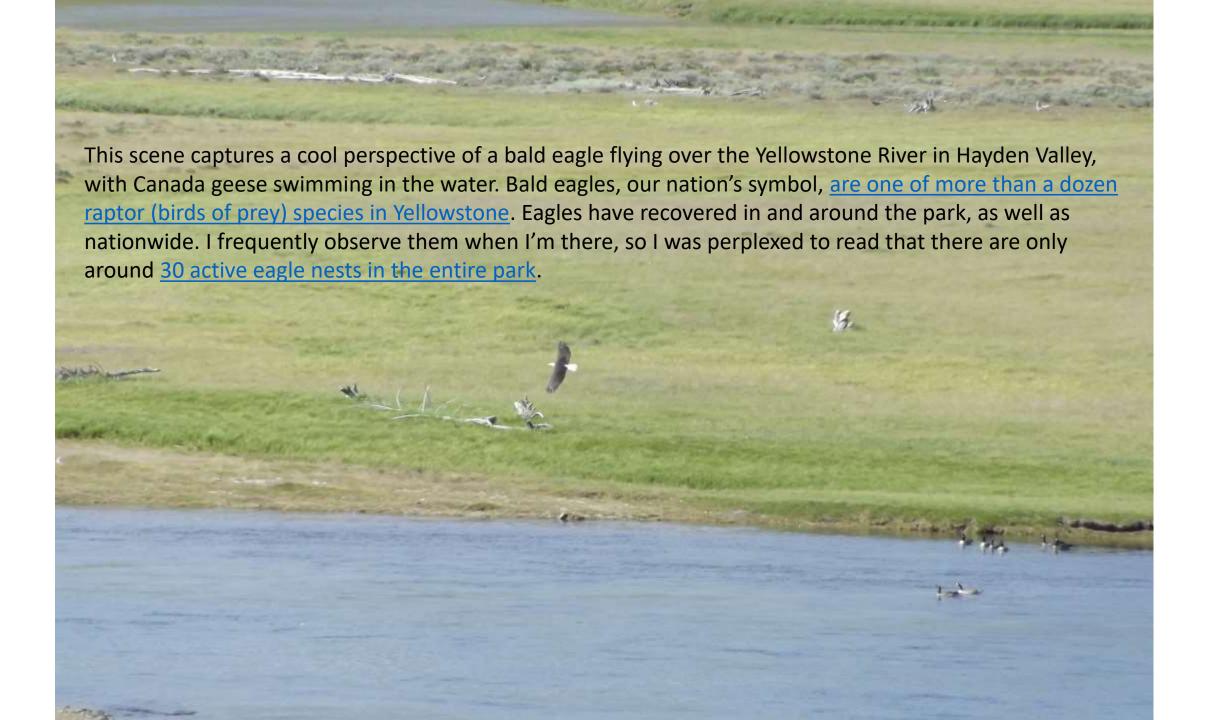


Birds

I want to state at the outset of this chapter that I am not a bird expect. According to Yellowstone officials, nearly 300 bird species have been sighted in Yellowstone National Park, including raptors, songbirds, shorebirds, and waterfowl. About 150 species build their nests and fledge their young in the park. There are a variety of habitats in the park and that makes it ideal habitat for many species, including birds. In this chapter, I will share with you my favorite bird species as well as the ones that you are likely to observe. For the ornithology experts, I apologize in advance for my limited knowledge of the subject compared to previous chapters. Maybe you can write a similar e-book on these guys to help fill in the gaps of information

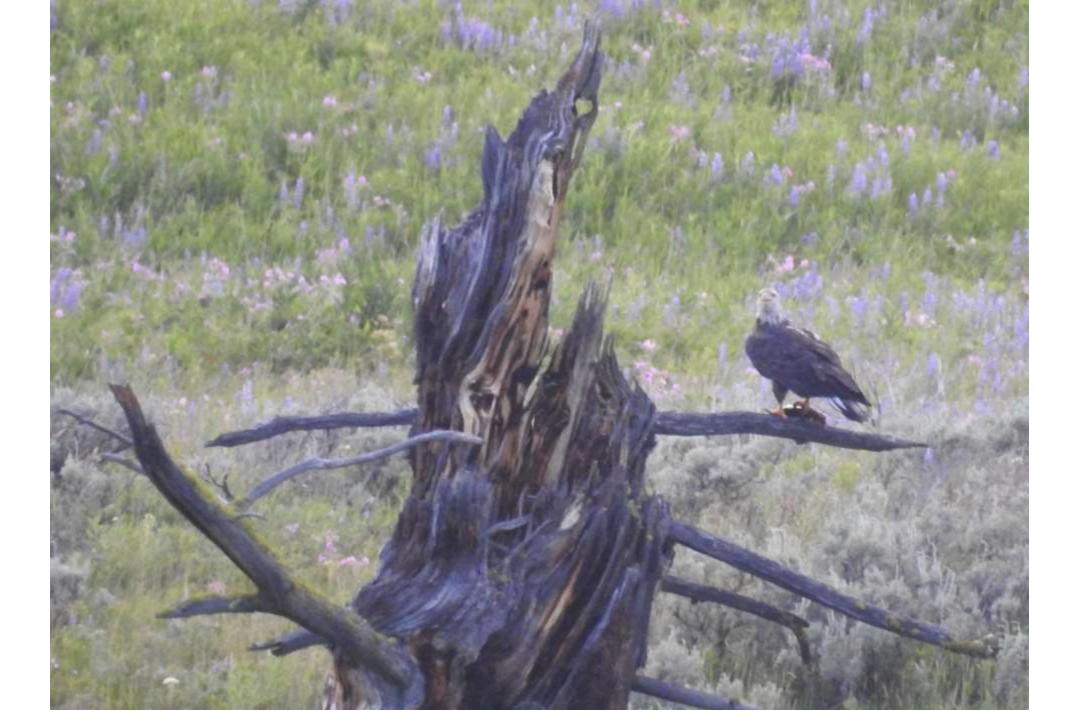
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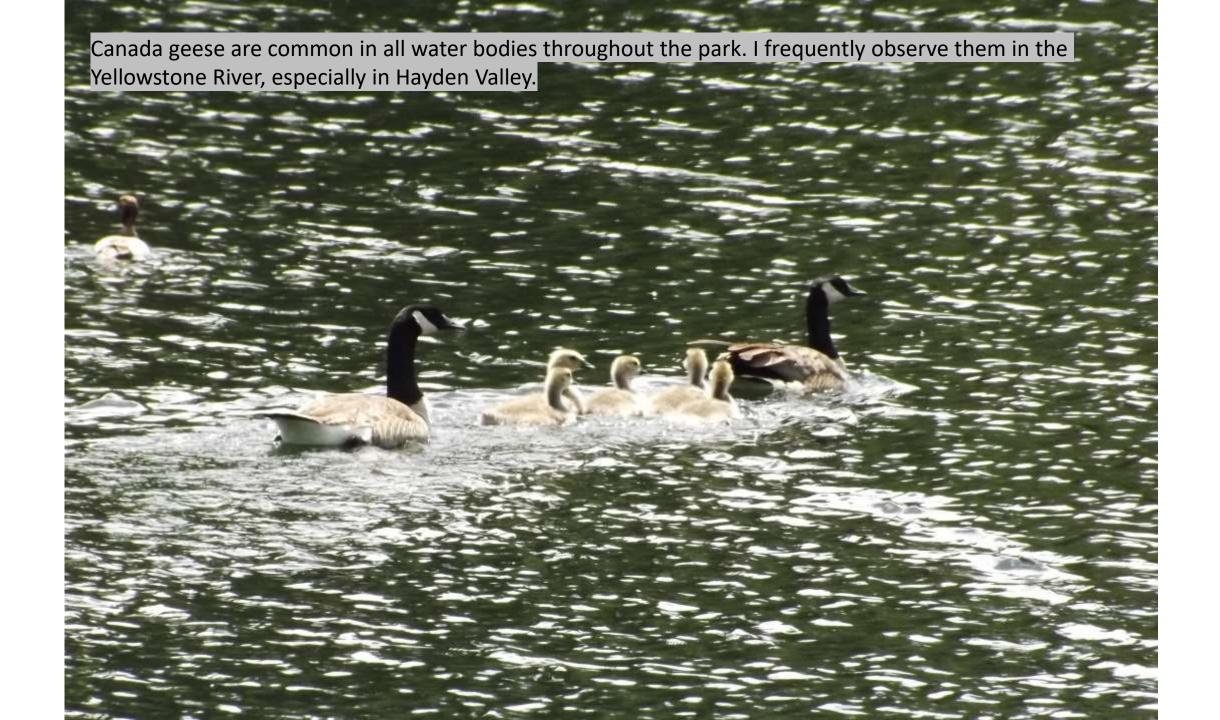












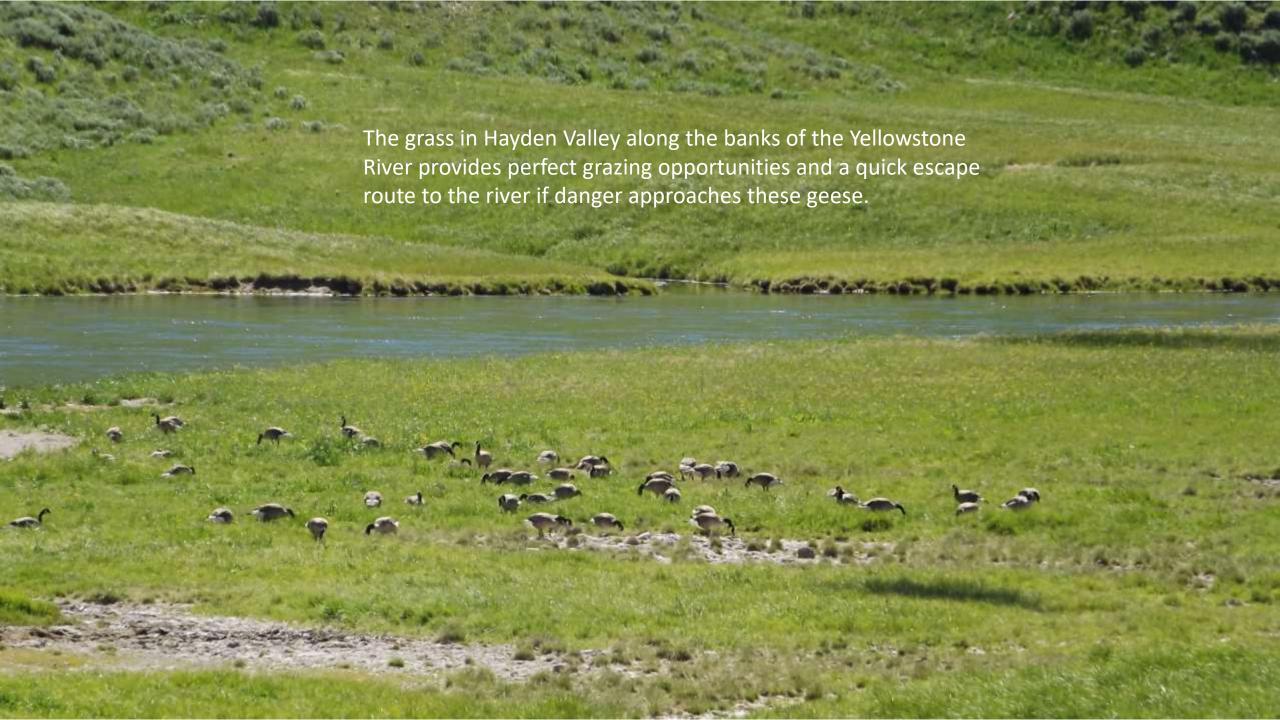




The typical 'V' shaped flying formation that Canada geese are famous for.















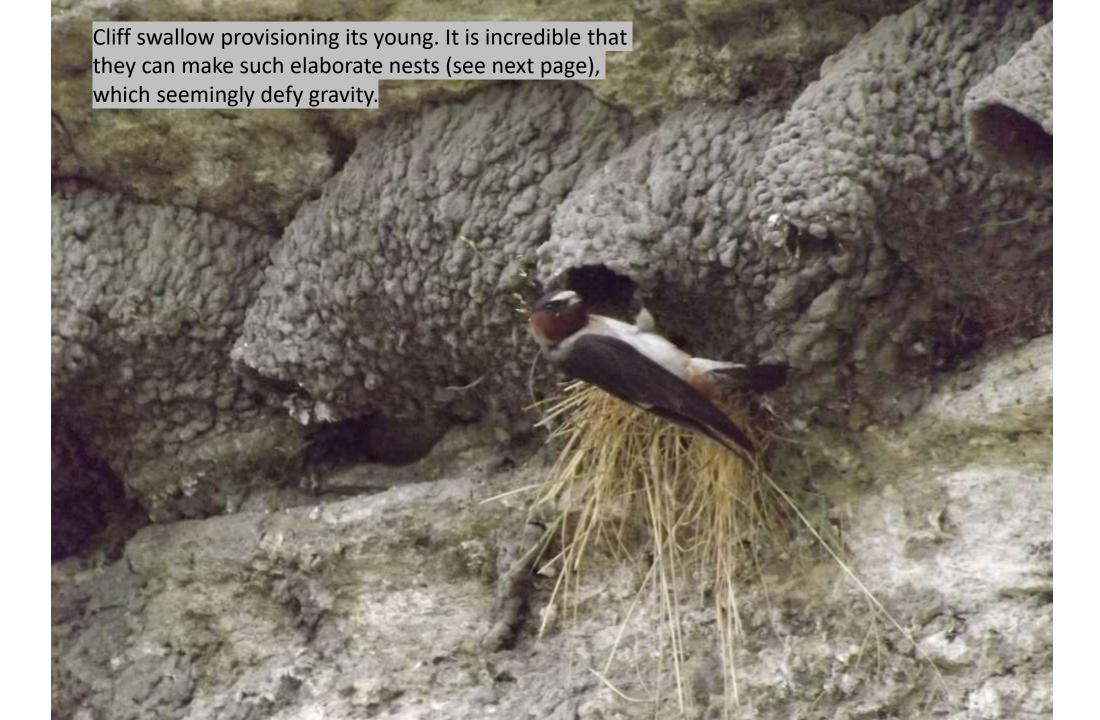






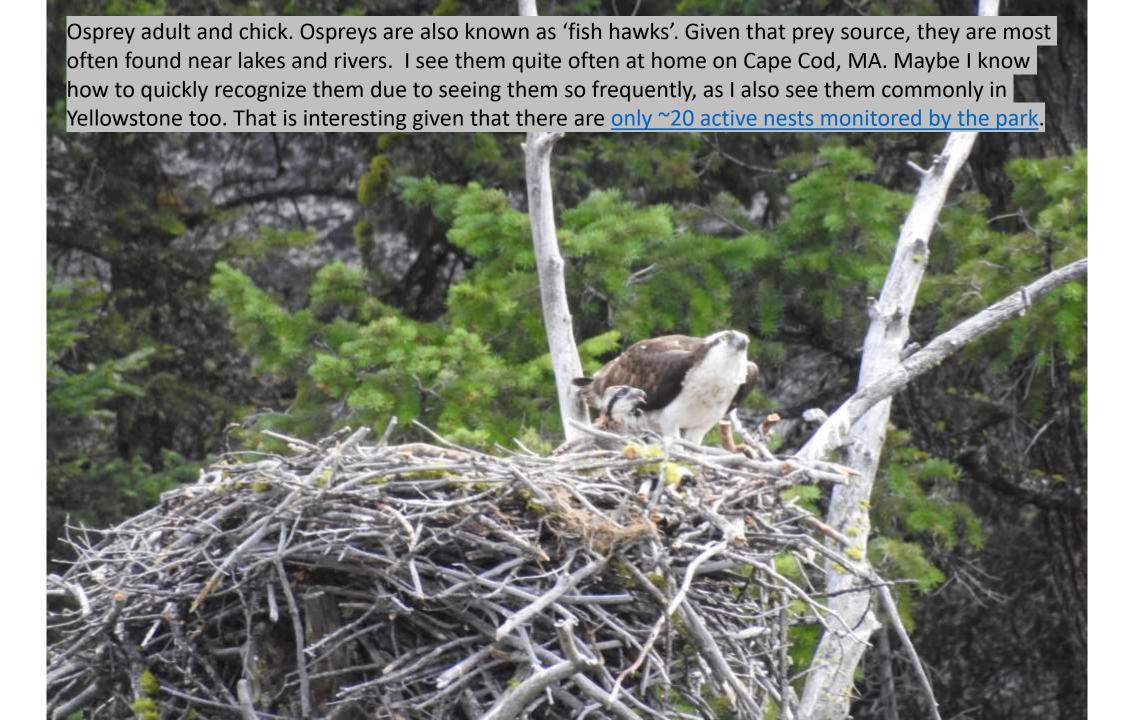








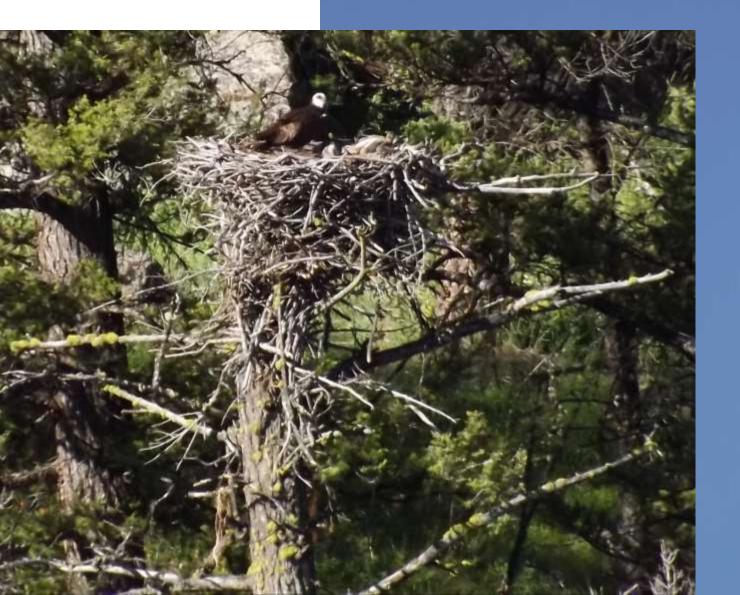




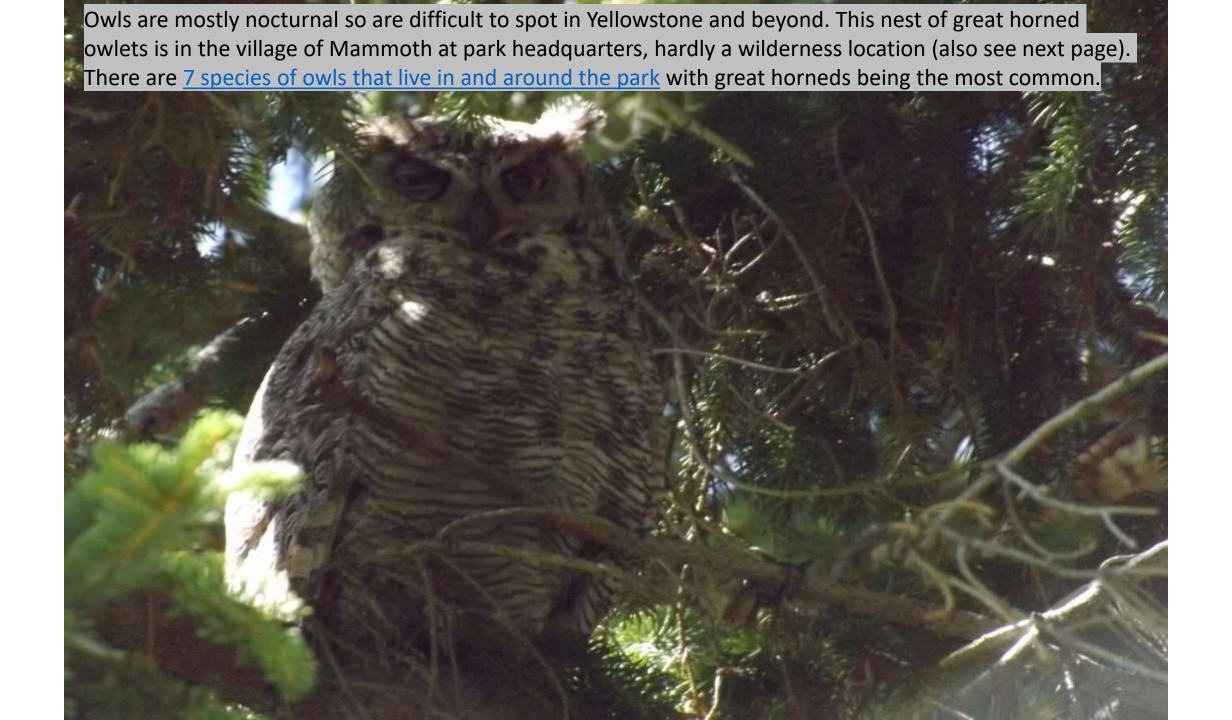




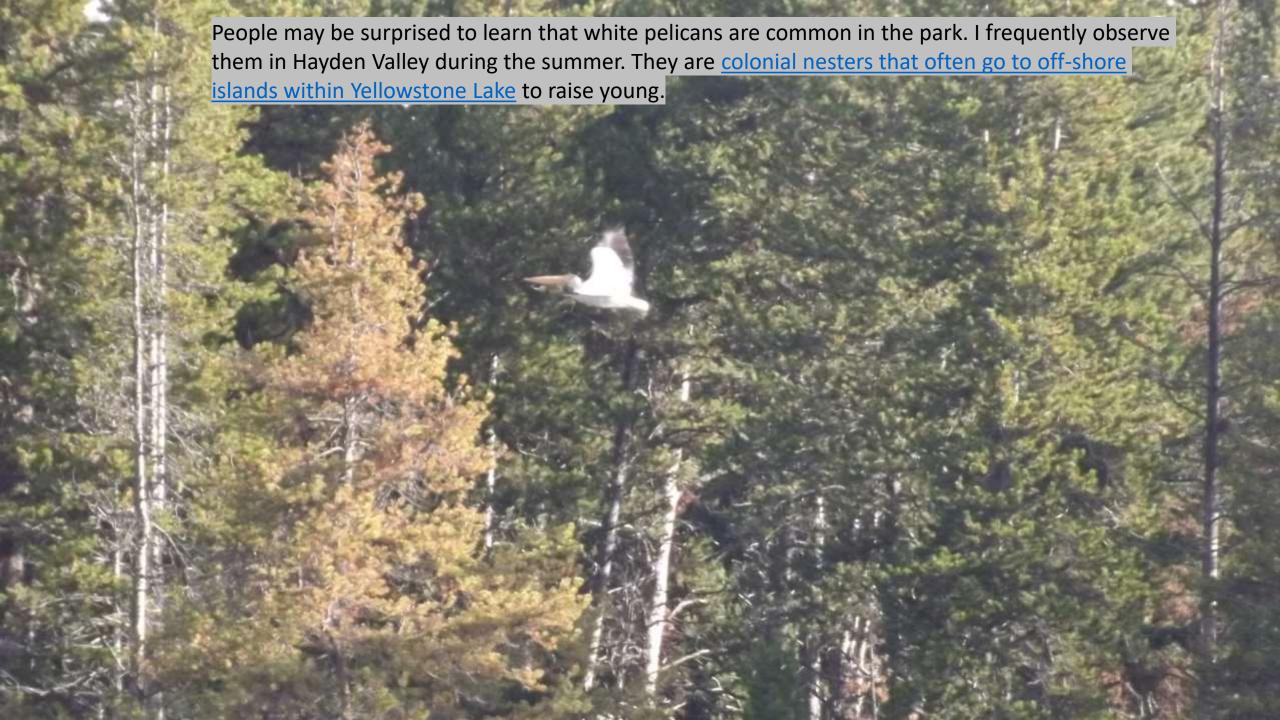
Osprey flying above the Grand Canyon of the Yellowstone (right). Left: Ospreys can sometimes look like bald eagles from a distance.















American white pelicans are popular for wildlife watchers (top and next page), as they cruise the waterways and tributaries in and around the Yellowstone River (left). The pictures on this and the next two pages were taken in Hayden Valley.















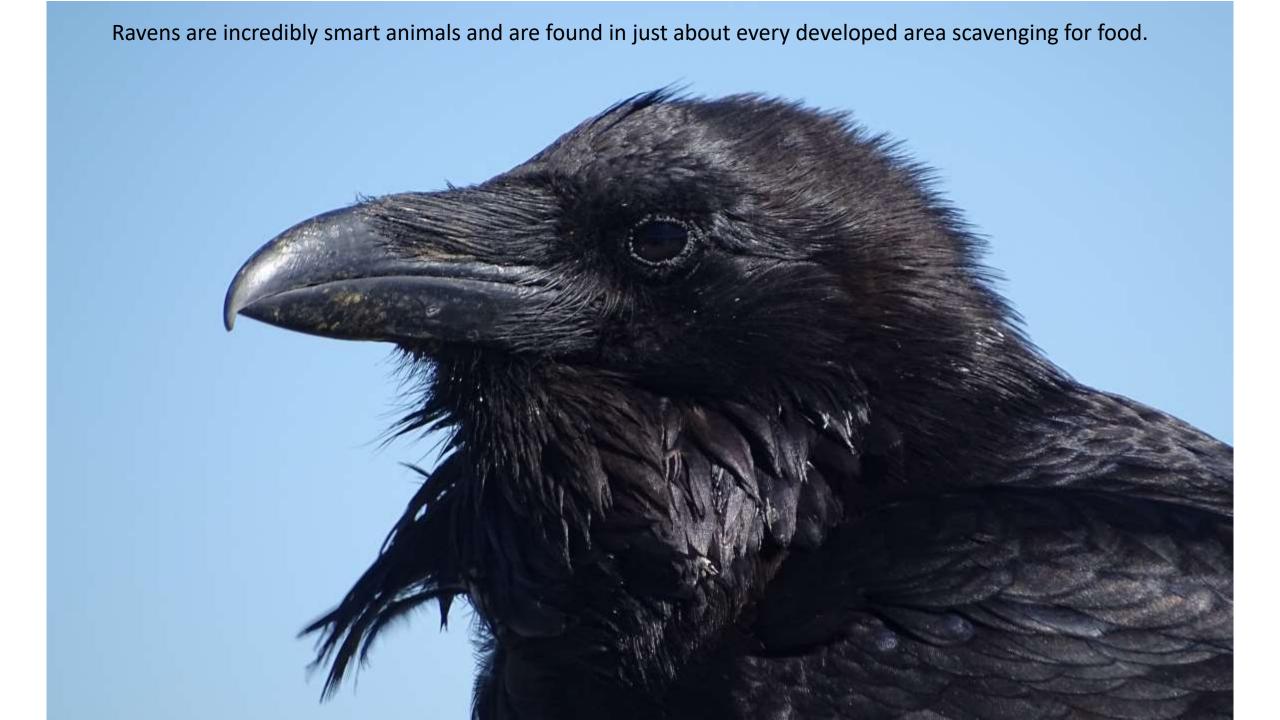
Pelican Valley is north of Yellowstone Lake and only about 5 miles east of Hayden Valley. I have observed pelicans in their namesake before but the area is more famous for its high density of grizzly bears, which requires people to hike in groups when there. The region is also home to the Mollie's wolf pack. This group sometimes ventures 20 miles north into Lamar Valley, especially in the winter and early spring when most prey (especially elk) migrate out of this high elevation plateau near Yellowstone Lake.

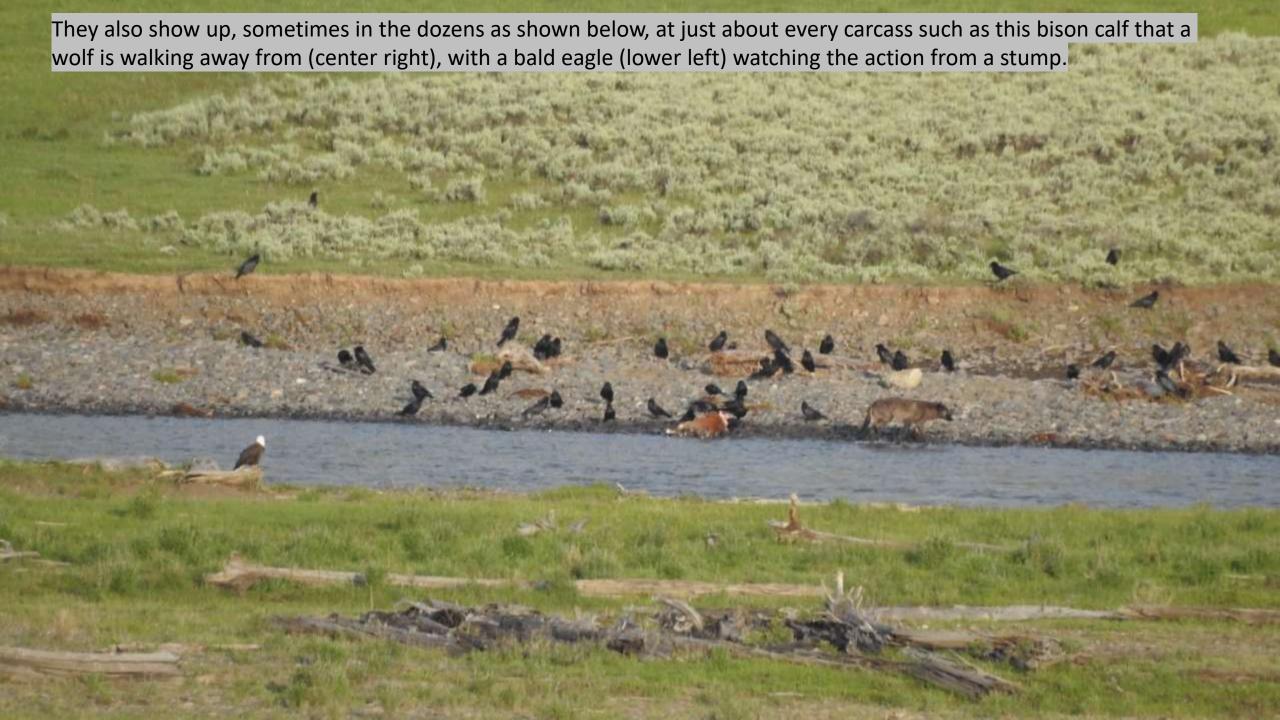
















Red-tailed hawks are the most common hawk in the park and are easy for me to identify since I often see them soaring in the skies in Massachusetts as well. Red-tailed hawks eat mostly rodents and rabbits. They are the species that makes the loud shrilling sound often heard in the movies.

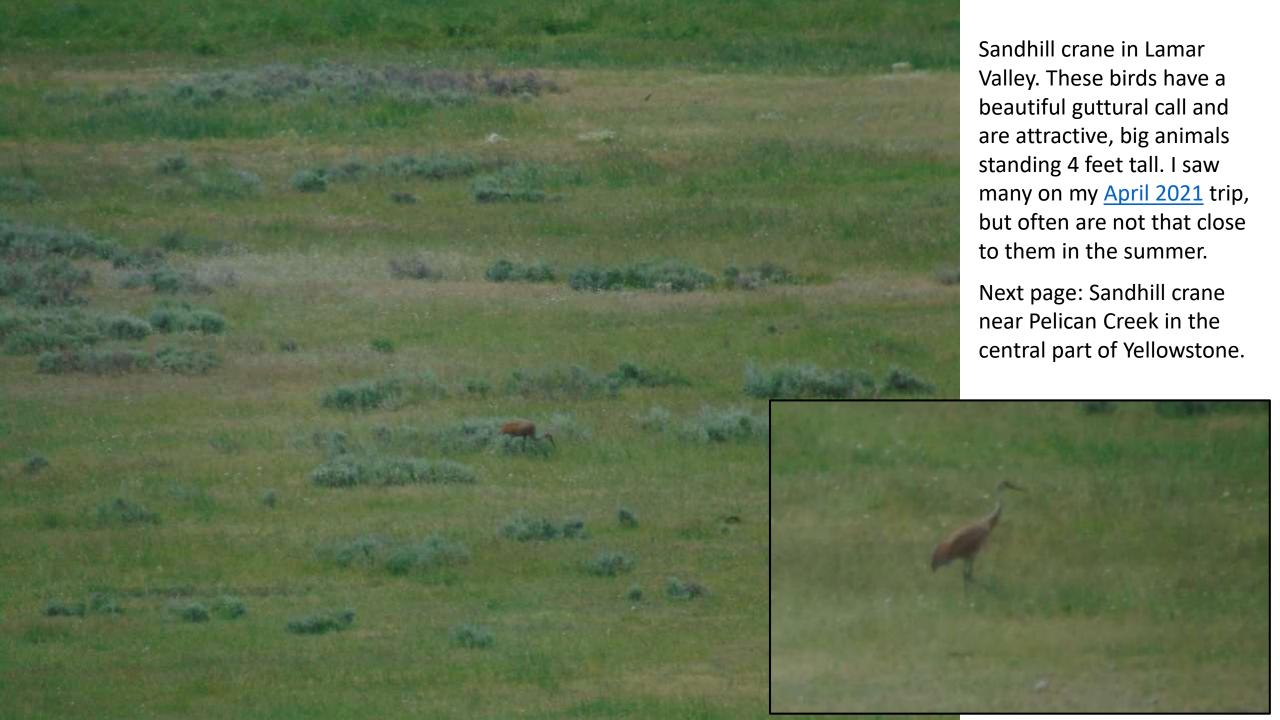
Next page: Rough-legged hawk or buzzard. They are fairly large hawks with broad wings that, compared to other Buteo hawks, are fairly long and narrow. Luckily a more knowledgeable birder helped me identify this one in Hayden Valley.





American robins are common throughout the country, including in Yellowstone. Their sweet, melodious call is always a welcome start to a

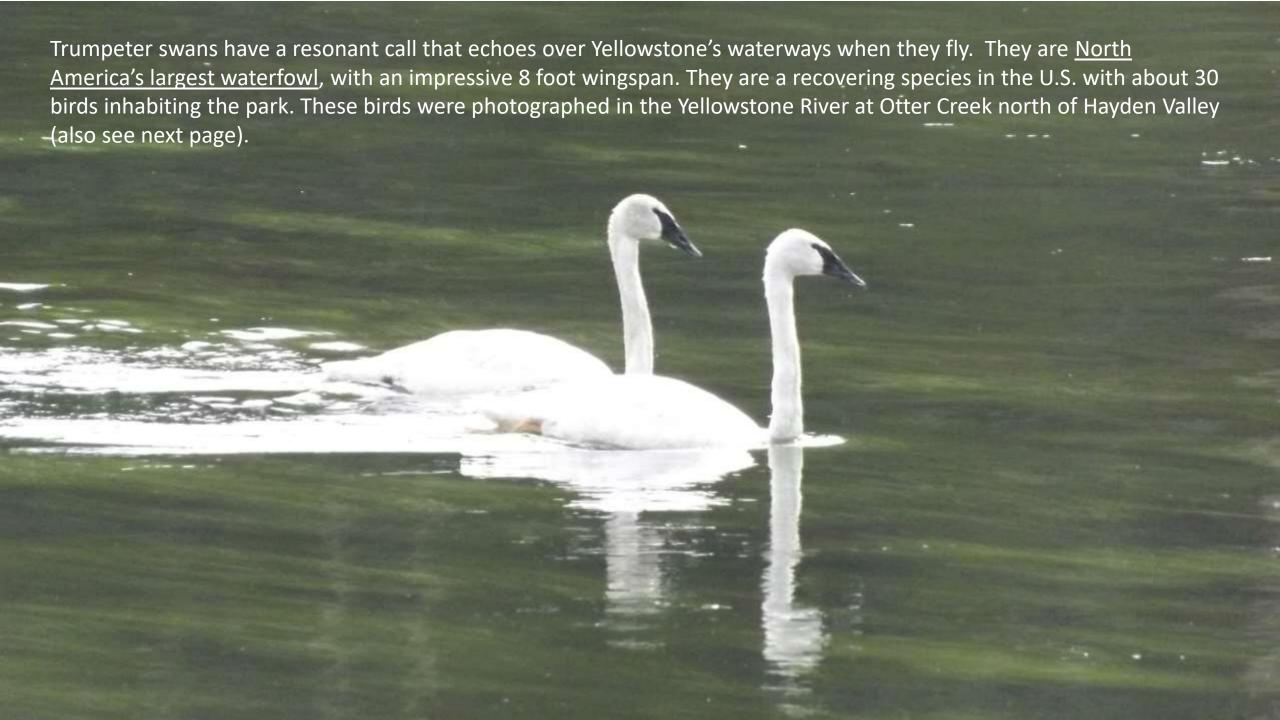


















Swan Lake Flat with Swan Lake. This is a beautiful area above Mammoth where I have not spent enough time wildlife watching. I know that swans are observed there every year, often nesting. It is a worthwhile area to look for bird life.

Turkey vulture, Blacktail Plateau. They once were rare in the park but climate change seems to have allowed these southern birds to move into Yellowstone as the region warms. I now often see them in the park and not just during my summer visits. They have the very distinct dihedral flying shape when they soar, using little energy as they soar and search for dead animals..

Next page: The white-crowned sparrow is one of <u>21 New World sparrow species who inhabit the park</u>. This picture was taken at Soda Butte picnic area.



Turkey vulture circling above Lamar Valley on a cloudy summer day.





Other Animals

The previous chapters highlighted the vast majority of wildlife that you will observe in Yellowstone during the summer. However, there are other animals who are present in the park that either are extremely difficult to see (e.g., wild cats) or I just don't focus on photographing them when I am there (e.g., insects). Enjoy the final chapter on Yellowstone's wildlife. While this is relatively incomplete, I provide facts on each group of animals discussed.



Cats: Bobcats, Lynx, and Cougars

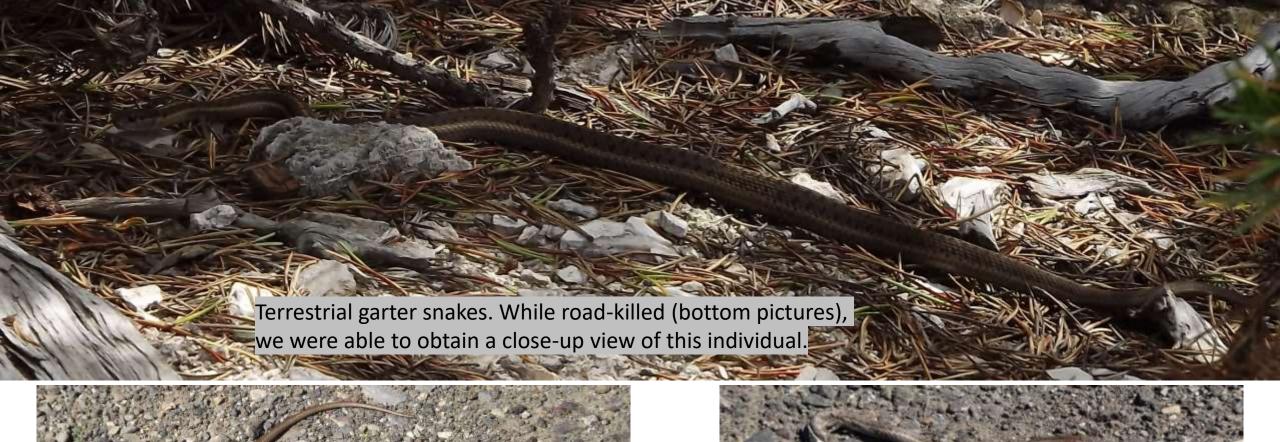
Three species of cats inhabit the park. All are elusive and difficult to see. I have never observed a live cat during any of my trips and it is rare for people who even live there to glimpse them. For example, folks that study wolves full-time might see one or two cougars a year, unless using radio-collars and other related technology. It is more common to spy their tracks (see previous page), which are more circular than a canid's oval print. Also, cats have 3 lobes on the bottom of the print and retractable claws which don't register in substrates like dirt, sand, snow, or mud.

The bobcat is the <u>smallest species and is relatively widespread</u>, but secretive, in the park. Wildlife watchers sometimes observe them in the winter along the Madison River. The <u>lynx is uncommon in the park</u>, but has been documented. They are medium-sized but have huge feet, which aides in their movement through deep snow. Cougars, also called mountain lions and pumas, are by far Yellowstone's largest felid species weighing 85-120 pounds for females and up to 170 pounds for males. They are <u>well established across the 'Northern Range' of the park</u>, with a population of around 40 individuals. Deep snow prevents them from living year-round outside of that area. They are incredibly elusive and are rarely observed.

Reptiles and Amphibians

There are <u>6 confirmed species of reptiles in Yellowstone</u>: bullsnake, prairie rattlesnake, rubber boa, sagebrush lizard, common garter snake, and terrestrial garter snake. The cold environment of the park perhaps shouldn't make it a surprise as to the relative paucity of these vertebrates. I have observed terrestrial garter snakes infrequently in the park (despite seeing them regularly back home), such as at Norris Geyser Basin (next page, top picture) and at the 'Confluence' of the Lamar and Soda Butte Rivers (next page, bottom pictures). They are the <u>most common reptile in the park</u>. I once quickly observed a sagebrush lizard at Norris Geyser Basin, having no idea at the time that they lived there. I spent nearly an hour searching for that picture, and finally located it, back in June 2006.

During the course of my research for this book, I was perplexed to learn that no turtles, which are reptiles, are located in the park. Apparently western painted turtles and common snapping turtles <u>live nearby</u>, <u>but not in Yellowstone</u>. That was a group of animals I would've sworn I have seen before, especially since I see them so regularly back home (including box turtles). But when I thought about it I couldn't think of an actual location where I had observed one before, nor did I find anything in my field notes or picture files.







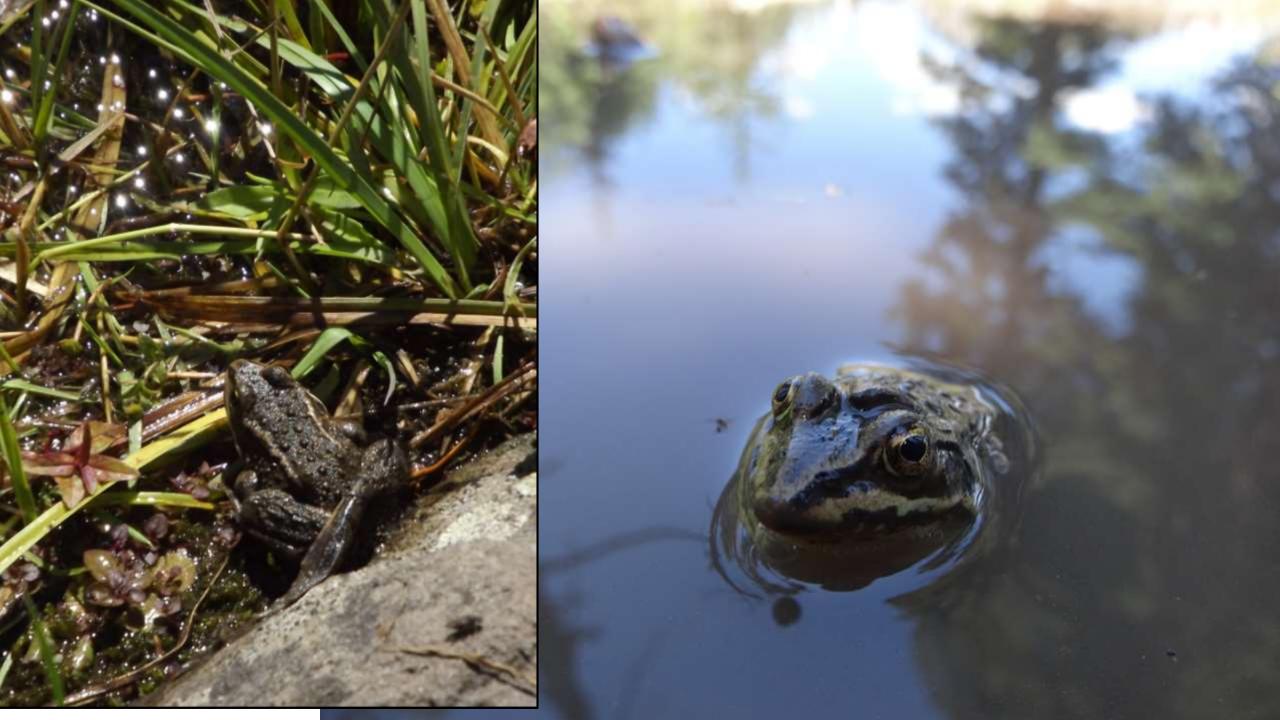


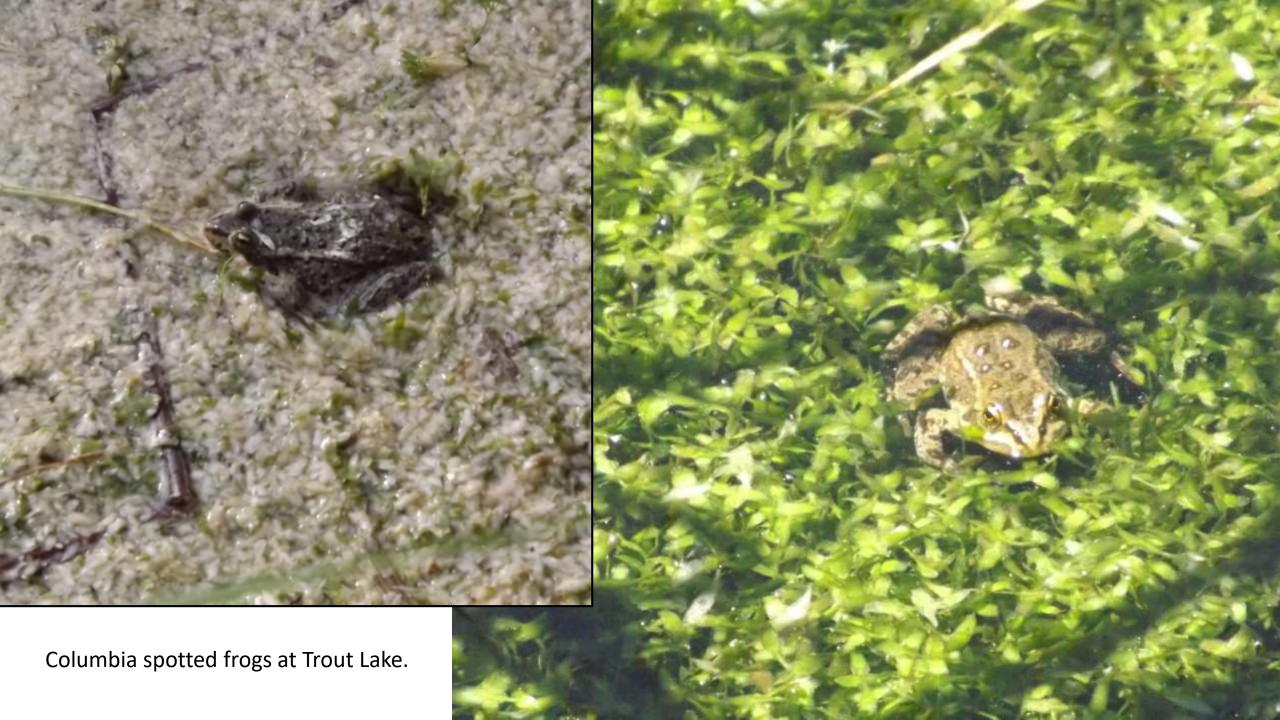


There are 5 species of amphibians in the park: boreal chorus frogs, Columbia spotted frogs, western tiger salamanders, and western toads (see previous page) are all common, while the plains spadefoot is rarely seen. Amphibians are valuable indicators of environmental stressors such as disease or climate change. From the park service link: "Both amphibians and reptiles are ectothermic (cold-blooded), meaning they derive body heat from outside sources rather than generate it internally. Reptiles have scaly, dry skin. Some lay eggs; others bear live young. Amphibians have thin, moist glandular skin permeable to water and gases. The young must pass through a larval stage before changing into adults. Amphibious means double life and reflects the fact that salamanders, toads, and frogs live in water as larvae and on land for much of the rest of their lives."



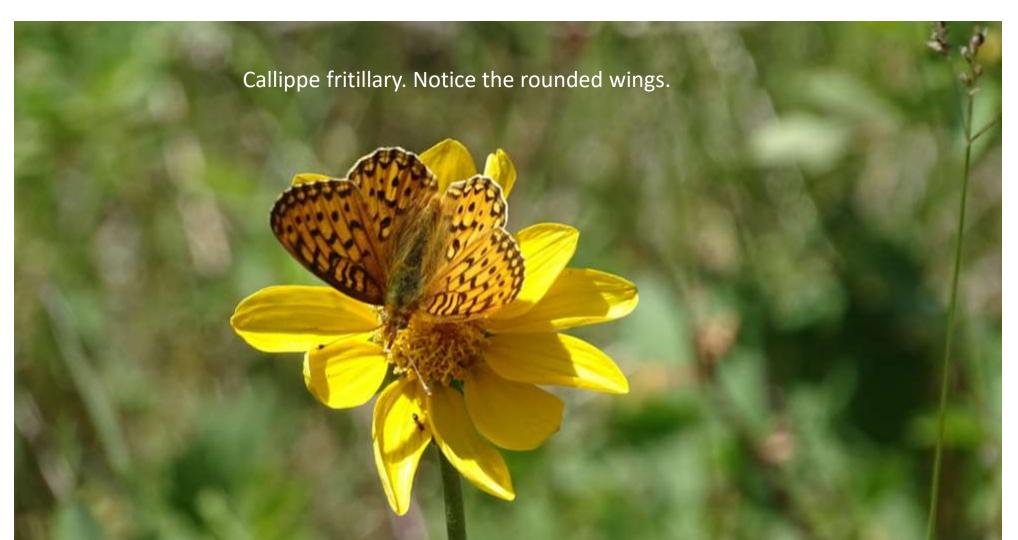


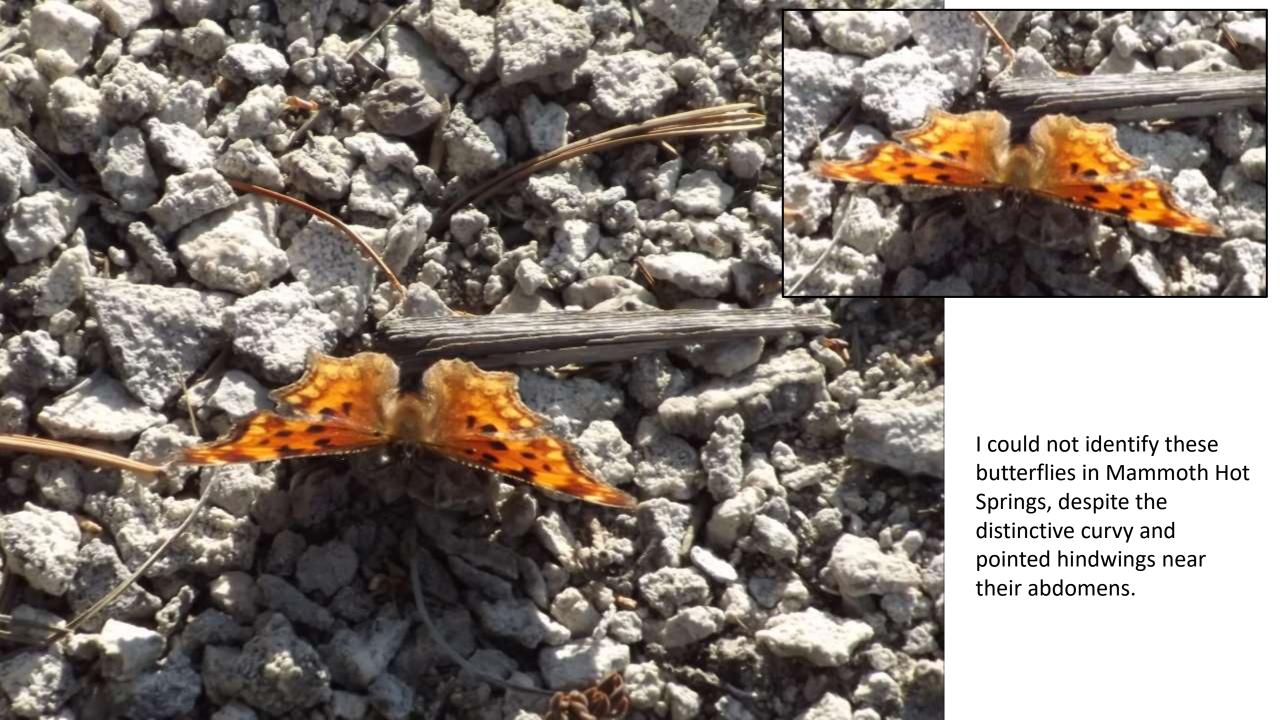




Insects

There are a variety of insects in Yellowstone. Describing them all would be worthy of a book in and of itself (e.g., <u>visit this website</u>). I witness many of them, especially mosquitos, during the summer. Beetles, grasshoppers, and butterflies are probably the most observable species because of their size. They are often in and around trails, especially in grassy areas. Butterflies, in my view, are the most beautiful of the insects. There are <u>many species in the park</u>.



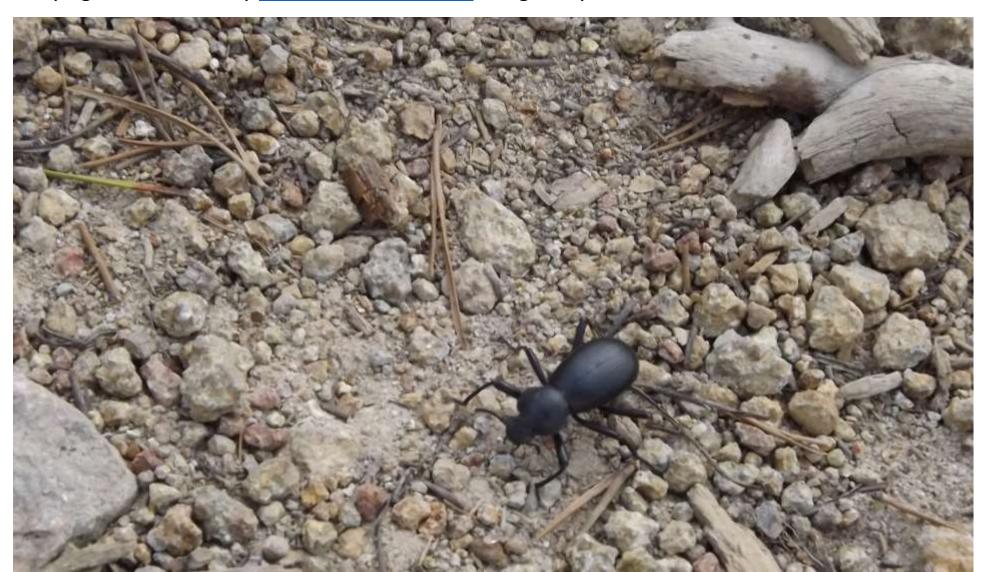






There were many butterflies on the decomposing remains of an elk. Most appear to be northern checkerspots. You'll also often see butterflies on fresh animal scat (poop) as that is a vital food and mineral source for them.

For a year, I assumed this was a black blister beetle that I saw on the Monument Geyser Basin Trail. However, in spring 2022 I had a fantastic Zoology student, Sam Jupin, who is going to the University of New Hampshire to train to be an entomologist. He made a convincing argument, based on the animal's abdomen, that it was actually a darkling beetle (the larval form of these guys are mealworms!). There are many species of beetles and insects in the park and I am far from an expert at identifying them, but many helpful online sources can guide you in this endeavor.









Fish

Yellowstone's native fish are an important part of the regions varied food webs, have great local economic significance, and provide exceptional visitor experiences. There are 11 native and 5 non-native species of fish. These include arctic grayling, whitefish, sculpin, minnows, and suckers, but trout are the namesake of the group. There are two species of native cutthroat trout and 4 species of non-native trout: lake, brown, brook (native to the east coast), and rainbow.

Lake trout are a serious threat to the biodiversity of the park as they have greatly reduced cutthroat trout abundance. Cutthroats feed dozens of Yellowstone's animals, including grizzly bears, otters, and eagles, when they travel up shallow tributaries to spawn. Lake trout (see video on link), conversely, live and lay their eggs in deep water, so are not accessible as a food source. The park has spent much effort and money in trying to eradicate them from Yellowstone Lake.

Cutthroat trout in a stream











Epilogue

I hope you continue to enjoy my Yellowstone book series, including My Yellowstone Experience (2013), The Trip of a Lifetime (2020), Christmas in Yellowstone (2021), and Mud, I mean April, in Yellowstone (2021). With this fifth book (and the fourth one being a free, Open Access e-book) related to the park and its focus on the amazingly visible and abundant wildlife that lives there, I can't help but stress the importance of having national parks. Simply put, there is no possible way that I would have seen all the wildlife that I did without having a large area protected from human interference, especially human hunting. The National Park (NP) Service's mission of preserving 'unimpaired the natural and cultural resources and values of the national park system for the enjoyment, education, and inspiration of this and future generations' is a model that the rest of the world has replicated. It has been extremely effective in protecting core wildlife populations and ecosystems as well as being an important boost to local economies as people vacation in these areas.

However, there are many places in our great country that do not have national parks. Other locations where they do have parks are small in size and heavily influenced by state wildlife agencies. Their goal is to ensure consumptive activities, even on park lands. To at least partly rectify this, I wrote a book pleading to create more national parks in the Northeast United States. Northeastern U.S. National Parks: What is and What Could Be is an Open Access, free e-book that anyone in the world can download. It makes the case to expand the NP System in the Northeast, beyond just having Acadia National Park as its only large "natural" park, by adding 3 units: Cape Cod NP in MA, Kancamagus NP in NH, and Maine Woods NP and Preserve. These three areas are already existing federal land and could immediately be added to the NP Service by an Act of Congress. Giving national park status to these areas would provide an important, higher level of protection to better safeguard these areas, and its resources, especially during politically volatile times. I strongly believe that NPs are "America's Best Idea", as Ken Burns eloquently noted. Creating these parks in the urbanized Northeast is important, especially since wildlife watching is such of an important economic contributor to the country, and animals need full protection to be as visible as they are in places such as Yellowstone.

I urge readers to peruse <u>Northeastern U.S. National Parks</u> (see book cover on next page) and contact the legislators and other decision-makers listed on the last page of the read to make that dream a reality in the Northeastern United States.

Northeastern U.S. National Parks: What is and What Could Be

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