

# The Dakotas – Birds & Mammals of the Badlands

Naturetrek Tour Report

20th May – 2nd June 2023

---



Yellow-headed Blackbird



Gorgone Checkerspot



Black Tern



Black-necked Grebe

Tour report and images by Jane Dixon and Adam Dudley

---



Naturetrek

Mingledown Barn

Wolf's Lane

Chawton

Alton

Hampshire

GU34 3HJ

UK

T: +44 (0)1962 733051

E: [info@naturetrek.co.uk](mailto:info@naturetrek.co.uk)

W: [www.naturetrek.co.uk](http://www.naturetrek.co.uk)

Tour Participants: Jane Dixon and Adam Dudley (leaders) with seven Naturetrek clients

## Summary

What a fantastic array of wildlife, habitats, culture, scenery, and history this area of North America can boast. From northern prairie to dramatic canyons to Ponderosa Pine-covered rolling hills. North and South Dakota offers an adventure to any intrepid traveller. On our tour, we saw 154 species of bird including Mountain Bluebird, American Dipper, Chestnut-collared Longspur, and Ferruginous Hawk. Mammals also feature highly in this area, and we spotted numerous herds of American Bison, Pronghorn, including a newly born fawn, White-tailed Jackrabbit, North American Porcupine, and Thirteen-lined Ground Squirrel. We saw two species of snake: multiple Smooth Green Snake and Eastern Yellow-bellied Racer. Luckily, the weather was warm and dry, so the group was rewarded with over 35 species of butterfly including Indra Swallowtail, Western Pine Elf, and numerous Gorgone Checkerspot.

### Day 1

**Saturday 20th May**

#### In flight and local Hotel in Rapid City

The flight arrived on time, but unfortunately one guest missed the connecting flight in Dallas Fort Worth. We met six guests at Rapid City airport. A few calls and rapid problem solving by the tour leaders got the marooned guest a flight for the next day and a hotel room for the night. The fortunate side of this instance was the one guest had an early night in a plush hotel at the airport. The remaining guests had a longer day, but a restful sleep in Rapid City.

### Day 2

**Sunday 21st May**

#### Badlands National Park

The group breakfasted and set off for Badlands National Park. As we loaded the cars, we saw Eastern Cottontail. The tour guides phones were ready to receive any messages from our stranded traveller. As we drove into the park, we had excellent views of American Bison, Black-Tailed Prairie Dog, Pronghorn, Bighorn Sheep with lambs, and Coyote. Birds of the prairies spotted were Rock Wren, Lark Sparrow, Western Meadowlark and Red-winged Blackbird. We stopped at numerous overlooks to admire the colourful striations of the Badlands and scan for wildlife.

We had a picnic lunch at the Catono picnic area and spotted Lark Sparrow. At this point, a phone call came in. Our late arrival had been lucky enough to grab a standby seat on the early flight out of Dallas Fort Worth. We reorganized the cars and one guide sped off the airport, an hour drive away. The other guide continued with the rest of the guests, to explore the Badlands further. We hiked the Fossil Exhibit trail and learned about the incredible prehistory of the area, with large numbers of dinosaurs present in this area in the past. We also hiked into the Badlands along the Castle Trail, where we found a group of four male Bighorn Sheep adorned with impressive, curled horns. Birds here included a fly-over Bald Eagle and a pair of stunning Mountain Bluebird. Later, along the Cliff Shelf Trail, we followed boardwalks and climbed stairs through a Juniper Forest perched along the Badlands Wall. Here we saw Least Chipmunk, Blue-gray Gnatcatcher, and our first Mule Deer.

Everyone was reunited at Cedar Pass Lodge, where we had a relaxing dinner and a good night's sleep.



Bighorn Sheep

## Day 3

Monday 22nd May

### Black Hills

We started the day with a pre-breakfast stroll around the lodge grounds. We saw Mountain and Desert Cottontails plus Blue Grosbeak, Orchard Oriole, Least Flycatcher, Western Kingbird, and Red-headed Woodpecker. A few of the group saw a Prairie Falcon as it flew towards the towering cliffs nearby.

After breakfast, we loaded up the cars and drove back towards Rapid City. Along the way, we saw Pronghorn and Coyote in the prairie by the road. After a fuel stop at Rapid City, we headed southwest towards the Black Hills. Our first stop was Mount Rushmore.

After admiring the heads of Washington, Jefferson, Roosevelt, and Lincoln, we strolled around the trail at the base of the cliff. Our first mammal was Least Chipmunk. We also spotted Red-naped Sapsucker, Pine Siskin, and had great views of the endemic White-winged Junco. Butterflies observed included Brown Elfin and Pearl Crescent. A White-tailed Deer observed us as we finished our walk.

Our next stop was lunch at the historic Sylvan Lake Lodge followed by a stroll around the lake and up the trail. There, we observed Yellow-rumped Warbler, an Osprey fishing, and a Mountain Bluebird. Butterflies included Mourning Cloak, Echo Azure, Variable Checkerspot, and Gray Comma. We heard numerous Boreal Chorus Frog calling but were unable to locate any individuals.

We arrived at our lodge late afternoon, freshened up and ate dinner. On the way back to the cabins we saw our first Common Nighthawk of the trip. Everyone had a restful night in the comfortable cabins among the Ponderosa Pine of the Black Hills.



## Day 4

Tuesday 23rd May

### Custer State Park

We had a pre-breakfast stroll around the lodge and found Painted Turtle and Northern Leopard Frog in the lake and surrounding reeds. In the trees, we saw Red-breasted Nuthatch, our first Red-headed Woodpecker (which are usually uncommon, but this year were very common throughout the tour), Western Wood-Pewee, Black-capped Chickadee, Western Tanager, and Violet-green Swallow.

After breakfast we drove south through the park towards Wind Cave National Park. There, we came across a huge herd of cow American Bison and calves. We sat in the cars and watched the herd wallowing, feeding, interacting, and strolling past our vehicles. One of the vehicles even got licked by a passing Bison. After 30 minutes or more we drove further down the road to find Pronghorn and numerous Black-tailed Prairie Dog towns. We got great shots of a male Pronghorn chewing the cud and enjoyed the antics of the numerous Prairie Dog. New butterflies included Common Ringlet and Checkered White.

As we drove further along the wildlife loop, we spotted Burro (Feral Donkey) on the side of the road. We stretched our legs with a short walk along French Creek Trail, which is in a lush green, rock-sided valley. We noticed American Redstart, Gray Catbird, Eastern Kingbird, Plumbeous Vireo, Black-billed Magpie, Swainson's Thrush, Yellow-breasted Chat, and an impressive display by two Northern Goshawks as they performed their incredible "butterfly flight" overhead!

Lunch was at the State Game Lodge. Most of the group chose a sweet lunch of Berry Blitz, a crepe filled with cream cheese and a mixed berry sauce. Everyone agreed it was a delicious choice.

Following our break, we drove through the town of Custer to the Crazy Horse Memorial, which is a mountain monument under construction on privately held land. The memorial was commissioned by Henry Standing Bear, a Lakota elder, to be sculpted by Korczak Ziolkowski. The monument has been in progress since 1948 and is far from completion. Once completed, it will depict the Oglala Lakota warrior Crazy Horse, riding a horse and pointing to his tribal land. The Ziolkowski descendants still lead the ongoing construction. When completed, it will become the world's second tallest statue, after the Statue of Unity in India.

The group spent an hour exploring the Gallery of Native American Art and watching a documentary about the history and construction of Crazy Horse. We admired the sculpting work that continues but agreed that it would still be ongoing long after all or our lifetimes. It truly is an immense undertaking. When we were done, we drove back to our Lodge for the evening.

## Day 5

Wednesday 24th May

### Roby & Hell's Canyons and Elk Mountain

We started the morning with a Coyote chasing a White-tailed Deer as we headed for breakfast, an exciting sight. After boarding the vehicles, we drove to Custer and had an early breakfast at Calamity Jane's Café. After an excellent breakfast, we drove west towards Wyoming. After crossing the state line, we headed into Roby Canyon and the Black Hills National Forest. We parked the cars and began walking up the Ponderosa Pine filled canyon. The meadows were filled with Prairie Bluebells, Meadow Deathcamas, and Purple Shooting Stars.

The stroll up the canyon was very pleasant and we spotted numerous butterflies including Numerous Dreamy Duskywing, Gray and Juniper Hairstreaks, Anise, and Indra Swallowtails plus Olympia Marble. Birds included

Dusky Flycatcher, Chipping Sparrow, Spotted Towhee, Yellow Warbler, Black-headed Grosbeak, and Ovenbird (after much chasing!).

We drove into Wyoming to pick up lunch and drove to the fire tower on Elk Mountain. Along the way, we checked out some ranch pools and found Blue-winged Teal and American Coot.

As we drove up the freshly graded dirt road to the summit, we found many Red-headed and two Lewis' Woodpeckers. Unfortunately, no Elk were seen, and we descended to great views of Pronghorn and Black-tailed Prairie Dog.

We headed back into South Dakota and explored Hell Canyon. This steep-sided red rock canyon was filled with fresh spring greenery. We spotted Yellow-bellied Marmot at the top of the cliff and numerous Big Horn Sheep with lambs grazing in the shrubbery and resting on the cliff edges.

Birds seen included White-throated Swift, Northern Flicker, Cordilleran Flycatcher, Warbling Vireo, Song Sparrow, Brown-headed Cowbird, and House Wren. New butterflies included Western Pine Elfin, Western Tailed Blue, and Gray Comma. After a fantastic day, we drove back to the lodge for dinner and a relaxing night's sleep.



Dreamy Duskywing & Western Pine Elfin

## Day 6

Thursday 25th May

### Spearfish Canyon

We breakfasted again at Calamity Jane's in Custer then set off to Hill City to pick up lunch. We turned onto Mystic Road and took the historical Burlington Trail to Cheyenne Crossing. Along the way, we stopped off at several roadside locations. We spotted Canada Jay and American Red Squirrel in the Black Hills Spruce by the road. Further north, we discovered a fantastic male Broad-tailed Hummingbird and Summer Azure by a bridge. We followed the route of the old railroad, which is now a cycle path. Near the old pioneer town of Mystic, we found a Yellow-bellied Marmot by the side of the road enjoying the fresh Dandelion flowers. At a pond near Hanna Campground, we noticed a Spotted Sandpiper and a California Tortoiseshell.

After a picnic lunch at Hanna Campground, we explored the 1-mile Nature Trail. It wound through the pines and spruce through a gulch above the campground. We saw Golden-crowned and Ruby Crowned Kinglet, plus Red-tailed Hawk, Dusky Flycatcher and Red-naped Sapsucker.

Returning to our cars, we continued heading north to Iron Creek Trail. Exploring the canyon, we were very pleased to find an American Dipper posing very nicely along the stream. Other observations included American Redstart, White-throated Swift, Cordilleran Flycatcher and Song Sparrow.

By this point in the late afternoon, we could see the gathering clouds and rumbles of thunder. We decided it was best to return to the cars and drive to our lodge for the next couple of nights, Spearfish Canyon Lodge. We enjoyed a lovely dinner at the lodge and retired for the night ready for another adventure tomorrow.



American Dipper & Canada Jay

## Day 7

Friday 26th May

### Bear's Teepee National Monument (Devil's Tower), Wyoming

After breakfast at the lodge, we hiked the Roughneck Falls Trails up the canyon from the lodge. We saw numerous Brown Trout in the river plus over 100 American Redstart and many Ruby-crowned Kinglet! It looked like there had been a “fall” of these species overnight. New for the bird list was Red-eyed Vireo, MacGillivray's Warbler, Common Yellowthroat and Rose-breasted Grosbeak. We had great views of American Red Squirrel and had an interaction with a Yellow-bellied Marmot who growled at the group. Admiring the falls, we saw our second American Dipper of the tour. New butterflies included Satyr Comma and Common Checkered Skipper.

Returning to the lodge, we boarded the vehicles and drove north to Spearfish and into Wyoming. We were headed for Devil's Tower National Monument. The central core of a volcano long extinct, made famous by Close Encounters of the Third Kind, rises from the prairie as you drive towards it.

We stopped at the Prairie Dog town for a scan and then explored the Joyner Ridge Trail. We spotted Northern Crescent, Variable Checkerspot, Juniper Hairstreak, and Western Brown Elfin.

As we drove back towards South Dakota, the clouds were gathering over the prairie. It started to rain, but as we drove back into Spearfish Canyon it developed into a ferocious storm with hail that coated the road, plus gale force winds. We had to slow down to a crawl with hazard lights on. We made it safely back to the lodge, but it was a dramatic end to our day.

After another lovely dinner we retired for the evening to rest for tomorrow journey into North Dakota. On a night-time prowling, one of the guests spotted an American Mink near the lodge.

## Day 8

Saturday 27th May

### Little Missouri National Grassland, North Dakota

After breakfast at the lodge, we set off north to Spearfish. The road was clear of snow and the sun was shining. We searched for Mountain Goat on the cliffs, but to no avail. Stopping in Spearfish, we filled up with petrol and picked up a picnic lunch. Then we started our long drive towards North Dakota. To make the journey more interesting, we turned off the highway and took the dirt roads through the prairie and ranch land. Along the way, we stopped to scan pools and interesting features.

We spotted numerous Pronghorn by the road, but the exciting find was a female with a fawn. New habitat brings new birds, including Lark Bunting, Chestnut-collared Longspur, Upland Sandpiper, Wilson's Snipe, Wilson's Phalarope, Grasshopper Sparrow, Loggerhead Shrike, Horned Lark, and Marbled Godwit.

Further along the road, we pulled over at a drainpipe where we noticed multiple butterflies puddling. The stop proved to be fruitful. We spotted 5 Plains Leopard Frog on the mud and 3 new butterfly species: Uhler's Arctic, Mellissa Blue, and Common Sootywing. Peering into the other end of the draining pipe, we found a North American Porcupine. It retreated into the pipe when we approached, but we were all able to see it with our binoculars when we crouched down. What a great find!

There were numerous raptors circling the prairie including Bald and Golden Eagle, Northern Harrier, Cooper's Hawk with prey, Ferruginous Hawk, American Kestrel, and Red-tailed Hawk.

We enjoyed our picnic lunch at Reva Gap Campground. New species included Lazuli Bunting and Least Flycatcher, plus we saw another Yellow-breasted Chat. After a short stroll to an overlook with an incredible vista of dramatic Badlands, we began the long drive across the ranch and farmland into North Dakota and Medora. The roads are very straight and monotonous through this part of the Dakotas, only interrupted by corn silos and churches too large for the local population.

Finally, we reached the end of the rolling prairie and got our first glimpse of Theodore Roosevelt National Park, an endless sea of badlands stretching out before us. Shortly after we arrived at our lodge in Medora. We had dinner and retired for the evening.



American Red Squirrel & American Bison

## Day 9

Sunday 28th May

### Theodore Roosevelt National Park

We spent the whole day exploring Theodore Roosevelt National Park. This area was beloved by President Roosevelt who spent five years managing a ranch in this area while mourning his beloved family members. We scanned numerous Black-tailed Prairie Dog towns for Burrowing Owl but were unsuccessful. However, we did spot a Golden Eagle flying in front of a cliff behind the town. Following it soar, we realized it was flying close to a large nest stacked midway up the cliff. This nest had obviously been used for many years because it was a huge pile of branches and sticks metres high.

We observed a second adult arrive with prey, which the two chicks in the nest began to devour. Everyone had great views through the scope of this majestic family, and we were able to get distant shots of the nest. Other tourists were curious about we were seeing, and a number were excited as we were to view the spectacle through our scope.

Moving on, we found numerous American Bison and Wild Mustang herds from the cars. We hiked a few short trails, but because of the rain the evening before, the ground was rather muddy and slippery in places. We admired the scenery and took plenty of photos.

New birds for the trip included Downy Woodpecker, Clay-coloured Sparrow, Vesper Sparrow, and Brown Thrasher. We were pleased to find a Sagebrush Checkerspot on one of the short overlook trails that we hiked. As we drove, there was a lone Pronghorn on a far slope, the only individual we saw in the park.

We finished the day with a brief stroll to the Little Missouri River. As we left, we turned to see a Bison had come down to the water's edge. We admired it for a short while, but retreated down the path as it began to wade the river towards us. What a great day in a fabulous park.

## Day 10

Monday 29th May

### Logging Camp Ranch

We set off after breakfast to drive south into the Little Missouri National Grasslands, a mixture of short grass prairie, badlands, and Ponderosa Pine. Not far from town, we screeched to a halt for a Smooth Green Snake on the road. This individual was very obliging, and we got great views and photos. Before we left, we encouraged it off the road, so it didn't become roadkill.

Our first trail along Plumley Draw took us into a prairie valley, where saw Cedar Waxwing, Field Sparrow, Vesper Sparrow, Ferruginous Hawk, another Golden Eagle, and Barn Swallow. We also spotted numerous Gorgone Checkerspot, our first of many for the next few days.

We spotted individual Wild Turkey, Pronghorn, and a couple of Mule Deer by the sides of the road as we drove. We pulled over a few times to scan water courses and saw Tawny Crescent and a juvenile Common Snapping Turtle.

We arrived at the bunkhouse of Logging Camp Ranch to be met by the owner, John Hanson, and the cowhand, Cameron. Jennifer Hanson greeted us all as we entered the lodge-like dining area. We arrived just in time because the gathering clouds began to dump the rain that had be threatening our journey. While the thunder and lightening stormed around us, we enjoyed a ranch lunch followed by a great selection of desserts. John and Cameron had to leave for ranch chores, but Jennifer and her daughter, Alison, spoke to us about life on the ranch and the challenges



faced by living and working in such a remote area. Ranchers are resourceful, practical, and knowledgeable about the land and the vocation they are born into. It is eye-opening to learn how different their lives are to our own.

At the ranch we had views of Upland Sandpiper and Sharp-tailed Grouse. The best sighting was of a Muskrat in an ox-bow lake. It was very active swimming and collecting reeds and grasses, which it kept bringing back to its den in the bank. We watched for quite some time before we had to head back on the return journey to Medora.

We had great views of Cedar Waxwing on our final trail of the day. We freshened up after the dusty roads and enjoyed our last meal at the Rough Rider Inn.

## Day 11

Tuesday 30th May

### To Minot, North Dakota

Today was a 4-hour drive to Minot, ND. We breakfasted, loaded up and drove north to Watford City, where we collected picnic sandwiches. Our first stop was Crow Flies High Butte, which overlooks the Missouri River and great views. In the sage brush and grassy meadows, we found an Eastern Yellow-bellied Racer. This was an exciting find because the snake was proving difficult to see in the sage brush. After a short while the snake relaxed and slithered up the sage brush, so we were able to have great views of this lovely individual.

We ate our picnic lunch at Four Bears Park Picnic area. There we also spotted two new squirrels for the trip: Fox Squirrel and Thirteen-lined Ground Squirrel. Birds included Western Grebe, American White Pelican, Killdeer, Forster's Tern, Say's Phoebe, and Mourning Dove.

After lunch, we headed east to Palermo NWR. We had entered the "pothole country". The prairie pothole system is found primarily in the glaciated northern Great Plains of the United States and Canada and is characterized by depression wetlands formed by glaciers scraping the landscape during the Pleistocene era. These depressions now fill with rain and ground water and provide an important ecosystem for wildfowl and other wildlife.

On the large lake we spotted numerous species of duck, Black-necked Grebe, had an incredible view of a Sora, and saw our first American Black Tern, Ring-billed and California Gull, Double-crested Cormorant, Swainson's Hawk, Western Kingbird, Marsh Wren, Clay-colored Sparrow, Yellow-headed Blackbird, and Bobolink.

After a satisfactory scan of the lake, we continued to our destination. Along the way, one of the guests noticed a large lagomorph. We stopped and pulled in and were pleased to see a White-tailed Jackrabbit in a grassy area by a city neighbourhood. These hares are not regularly seen and are sparsely distributed. A great find.

As we drove into our hotel, we saw several Richardson's Ground Squirrels in the slopes below our hotel. Guests wandered down to take a better look after we had unloaded and checked in. We finished the day with dinner at the hotel restaurant.



Thirteen-lined Ground Squirrel; White-tailed Jackrabbit

**Day 12****Wednesday 31st May**

## Lostwood and Des Lacs National Wildlife Refuges

We spent the whole day exploring “pot hill country”. As the ranger mentioned at Lostwood NWR, this is “duck production” country. The ducks of North America spend the breeding season in the multitude of pools and lakes in this area and head south for the winters.

Our first great spot of the day was three Smooth Green Snakes on the dirt track, of which we had great views. We climbed the fire tower and scanned the reserve. We spotted Common Raven and numerous Ferruginous Hawk plus a Black Swallowtail at the base.

Exploring the auto route, we made multiple stops. Of the 81 species of bird seen highlights included Sharp-tailed Grouse, American Bittern, Red-necked Grebe, Black Tern, numerous species of duck, and Trumpeter Swan. As we were leaving the refuge, we spotted a Muskrat feeding on reeds at the edge of a pool.

We enjoyed a lovely lunch at Gathering Grounds in Kenmare, a small rural town and stop on the railroad line.

Later, we took a short stroll at Des Lacs NWR where we were entertained by a Thirteen-lined Ground Squirrel. We also spotted Wild Turkey, Great Blue Heron, Brown Thrasher, Pied-billed Grebe, Baltimore Oriole, and Least Flycatcher. By this point in the afternoon, the temperature was getting warm, and the group was tiring so we returned to our hotel in Minot for dinner and a good night’s sleep.



Ferruginous Hawk &amp; Wilson’s Snipe.

## Day 13

Thursday 1st June

### Souris National Wildlife Refuge and Bismarck, North Dakota

After breakfast, we drove north again to Souris NWR and hiked a couple of trails by the river and ox-bow lake, and through the prairie. We spotted Northern Leopard Frog, Muskrat and numerous Gorgone Checkerspot. At the edge of a wooded valley, we added a few more species to the bird list including Eastern Wood-Pewee, Black-and-white Warbler, and Red-eyed, Warbling and Yellow-throated Vireo.

By lunchtime the temperatures were rising so we headed back to Minot for something to eat. Then we started our final drive of the tour to Bismarck. We made a pitstop at the Lewis and Clark Interpretive Centre near Mandan Fort. A walk was planned, but due to the rising temperatures, the group agreed to continue to our hotel.

We checked in and relaxed for a couple of hours before walking to a local restaurant for a delicious final dinner.

## Day 14

Friday 2nd June

### Bismarck Area

We enjoyed our last breakfast together before 6 guests boarded the shuttle bus to the airport. Two tour guides and one guest remained and waved everyone off. The three remaining were continuing to Minnesota and Alaska for more adventures.

## Day 15

Saturday 3rd June

### Arrive London

Everyone arrived home safely to spring in the UK.



Smooth Green Snake

## Receive our e-newsletter

Join the Naturetrek e-mailing list and be the first to hear about new tours, additional departures and new dates, tour reports and special offers. Visit [www.naturetrek.co.uk](http://www.naturetrek.co.uk) to sign up.

## Social Media

We're social! Follow us on Facebook, Twitter and Instagram and be the first to hear about the launch of new tours, offers and exciting sightings and photos from our recently returned holidays.



[www.facebook.com/naturetrekwildlifeholidays](http://www.facebook.com/naturetrekwildlifeholidays)



[www.twitter.com/naturetrektours](http://www.twitter.com/naturetrektours)



[www.instagram.com/naturetrek\\_wildlife\\_holidays](http://www.instagram.com/naturetrek_wildlife_holidays)

## Species lists

Birds (H = Heard only)

| N=Near-endemic I=Introduced |                                 | May - June 2023 |    |    |    |    |    |    |    |    |    |    |   |  |
|-----------------------------|---------------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|---|--|
| Common name                 | Scientific name                 | 21              | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 1 |  |
| Canada Goose                | <i>Branta canadensis</i>        | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Trumpeter Swan              | <i>Cygnus buccinator</i>        |                 |    |    |    |    |    |    |    |    |    | ✓  | ✓ |  |
| Wood Duck                   | <i>Aix sponsa</i>               |                 |    |    |    |    |    | ✓  |    |    |    |    |   |  |
| Blue-winged Teal            | <i>Spatula discors</i>          |                 |    |    | ✓  |    |    | ✓  |    |    | ✓  | ✓  | ✓ |  |
| Northern Shoveler           | <i>Spatula clypeata</i>         |                 |    |    |    |    |    | ✓  |    |    | ✓  | ✓  | ✓ |  |
| Gadwall                     | <i>Mareca strepera</i>          |                 |    |    |    |    |    | ✓  |    |    | ✓  | ✓  | ✓ |  |
| American Wigeon             | <i>Mareca americana</i>         |                 |    |    |    |    |    | ✓  |    |    | ✓  | ✓  | ✓ |  |
| Mallard                     | <i>Anas platyrhynchos</i>       | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |    | ✓  | ✓  | ✓ |  |
| Northern Pintail            | <i>Anas acuta</i>               | ✓               |    |    |    |    |    |    |    |    | ✓  | ✓  | ✓ |  |
| Green-winged Teal           | <i>Anas carolinensis</i>        |                 |    |    |    |    |    |    |    |    | ✓  |    |   |  |
| Canvasback                  | <i>Aythya valisineria</i>       |                 |    |    |    |    |    | ✓  |    |    | ✓  | ✓  | ✓ |  |
| Redhead                     | <i>Aythya americana</i>         |                 |    |    |    |    |    | ✓  |    |    | ✓  | ✓  | ✓ |  |
| Ring-necked Duck            | <i>Aythya collaris</i>          |                 |    |    |    |    |    |    |    |    | ✓  | ✓  |   |  |
| Lesser Scaup                | <i>Aythya affinis</i>           |                 |    |    |    |    |    |    |    |    | ✓  | ✓  | ✓ |  |
| Bufflehead                  | <i>Bucephala albeola</i>        |                 |    |    |    |    |    |    |    |    |    | ✓  |   |  |
| Ruddy Duck                  | <i>Oxyura jamaicensis</i>       |                 |    |    |    |    |    |    |    |    | ✓  | ✓  |   |  |
| Wild Turkey                 | <i>Meleagris gallopavo</i>      |                 |    | ✓  | ✓  |    | ✓  |    | ✓  | ✓  |    | ✓  |   |  |
| Sharp-tailed Grouse         | <i>Tympanuchus phasianellus</i> |                 |    |    |    |    |    |    |    | ✓  |    | ✓  |   |  |
| Common Pheasant             | <i>Phasianus colchicus</i>      |                 |    |    |    |    |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Common Nighthawk            | <i>Chordeiles minor</i>         |                 |    | ✓  |    |    |    | ✓  |    | ✓  |    |    |   |  |
| Chimney Swift               | <i>Chaetura pelagica</i>        |                 |    | ✓  | ✓  |    |    |    |    |    |    |    |   |  |
| White-throated Swift        | <i>Aeronautes saxatalis</i>     | ✓               | ✓  |    | ✓  | ✓  | ✓  | ✓  |    |    |    |    |   |  |
| Broad-tailed Hummingbird    | <i>Selasphorus platycercus</i>  |                 |    |    |    | ✓  |    |    |    |    |    |    |   |  |
| Feral Rock Dove - I         | <i>Columba livia</i>            | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Eurasian Collared Dove - I  | <i>Streptopelia decaocto</i>    | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Mourning Dove               | <i>Zenaida macroura</i>         | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Sora                        | <i>Porzana carolina</i>         |                 |    |    |    |    |    |    |    |    | ✓  | ✓  | ✓ |  |
| American Coot               | <i>Fulica americana</i>         |                 |    |    | ✓  |    | ✓  |    |    |    |    | ✓  | ✓ |  |
| Pied-billed Grebe           | <i>Podilymbus podiceps</i>      |                 |    |    |    |    |    |    |    |    |    | ✓  |   |  |

| N=Near-endemic I=Introduced |                                   | May - June 2023 |    |    |    |    |    |    |    |    |    |    |   |  |
|-----------------------------|-----------------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|---|--|
| Common name                 | Scientific name                   | 21              | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 1 |  |
| Red-necked Grebe            | <i>Podiceps grisegena</i>         |                 |    |    |    |    |    |    |    |    |    | ✓  |   |  |
| Black-necked Grebe          | <i>Podiceps nigricollis</i>       |                 |    |    |    |    |    |    |    |    | ✓  | ✓  |   |  |
| Western Grebe               | <i>Aechmophorus occidentalis</i>  |                 |    |    |    |    |    |    |    |    | ✓  | ✓  | ✓ |  |
| Killdeer                    | <i>Charadrius vociferus</i>       | ✓               | ✓  |    |    |    |    | ✓  | ✓  |    | ✓  | ✓  | ✓ |  |
| Upland Sandpiper            | <i>Bartramia longicauda</i>       | ✓               | ✓  | ✓  | ✓  |    |    | ✓  |    | ✓  | ✓  |    | ✓ |  |
| Marbled Godwit              | <i>Limosa fedoa</i>               |                 |    |    |    |    |    | ✓  |    |    |    |    |   |  |
| White-rumped Sandpiper      | <i>Calidris fuscicollis</i>       |                 |    |    |    |    |    | ✓  |    |    |    |    |   |  |
| Semipalmated Sandpiper      | <i>Calidris pusilla</i>           |                 |    |    |    |    |    |    |    |    |    | ✓  |   |  |
| Wilson's Snipe              | <i>Gallinago delicata</i>         |                 |    |    |    |    |    | ✓  |    |    |    | ✓  | ✓ |  |
| Wilson's Phalarope          | <i>Phalaropus tricolor</i>        |                 |    |    |    |    |    | ✓  |    |    |    |    | ✓ |  |
| Spotted Sandpiper           | <i>Actitis macularius</i>         |                 |    |    |    | ✓  |    |    | ✓  |    | ✓  |    |   |  |
| Willet                      | <i>Tringa semipalmata</i>         |                 |    |    |    |    |    |    |    |    |    | ✓  |   |  |
| Franklin's Gull             | <i>Leucophaeus pipixcan</i>       |                 |    |    |    |    |    |    |    |    |    |    | ✓ |  |
| Ring-billed Gull            | <i>Larus delawarensis</i>         |                 |    |    |    |    |    | ✓  |    |    | ✓  | ✓  | ✓ |  |
| California Gull             | <i>Larus californicus</i>         |                 |    |    |    |    |    |    |    |    | ✓  | ✓  | ✓ |  |
| Forster's Tern              | <i>Sterna forsteri</i>            |                 |    |    |    |    |    |    |    |    | ✓  |    | ✓ |  |
| Black Tern                  | <i>Chlidonias niger</i>           |                 |    |    |    |    |    |    |    |    | ✓  | ✓  | ✓ |  |
| Double-crested Cormorant    | <i>Nannopterum auritum</i>        |                 |    | ✓  |    |    |    |    |    |    | ✓  | ✓  | ✓ |  |
| American Bittern            | <i>Botaurus lentiginosus</i>      |                 |    |    |    |    |    |    |    |    |    | ✓  |   |  |
| Great Blue Heron            | <i>Ardea herodias</i>             |                 |    |    |    | ✓  | ✓  | ✓  |    |    | ✓  | ✓  |   |  |
| American White Pelican      | <i>Pelecanus erythrorhynchos</i>  | ✓               | ✓  |    |    |    |    | ✓  |    |    | ✓  | ✓  | ✓ |  |
| Turkey Vulture              | <i>Cathartes aura</i>             | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Osprey                      | <i>Pandion haliaetus</i>          |                 | ✓  |    | ✓  | ✓  | ✓  |    |    |    |    |    |   |  |
| Golden Eagle                | <i>Aquila chrysaetos</i>          |                 |    |    |    |    |    | ✓  | ✓  | ✓  |    |    |   |  |
| Cooper's Hawk               | <i>Accipiter cooperii</i>         |                 |    |    |    | ✓  |    | ✓  |    |    |    | ✓  | ✓ |  |
| Northern Goshawk            | <i>Accipiter gentilis</i>         |                 |    | ✓  |    |    |    |    |    |    |    |    |   |  |
| Bald Eagle                  | <i>Haliaeetus leucocephalus</i>   | ✓               |    |    |    |    |    | ✓  |    | ✓  |    |    | ✓ |  |
| Swainson's Hawk             | <i>Buteo swainsoni</i>            |                 |    |    |    |    |    | ✓  |    |    | ✓  | ✓  | ✓ |  |
| Red-tailed Hawk             | <i>Buteo jamaicensis</i>          |                 | ✓  |    | ✓  | ✓  |    | ✓  | ✓  | ✓  |    | ✓  | ✓ |  |
| Ferruginous Hawk            | <i>Buteo regalis</i>              |                 | ✓  |    |    |    |    | ✓  |    | ✓  | ✓  | ✓  | ✓ |  |
| Lewis's Woodpecker          | <i>Melanerpes lewis</i>           |                 |    |    | ✓  |    |    |    |    |    |    |    |   |  |
| Red-headed Woodpecker       | <i>Melanerpes erythrocephalus</i> | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |    |    |   |  |

| N=Near-endemic I=Introduced |                                | May - June 2023 |    |    |    |    |    |    |    |    |    |    |   |  |
|-----------------------------|--------------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|---|--|
| Common name                 | Scientific name                | 21              | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 1 |  |
| Red-naped Sapsucker         | <i>Sphyrapicus nuchalis</i>    |                 | ✓  |    |    | ✓  |    |    |    |    |    |    |   |  |
| Downy Woodpecker            | <i>Dryobates pubescens</i>     |                 |    |    |    |    |    |    | ✓  |    |    |    |   |  |
| Hairy Woodpecker            | <i>Leuconotopicus villosus</i> |                 |    |    |    | ✓  |    |    |    |    |    |    | ✓ |  |
| Northern Flicker            | <i>Colaptes auratus</i>        |                 |    | ✓  | ✓  | ✓  | ✓  |    | ✓  | ✓  |    | ✓  | ✓ |  |
| American Kestrel            | <i>Falco sparverius</i>        |                 | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Prairie Falcon              | <i>Falco mexicanus</i>         |                 | ✓  |    |    |    |    | ✓  |    |    |    |    |   |  |
| Merlin                      | <i>Falco columbarius</i>       |                 |    |    |    |    |    |    | ✓  |    |    |    |   |  |
| Eastern Phoebe              | <i>Sayornis phoebe</i>         |                 |    |    |    | ✓  |    |    |    |    |    |    | ✓ |  |
| Say's Phoebe                | <i>Sayornis saya</i>           | ✓               |    |    |    |    |    | ✓  | ✓  |    |    | ✓  |   |  |
| Western Wood Pewee          | <i>Contopus sordidulus</i>     |                 |    | ✓  |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |    |   |  |
| Eastern Wood-Pewee          | <i>Contopus virens</i>         |                 |    |    |    |    |    |    |    |    |    |    | ✓ |  |
| Willow Flycatcher           | <i>Empidonax traillii</i>      |                 |    |    |    |    |    |    |    |    |    |    | ✓ |  |
| Least Flycatcher            | <i>Empidonax minimus</i>       |                 | ✓  |    |    |    |    | ✓  | ✓  | ✓  |    | ✓  | ✓ |  |
| American Dusky Flycatcher   | <i>Empidonax oberholseri</i>   |                 |    |    | ✓  | ✓  |    |    |    |    |    |    |   |  |
| Cordilleran Flycatcher      | <i>Empidonax occidentalis</i>  |                 |    |    | ✓  | ✓  | ✓  |    |    |    |    |    |   |  |
| Western Kingbird            | <i>Tyrannus verticalis</i>     | ✓               | ✓  |    |    |    |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Eastern Kingbird            | <i>Tyrannus tyrannus</i>       |                 |    | ✓  |    |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Loggerhead Shrike           | <i>Lanius ludovicianus</i>     |                 |    |    |    |    |    | ✓  |    | ✓  |    |    |   |  |
| Red-eyed Vireo              | <i>Vireo olivaceus</i>         |                 |    |    |    |    | ✓  |    | ✓  | ✓  | ✓  |    | ✓ |  |
| Warbling Vireo              | <i>Vireo gilvus</i>            |                 |    |    | ✓  | ✓  | ✓  | ✓  |    | ✓  | ✓  | ✓  | ✓ |  |
| Plumbeous Vireo             | <i>Vireo plumbeus</i>          |                 |    | ✓  | ✓  |    | ✓  |    |    |    |    |    |   |  |
| Yellow-throated Vireo       | <i>Vireo flavifrons</i>        |                 |    |    |    |    |    |    |    |    |    |    | ✓ |  |
| Canada Jay                  | <i>Perisoreus canadensis</i>   |                 |    |    |    | ✓  |    |    |    |    |    |    |   |  |
| Blue Jay                    | <i>Cyanocitta cristata</i>     |                 |    | ✓  |    | ✓  | ✓  |    |    |    |    |    | ✓ |  |
| Black-billed Magpie         | <i>Pica hudsonia</i>           | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |    | ✓  | ✓ |  |
| American Crow               | <i>Corvus brachyrhynchos</i>   | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Northern Raven              | <i>Corvus corax</i>            |                 | ✓  |    |    |    |    |    |    |    |    | ✓  | ✓ |  |
| Cedar Waxwing               | <i>Bombycilla cedrorum</i>     |                 |    |    |    |    |    |    | ✓  | ✓  | ✓  |    | ✓ |  |
| Black-capped Chickadee      | <i>Poecile atricapillus</i>    |                 |    | ✓  | ✓  | ✓  | ✓  |    |    |    |    |    |   |  |
| Horned Lark                 | <i>Eremophila alpestris</i>    | ✓               |    |    |    |    |    | ✓  |    | ✓  |    | ✓  |   |  |
| Tree Swallow                | <i>Tachycineta bicolor</i>     |                 |    | ✓  |    |    |    |    |    |    |    |    |   |  |
| Violet-green Swallow        | <i>Tachycineta thalassina</i>  | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  |    |    |    |    |    |   |  |

| N=Near-endemic I=Introduced   |                                   | May - June 2023 |    |    |    |    |    |    |    |    |    |    |   |  |
|-------------------------------|-----------------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|---|--|
| Common name                   | Scientific name                   | 21              | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 1 |  |
| Northern Rough-winged Swallow | <i>Stelgidopteryx serripennis</i> |                 |    | ✓  |    |    |    | ✓  | ✓  | ✓  |    | ✓  | ✓ |  |
| Barn Swallow                  | <i>Hirundo rustica</i>            | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| American Cliff Swallow        | <i>Petrochelidon pyrrhonota</i>   | ✓               | ✓  | ✓  |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Bank Swallow                  | <i>Riparia riparia</i>            |                 |    |    |    |    |    |    |    | ✓  | ✓  |    | ✓ |  |
| Ruby-crowned Kinglet          | <i>Corthylio calendula</i>        |                 |    |    |    | ✓  | ✓  |    |    |    |    |    |   |  |
| Golden-crowned Kinglet        | <i>Regulus satrapa</i>            |                 |    |    |    | ✓  |    |    |    |    |    |    |   |  |
| Rock Wren                     | <i>Salpinctes obsoletus</i>       | ✓               |    |    | ✓  |    |    |    | ✓  |    |    |    |   |  |
| Marsh Wren                    | <i>Cistothorus palustris</i>      |                 |    |    |    |    |    |    |    |    | ✓  | ✓  | ✓ |  |
| House Wren                    | <i>Troglodytes aedon</i>          |                 |    |    | ✓  |    | ✓  |    | ✓  | ✓  |    | ✓  | ✓ |  |
| Blue-grey Gnatcatcher         | <i>Polioptila caerulea</i>        | ✓               |    |    | ✓  |    |    |    |    |    |    |    |   |  |
| White-breasted Nuthatch       | <i>Sitta carolinensis</i>         |                 |    |    |    |    |    |    |    |    |    |    | ✓ |  |
| Red-breasted Nuthatch         | <i>Sitta canadensis</i>           |                 |    | ✓  |    | ✓  | ✓  |    |    |    |    |    |   |  |
| Grey Catbird                  | <i>Dumetella carolinensis</i>     |                 |    | ✓  |    | ✓  | ✓  |    |    | ✓  |    | ✓  | ✓ |  |
| Brown Thrasher                | <i>Toxostoma rufum</i>            |                 |    |    |    |    |    |    | ✓  | ✓  |    | ✓  |   |  |
| Common Starling - I           | <i>Sturnus vulgaris</i>           | ✓               | ✓  | ✓  | ✓  |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Mountain Bluebird             | <i>Sialia currucoides</i>         | ✓               | ✓  | ✓  |    |    |    |    | ✓  | ✓  |    |    |   |  |
| Swainson's Thrush             | <i>Catharus ustulatus</i>         |                 |    | ✓  | ✓  |    | ✓  |    |    | ✓  |    |    |   |  |
| American Robin                | <i>Turdus migratorius</i>         | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| American Dipper               | <i>Cinclus mexicanus</i>          |                 |    |    |    | ✓  | ✓  | ✓  |    |    |    |    |   |  |
| House Sparrow - I             | <i>Passer domesticus</i>          | ✓               | ✓  |    |    | ✓  |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Sprague's Pipit               | <i>Anthus spragueii</i>           |                 |    |    |    |    |    |    |    |    |    | ✓  |   |  |
| House Finch                   | <i>Haemorhous mexicanus</i>       | ✓               |    |    |    |    |    |    | ✓  |    |    |    |   |  |
| American Goldfinch            | <i>Spinus tristis</i>             |                 |    | ✓  | ✓  |    |    | ✓  | ✓  | ✓  |    | ✓  | ✓ |  |
| Pine Siskin                   | <i>Spinus pinus</i>               |                 | ✓  |    |    |    |    |    |    |    |    |    |   |  |
| Chestnut-collared Longspur    | <i>Calcarius ornatus</i>          |                 |    |    |    |    |    | ✓  |    |    |    |    |   |  |
| Grasshopper Sparrow           | <i>Ammodramus savannarum</i>      | ✓               |    |    |    |    |    | ✓  | ✓  | ✓  |    | ✓  | ✓ |  |
| Lark Sparrow                  | <i>Chondestes grammacus</i>       | ✓               | ✓  | ✓  | ✓  |    | ✓  | ✓  | ✓  | ✓  |    |    | ✓ |  |
| Lark Bunting                  | <i>Calamospiza melanocorys</i>    |                 |    |    |    |    |    | ✓  |    |    |    |    |   |  |
| Chipping Sparrow              | <i>Spizella passerina</i>         |                 | ✓  | ✓  | ✓  | ✓  | ✓  |    | ✓  | ✓  | ✓  |    |   |  |
| Clay-coloured Sparrow         | <i>Spizella pallida</i>           |                 |    |    |    |    |    |    | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Field Sparrow                 | <i>Spizella pusilla</i>           |                 |    |    |    |    |    | ✓  | ✓  | ✓  |    | ✓  |   |  |
| Dark-eyed Junco               | <i>Junco hyemalis</i>             |                 | ✓  |    | ✓  | ✓  |    |    |    |    |    |    |   |  |



| N=Near-endemic I=Introduced |                                      | May - June 2023 |    |    |    |    |    |    |    |    |    |    |   |  |
|-----------------------------|--------------------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|---|--|
| Common name                 | Scientific name                      | 21              | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 1 |  |
| Vesper Sparrow              | <i>Poocetes gramineus</i>            |                 |    |    |    |    |    |    | ✓  | ✓  |    | ✓  | ✓ |  |
| LeConte's Sparrow           | <i>Ammospiza leconteii</i>           |                 |    |    |    |    |    |    |    |    | ✓  |    |   |  |
| Baird's Sparrow             | <i>Centronyx bairdii</i>             |                 |    |    |    |    |    |    |    |    |    | ✓  |   |  |
| Savannah Sparrow            | <i>Passerculus sandwichensis</i>     |                 |    |    |    |    |    |    |    |    |    | ✓  |   |  |
| Song Sparrow                | <i>Melospiza melodia</i>             |                 |    |    | ✓  | ✓  | ✓  | ✓  | ✓  |    | ✓  | ✓  | ✓ |  |
| Spotted Towhee              | <i>Pipilo maculatus</i>              | ✓               |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |    |    |   |  |
| Yellow-breasted Chat        | <i>Icteria virens</i>                |                 |    | ✓  |    |    | ✓  | ✓  | ✓  | ✓  | ✓  |    |   |  |
| Yellow-headed Blackbird     | <i>Xanthocephalus xanthocephalus</i> |                 |    |    |    |    |    |    |    |    | ✓  | ✓  | ✓ |  |
| Bobolink                    | <i>Dolichonyx oryzivorus</i>         |                 |    |    |    |    |    | ✓  |    |    | ✓  | ✓  | ✓ |  |
| Western Meadowlark          | <i>Sturnella neglecta</i>            | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Bullock's Oriole            | <i>Icterus bullockii</i>             |                 |    | ✓  |    |    | ✓  |    |    |    |    |    |   |  |
| Baltimore Oriole            | <i>Icterus galbula</i>               |                 |    |    |    |    |    |    |    |    |    | ✓  | ✓ |  |
| Orchard Oriole              | <i>Icterus spurius</i>               |                 | ✓  | ✓  |    |    |    | ✓  | ✓  | ✓  | ✓  |    |   |  |
| Red-winged Blackbird        | <i>Agelaius phoeniceus</i>           | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Brown-headed Cowbird        | <i>Molothrus ater</i>                | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Brewer's Blackbird          | <i>Euphagus cyanocephalus</i>        | ✓               |    | ✓  |    |    |    |    |    |    | ✓  |    |   |  |
| Common Grackle              | <i>Quiscalus quiscula</i>            | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Ovenbird                    | <i>Seiurus aurocapilla</i>           |                 |    |    | ✓  | ✓  |    |    | ✓  | ✓  |    |    |   |  |
| Black-and-white Warbler     | <i>Mniotilta varia</i>               |                 |    |    |    |    |    |    | ✓  | ✓  |    |    | ✓ |  |
| MacGillivray's Warbler      | <i>Geothlypis tolmiei</i>            |                 |    |    |    |    | ✓  |    |    |    |    |    |   |  |
| Common Yellowthroat         | <i>Geothlypis trichas</i>            |                 |    |    |    | ✓  | ✓  |    | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| American Redstart           | <i>Setophaga ruticilla</i>           |                 |    | ✓  |    | ✓  | ✓  |    |    | ✓  |    |    |   |  |
| American Yellow Warbler     | <i>Setophaga aestiva</i>             |                 |    |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |  |
| Myrtle Warbler              | <i>Setophaga coronata</i>            |                 | ✓  |    |    | ✓  |    |    |    | ✓  |    |    |   |  |
| Western Tanager             | <i>Piranga ludoviciana</i>           |                 |    | ✓  | ✓  | ✓  |    |    |    |    |    |    |   |  |
| Rose-breasted Grosbeak      | <i>Pheucticus ludovicianus</i>       |                 |    |    |    |    | ✓  |    |    |    |    |    |   |  |
| Black-headed Grosbeak       | <i>Pheucticus melanocephalus</i>     |                 |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |    |    |   |  |
| Lazuli Bunting              | <i>Passerina amoena</i>              |                 |    |    |    |    |    | ✓  | ✓  | ✓  |    |    |   |  |
| Blue Grosbeak               | <i>Passerina caerulea</i>            |                 | ✓  |    |    |    |    |    |    |    |    |    |   |  |

## Mammals

| Common name                      | Scientific name                   | May – June 2023 |    |    |    |    |    |    |    |    |    |    |   |
|----------------------------------|-----------------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|---|
|                                  |                                   | 21              | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 1 |
| Desert Cottontail - N            | <i>Sylvilagus audubonii</i>       | ✓               | ✓  |    |    |    |    |    |    |    |    |    |   |
| Eastern Cottontail               | <i>Sylvilagus floridanus</i>      | ✓               |    |    |    |    |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |
| Mountain Cottontail              | <i>Sylvilagus nuttallii</i>       |                 | ✓  |    |    | ✓  |    |    |    |    |    |    |   |
| White-tailed Jackrabbit          | <i>Lepus townsendii</i>           |                 |    |    |    |    |    |    |    |    | ✓  |    |   |
| North American Porcupine         | <i>Erethizon dorsatum</i>         |                 |    |    |    |    |    | ✓  |    |    |    |    |   |
| Arizona Black-tailed Prairie Dog | <i>Cynomys ludovicianus</i>       | ✓               | ✓  | ✓  | ✓  |    | ✓  |    | ✓  |    |    |    |   |
| Thirteen-lined Ground Squirrel   | <i>Ictidomys tridecemlineatus</i> |                 |    |    |    |    |    |    |    |    | ✓  | ✓  | ✓ |
| Yellow-bellied Marmot            | <i>Marmota flaviventris</i>       |                 |    |    | ✓  | ✓  | ✓  |    |    |    |    |    |   |
| Least Chipmunk                   | <i>Neotamias minimus</i>          |                 | ✓  | ✓  | ✓  | ✓  | ✓  |    |    |    |    |    |   |
| Fox Squirrel                     | <i>Sciurus niger</i>              |                 |    |    |    |    |    |    |    |    | ✓  |    |   |
| American Red Squirrel            | <i>Tamiasciurus hudsonicus</i>    |                 |    |    |    | ✓  | ✓  |    |    |    |    |    |   |
| Richardson's Ground Squirrel     | <i>Urocitellus richardsonii</i>   |                 |    |    |    |    |    |    |    |    | ✓  | ✓  | ✓ |
| Muskrat                          | <i>Ondatra zibethicus</i>         |                 |    |    |    |    |    |    |    | ✓  |    | ✓  | ✓ |
| Coyote                           | <i>Canis latrans</i>              | ✓               | ✓  |    | ✓  |    |    |    |    |    | ✓  |    |   |
| American Mink                    | <i>Mustela vison</i>              |                 |    |    |    |    |    |    | ✓  |    |    |    |   |
| Domestic Donkey - I              | <i>Equus asinus</i>               |                 |    | ✓  |    |    |    |    |    |    |    |    |   |
| Domestic Horse - I               | <i>Equus caballus</i>             |                 |    |    |    |    |    |    | ✓  | ✓  |    |    |   |
| Pronghorn                        | <i>Antilocapra americana</i>      | ✓               | ✓  | ✓  | ✓  |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |   |
| Mule Deer                        | <i>Odocoileus hemionus</i>        | ✓               |    |    | ✓  |    |    |    |    | ✓  |    | ✓  |   |
| White-tailed Deer                | <i>Odocoileus virginianus</i>     | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |    | ✓  |    | ✓  | ✓ |
| American Bison - N               | <i>Bison bison</i>                | ✓               |    | ✓  |    |    |    | ✓  | ✓  |    |    |    |   |
| Bighorn Sheep                    | <i>Ovis canadensis</i>            | ✓               |    |    | ✓  |    |    |    |    |    |    |    |   |
| Prairie Vole                     | <i>Microtus ochrogaster</i>       |                 |    |    |    |    |    |    |    |    | ✓  |    |   |

## Herps

| Common name                  | Scientific name                         | May – June 2023 |    |    |    |    |    |    |    |    |    |    |   |
|------------------------------|---|-----------------|----|----|----|----|----|----|----|----|----|----|---|
|                              |   | 21              | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 1 |
| Painted Turtle               | <i>Chrysemys picta</i>                  |                 |    | ✓  | ✓  |    |    | ✓  |    | ✓  |    |    | ✓ |
| Northern Leopard Frog        | <i>Lithobates pipiens</i>               |                 |    | ✓  |    | ✓  |    |    |    |    |    |    | ✓ |
| Boreal Chorus Frog           | <i>Pseudacris maculata</i>              |                 |    |    |    | ✓  |    |    |    |    |    |    |   |
| Plains Leopard Frog          | <i>Lithobates blairi</i>                |                 |    |    |    |    |    | ✓  |    |    |    |    |   |
| Smooth Green Snake           | <i>Opheodrys vernalis</i>               |                 |    |    |    |    |    |    |    | ✓  |    | ✓  |   |
| Common Snapping Turtle       | <i>Chelydra serpentina</i>              |                 |    |    |    |    |    |    |    | ✓  |    |    |   |
| Eastern Yellow-bellied Racer | <i>Coluber constrictor flaviventris</i> |                 |    |    |    |    |    |    |    |    | ✓  |    |   |

## Butterflies

| Common name               | Scientific name              | May – June 2023 |    |    |    |    |    |    |    |    |    |    |   |
|---------------------------|------------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|---|
|                           |                              | 21              | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 1 |
| Red Admiral               | <i>Vanessa atalanta</i>      | ✓               | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |
| Mourning Cloak            | <i>Nymphalis antiopa</i>     |                 | ✓  |    |    | ✓  |    |    |    |    |    |    |   |
| Arrowhead Blue            | <i>Glaucopsyche piasus</i>   |                 | ✓  |    | ✓  | ✓  |    |    |    |    |    |    |   |
| Gray Comma                | <i>Polygonia progne</i>      |                 | ✓  |    | ✓  | ✓  |    |    |    |    |    |    |   |
| Checkered White           | <i>Pontia protodice</i>      |                 | ✓  | ✓  |    |    |    |    |    |    | ✓  |    | ✓ |
| Brown Elfin               | <i>Callophrys augustinus</i> |                 | ✓  |    |    | ✓  |    |    |    |    |    |    |   |
| Pearl Crescent            | <i>Phyciodes tharos</i>      |                 | ✓  | ✓  | ✓  |    |    |    |    | ✓  | ✓  |    |   |
| Variable Checkerspot      | <i>Euphydryas chalcedona</i> |                 | ✓  |    |    |    | ✓  |    |    |    |    |    |   |
| Clouded/Orange Sulphur    | <i>Colias sp</i>             |                 |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |
| Painted Lady              | <i>Vanessa cardui</i>        |                 |    | ✓  |    |    |    |    | ✓  |    |    |    | ✓ |
| Common Ringlet            | <i>Coenonympha tullia</i>    |                 |    | ✓  |    |    |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓ |
| Indra Swallowtail         | <i>Papilio indra</i>         |                 |    |    |    | ✓  |    |    |    |    |    |    |   |
| Western Tiger Swallowtail | <i>Papilio rutulus</i>       |                 |    |    | ✓  | ✓  | ✓  | ✓  |    | ✓  |    |    |   |
| Eastern Tiger Swallowtail | <i>Papilio glaucus</i>       |                 |    |    |    |    |    |    |    |    | ✓  |    |   |
| Anise Swallowtail         | <i>Papilio zelicaon</i>      |                 |    |    | ✓  | ✓  | ✓  |    | ✓  |    |    |    |   |
| Olympia Marble            | <i>Euchloe olympia</i>       |                 |    |    | ✓  | ✓  | ✓  | ✓  | ✓  | ✓  |    | ✓  |   |
| Juniper Hairstreak        | <i>Callophrys gryneus</i>    |                 |    |    | ✓  |    | ✓  |    |    |    |    |    |   |

| Common name              | Scientific name              | May – June 2023 |    |    |    |    |    |    |    |    |    |    |   |  |
|--------------------------|------------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|---|--|
|                          |                              | 21              | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 1 |  |
| Western Pine Elfin       | <i>Callophrys eryphon</i>    |                 |    |    | ✓  | ✓  | ✓  |    |    |    |    |    |   |  |
| Western Tailed Blue      | <i>Cupido amyntula</i>       |                 |    |    | ✓  | ✓  | ✓  |    |    |    |    |    |   |  |
| Silver-spotted Skipper   | <i>Epargyreus clarus</i>     |                 |    |    | ✓  |    |    |    |    |    |    |    |   |  |
| Dusted Skipper           | <i>Atrytonopsis hianna</i>   |                 |    |    | ✓  |    |    |    |    |    |    |    |   |  |
| Dreamy Duskywing         | <i>Erynnis icelus</i>        |                 |    |    | ✓  | ✓  | ✓  |    |    |    |    |    |   |  |
| Summer Azure             | <i>Celastrina neglecta</i>   |                 |    |    |    | ✓  | ✓  |    |    | ✓  |    |    |   |  |
| Silvery Blue             | <i>Glaucopsyche lygdamus</i> |                 |    |    |    | ✓  |    |    |    |    |    |    |   |  |
| California Tortoiseshell | <i>Nymphalis californica</i> |                 |    |    |    | ✓  |    |    |    |    |    |    |   |  |
| Gray Hairstreak          | <i>Strymon melinus</i>       |                 |    |    |    | ✓  |    |    |    |    |    |    |   |  |
| Northern Crescent        | <i>Phyciodes cocyta</i>      |                 |    |    |    |    | ✓  | ✓  |    |    |    |    |   |  |
| Common Checkered Skipper | <i>Pyrgus communis</i>       |                 |    |    |    |    | ✓  |    |    |    |    |    |   |  |
| Satyr Comma              | <i>Polygonia satyrus</i>     |                 |    |    |    |    | ✓  |    |    |    |    |    |   |  |
| Melissa Blue             | <i>Lycaeides melissa</i>     |                 |    |    |    |    |    | ✓  | ✓  |    |    |    | ✓ |  |
| Common Sootywing         | <i>Pholisora catullus</i>    |                 |    |    |    |    |    | ✓  |    |    |    |    |   |  |
| Uhler's Arctic           | <i>Oeneis uhleri varuna</i>  |                 |    |    |    |    |    | ✓  |    |    |    |    |   |  |
| Sagebrush Checkerspot    | <i>Chlosyne acastus</i>      |                 |    |    |    |    |    |    | ✓  | ✓  |    |    |   |  |
| Tawny Crescent           | <i>Phyciodes batesii</i>     |                 |    |    |    |    |    |    |    | ✓  |    |    |   |  |
| Silvery Checkerspot      | <i>Chlosyne nycteis</i>      |                 |    |    |    |    |    |    |    |    | ✓  |    |   |  |
| Black Swallowtail        | <i>Papilio polyxenes</i>     |                 |    |    |    |    |    |    |    |    |    | ✓  |   |  |
| Monarch                  | <i>Danaus plexippus</i>      |                 |    |    |    |    |    |    |    |    |    | ✓  |   |  |
| Gorgone Checkerspot      | <i>Chlosyne gorgone</i>      |                 |    |    |    |    |    |    |    |    |    |    | ✓ |  |

## Other invertebrates

| Common name         | Scientific name         | May – June 2023 |    |    |    |    |    |    |    |    |    |    |   |  |
|---------------------|-------------------------|-----------------|----|----|----|----|----|----|----|----|----|----|---|--|
|                     |                         | 21              | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | 31 | 1 |  |
| Snowberry Clearwing | <i>Hemaris diffinis</i> |                 |    |    | ✓  | ✓  |    |    |    | ✓  |    |    |   |  |
| Common Green Darner | <i>Anax junius</i>      |                 |    |    |    |    |    |    |    |    |    |    | ✓ |  |