

NATURE MAPPING JACKSON HOLE

Make your wildlife sightings count!

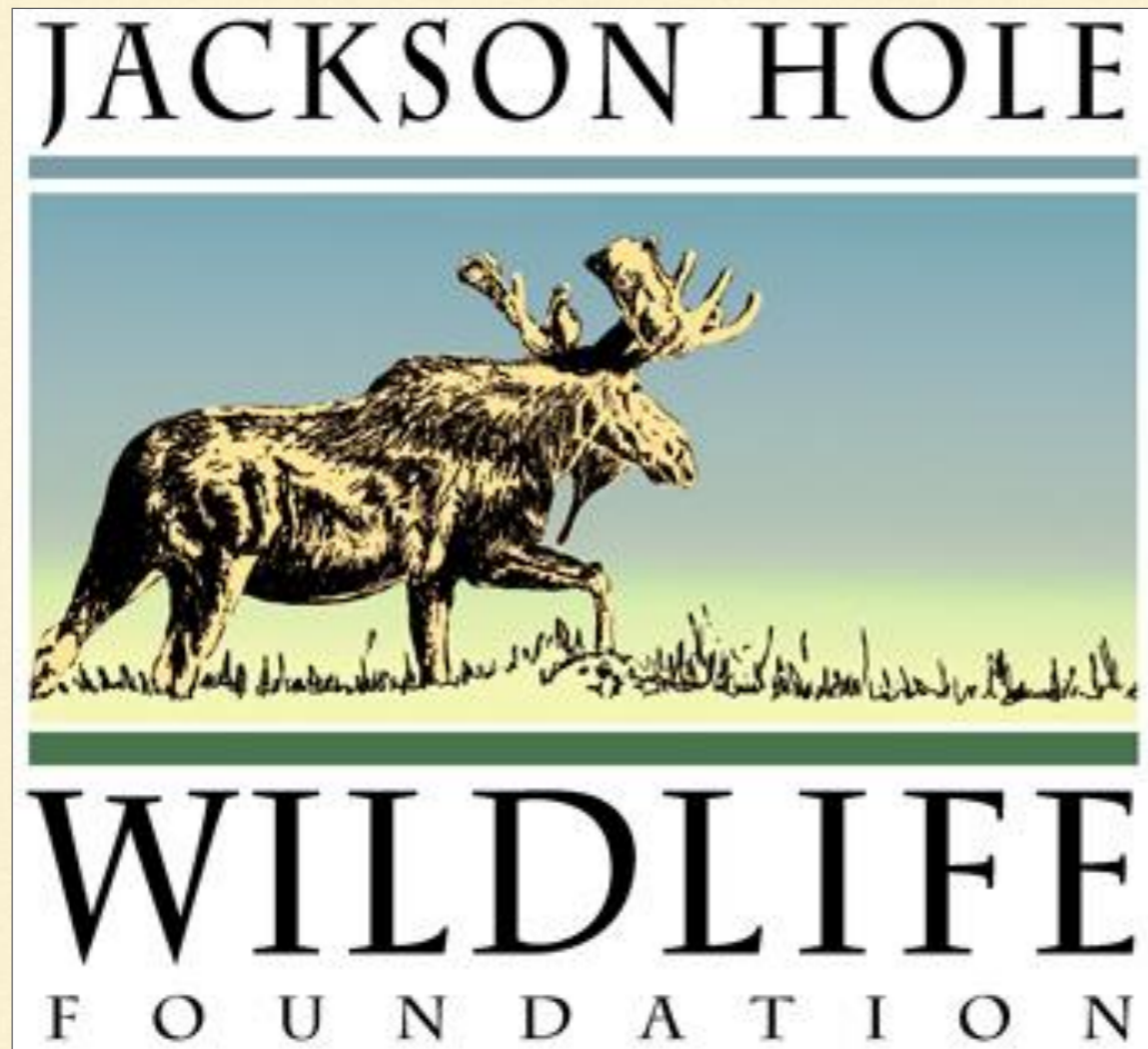


JACKSON HOLE



WILDLIFE
FOUNDATION

THE JACKSON HOLE WILDLIFE FOUNDATION



**advances wildlife
conservation
driven by science,
collaboration, and a
community of
volunteers**



JACKSON HOLE
CELEBRATING
30 Years
WILDLIFE
FOUNDATION



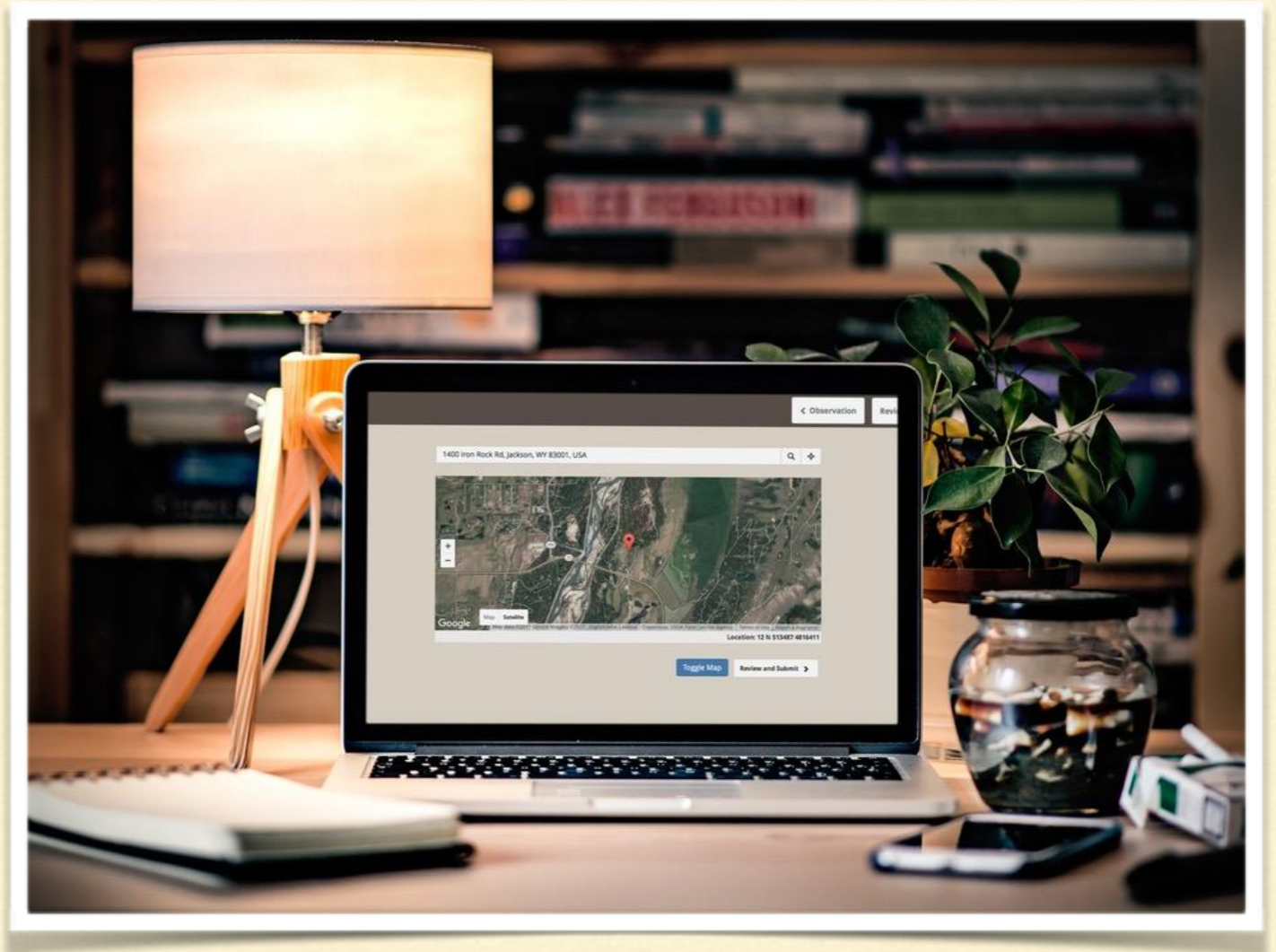
OBJECTIVES FOR TODAY

Understand the importance of accurate observations

Know how to access and navigate the NMJH system including: login, updating your account, entering observations, and editing observations

Understand the importance of following protocols

Learn about current projects and future trainings available to trained Nature Mappers



NMJH GOALS:

Keeping common species common
(studying all species not just high-profile species or species of concern)

Increasing citizen's knowledge of and appreciation for wildlife in Teton and Lincoln Co, WY and Teton Co, ID

Engaging citizens in long-term wildlife data collection

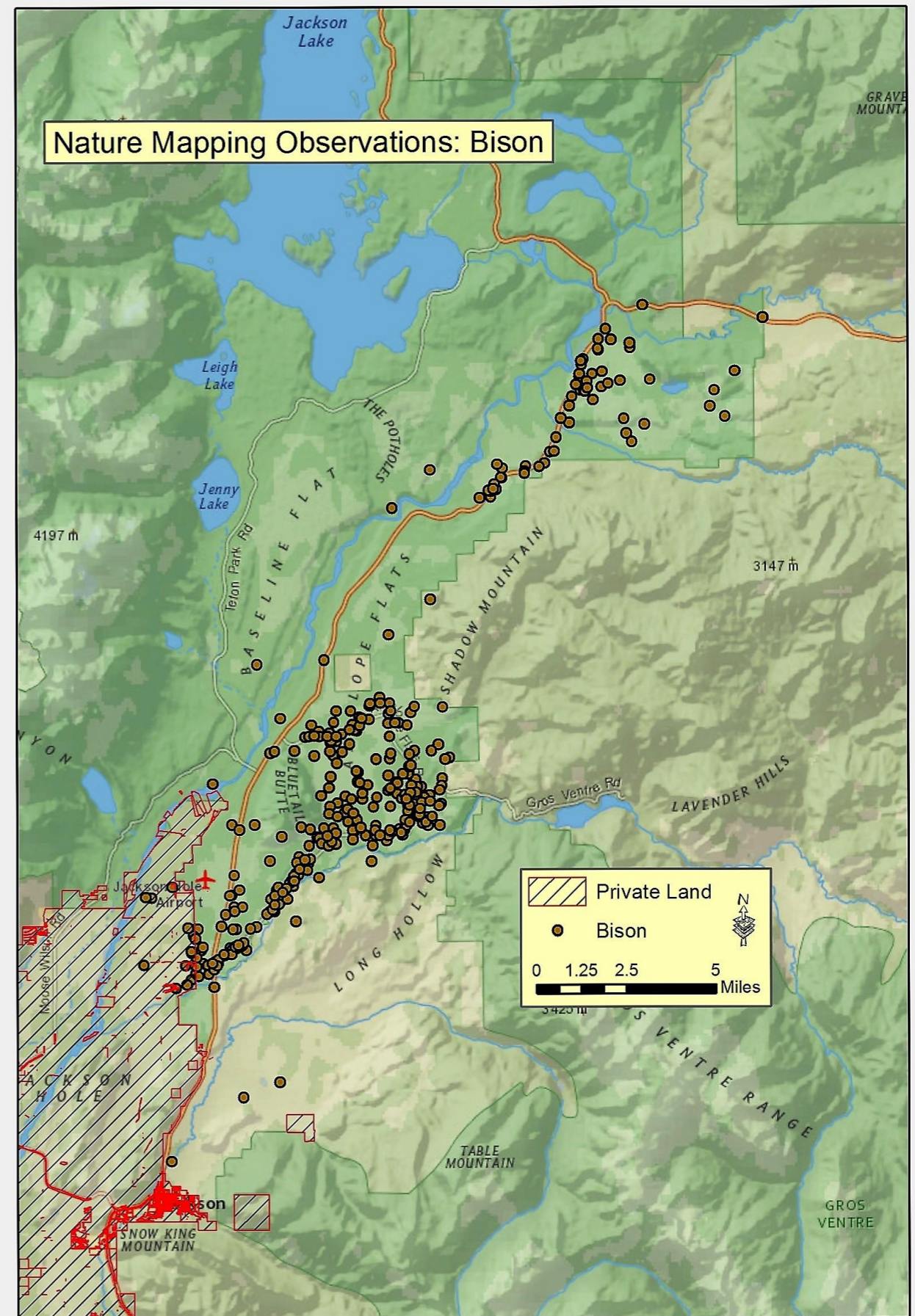
Informing management decisions that favor wildlife sustainability

Contributing data to the Wyoming Game & Fish Department's Wildlife Observation System



DATA USED FOR:

- Wyoming Game & Fish Dept.
- County/Town Comp Plan
- Proposed pathways
- County subdivisions planning
- Wildlife Crossing strategy
- Radar Sign placement
- Focal species research
- Trail construction
- Natural Resources Technical Advisory Board



THE DATA PROCESS:

- Trained Nature Mappers enter their data in the field using the app or online later (preferably within a week of collecting it)
- The data is examined by trained biologists
- If there are questions, the biologist will contact the citizen scientist and ask for clarification or further information
- Any necessary edits are made to the data
- The data is verified



WHEN IN DOUBT, LEAVE IT OUT!

FUNDAMENTALS OF OBSERVATIONS

-
-
- The species seen
- How many individuals
- Where (location)
- When: date and time
- Additional data: sex, age, activity, and observation notes



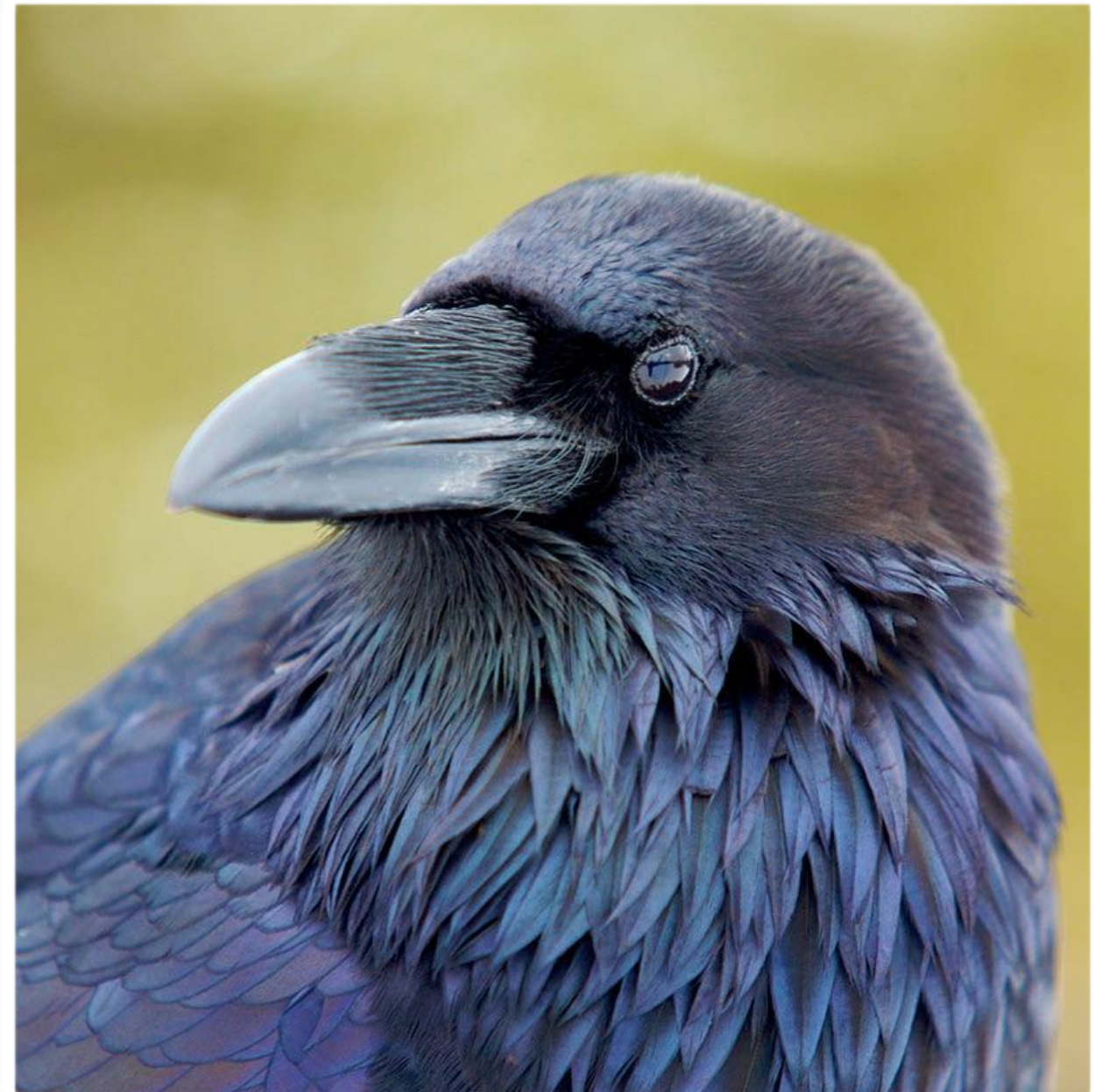
PRIVATE LAND CONSIDERATIONS

- Please do not trespass on private lands, view from the road or friend's property.
- Ask the owner if you can Nature Map a species.
- Always be courteous – you are a Nature Mapper ambassador.
- If in doubt, please stay out.



NMJH PROJECTS

- Casual Observations
- Project Backyard
- Moose Day
- Mountain Bluebird monitoring
- Bird Banding



CASUAL OBSERVATIONS

- Out and about in western Wyoming and eastern Idaho
- Most of the observations
- Includes roadkill – Wildlife-Vehicle Collisions (WVCs)



PROJECT BACKYARD

- From the house or other "set" location
- Has own protocols
- Total observations for the week (e.g. top number of pine siskins, magpies, elk-- entered once.)
- Important for wildlife care on private land



MOOSE DAY

- February 22, 2025
- Work in teams
- Assigned areas
- Nature Mapping data complement WGFD data (private land vs. public land)



MOUNTAIN BLUEBIRD NESTBOX MONITORING PROJECT



Photo by Vicki Morgan

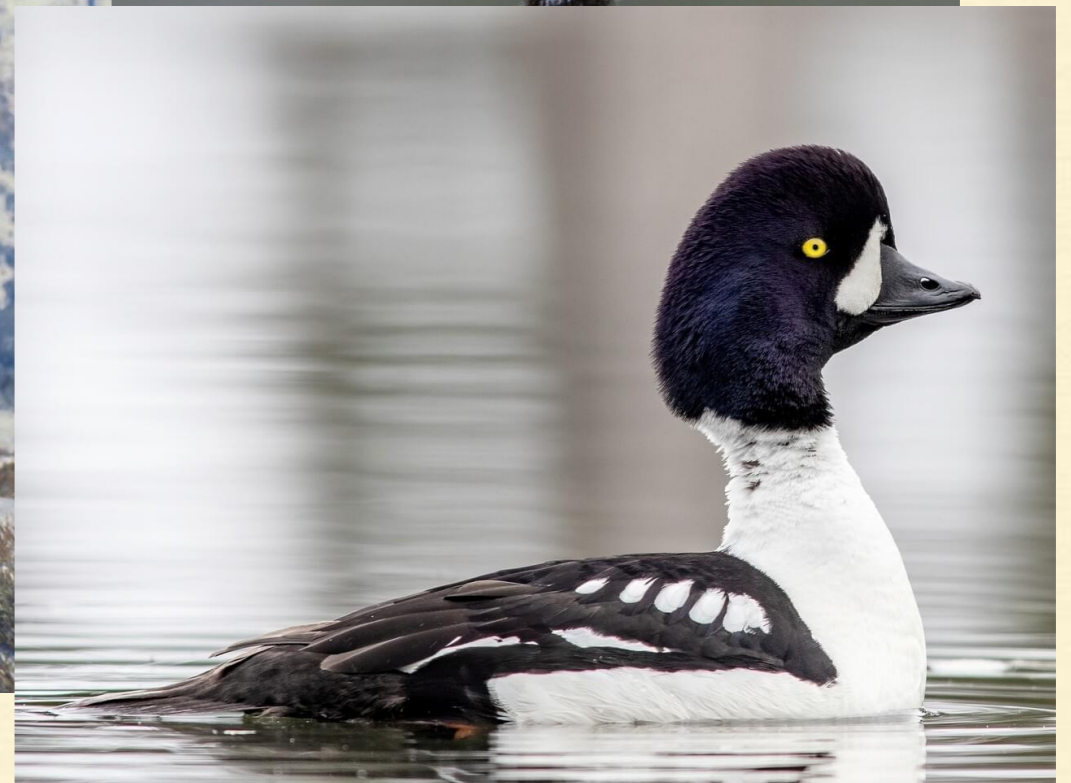


MAPS

(MONITORING AVIAN PRODUCTIVITY AND SURVIVORSHIP)



WINTER - GREAT TIME TO START



SPECIES ID, DETAILS, AND DEFINITIONS



SPECIES ID: AMERICAN BADGER



SPECIES ID: WOLVERINE



photo © Jeff Copeland

SPECIES ID: GRIZZLY AND BLACK BEARS

Know your bears!

Black Bear

- Front track: A circular mark on the track indicates the claw position.
- Front claw: 1-2" long
- No prominent shoulder hump
- Tall ears
- Straight face profile
- Short claws

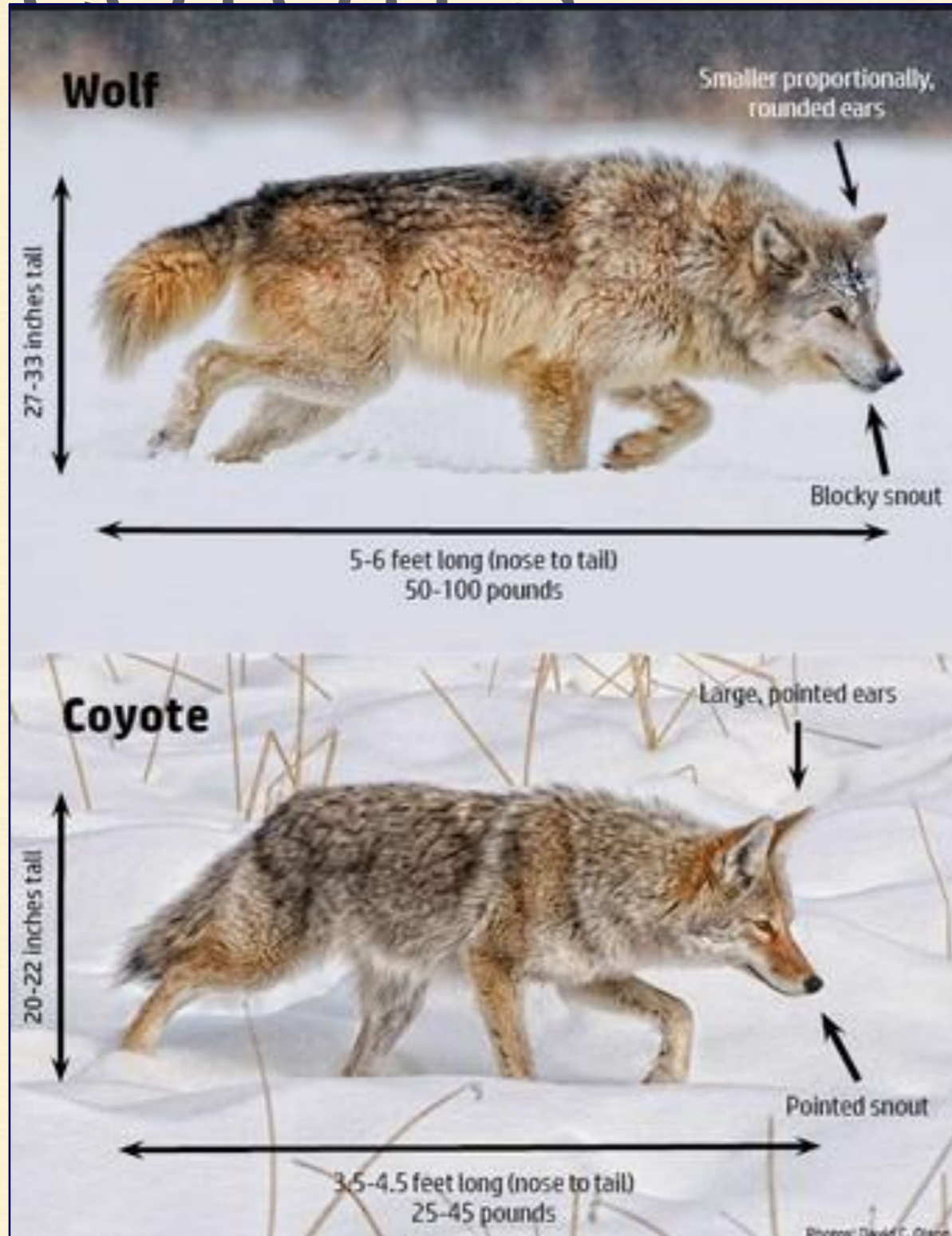
Grizzly Bear

- Front track: A circular mark on the track indicates the claw position.
- Front claw: 2-4" long
- Shoulder hump
- Short rounded ears
- Dished face profile
- Long claws

Color and Size can be misleading.
Look for a combination of characteristics.

©2011 Center for Wildlife Information, Photo by Chuck Burdette

SPECIES ID: WOLVES AND COYOTES



Know your Canids!



SPECIES ID: MULE DEER

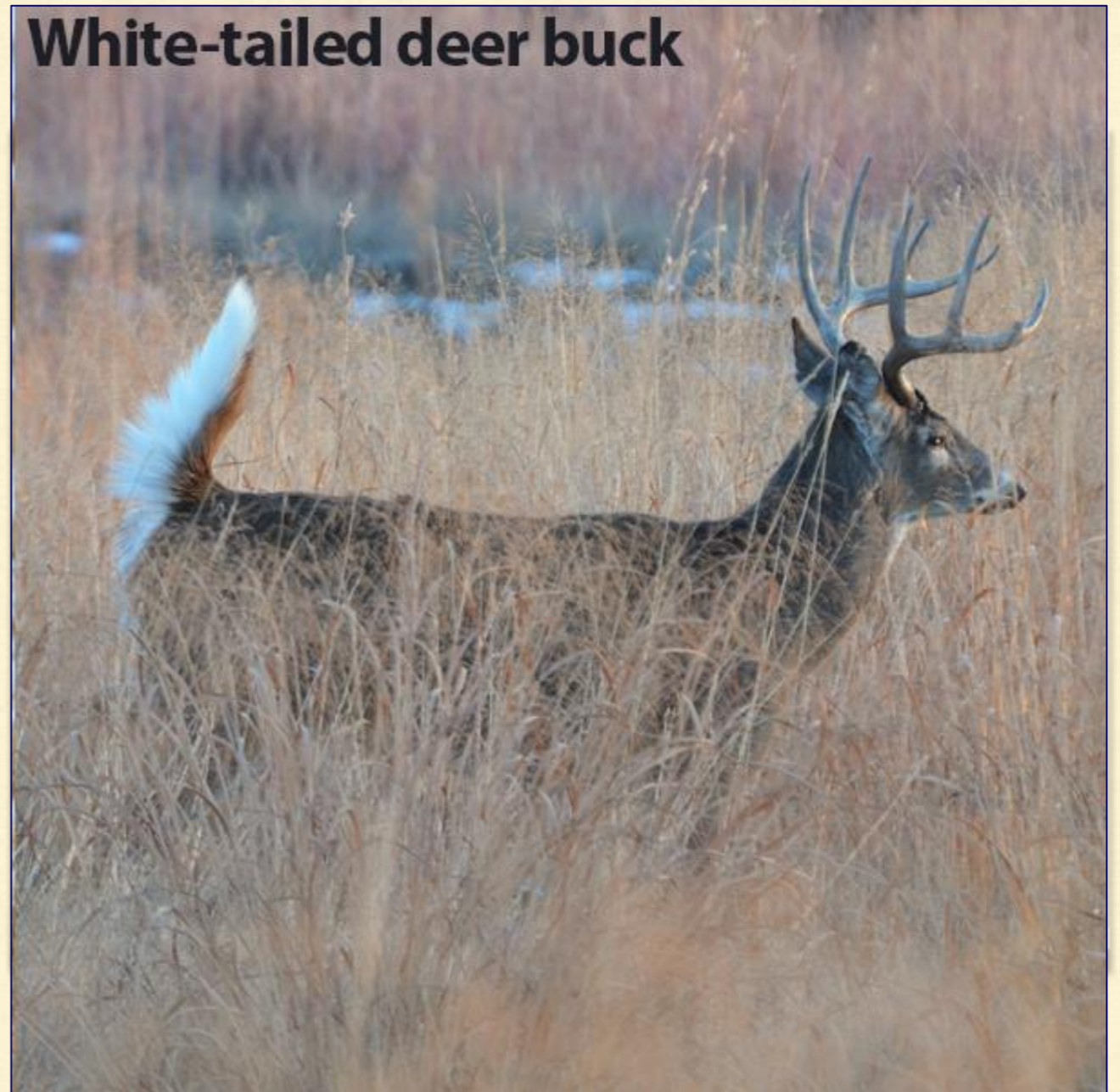


1. Big ears 2. White tail with black tip 3. "Y" branching pattern to antlers



SPECIES ID: WHITE-TAILED DEER

- Smaller ears – although hard
- Long tail with white underside
- Antlers branch from one main beam
- Mostly found in riparian areas on the West Bank, Gros Ventre River, near South Park and Alta



WHITE-TAIL VS. MULE DEER DOES



Mule deer doe



White-tailed deer doe

SPECIES ID: WHITE-TAIL VS. MULE



Main beam with single, vertical points



Antler with multiple forks

SPECIES ID: ELK



1. Long main beam with tines
 2. Shaggy dark mane
 3. Buffy rump
-

SPECIES ID: ELK



SPECIES ID: MOOSE

More on aging and sexing moose later!



**SPECIES ID:
TRUMPETER SWAN**



SPECIES ID: RAPTORS OF JH



Photo by Henry Holdsworth



Photo by Lars Petersson



Photo by Alex Lamoreaux



Photo by Rodney Crice

SPECIES ID: GREAT GRAY OWL



1. Concentric Facial Rings

2. No ear tufts

3. Overall Grayish Color

SPECIES ID: GREAT HORNED OWL

Photo by John Norton



Photo by Anne Auclair Moe

1. Single facial disc, reddish face
2. Ear tufts (may be lowered)
3. Brownish color, but variable

Red-tailed Hawk



SPECIES ID: RED-TAILED HAWK



Red tail



Highly variable

Photos by Jerry Ligouri



belly band

Photo by Alex Lamoreaux

SPECIES ID: ROUGH-LEGGED HAWK



Photo by Rodney Crice



Photo by Shawn Billerman



Photo by Joel Adams

SPECIES ID: BALD EAGLE



Photo by Benjamin Hack



Photo by Matt Davis

SPECIES ID: GOLDEN EAGLE



Photo by Bryan Calk
etersson



Photo by Lars P

WHICH EAGLE IS WHICH?



Photo by John Reynolds

SPECIES ID: CHICKADEES



Black-capped



Mountain

SPECIES ID: WAXWINGS



SPECIES ID: BLACK ROSY-FINCH



SEX: UNKNOWN

The sex of many species cannot be determined or observed:

- Squirrels
- Swans
- Snakes
- Many songbirds and raptors

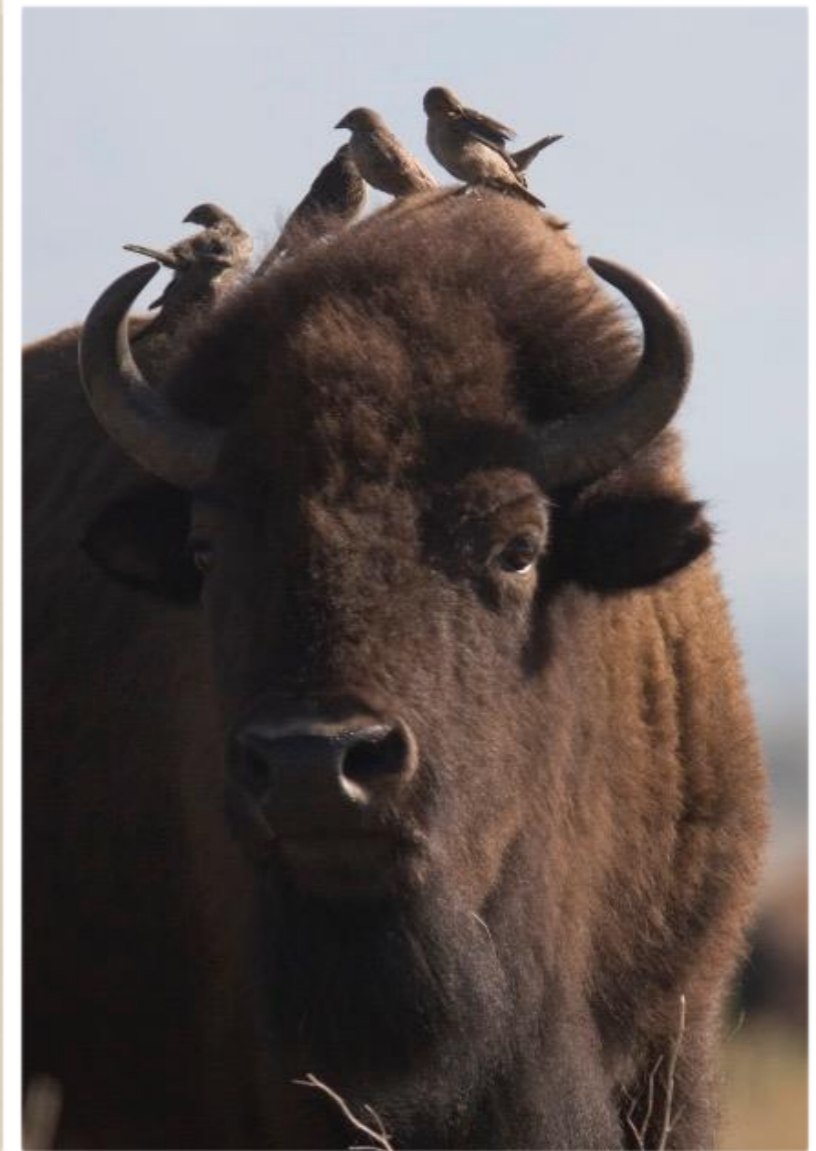


Photo by Malcolm Gold

SEX: BISON MALE VS. FEMALE



Male: Less curved
horns



Female: More curved
horns

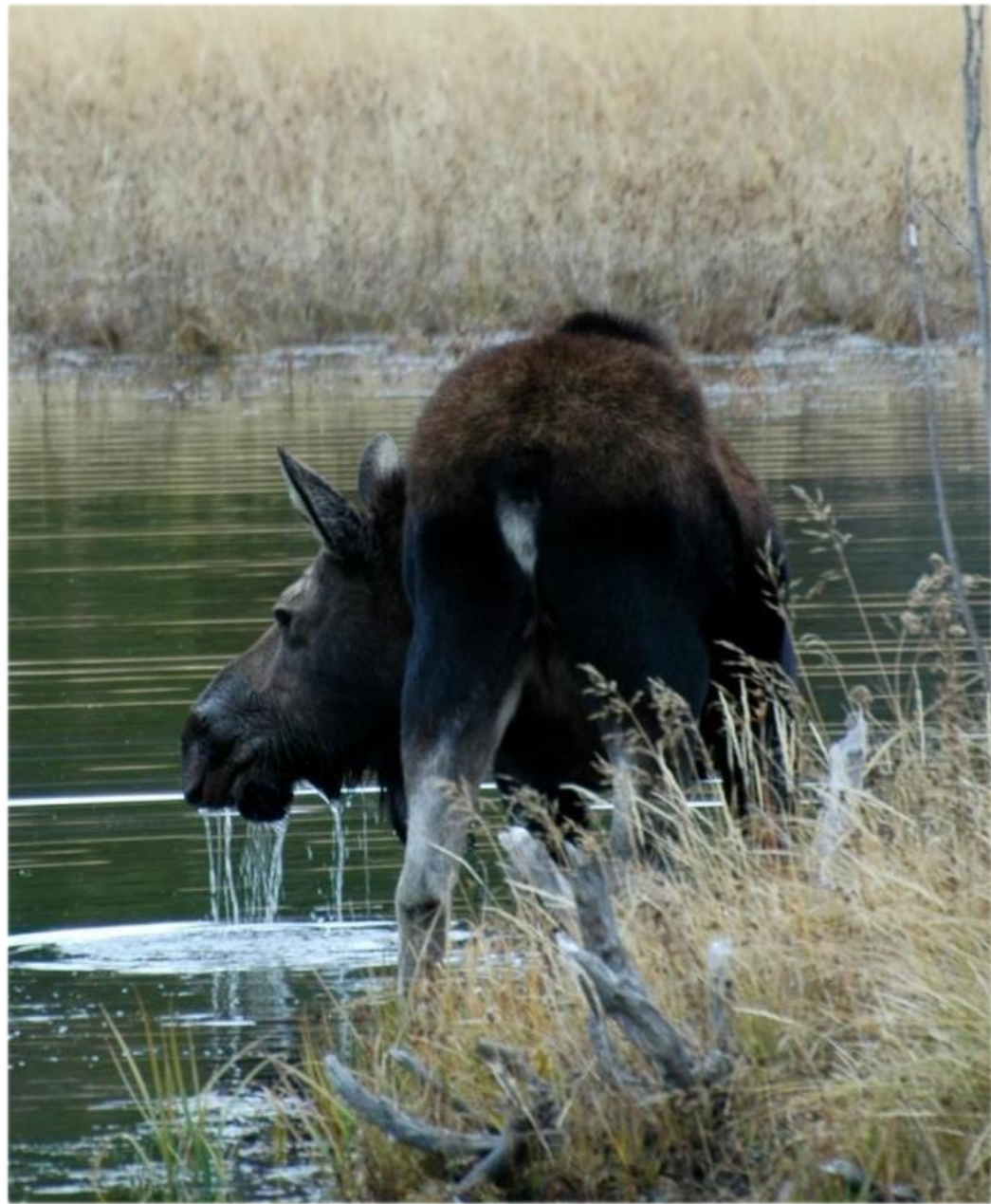
SEX: BISON



SEX: MOOSE MALE



SEX: MOOSE FEMALE



SEX: PRONGHORN



Male



Female

SEX: BARROW'S GOLDENEYE



Male

Female

SEX: MOUNTAIN BLUEBIRD



Male

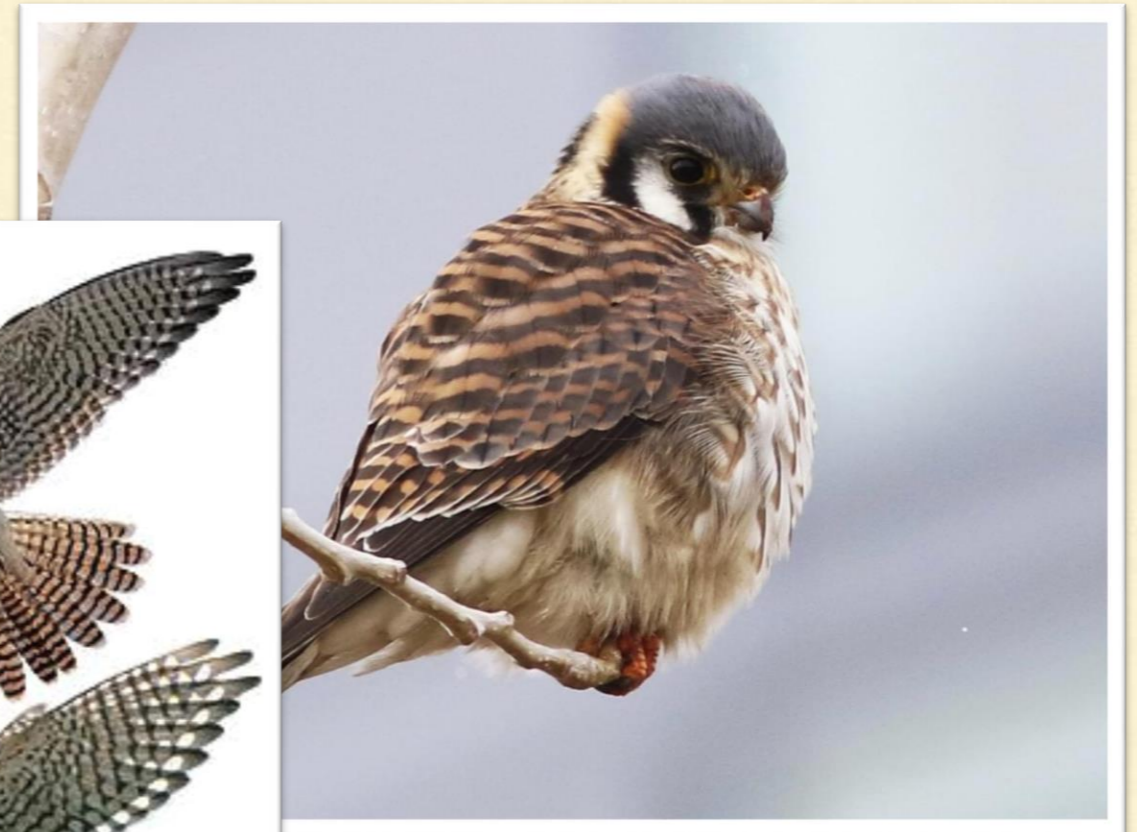
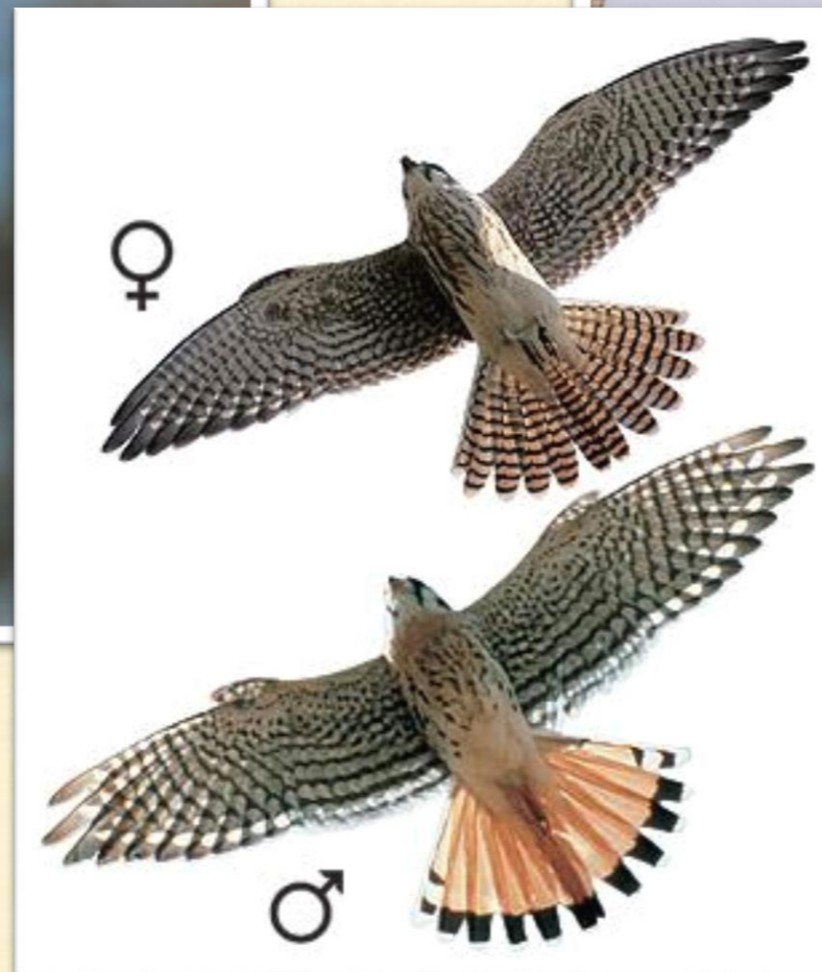


Female

SEX: AMERICAN KESTREL



Male



Female

AGE: UNKNOWN/MIXED



If large group (+/or little time): Unknown/Mixed

AGE: JUVENILES

- Juveniles: Young of the year
- Usually born after May 15th
- If don't know = Unknown



AGE: BISON JUVENILE (L) YEARLING (R)



AGE: JUVENILES

Subadults:

- Second spring to fourth spring
- Can be hard
- If not sure = **Unknown**
- Can add comments, too, e.g. immature bald



AGE: ANTLER SIZE DOES NOT TELL ALL



ACTIVITY:

- Resting/roosting
- Feeding
- Standing
- Walking
- Running
- Flying
- Swimming



ACTIVITY: SIGN (TRACK/SCAT)

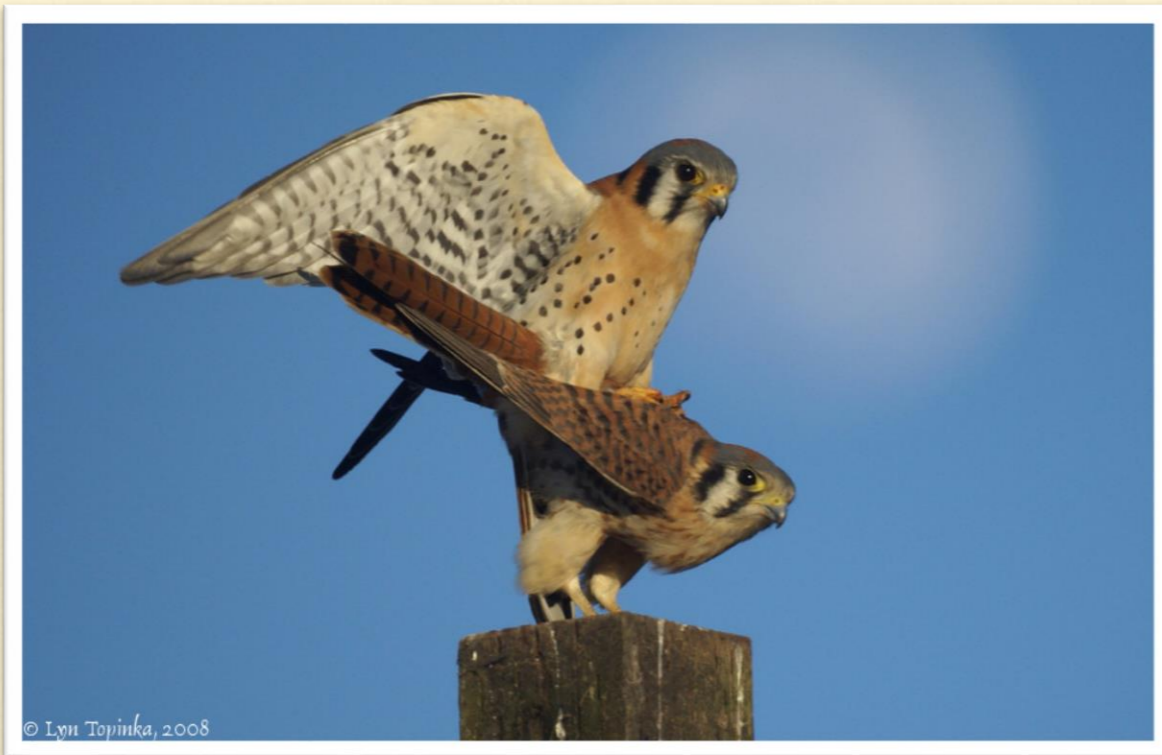


ACTIVITY: ACTIVE BIRD FEEDER



ACTIVITY: REPRODUCTION (BREEDING)

- In the act or courtship behavior



ACTIVITY: TERRITORIAL

- Singing
- Chasing



ACTIVITY: NESTING



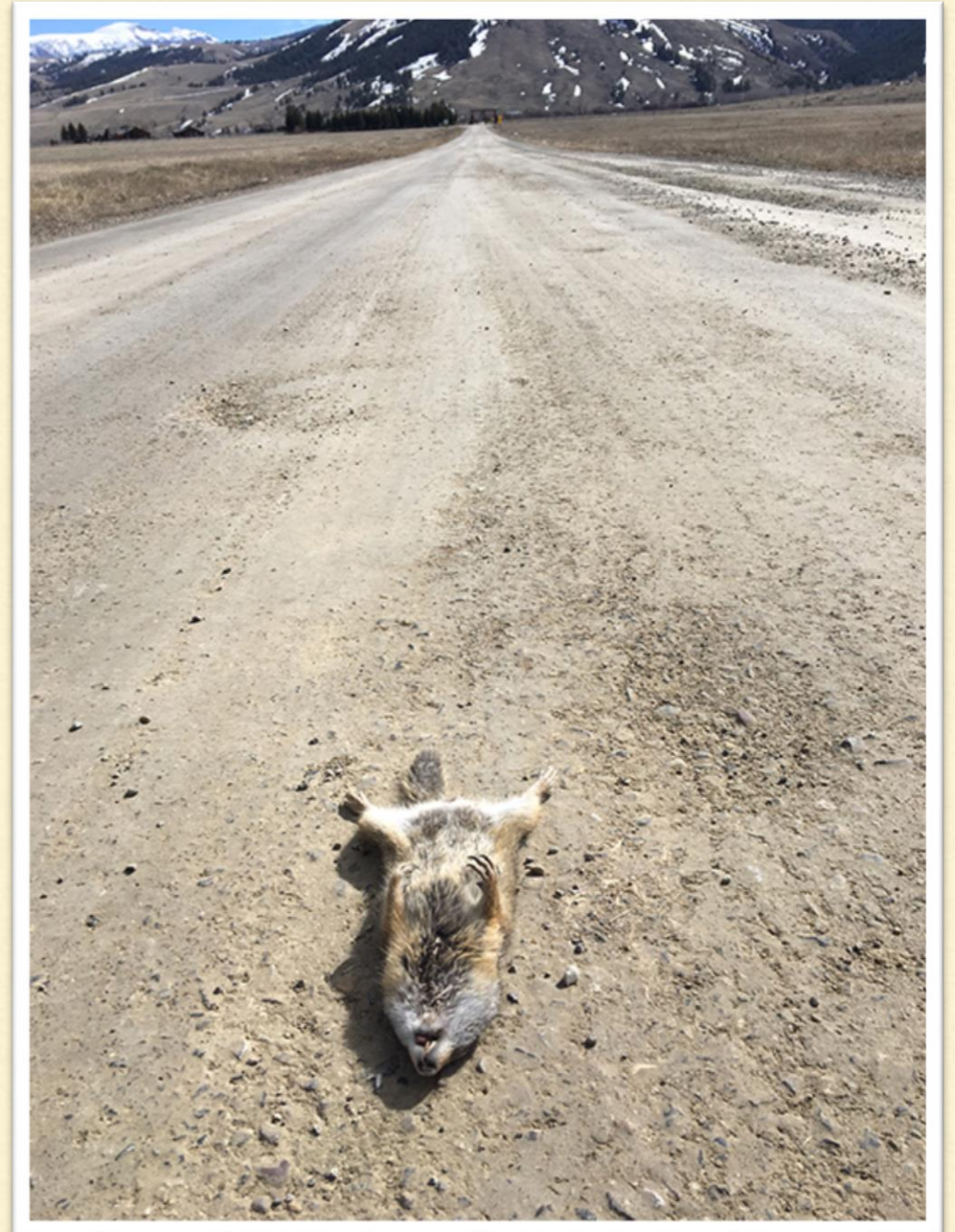
ACTIVITY: UNDETERMINED

- Variable
- Heard only



MORTALITY:

- Cause Undetermined
- Fence
- Serious injury
- Powerline/ Electrocution
- Accident – Vehicle
- Predation
- Window Collision



GETTING YOU GOING

- Create an Account
- Login
- Settings
- Practice

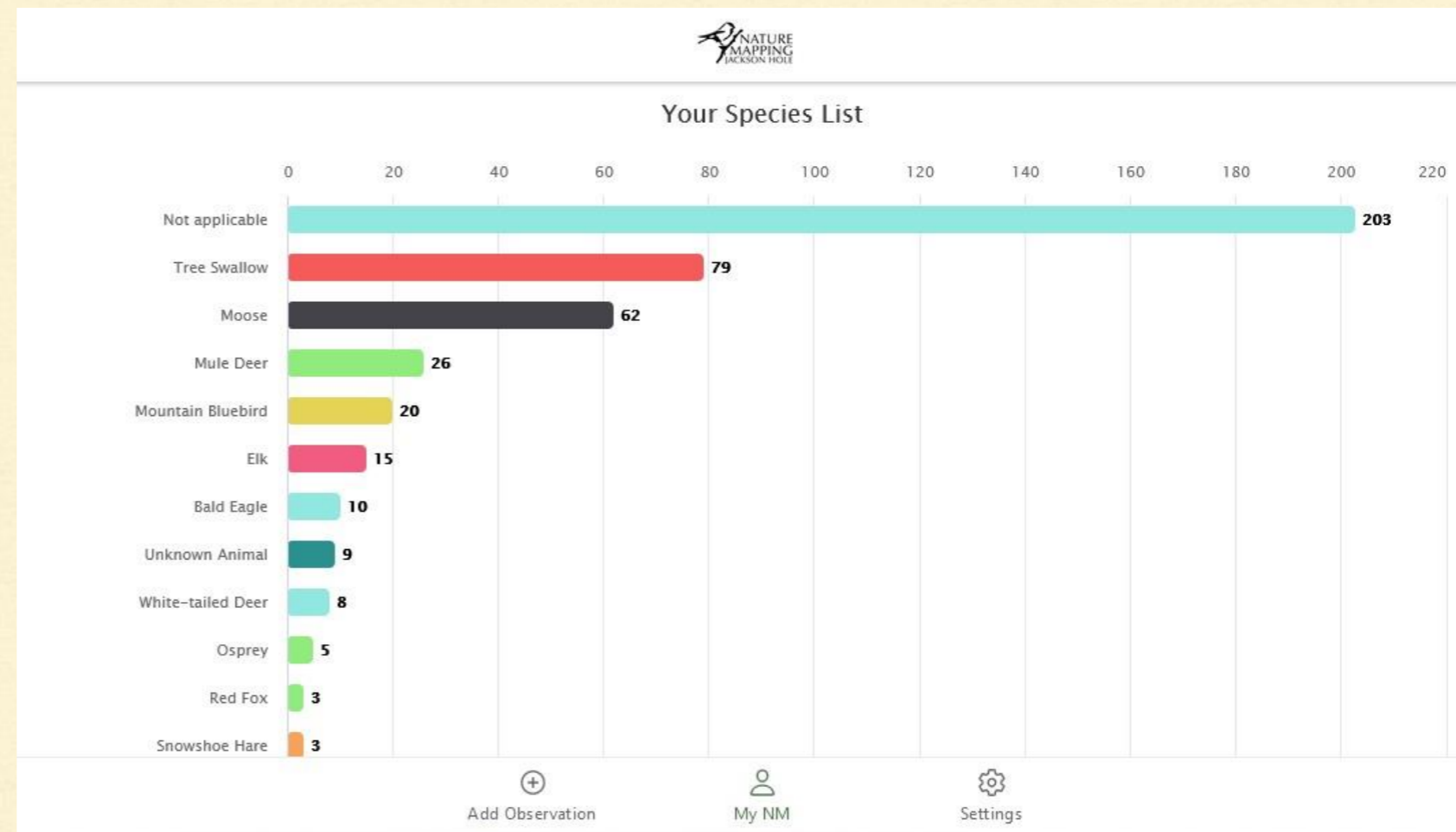
NATURE MAPPING JACKSON HOLE

Submitted Observations
530 Observations

TABLE MAP

Project	Date	Species	Quantity	Activity	Age	Sex	Mortality
Project Backyard	1/6/2023	Evening Grosbeak	1	Active Bird Feeder	Unknown/...	Male	N/A
Project Backyard	1/5/2023	Sharp-tailed Grouse	2	Flying	Unknown/...	Unknown	N/A
Project Backyard	1/5/2023	Mule Deer	3	Feeding/Foraging	Unknown/...	Female	N/A
Project Backyard	1/5/2023	Northern Flicker	1	Active Bird Feeder	Unknown/...	Male	N/A
Project Backyard	1/5/2023	Mountain Chickadee	2	Active Bird Feeder	Unknown/...	Unknown	N/A
Project Backyard	1/5/2023	Black-billed Magpie	6	Active Bird Feeder	Unknown/...	Unknown	N/A
Project Backyard	1/5/2023	Black-capped Chic...	6	Active Bird Feeder	Unknown/...	Unknown	N/A
Project Backyard	1/5/2023	Pine Siskin	2	Active Bird Feeder	Unknown/...	Unknown	N/A

neighbors-to-nature-cache-creek-study/ Add Observation My NM Settings



FINDING THE NATURE MAPPING WEBSITE

[NATURE MAPPING LOGIN](#)



[MOOSE DAY](#)

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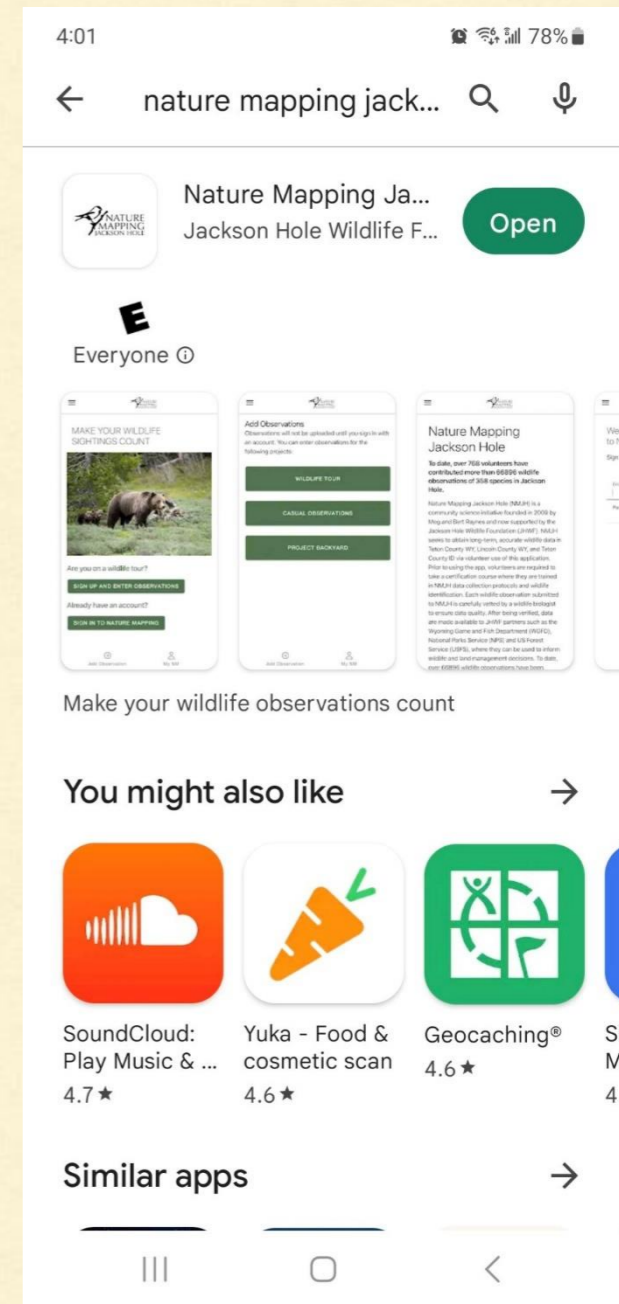
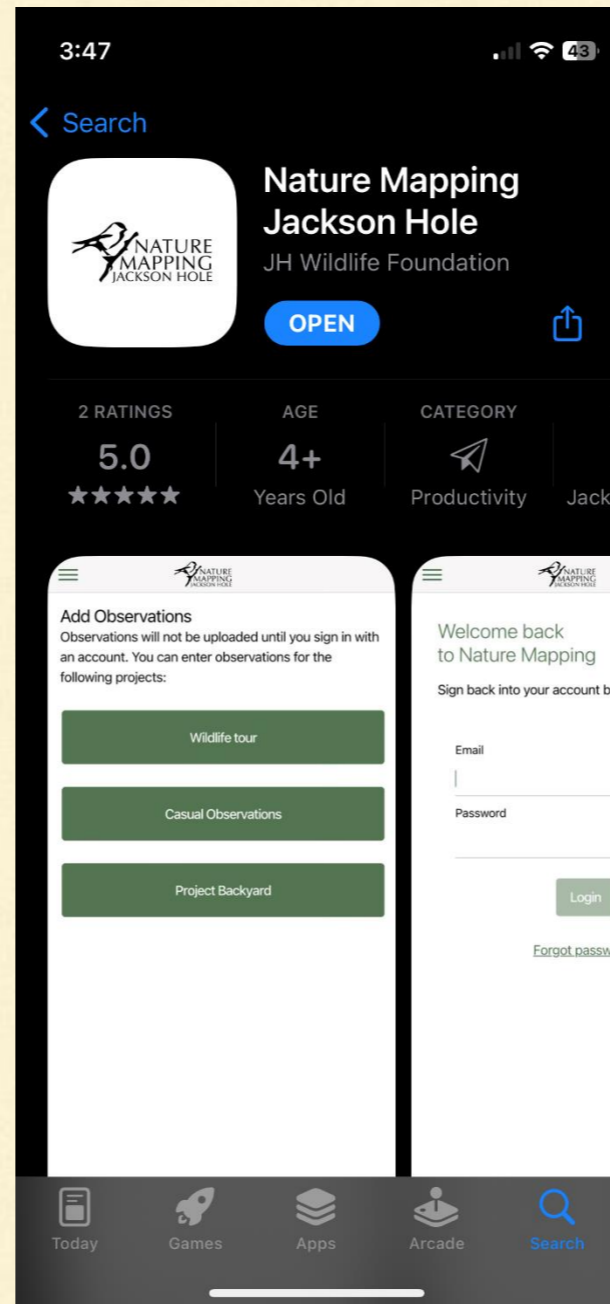
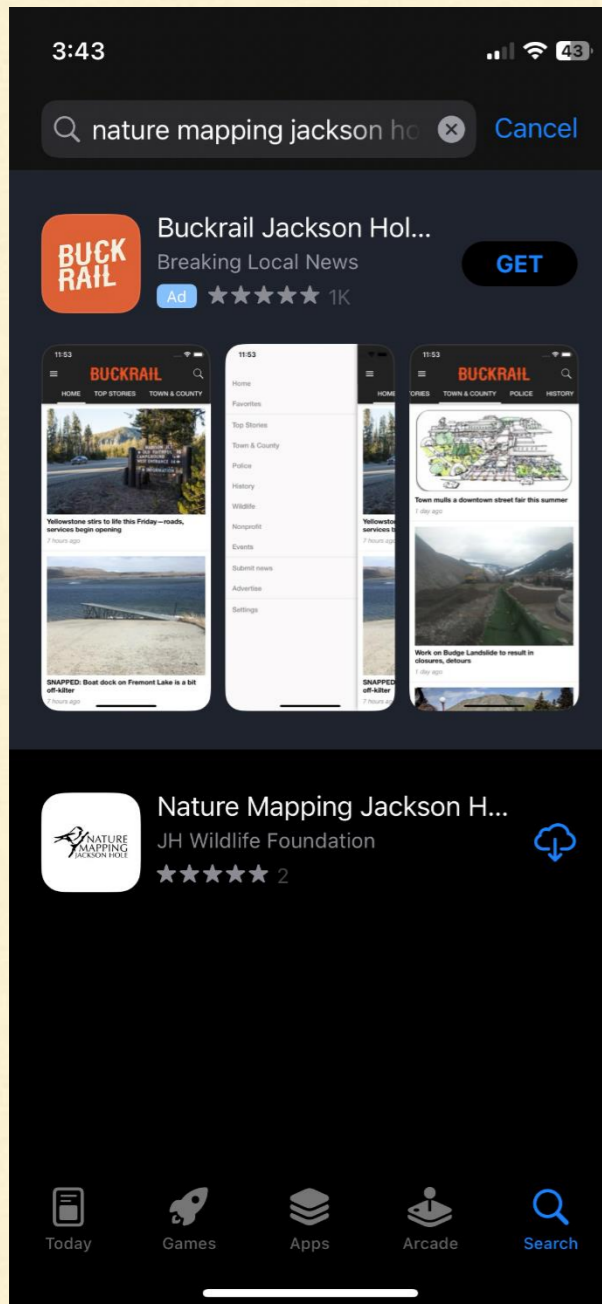
Thanks for a great year!

From wildlife-friendlier fence projects deep in the Gros Ventre wilderness to maintaining bluebird nestboxes on the National Elk Refuge, learn what kept us busy in 2022 in this end-of-year success report!

[Donate](#)

Start at our Home Page: jhwildlife.org

FINDING THE NATURE MAPPING APP



Search for “Nature Mapping Jackson Hole” in your App Store

DATA COLLECTION PROTOCOL

- Animal Type (Mammal, Amphibian, Bird, etc.)
- Species (Mule Deer, Black Bear, etc.)
- Date
- Time
- Notes
- Age
- Quantity
- Activity
- Location (of animal)
- Photo (optional)





OBSERVATION – LIVE DEMO



OBSERVATION #1

One American Robin mapped on Jan 9, 2023 at 12:31 PM near the National Elk Refuge

- Amphibians
- Birds
- Mammals
- N/A
- Reptiles

What species was it?*

American Robin



Occurrence

Spring
Abundant

Summer
Abundant

Fall
Abundant

Winter
Occasional

CANCEL

SAVE DRAFT

NEXT

Tip: Use the dropdown menu or begin typing to find your species

Casual Observations

N/A

Reptiles

What species was it?*

Select or type species

When did you make this ob:

Thursday, 03/16/2023, 12:03 PM

Notes

Any notes about the observation?

Thursday, 03/16/2023, 12:03 PM

March 2023

Sun	Mon	Tue	Wed	Thu	Fri	Sat
26	27	28	1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	1

12 : 03 PM

Cancel Ok

Tip: Select the date by clicking the calendar and don't forget to change the time if you are entering data retroactively

Casual Observations

What species was it?*

Greater White-fronted Goose

Occurrence

Spring Rare Summer N/A Fall Rare Winter N/A

When did you make this observation?*

December 2022

October 2023
November 2022
December 2021

Notes

Any notes about the observation?

CANCEL SAVE DRAFT

Casual Observations

1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31

Time 12:58 PM

Notes

Observed smaller goose with orange legs, feet, and bill white forehead above bill. Lacked the white chinstrap of Canada Goose. Also heard call that was squeakier and higher pitched than Canada Goose.

• Notes are required for species with a rare occurrence

CANCEL SAVE DRAFT NEXT

Tip: Occurrence helps you to know what is expected in the area at the time of year you are Nature Mapping. If a species is Rare, Accidental, or N/A, you will have to enter notes about what you saw in order to proceed.

What did you see?

Sex*

Female

Male

Unknown

Age*

Adult

Quantity*

1

Activity*

Standing/Perched

PREVIOUS

SAVE DRAFT

NEXT

Tip: **Do not guess!** If you are unsure about an animal's age, sex or activity, leave these details as unknown.

1

Activity*

Standing/Perched

Mortality*

N/A

Add another

PREVIOUS

SAVE DRAFT


NEXT

Tip: Mortality, while sad, is one of the more important pieces of data we collect. Roadkill data can be used to inform mitigation, so please don't leave out the dead!

Where did you observe this species?**Location**

To update the observation location below:

- click directly on the map
- click the update your location button to get your current GPS coordinates
- or enter the values manually in the input boxes below the map for coordinates or UTM's

 UPDATE YOUR LOCATION



If entering the location manually, you can enter either the latitude and longitude or the UTM's.

Latitude

43.48044511996955

Longitude

-110.74325319354001

PREVIOUS

SAVE DRAFT

NEXT

Tip: Ensure the location is accurately portraying the location of the animal (not your location) before proceeding!

Turdus migratorius

American Robin

Photos



Click here to take a photo or upload a photo from your device.

A photo can help scientists verify this sighting

PREVIOUS

SAVE DRAFT

REVIEW

Tip: Photos help our data vetters quickly verify your sightings. Your sighting with a photo could be featured in our monthly eNews!

Review Submission

Casual Observations

Date and Time

Jan 9, 2023, 12:31 PM

Wildlife Type

Birds

Species

American Robin

[Edit](#)

Observations

Observation 1

Sex

Unknown

Age

Adult

Quantity

1

Activity

Standing/Perched

Mortality

N/A

Notes

Perched on fence at NER

[Edit](#)

CANCEL

SUBMIT

Tip: Ensure that all data are correct before submitting. If you notice a mistake on your form, use the Edit button to fix the error.

Review Submission



[Edit](#) ←

Photos



CANCEL

SUBMIT

Congratulations! You have completed Observation #1!

RESOURCES: [JHWILDLIFE.ORG](https://jhwildlife.org)

NATURE MAPPING

- + Add Observation
- My Observations
- All Observations
- Mountain Bluebird
- Game Cameras
- Data Verification
- Data Export
- Admin
- About
- Resources**

<https://jhwildlife.org/our-work/nature-mapping/neighbors-to-nature-cache-creek-study/>

Add Observations
You can enter observations for the following projects:

- BEAVER PROJECT
- CASUAL OBSERVATIONS
- MOOSE DAY
- MOUNTAIN BLUEBIRD NESTBOX PROJECT
- PROJECT BACKYARD
- SNAKE RIVER FLOAT

Navigation: Add Observation, My NM, Settings

5:03 42%

NATURE MAPPING JACKSON HOLE

Add Observations
You can enter observations for the following projects:

- Beaver Project
- Casual Observations
- Game Cameras
- Moose Day
- Mountain Bluebird Nestbox Project
- Neighbors To Nature

Navigation: Add Observation, My NM, Settings

Access resources for Nature Mappers from the app and website

RESOURCES: [JHWILDLIFE.ORG](https://jhwildlife.org)

NATURE MAPPING LOGIN



MOOSE DAY

ABOUT US ▾

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Quick Tips for Nature Mappers

Veteran Nature Mappers will notice changes to the data entry platform starting October 14th, 2019. These changes are designed as upgrades to improve user experience by allowing citizen-scientists to submit wildlife observations “offline” on mobile devices. The upgrades also enable users to submit photos with their observations, add specialized projects with custom data fields, and enhance the platform’s overall security. [Read the press release.](#)

To enter your wildlife observations, you’ll need to navigate to naturemapping.jhwildlife.org or use one of the links provided on this website. The links and resource materials on this page

NMJH Program Goals

- Keeping common

Donate



RESOURCES: GUIDE BOOKS



RESOURCES: JHWF YOUTUBE

YouTube Search

HOME VIDEOS PLAYLISTS COMMUNITY CHANNELS ABOUT

29 views • 1 month ago 59 views • 2 months ago 30 views • 5 months ago

CC

Game Camera Footage of Wildlife Utilizing the Teton...
14 views • 5 months ago

Amphibian and Reptile Continuing Education...
53 views • 5 months ago

Elk Crossing at Wilson Bridge Ad
24 views • 6 months ago

Antelope Crossing
19 views • 6 months ago

The Pow Can Wait Ad
7 views • 6 months ago

Slow Down Ad
34 views • 6 months ago

Elk herd moving through winter closure zone
66 views • 6 months ago

Beginning Birding Class with Hilary Turner
98 views • 7 months ago

Snake River Corridor Film Teaser
3 views • 7 months ago

The Snake River Corridor Project
162 views • 7 months ago

<https://docs.google.com/document/d/1Cg8726PLnZfKamF9AXv1NYL6RLnwjJ70KeE7RoIYF0k/edit?ts=60f6ff98#>

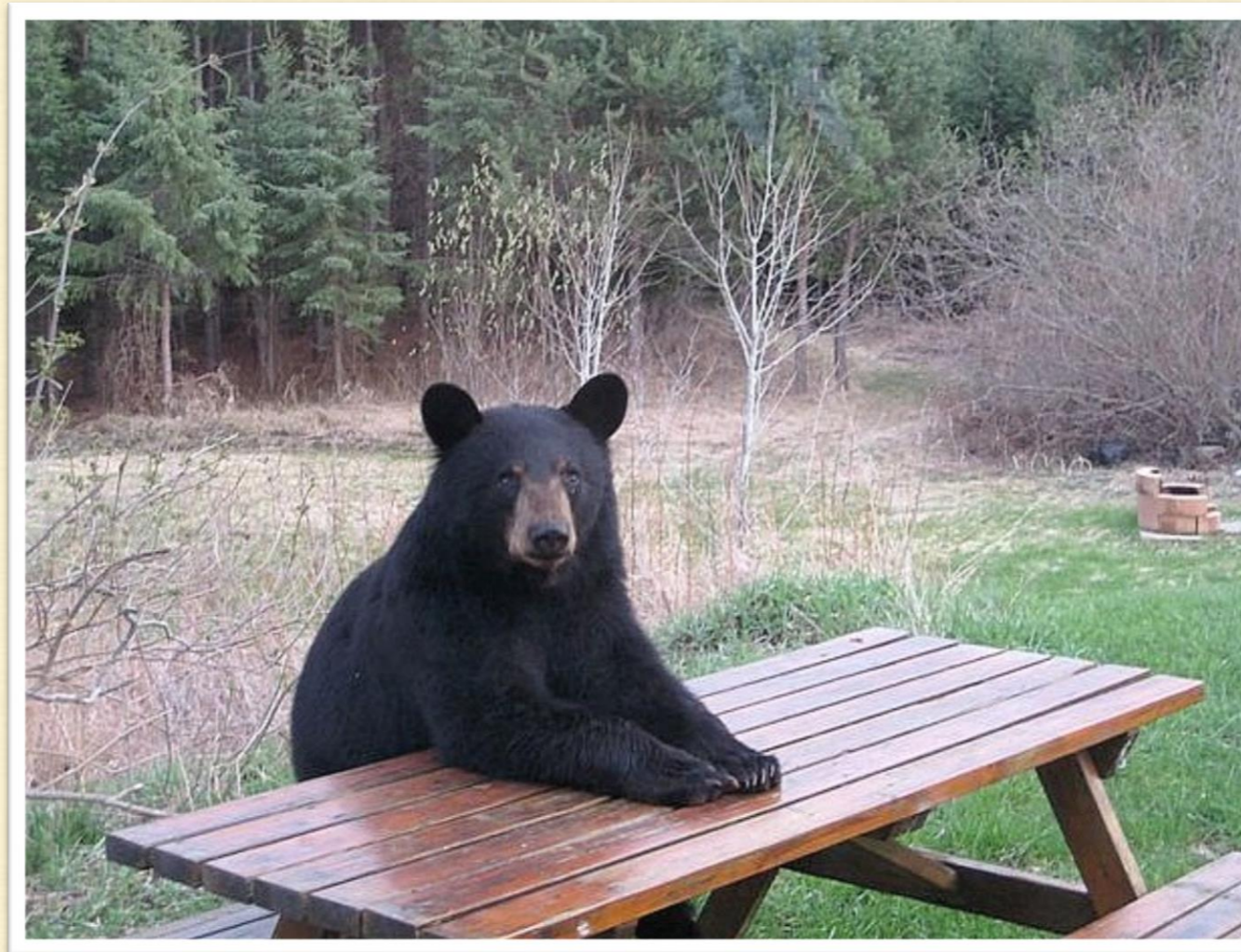
RESOURCES: NMJH COMMUNITY



UPCOMING OPPORTUNITIES

- 1-day CyberTracking Class in November
 - Moose Day (Date is TBD)
 - Ideas for continuing education
 - Email jessie@jhwildlife.org to sign up
-

Any Questions ?



“In every walk with nature one receives far more than he seeks.”

– John Muir