

# NATURE MAPPING JACKSON HOLE

Make your wildlife sightings count



JACKSON HOLE



WILDLIFE  
FOUNDATION

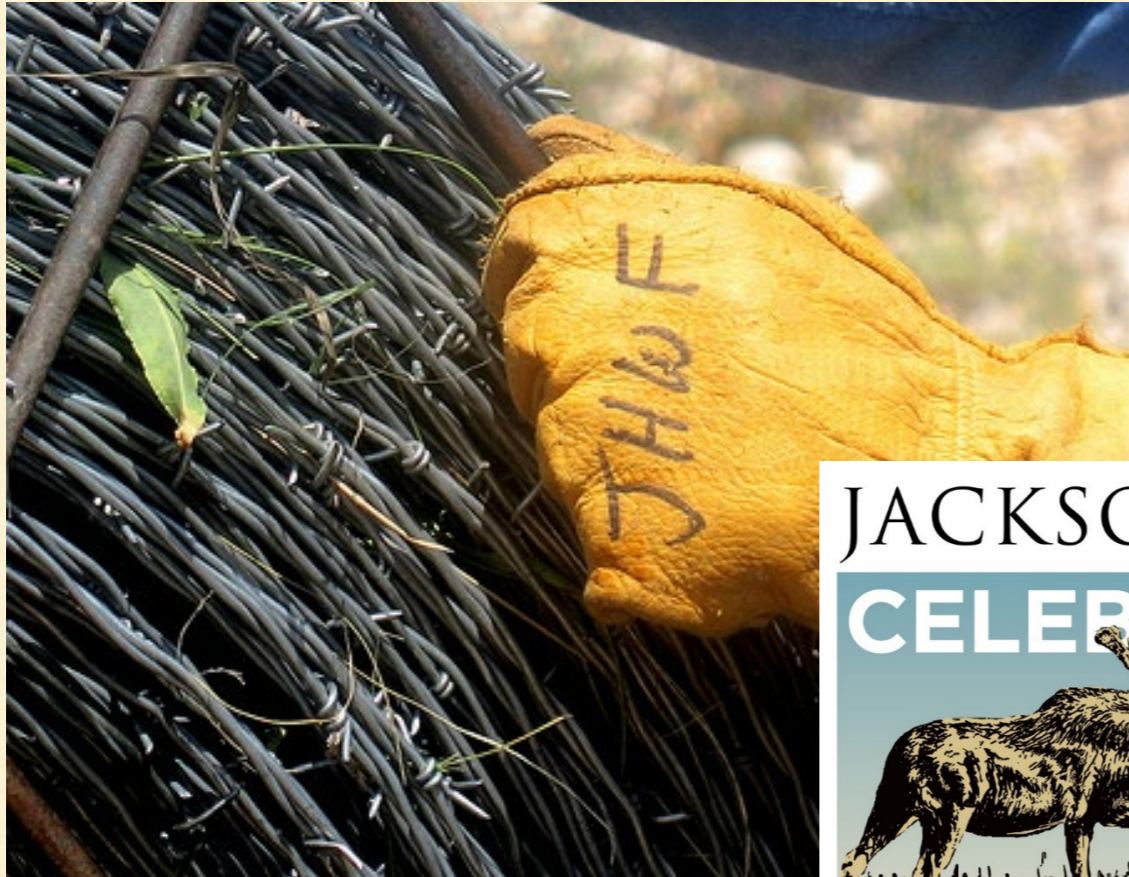
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# THE JACKSON HOLE WILDLIFE FOUNDATION

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



JACKSON HOLE  
 CELEBRATING  

 30 Years

WILDLIFE  
 FOUNDATION



# 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 (WOS)



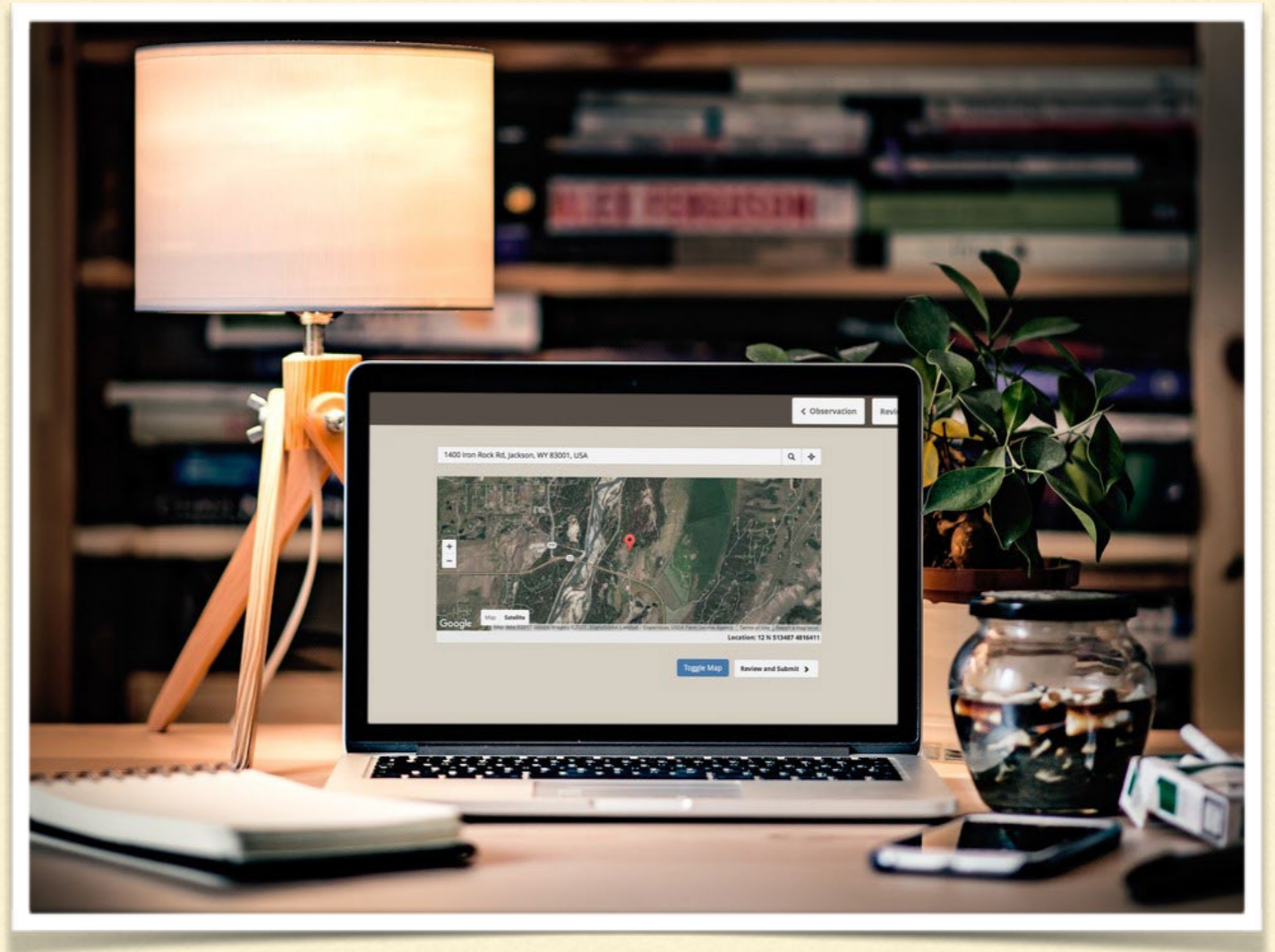
# OBJECTIVES FOR TONIGHT

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

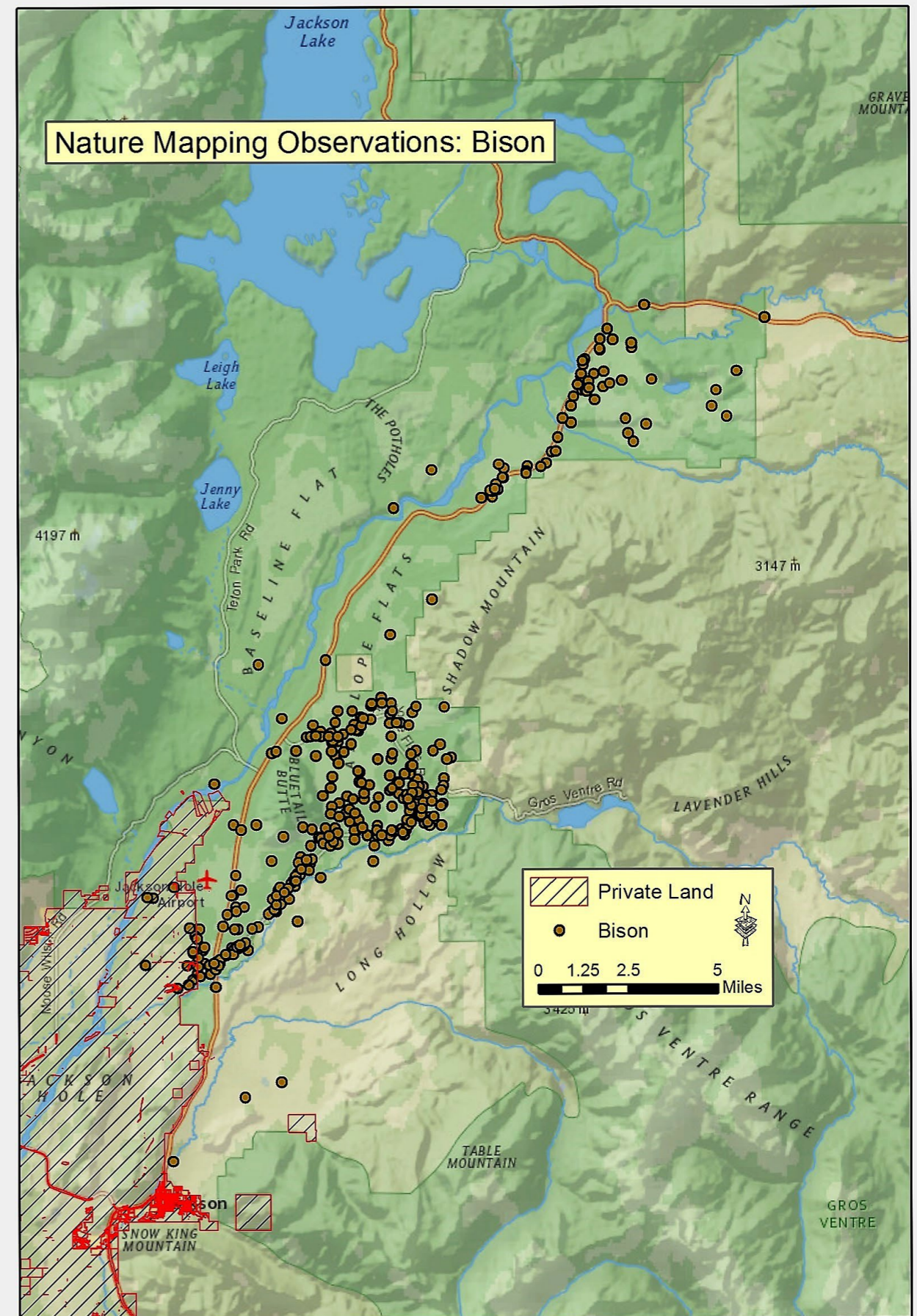
Understand the importance of following protocols

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



# 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



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# Fundamentals of Observations:

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



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# 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!**

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# PRIVATE LAND CONSIDERATIONS

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- 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.
-

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# NMJH PROJECTS

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- Casual Observations
- Project Backyard
- Mountain Bluebird monitoring
- Moose Day
- Beaver Project
- Snake River Float Trips



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# CASUAL OBSERVATIONS

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



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# 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



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# MOOSE DAY

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- February 25 - 7:00 a.m. - noon
- Work in teams
- Assigned areas
- Nature Mapping data complements WGFD's (private land vs. public land)



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# BEAVER PROJECT

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- Collaboration with private investigator
- Surveys of drainages in GTNP and BTNF
- Zoom presentation available



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# SNAKE RIVER FLOAT TRIPS

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- Sunday mornings (June – Sept.)
- Team of Birder and Recorder
- Thanks to Jackson Hole Vintage Adventures



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# MOUNTAIN BLUEBIRD NESTBOX MONITORING PROJECT

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Photo by Vicki Morgan





# SPRING - GREAT TIME TO START

- **First of Year – FOYs**

- **Migrations of mammals and birds**

- **Baby animals**



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# FALL - GREAT TIME TO START

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- Seasonal movement of mammals and birds
- Young of Year
- Time to report last of season/first of season



Photo by Kevin Perozeni



Photo by Bryce Robinson

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# WINTER - GREAT TIME TO START

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# OBSERVATION #1

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

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- 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

When did you make this observation?\*

A calendar interface for January 2023. The days of the week are listed at the top: S, M, T, W, T, F, S. The dates 1 through 31 are arranged in a grid. The date 9 is highlighted with a dark green circle, and the date 11 is circled with a white outline. At the bottom left, the word "Time" is displayed. At the bottom right, a grey button shows the time "12:54 PM".

CANCEL

SAVE DRAFT

A calendar interface for January 2023, similar to the first one. The date 11 is circled. Below the calendar, a time selection interface is visible, showing a list of times: 29, 30 AM, 12 31 PM, 1 32, and 2 33. The time "12 31 PM" is highlighted.

NEXT

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
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**When did you make this observation?\***

December 2022 ▲

October

November 2023

December 2022

2021

2020

**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	Longitude
<input type="text" value="43.48044511996955"/>	<input type="text" value="-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!

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## 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!

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**OBSERVATION #2 – LIVE DEMO**

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# SPECIES ID, DETAILS, AND DEFINITIONS



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# SPECIES ID: SQUIRRELS



Uinta Ground Squirrel – “Chisler”



Golden Mantled Ground Squirrel

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# SPECIES ID: CHIPMUNKS

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Least Chipmunk



Yellow Pine Chipmunk

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# SPECIES ID: RED SQUIRREL

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# SPECIES ID: AMERICAN BADGER

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# SPECIES ID: WOLVERINE



photo © Jeff Copeland

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# SPECIES ID: YELLOW-BELLIED MARMOT

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# SPECIES ID: GRIZZLY AND BLACK BEARS

Know your bears!

**Black Bear**

- Front track: Shows a distinct circular mark on the front paw.
- Front claw: 1-2" long.
- No prominent shoulder hump.
- Tall ears.
- Straight face profile.
- Short claws.

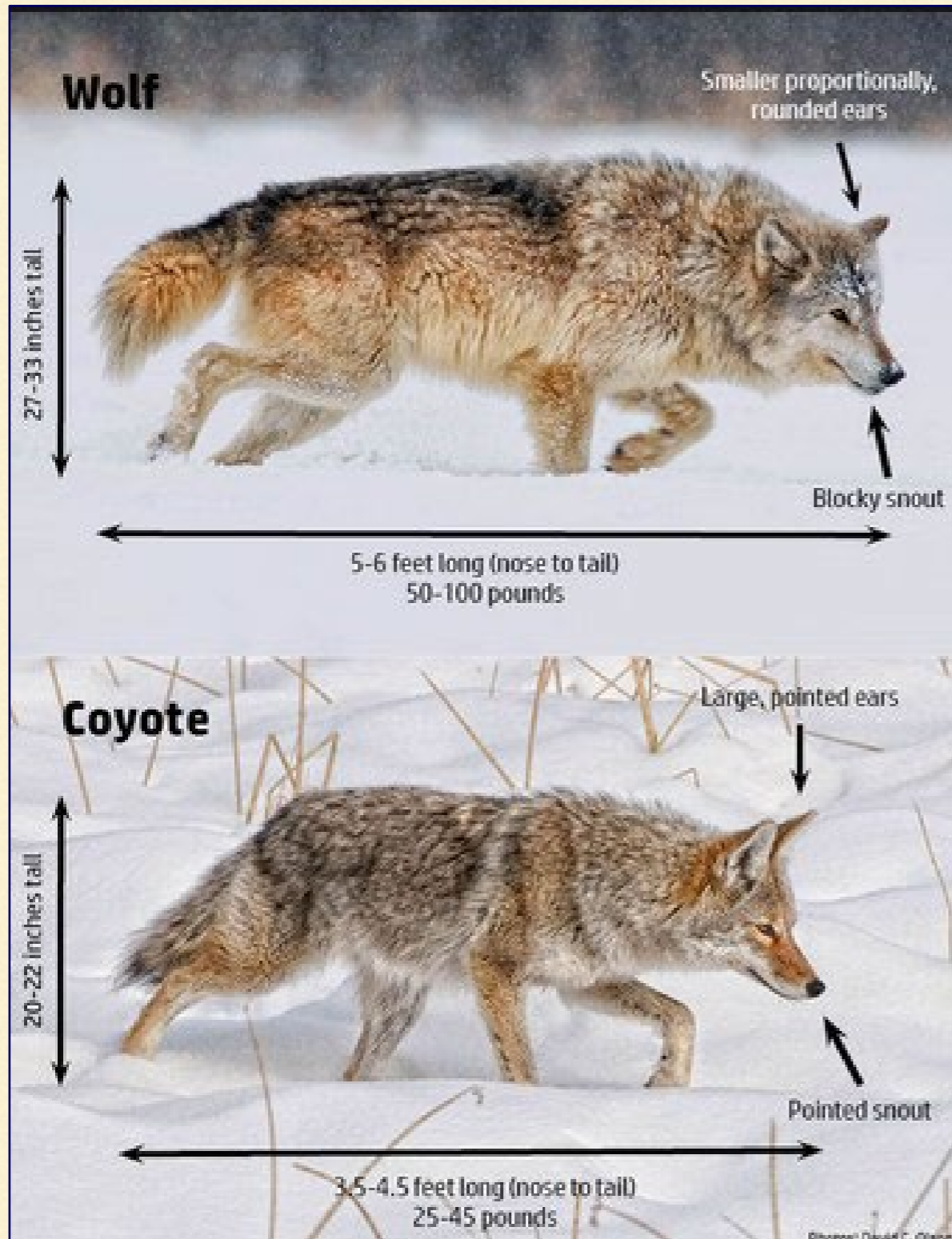
**Grizzly Bear**

- Front track: Shows a distinct circular mark on the front paw.
- 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 Oregon Dept of Wildlife. Illustrations by Charles Beardsley.

# 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





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# SPECIES ID: WHITE-TAILED DEER

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- 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



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# WHITE-TAIL VS. MULE DEER DOES

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**Mule deer doe**



**White-tailed deer doe**

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# WHITE-TAIL VS. MULE DEER BUCKS

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**Mule deer buck**



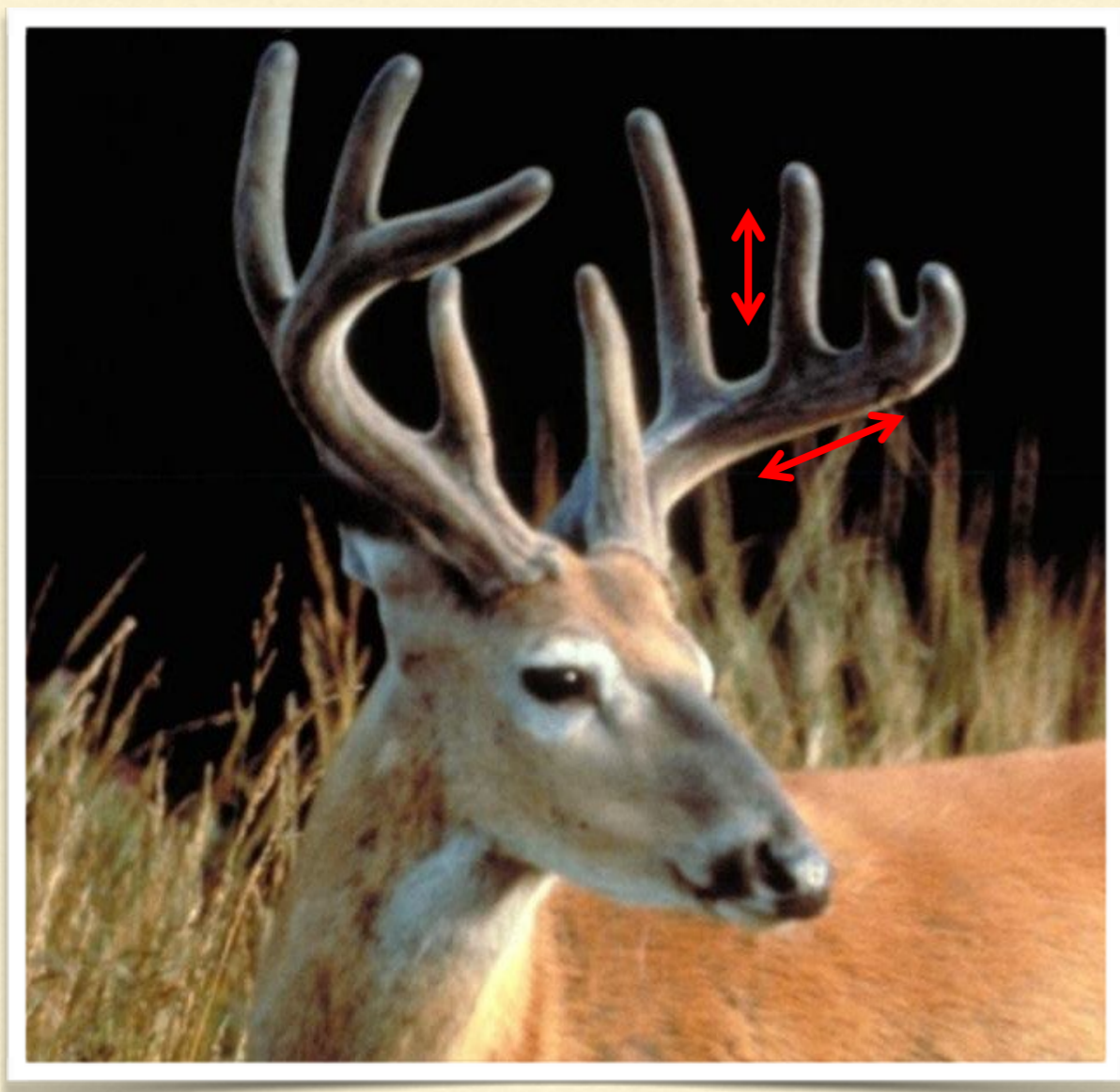
**White-tailed deer buck**



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# SPECIES ID: WHITE-TAIL VS. MULE

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Main beam with single, vertical points    Antler with multiple forks

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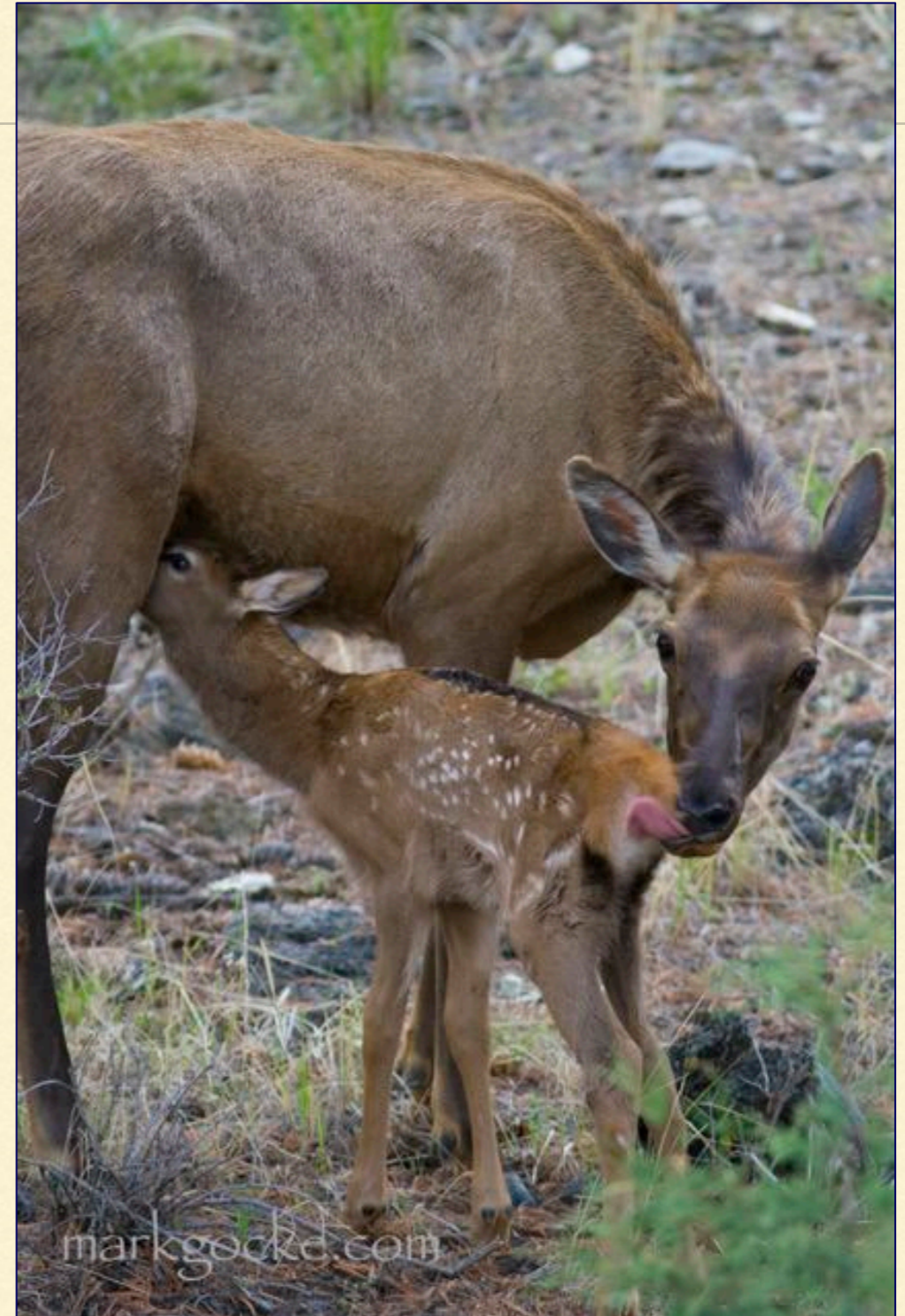
# SPECIES ID: ELK

---



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

# SPECIES ID: ELK

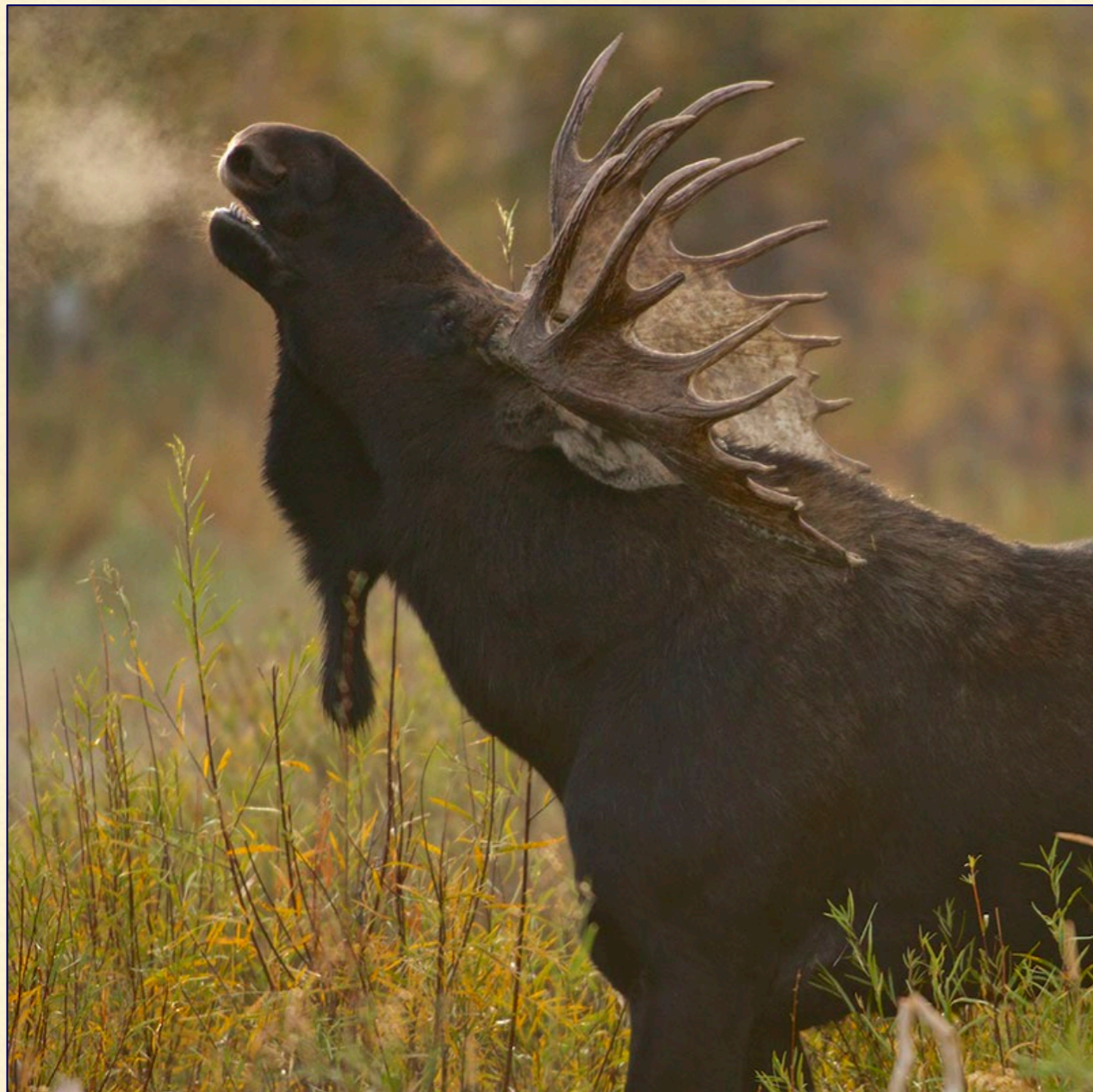


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# SPECIES ID: MOOSE

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More on aging and sexing  
moose later!



# SPECIES ID: AMERICAN GOLDFINCH





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SPECIES ID:

Western  
Meadowlark



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



Red-tailed Hawk - © Lance Wilson

# 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: ACCIPITERS



Photos by Alex Lamoreaux



Photo by Vickie Anderson

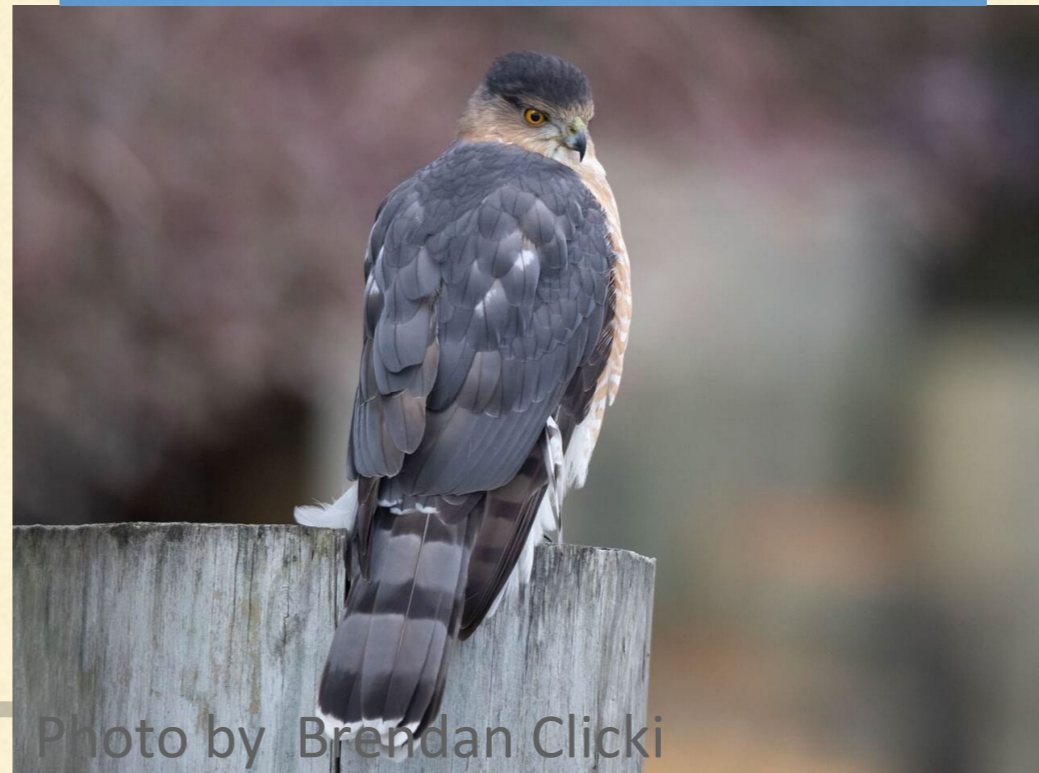


Photo by Brendan Clicki



# SPECIES ID: BALD EAGLE



Photo by Benjamin Hack



Photo by Matt Davis

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# SPECIES ID: GOLDEN EAGLE

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Photo by Bryan Calk



Photo by Lars Petersson

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# WHICH EAGLE IS WHICH?



Photo by John Reynolds

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# SPECIES ID: CURLEW, AVOCET, AND STILT



# SPECIES ID: *TRINGA* SANDPIPERS



Greater and Lesser Yellowlegs



Solitary Sandpiper



# SPECIES ID: BAIRD'S SANDPIPER



# SPECIES ID: LEAST SANDPIPER



---

# SPECIES ID: WESTERN SANDPIPER

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---

# SPECIES ID: SEMIPALMATED SANDPIPER

---



# SPECIES ID: NORTHERN SHRIKE



Photo by Stephane Dery

# SPECIES ID: STELLER'S JAY



# SPECIES ID:



Black-capped



Mountain

# SPECIES ID: WAXWINGS



Photo by Daniel Jauvin



Photo by Peter Hawrylyshyn



Photo by Margaret Viens



# SPECIES ID: BLACK ROSY-FINCH



# SPECIES ID: DARK-EYED JUNCOS



Pink-sided



Oregon

# SPECIES ID: RED CROSSBILL



Photo by Bryan Calk



Photo by Michael Stubblefield

---

# SPECIES ID: EVENING GROSBEAK

---



Photo by Bellemare Celine



Photo by Kyle Blaney

---

---

# SPECIES ID: COMMON REDPOLL

---



Photo by Mollie Langdon



Photo by Ryan Schain

---

---

# SPECIES ID: YELLOW WARBLER

---



# SPECIES ID: WILSON'S WARBLER



---

# SPECIES ID: WESTERN Tanager

---



Photos from eBird

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---

# SPECIES ID: TOWNSEND'S WARBLER

---



---

# SPECIES ID: AMERICAN REDSTART

---



---

# SPECIES ID: WESTERN TOAD

---



© Gary Nafis

---

# SPECIES ID: BOREAL CHORUS FROG



# SPECIES ID: SNAKES – ONLY 3



Gartersnake:  
Wandering –  
more common



Gartersnake:  
Valley – Rare



Rubber Boa

# SPECIES ID: WESTERN TIGER SALAMANDER



© MTNHP - Montana Amphibian Inventory Personnel



© MTNHP - Montana Amphibian Inventory Personnel

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# SEX: UNKNOWN

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The sex of many species cannot be determined or observed:

- Squirrels
- Swans
- Snakes
- Many songbirds and raptors



Photo by Malcolm Gold

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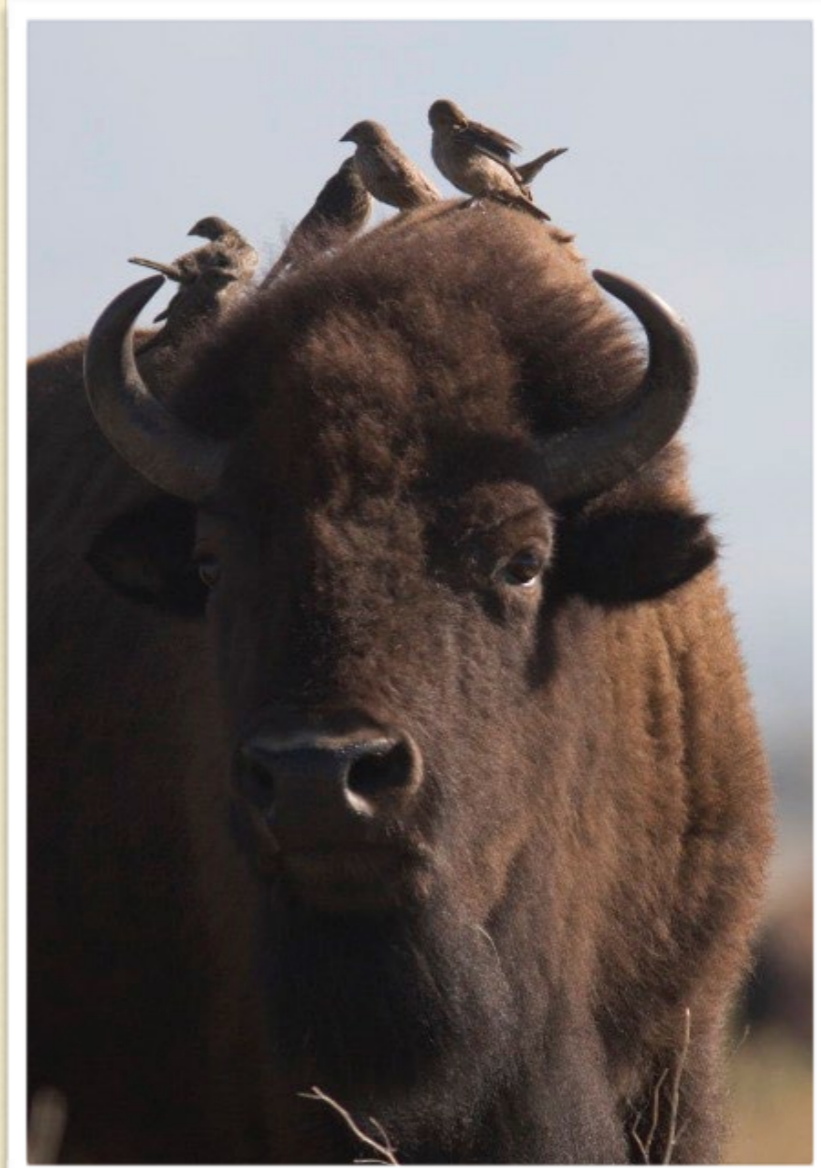
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# SEX: BISON MALE VS. FEMALE

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Male: Less curved horns



Female: More curved horns

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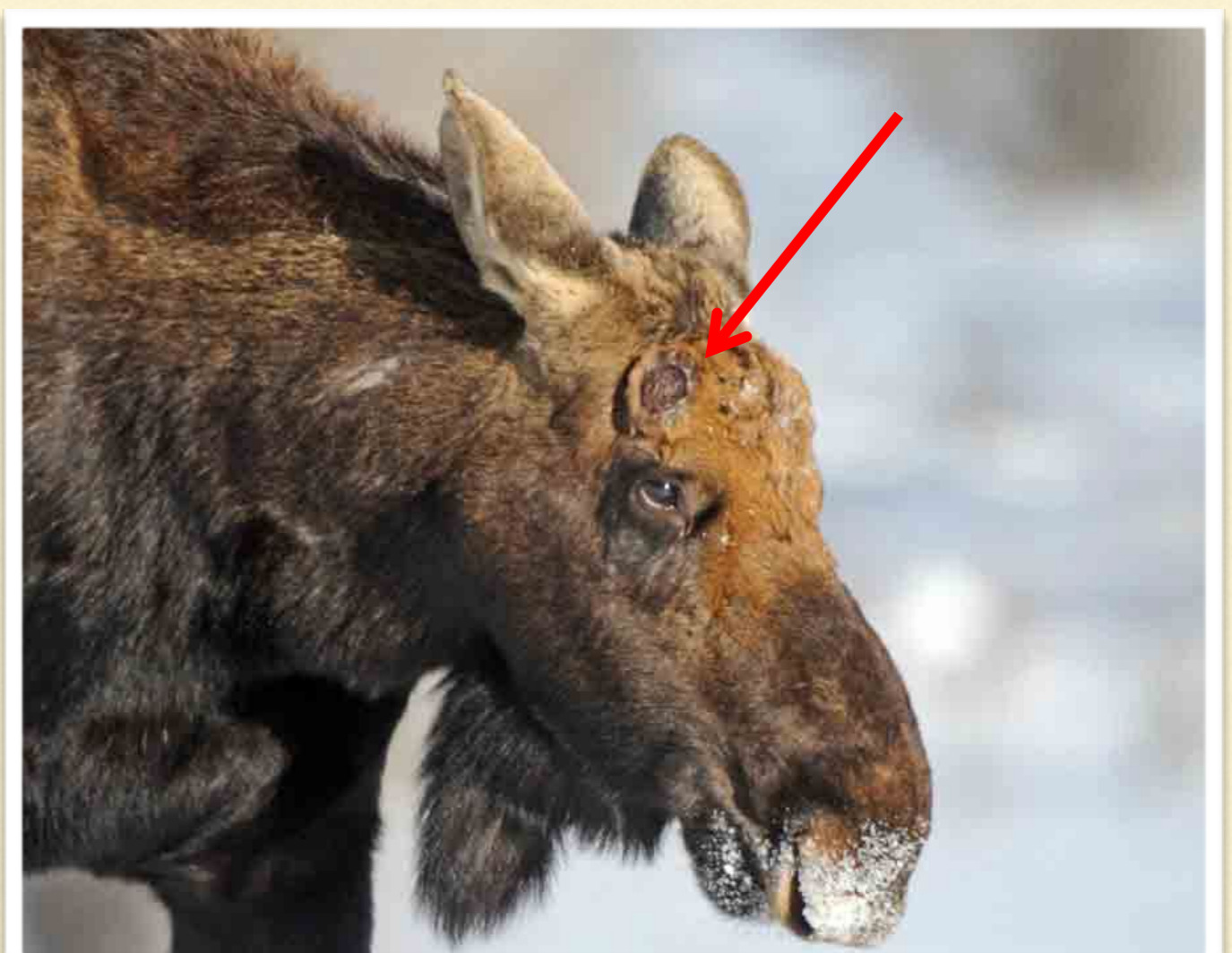
# SEX: BISON



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# SEX: MOOSE MALE

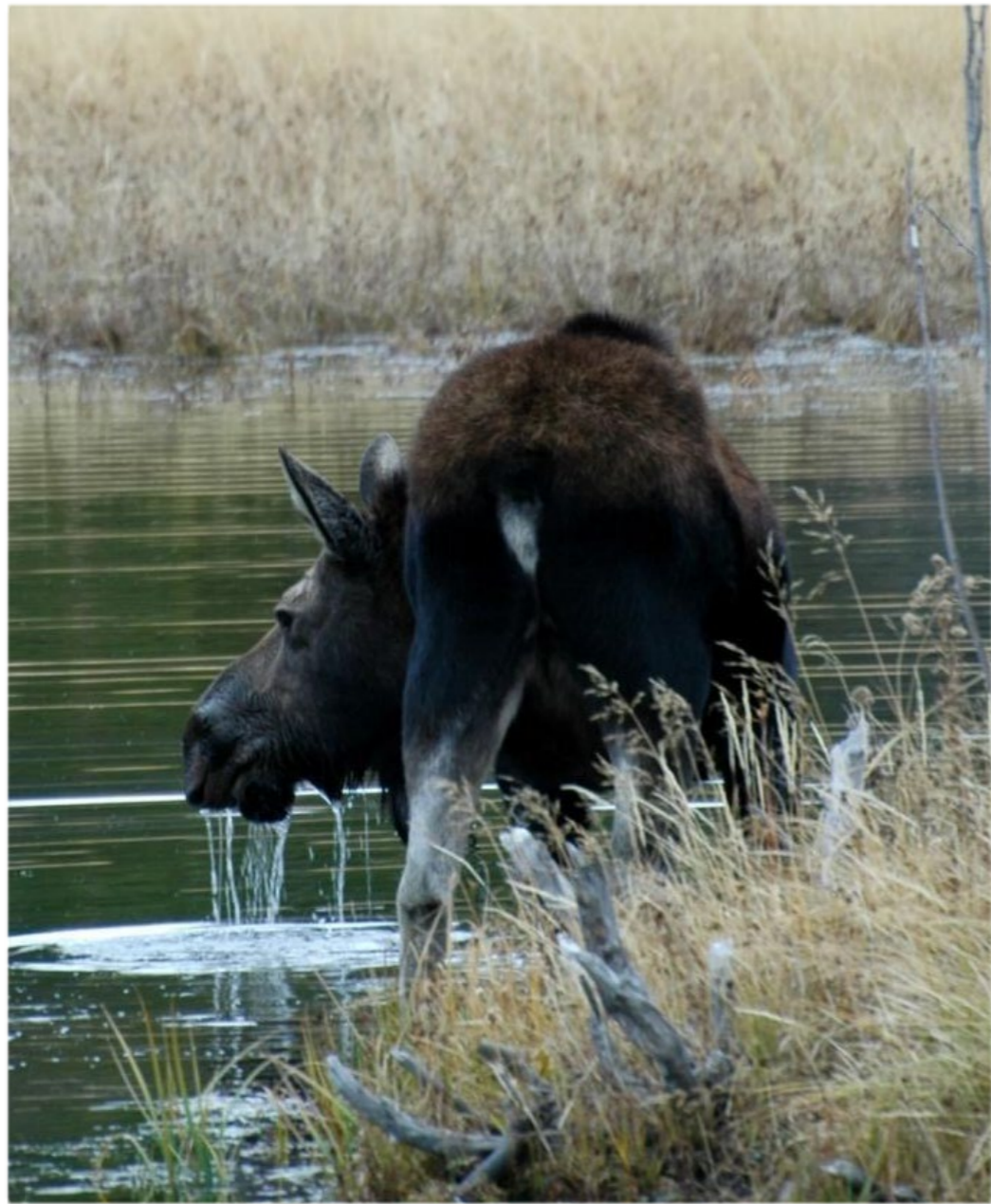
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# SEX: MOOSE FEMALE

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---

# SEX: PRONGHORN

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Male



Female

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# SEX: BARROW'S GOLDENEYE

---



Male

Female

---

---

# SEX: MOUNTAIN BLUEBIRD

---



Male



Female

---

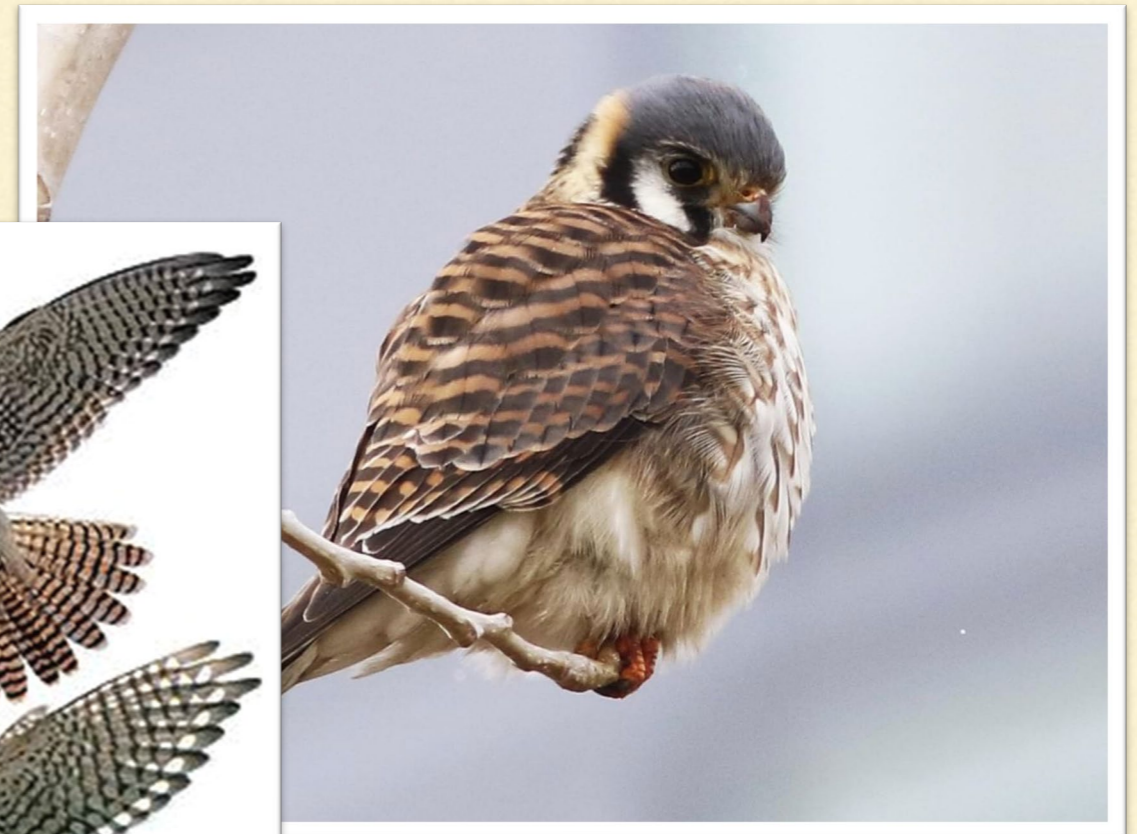
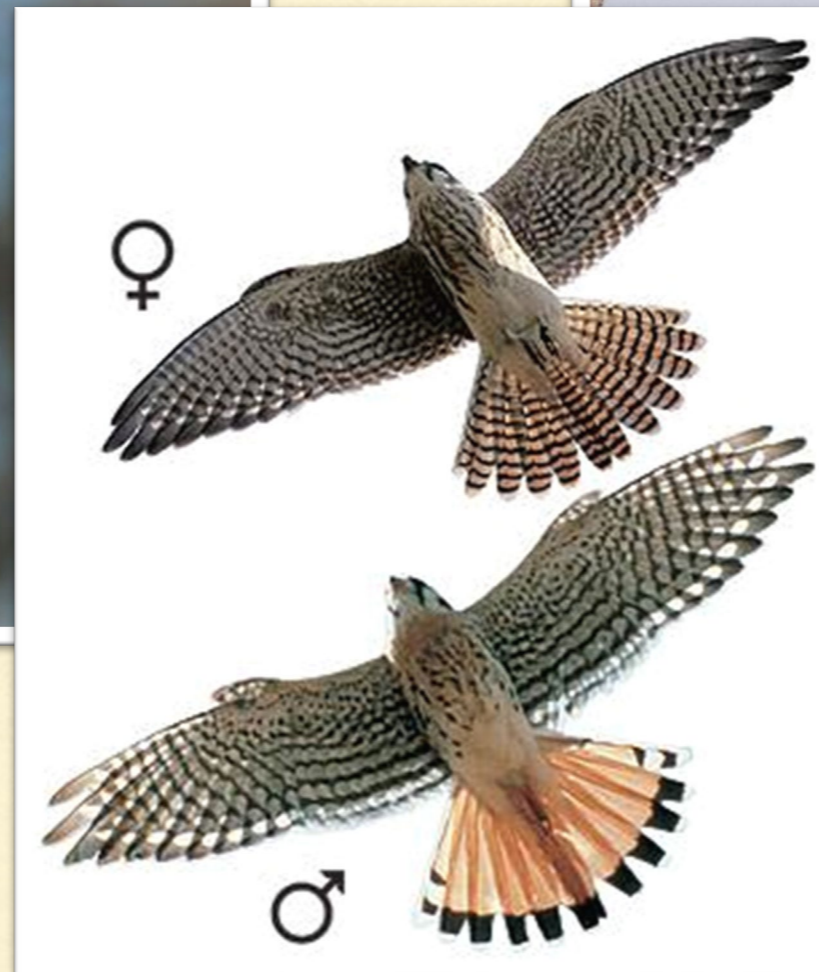
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# SEX: AMERICAN KESTREL

---



Male



Female

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---

# AGE: UNKNOWN/MIXED

---



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

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# AGE: JUVENILES

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



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# AGE: BISON JUVENILE (L) YEARLING (R)

---



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# 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



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# AGE: MOOSE JUVENILE OR ADULT?

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- Moose should be classified as adults or juveniles
- Cannot distinguish yearlings based on size
- Moose pictured right is adult male, even though small



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# ACTIVITY:

---

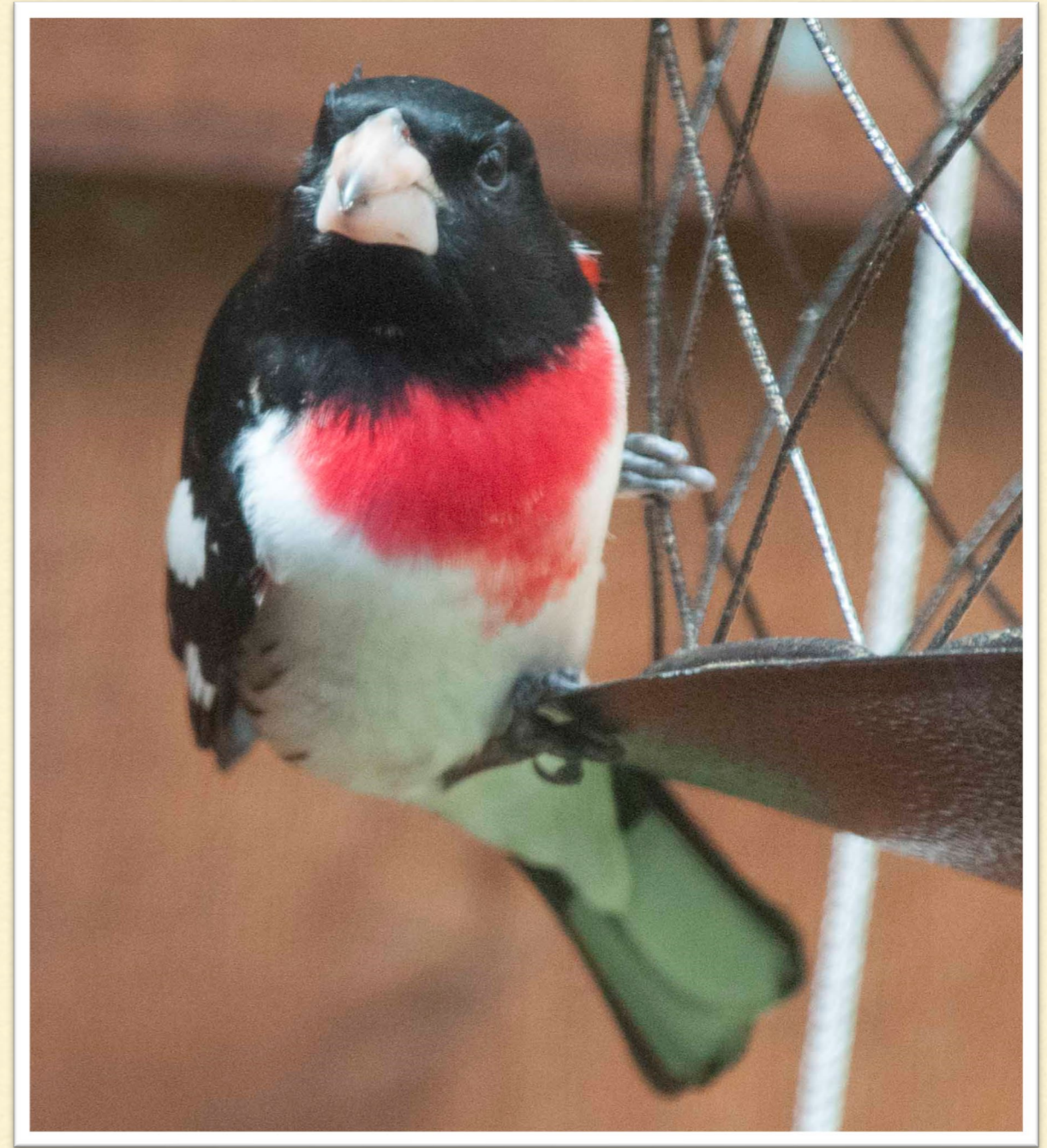
- Resting/roosting
- Feeding
- Standing
- Walking
- Running
- Flying
- Swimming



# 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

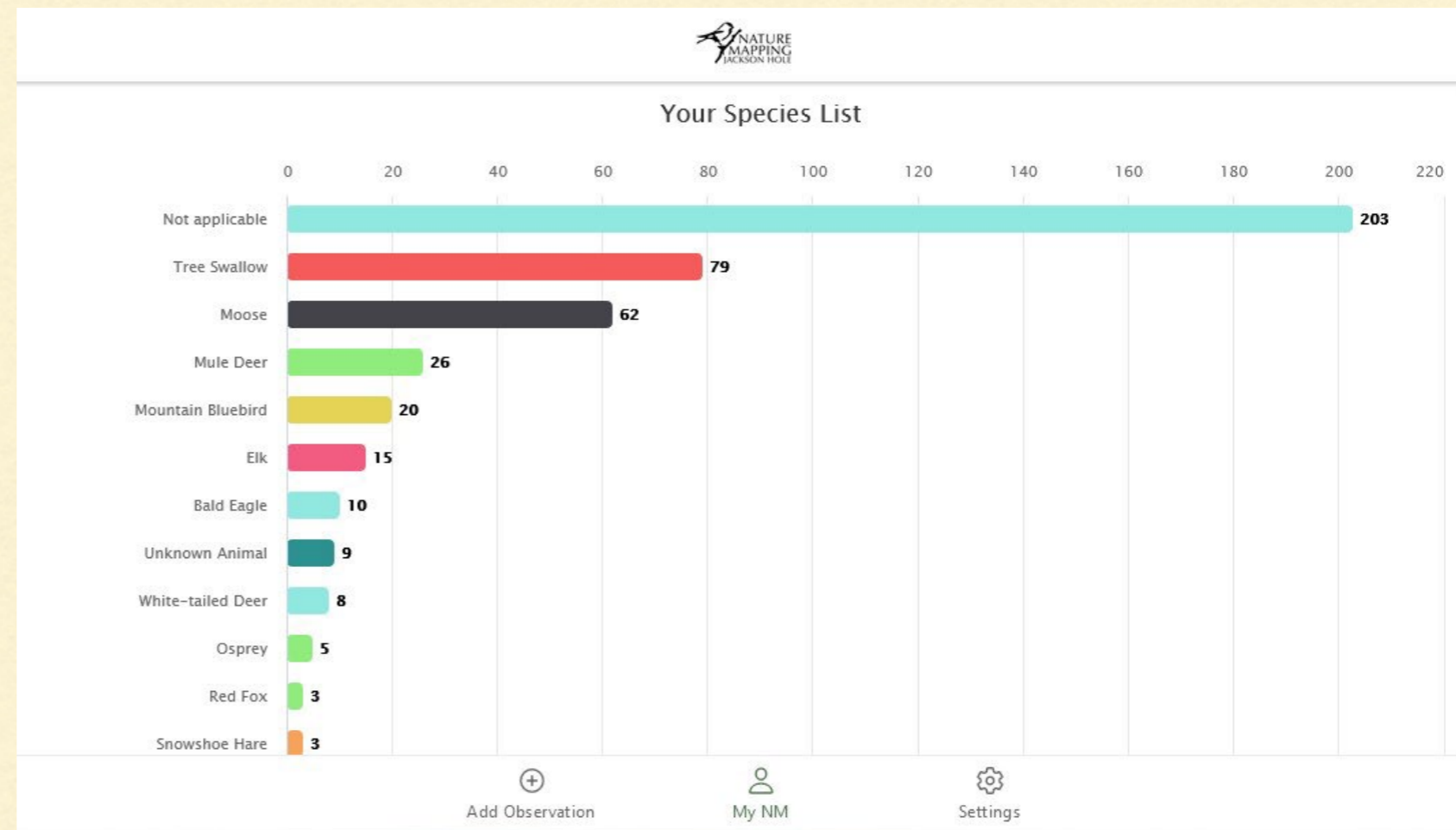
### Submitted Observations

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](#)

[ABOUT US](#) ▾

[PROGRAMS](#) ▾

[LEARN](#) ▾

[BLOG](#)

[SUPPORT US](#)



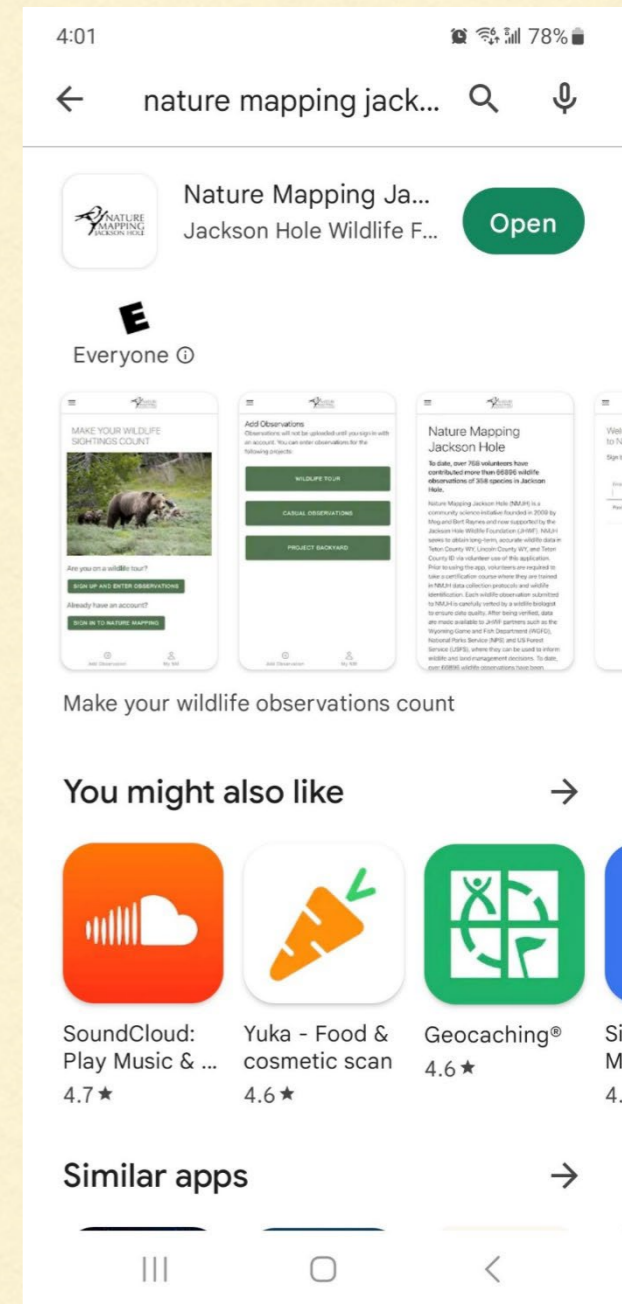
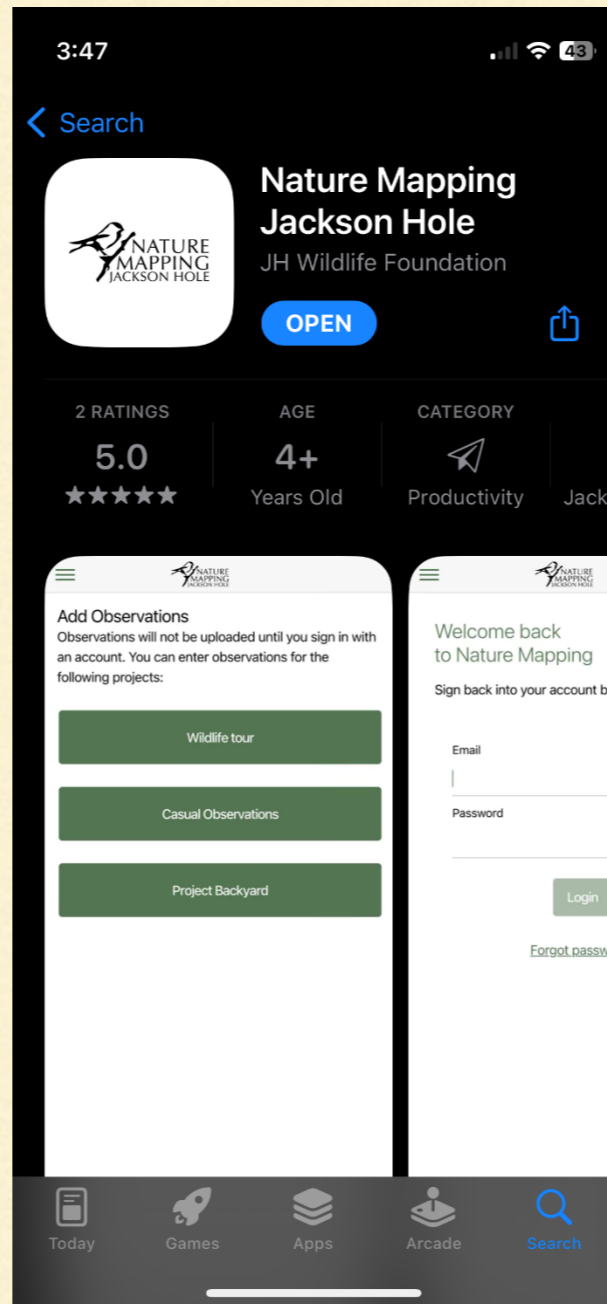
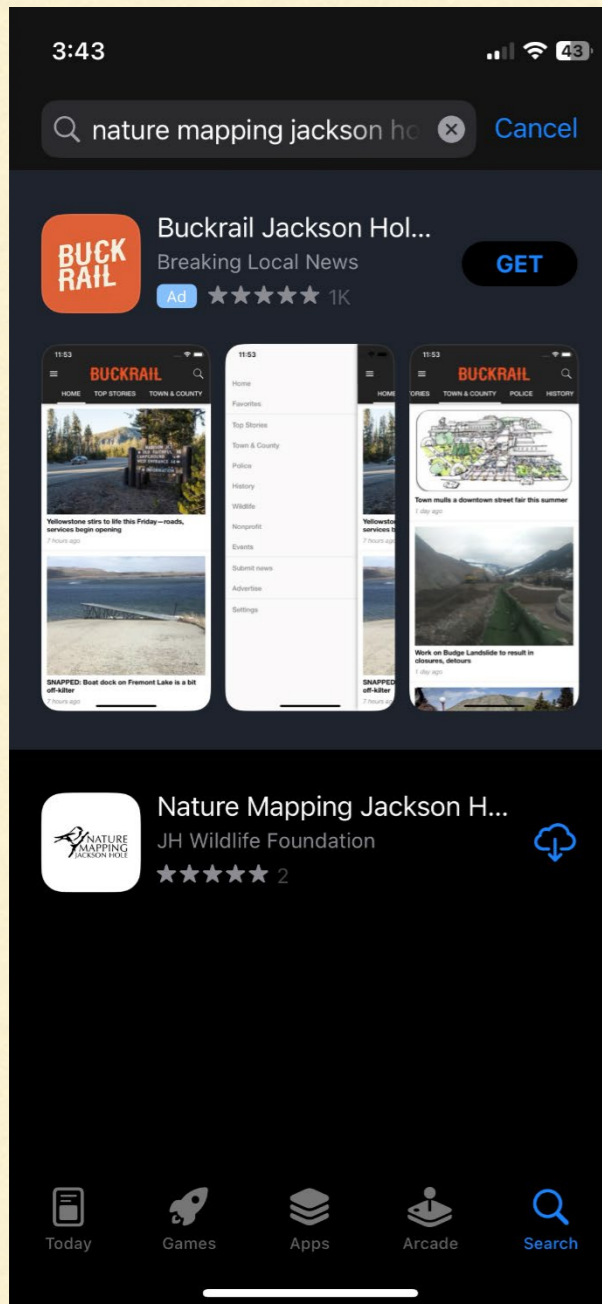
## Thanks for a great year!

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](http://jhwildlife.org)

# FINDING THE NATURE MAPPING APP



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



# LOGGING IN TO NATURE MAPPING

NATURE MAPPING

- + Add Observation
- ✓ Data Verification
- ↓ Data Export
- 🔧 Admin
- 🌐 About
- 📄 Resources

ACCOUNT

- 👤 Sign in
- + Signup

← NATURE MAPPING JACKSON HOLE

Welcome back to Nature Mapping

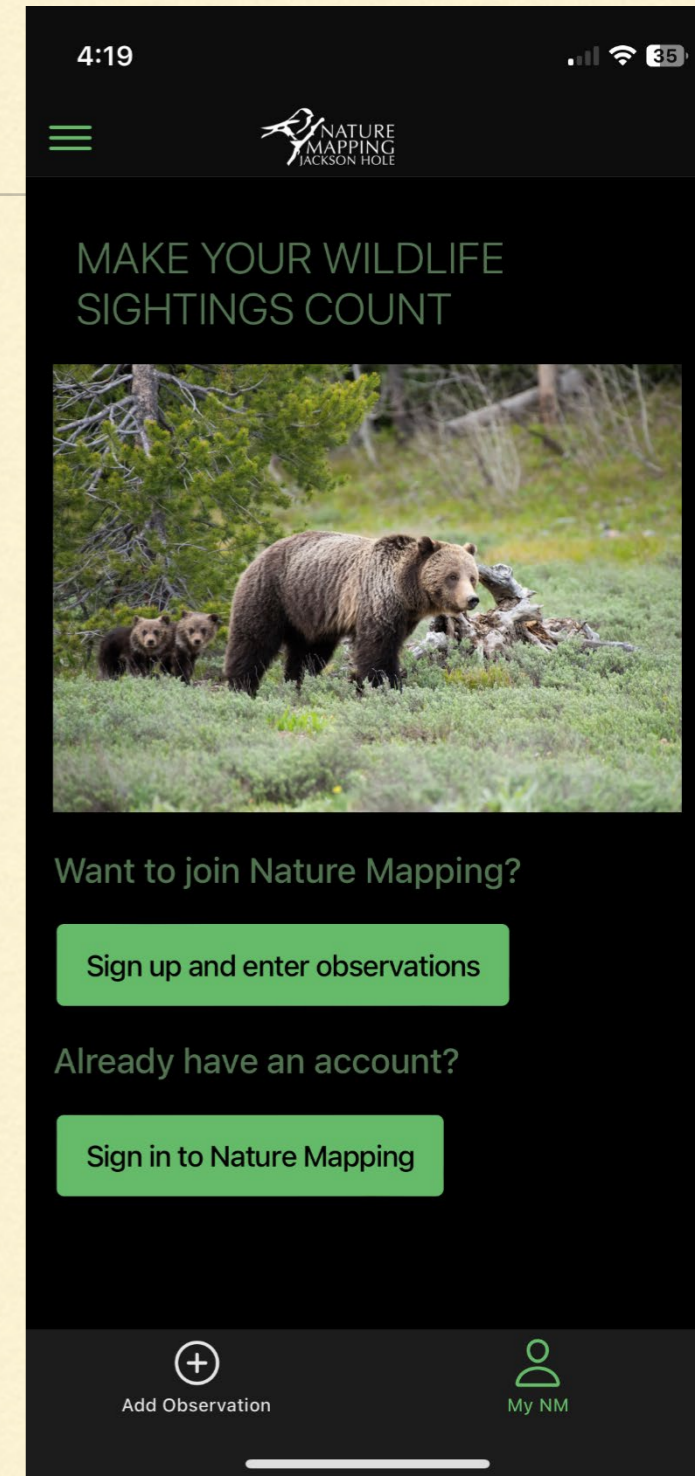
Sign back into your account below.

Email  
hilary@jhwildlife.org

Password

LOGIN

[Forgot password?](#)



**Username (email address)  
and password are case sensitive**

**If logging in for the first time, a Verification  
Code will be sent to your email**

# SETTING UP YOUR PROFILE

**All Observations**

**Mountain Bluebird**

**Game Cameras**

**Data Verification**

**Data Export**

**Admin**

**About**

**Resources**

**ACCOUNT**

**Settings**

**Logout**

<https://naturemapping.jhwildlife.org/dashboard/me>

**Your Address**

To access Project Backyard, enter your address in the search box below and select an address from the provided search options. When you select an address, we will save it and update your account. We will use your home address to get the UTM coordinates of your house to track your observations.

**Address Search**

Enter your address

Street  
3187 South 2000 East

City  
Driggs

State  
ID

Add Observation My NM Settings

4:50 35%

**Your Address**

To access Project Backyard, enter your address in the search box below and select an address from the provided search options. When you select an address, we will save it and update your account. We will use your home address to get the UTM coordinates of your house to track your observations.

**Address Search**

Enter your address

Street  
3187 South 2000 East

City  
Driggs

State  
ID

Postal/zip code  
83422

Add Observation My NM Settings

Add your address to your profile for access to Project Backyard

# RESETTING YOUR PASSWORD

NATURE MAPPING

- + Add Observation
- ✓ My Observations
- 📁 All Observations
- 🐦 Mountain Bluebird
- 📷 Game Cameras
- ✓ Data Verification
- 📄 Data Export
- 🛠 Admin
- 🌐 About
- 📄 Resources

ACCOUNT

- ⚙ **Settings**
- 👤 Logout

---

## Change Email

Your Email

hilary@jhwildlife.org

**UPDATE EMAIL**

---

## Change password

Old Password

.....

New Password

.....

Passwords must be 8 characters and include numbers and special characters.

Confirm New Password

.....

**CHANGE PASSWORD**

4:50

NATURE MAPPING JACKSON HOLE

## Change password

Old Password

New Password

Passwords must be 8 characters and include numbers and special characters.

Confirm New Password

**Change Password**

---

## Delete account

If you would like to delete your account, click

+ Add Observation   My NM   **⚙ Settings**

---

Your turn!

Enter an observation you brought to class



# RESOURCES: GUIDE BOOKS



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# RESOURCES: NMJH E-NEWS

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# Enews

January 2021

 NATURE  
MAPPING  
JACKSON HOLE

# 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**

## 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

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

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 ▾

PROGRAMS ▾

LEARN ▾

BLOG

SUPPORT US



## 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](https://naturemapping.jhwildlife.org) or use one of the links provided on this website. The links and resource materials on this page

Donate



### NMJH Program Goals

- Keeping common



# RESOURCES: JHWF YOUTUBE

The screenshot displays the YouTube channel page for JHWF. The navigation bar includes Home, Shorts, Subscriptions, Library, History, Your videos, Watch later, Liked videos, and Show more. The channel name 'JHWF' is visible in the top right corner. The video grid contains the following items:

- Game Camera Footage of Wildlife Utilizing the Teton...** (0:54, 14 views • 5 months ago)
- Amphibian and Reptile Continuing Education...** (1:07:45, 53 views • 5 months ago)
- Elk Crossing at Wilson Bridge Ad** (0:16, 24 views • 6 months ago)
- Antelope Crossing** (1:52, 19 views • 6 months ago)
- The Pow Can Wait Ad** (7 views • 6 months ago)
- Slow Down Ad** (0:06, 34 views • 6 months ago)
- Elk herd moving through winter closure zone** (0:10, 66 views • 6 months ago)
- Beginning Birding Class with Hilary Turner** (1:39:38, 98 views • 7 months ago)
- Snake River Corridor Film Teaser** (0:49, 3 views • 7 months ago)
- The Snake River Corridor Project** (6:28, 162 views • 7 months ago)

At the bottom of the page, a Google Docs link is visible: <https://docs.google.com/document/d/1Cg8726PLnZfKamF9AXv1NYL6RLnwjJ70KeE7RoIYF0k/edit?ts=60f6ff98#>

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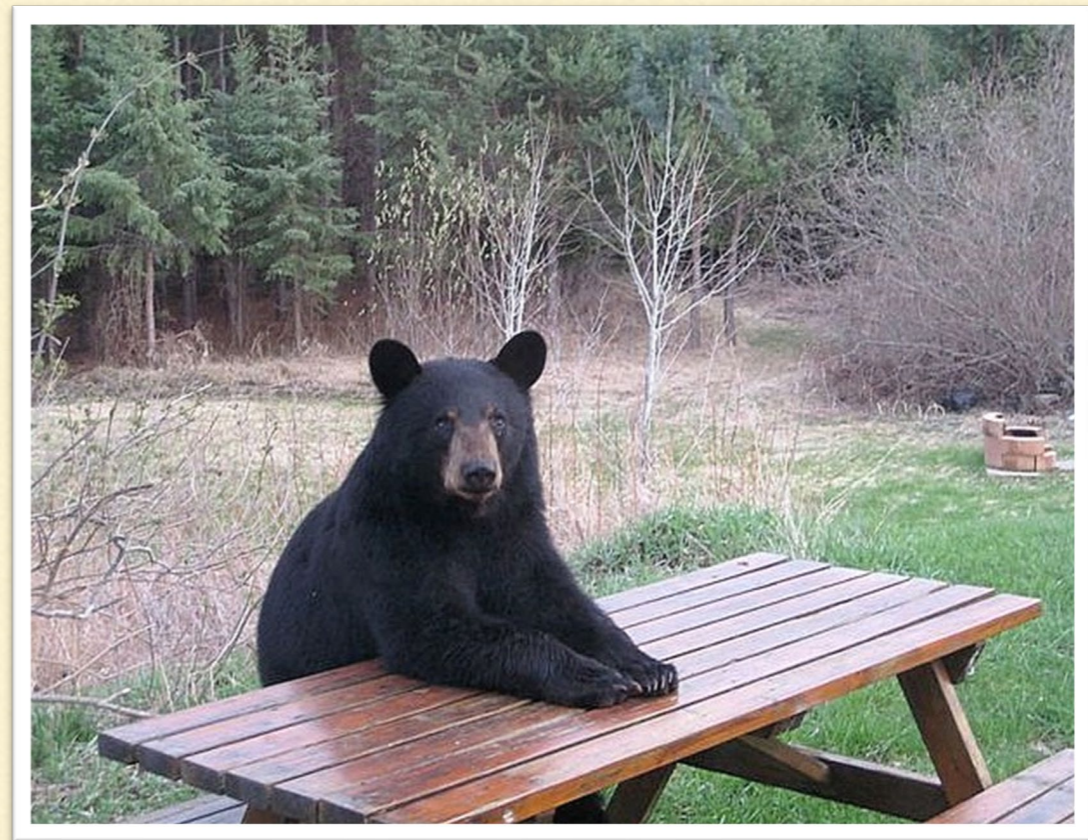
# RESOURCES: NMJH COMMUNITY

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# THANK YOU FOR BECOMING CERTIFIED NATURE MAPPERS!



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

– John Muir

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