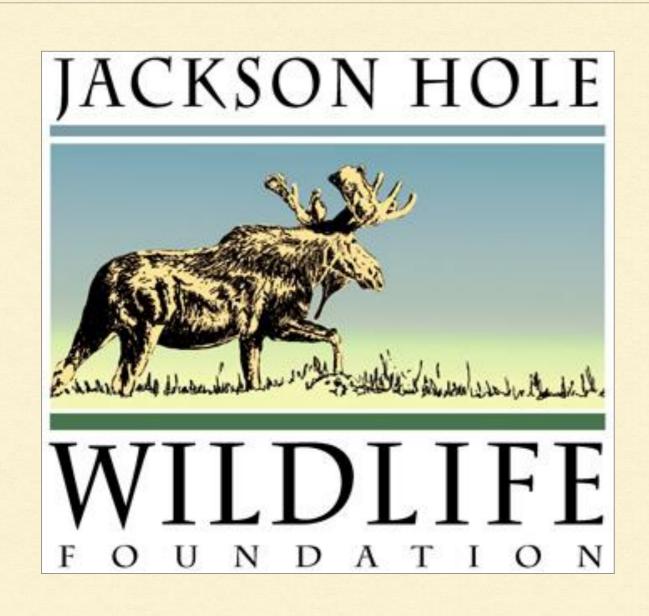
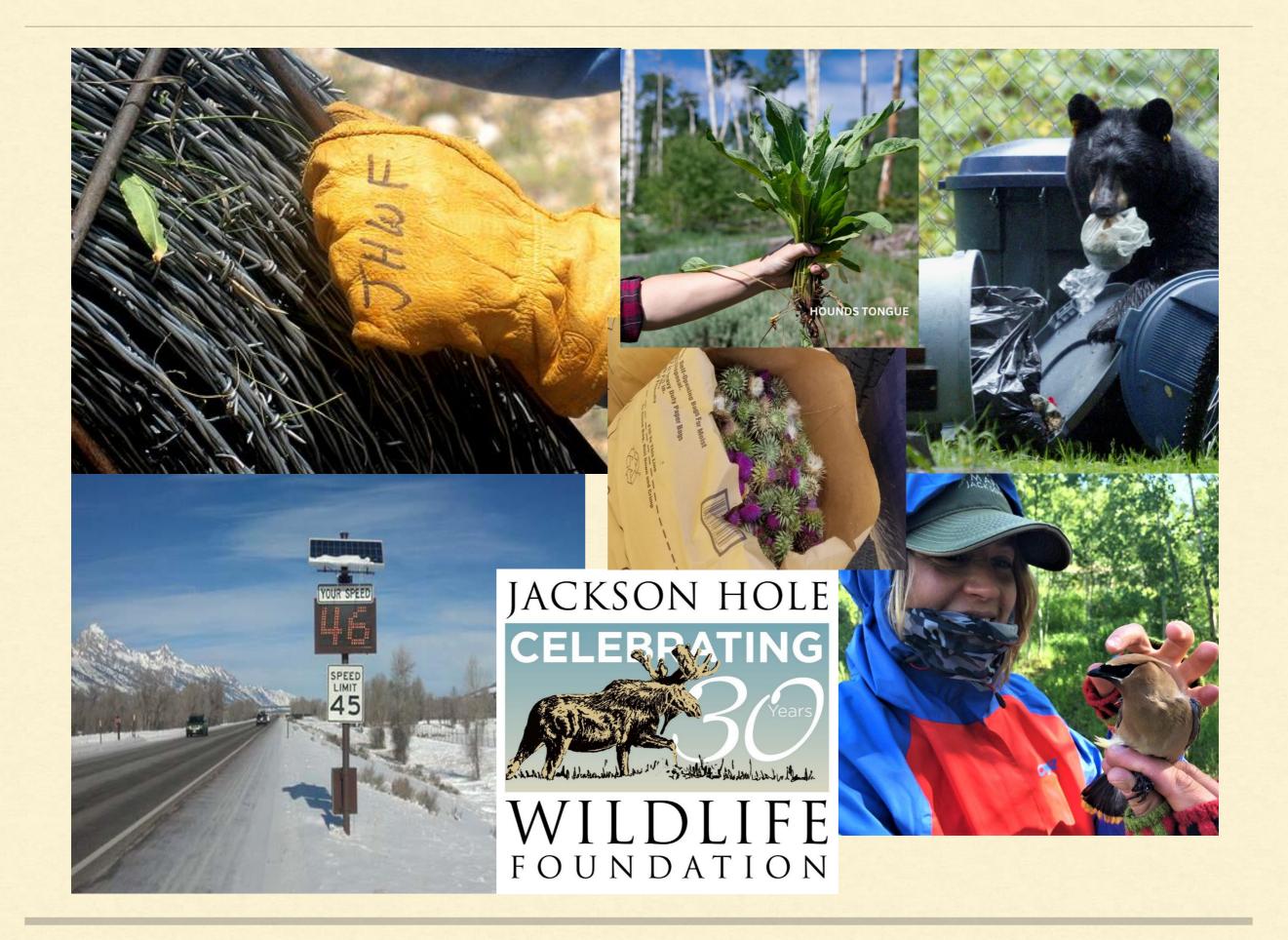


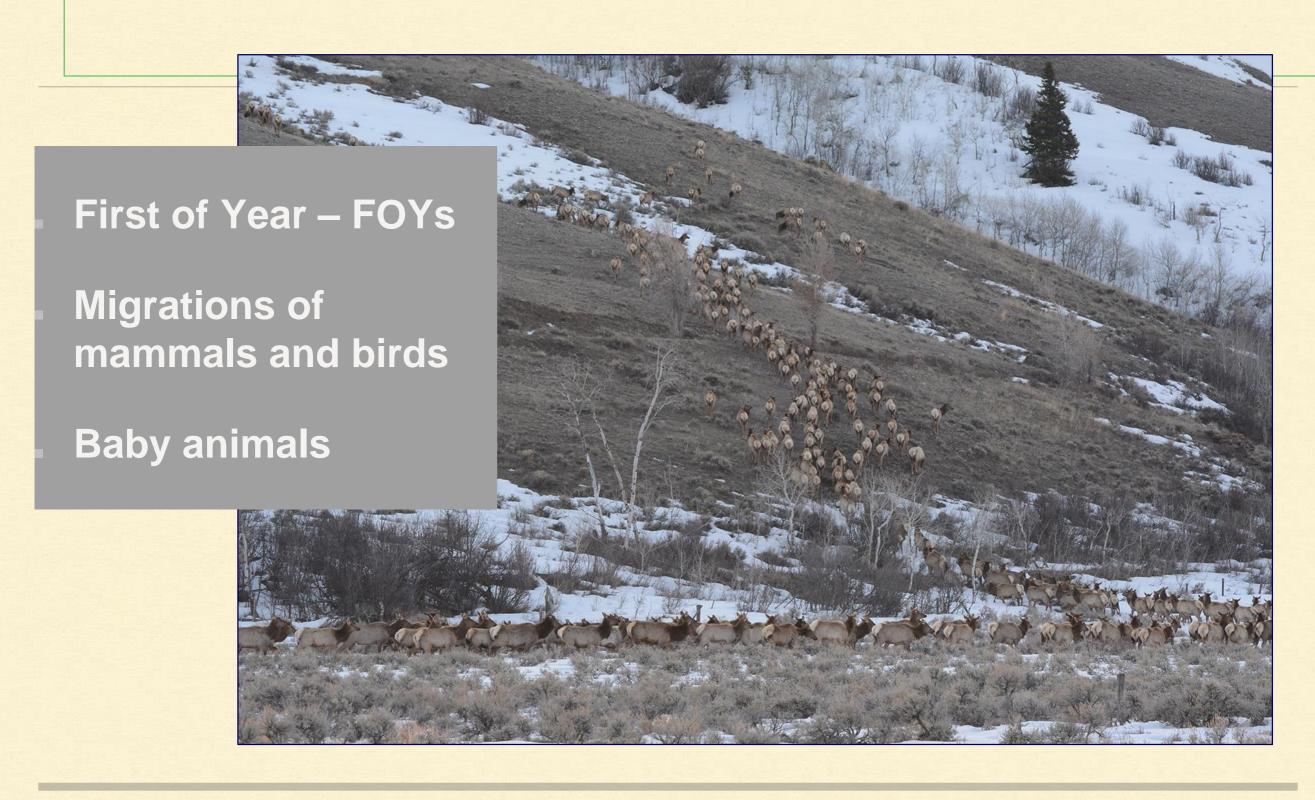
THE JACKSON HOLE WILDLIFE FOUNDATION



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



SPRING - GREAT TIME TO START



OBJECTIVES FOR TODAY

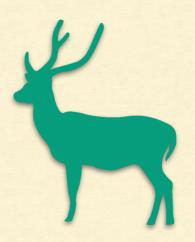
Understand the importance of accurate observations

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:

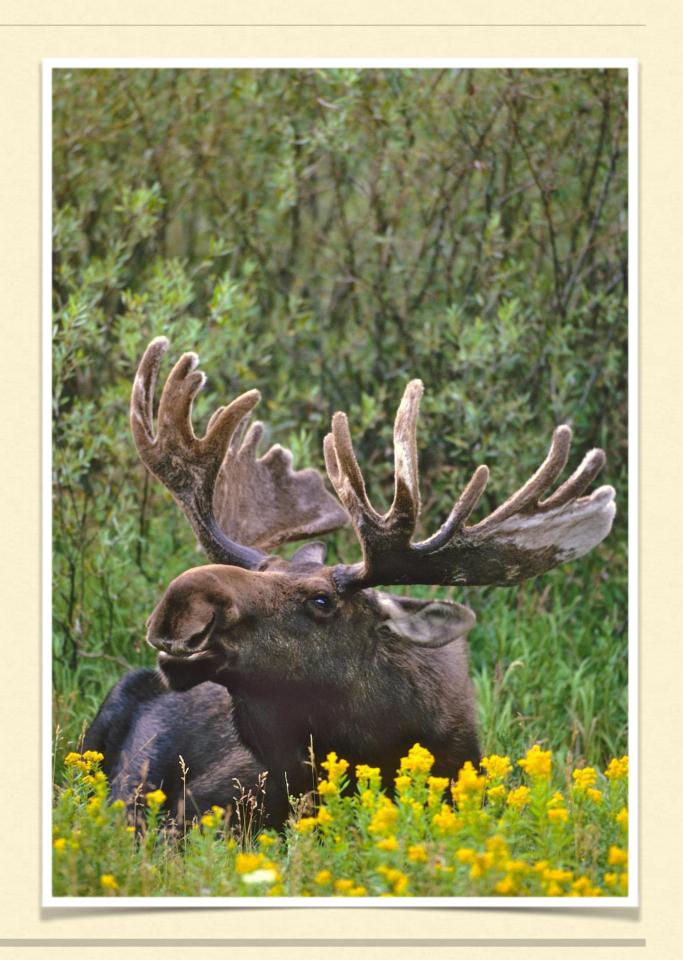
Keeping common species common (studying all species not just high-profile species or species of concern)

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



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 and sent off at the end of the year or pulled for partners as needed



WHEN IN DOUBT, LEAVE IT OUT!

PRIVATE LAND CONSIDERATIONS

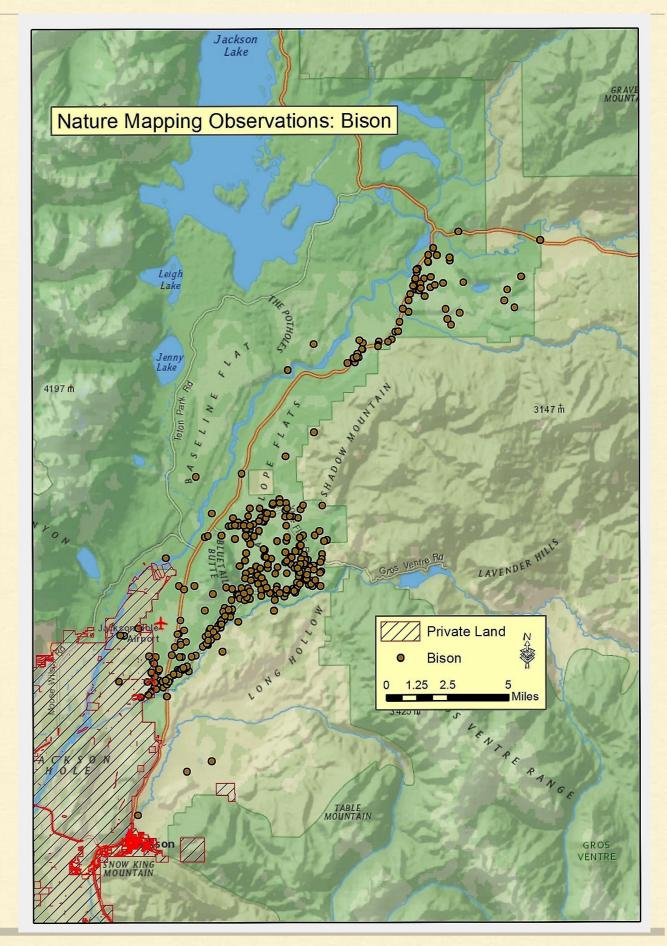
- Please do not trespass on private lands, view from the road or friend's property.
- Ask the owner if you can Nature Map a species.
- Always be courteous you are a Nature Mapper ambassador.
 PRIVATE

PROPERTY

If in doubt, please stay out.

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
- LDR and NRO Amendment



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)



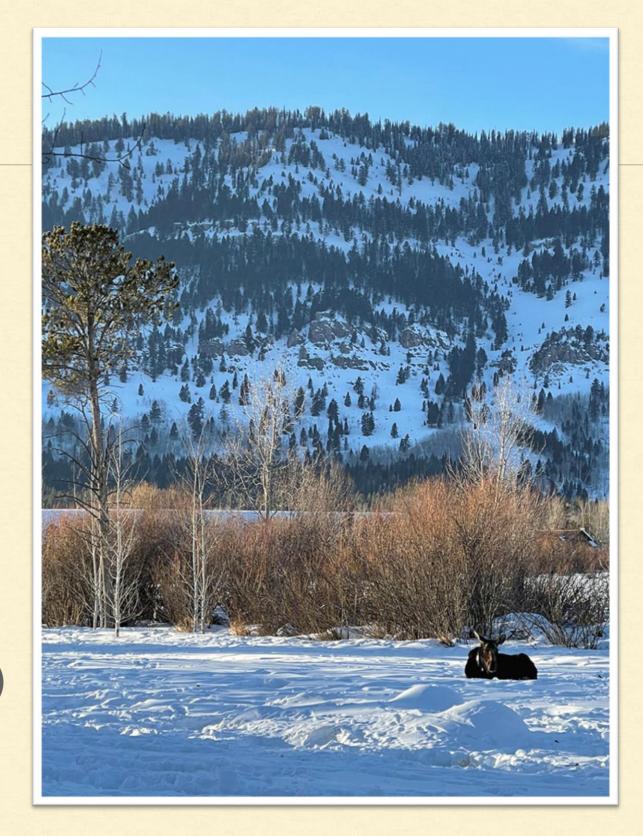
PROJECT BACKYARD

- 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





MAPS (MONITORING AVIAN PRODUCTIVITY AND SURVIVORSHIP)





FUNDAMENTALS OF OBSERVATIONS

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



SPECIES ID, DETAILS, AND DEFINITIONS



SPECIES ID: SQUIRRELS



Uinta Ground Squirrel – "Chisler"

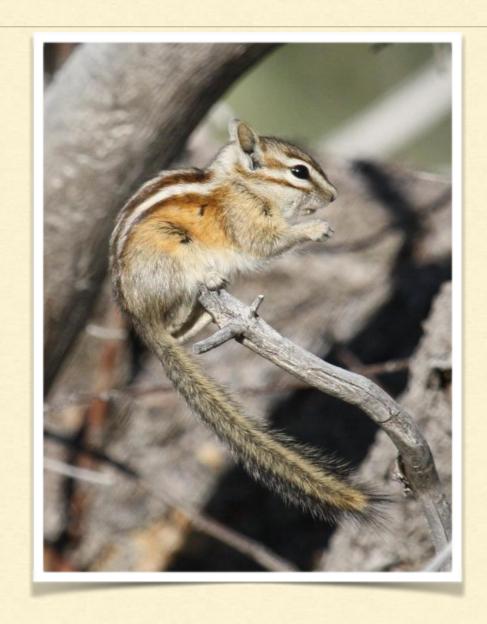


Golden Mantled Ground Squirrel

SPECIES ID: RED SQUIRREL



SPECIES ID: CHIPMUNKS



Least Chipmunk



Yellow Pine Chipmunk

SPECIES ID: AMERICAN BADGER



SPECIES ID: WOLVERINE



SPECIES ID: GRIZZLY AND BLACK BEARS

Know your bears!



Color and Size can be misleading.

Look for a combination of characteristics.

SPECIES ID: WOLVES AND

Smaller proportionally, Wolf rounded ears Blocky snout 5-6 feet long (nose to tail) 50-100 pounds Large, pointed ears Coyote Pointed snout 3-5-4.5 feet long (nose to tail) 25-45 pounds

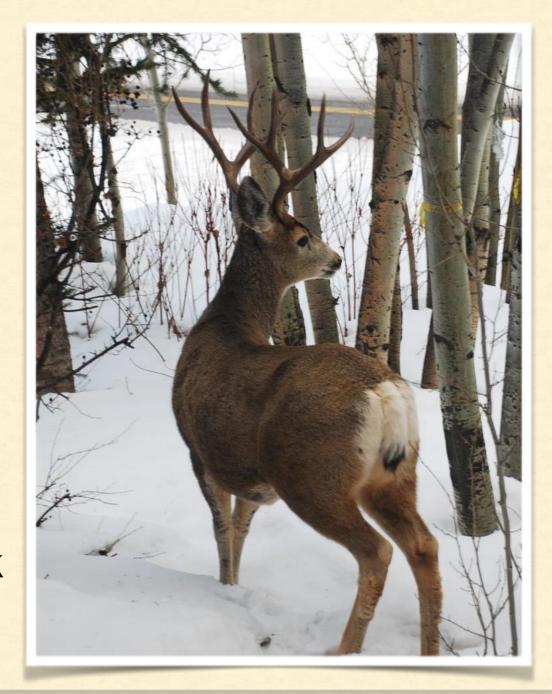
Know your Canids!



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



SPECIES ID: WHITE-TAIL VS. MULE



Main beam with single, vertical points

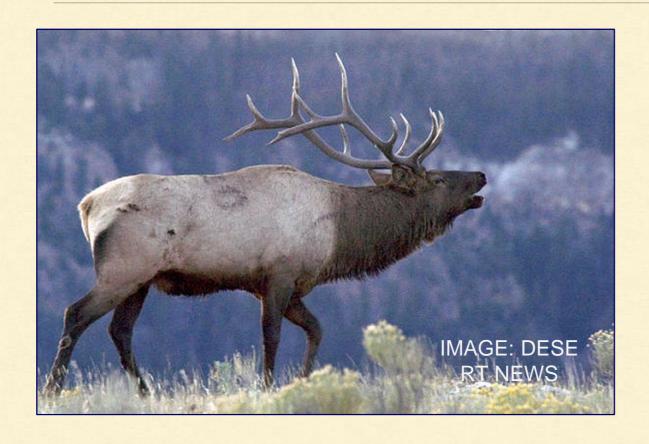


Antler with multiple forks

WHITE-TAIL VS. MULE DEER DOES



SPECIES ID: ELK





1. Long main beam with tines 2. Shaggy dark mane3. Buffy rump

SPECIES ID: ELK





SPECIES ID: MOOSE







SPECIES ID: TUNDRA SWAN



SPECIES ID: BARROW'S GOLDENEYE



SPECIES ID: COMMON GOLDENEYE



SPECIES ID: RAPTORS OF JH









SPECIES ID: GREAT GRAY OWL



Photo by Henry Holdsworth

1. Concentric Facial Rings

2. No ear tufts

3. Overall Grayish Color

SPECIES ID: GREAT HORNED OWL



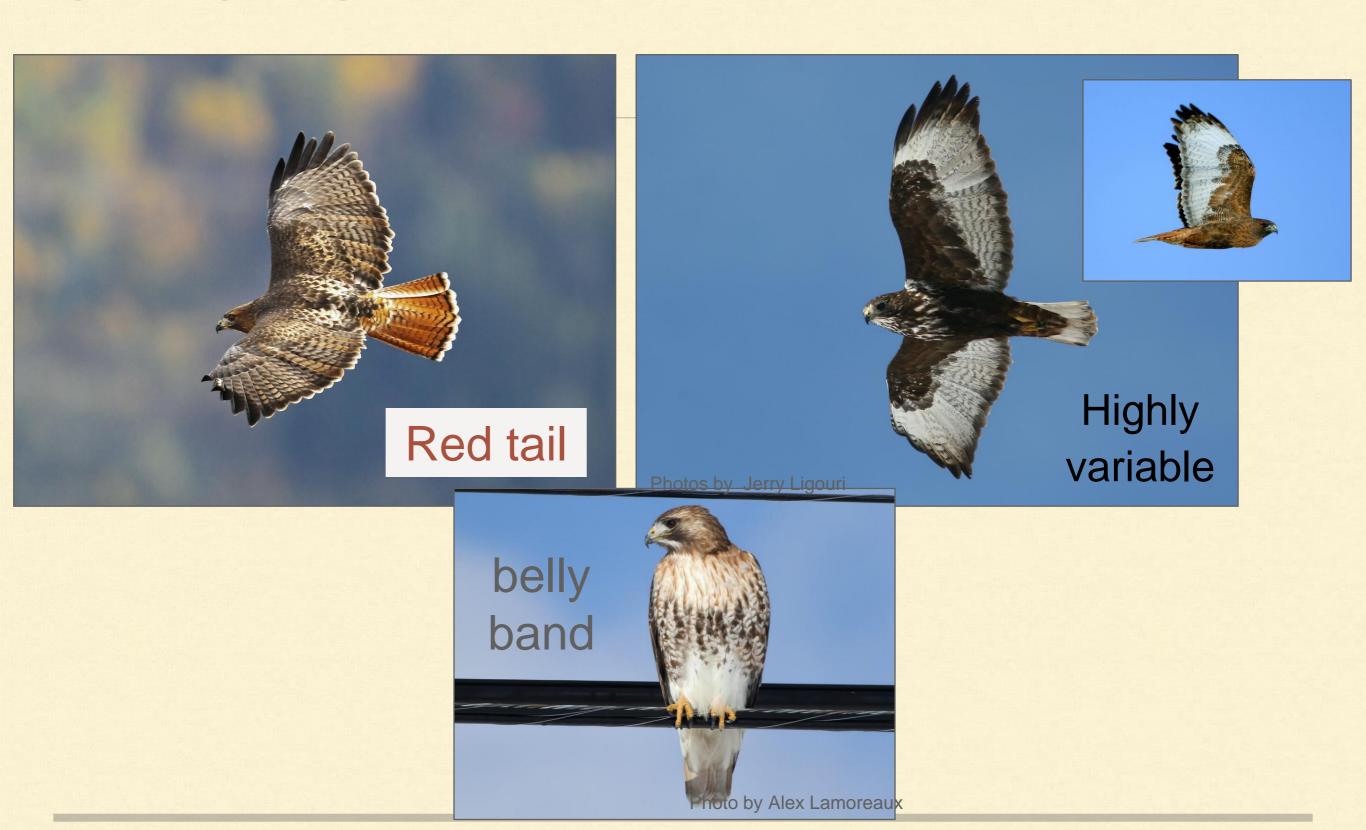


face

2.Ear tufts (may be lowered)

3. Brownish color, but variable

SPECIES ID: RED-TAILED HAWK

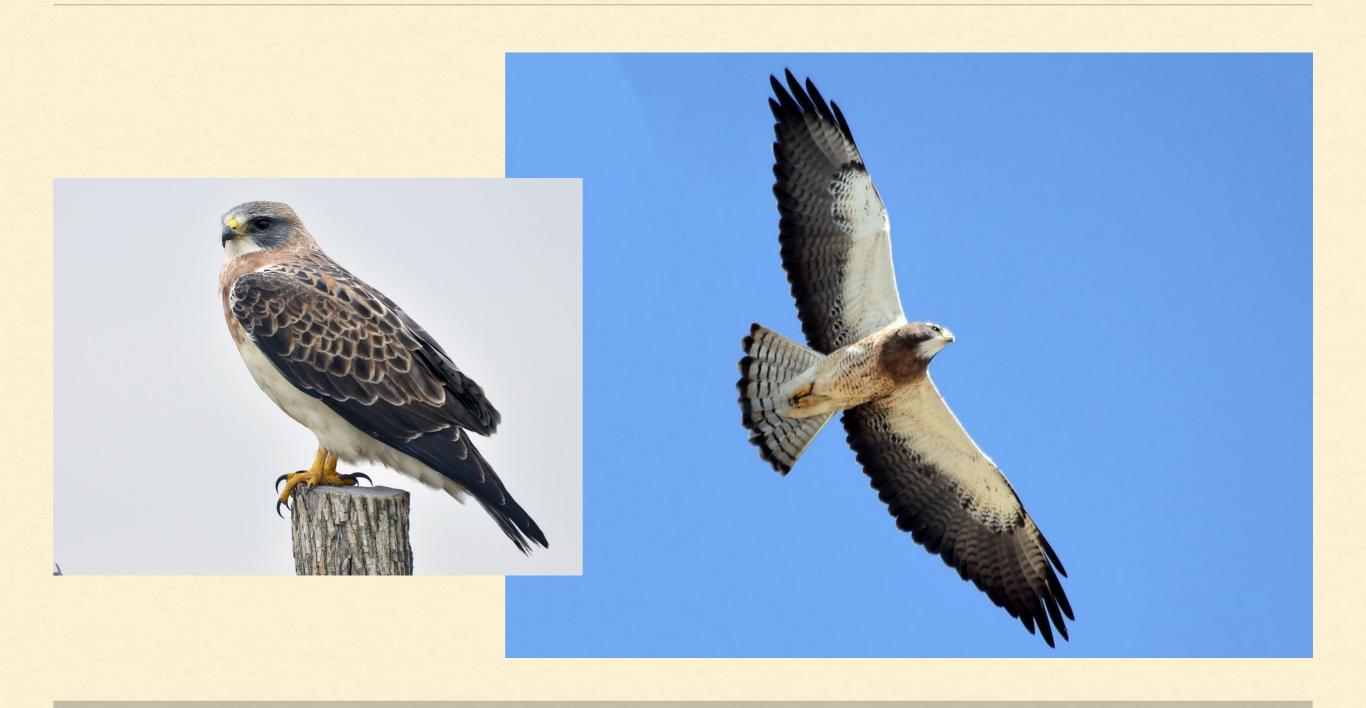


Red-tailed Hawk





SPECIES ID: SWAINSON'S HAWK



SPECIES ID: BALD EAGLE







SPECIES ID: GOLDEN EAGLE



WHICH EAGLE IS WHICH?



SPECIES ID: CHICKADEES





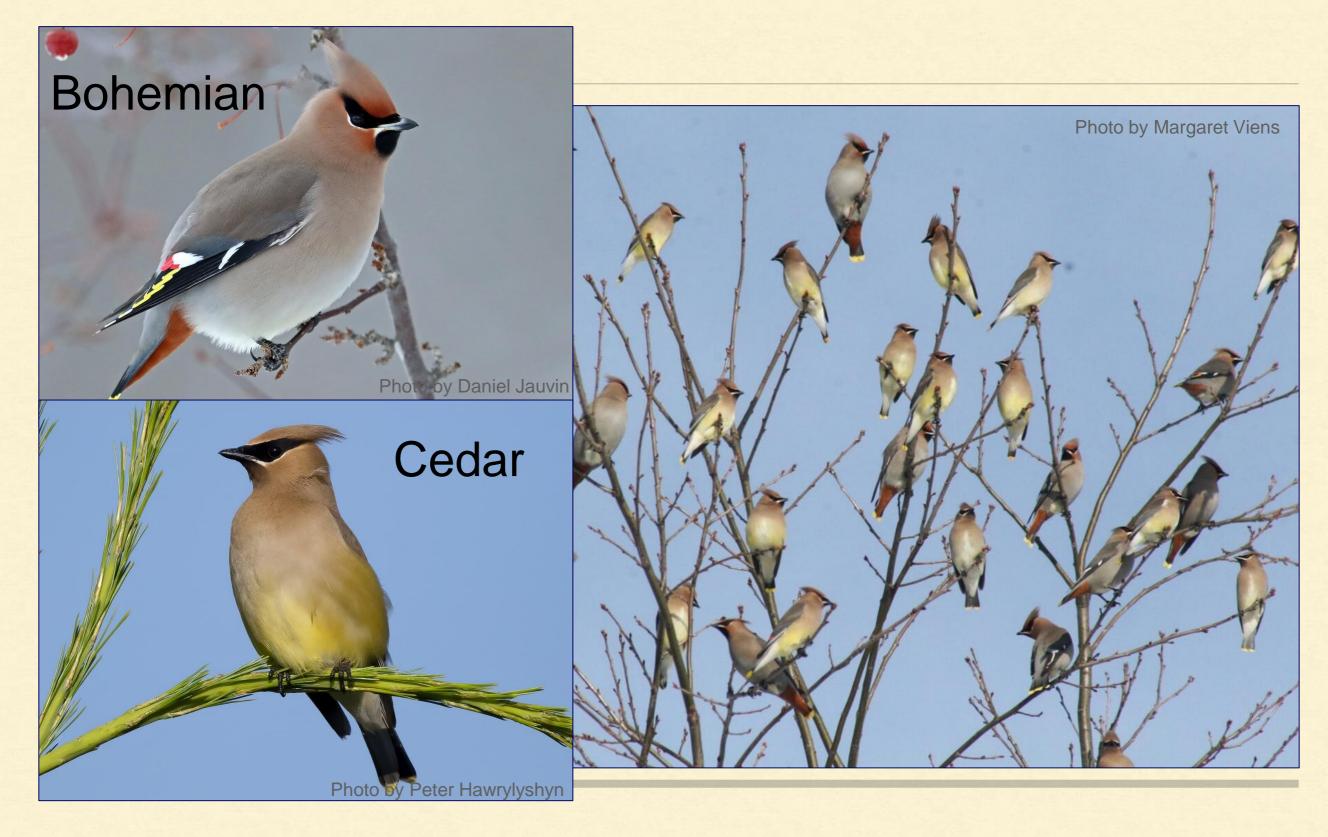
Black-capped

Mountain

SPECIES ID: WESTERN MEADOWLARK



SPECIES ID: WAXWINGS



SPECIES ID: BLACK ROSY-FINCH



SPECIES SEX ID

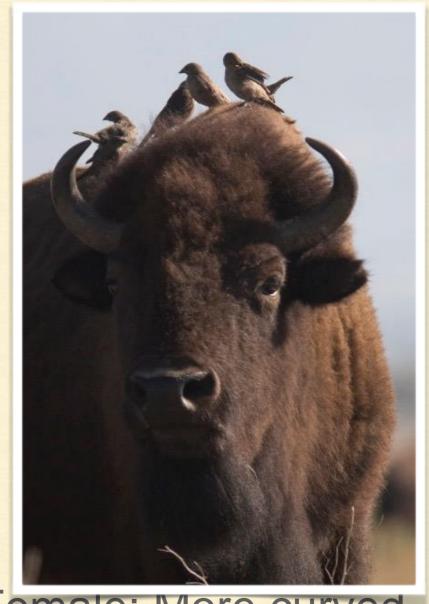
- Ways to identify male versus female
- Not all animals sex can be identified

SEX: BISON MALE VS. FEMALE



Male: Less curved

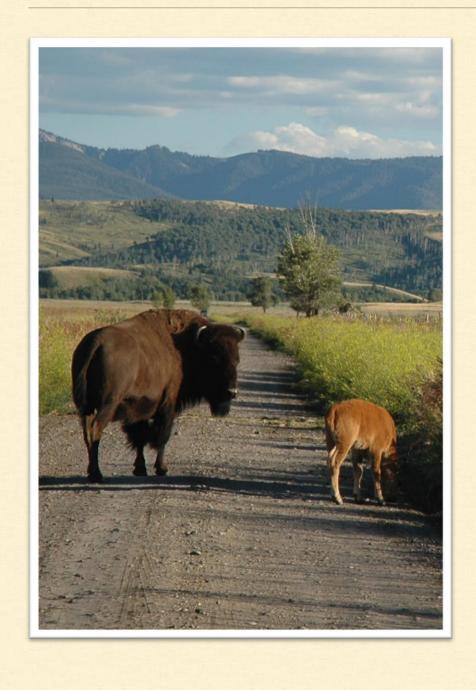
horns



Female: More curved

horns

SEX: BISON



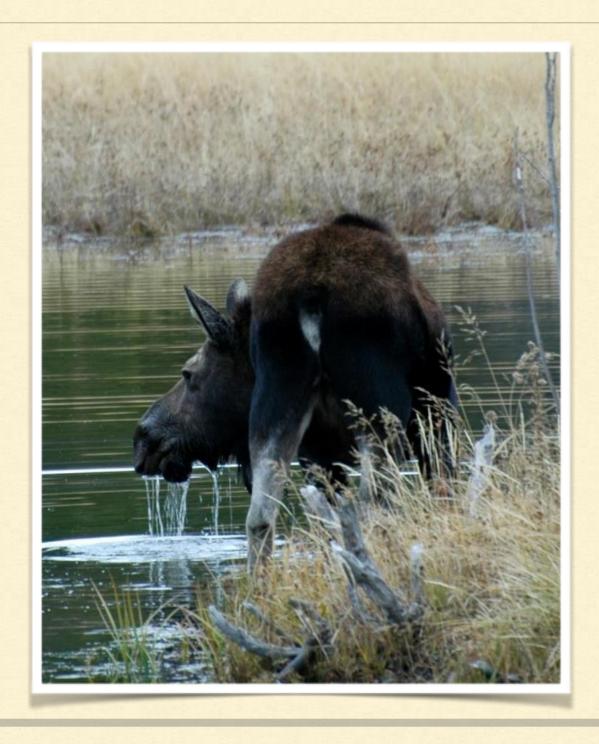


SEX: MOOSE MALE





SEX: MOOSE FEMALE

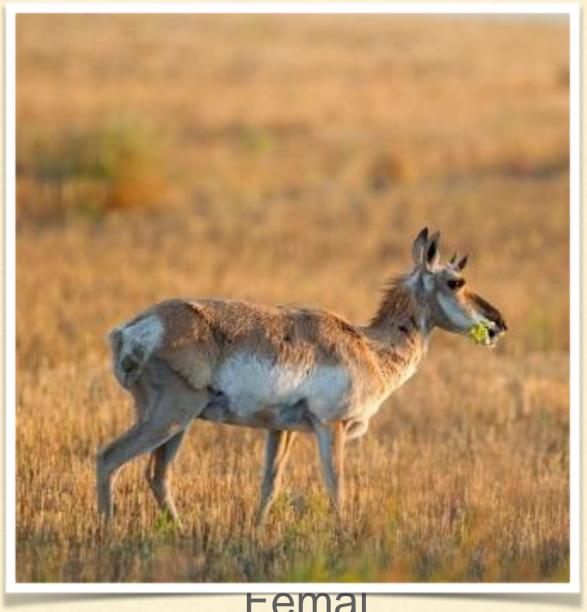




SEX: PRONGHORN



Male



remar

SEX: BARROW'S GOLDENEYE



Male Female

SPECIES ID: COMMON GOLDENEYE



Female Male

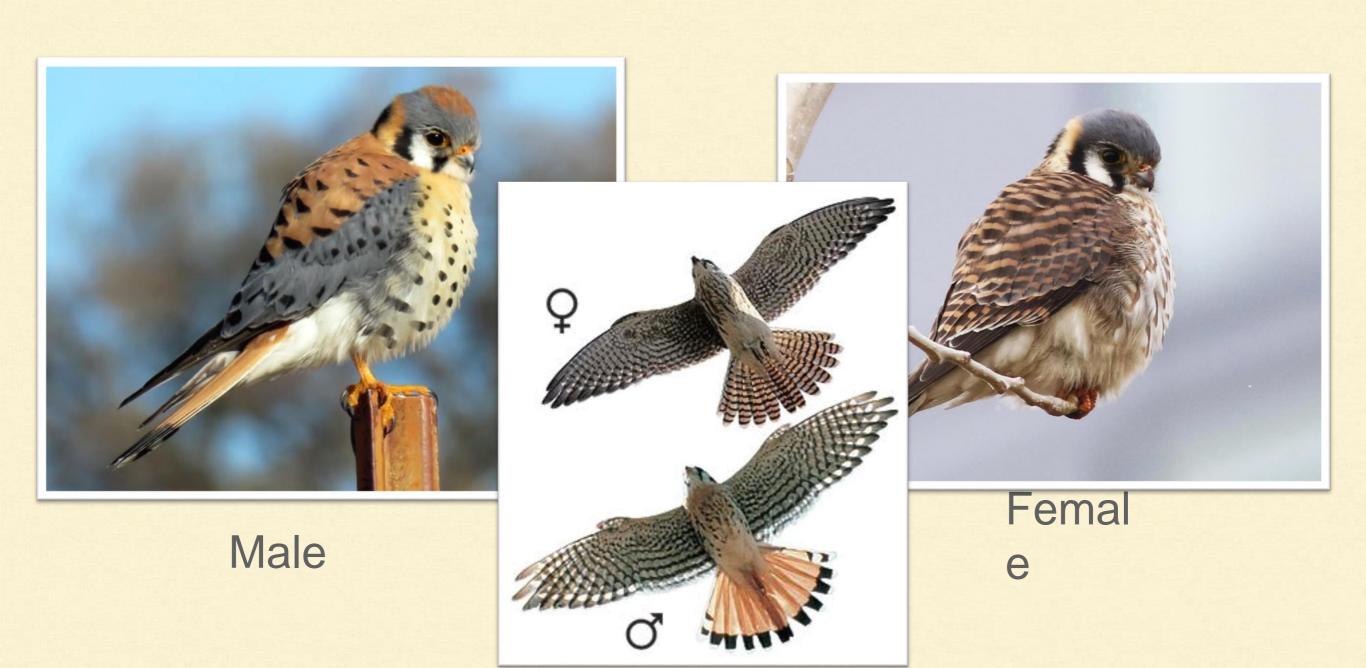
SEX: MOUNTAIN BLUEBIRD





Male Female

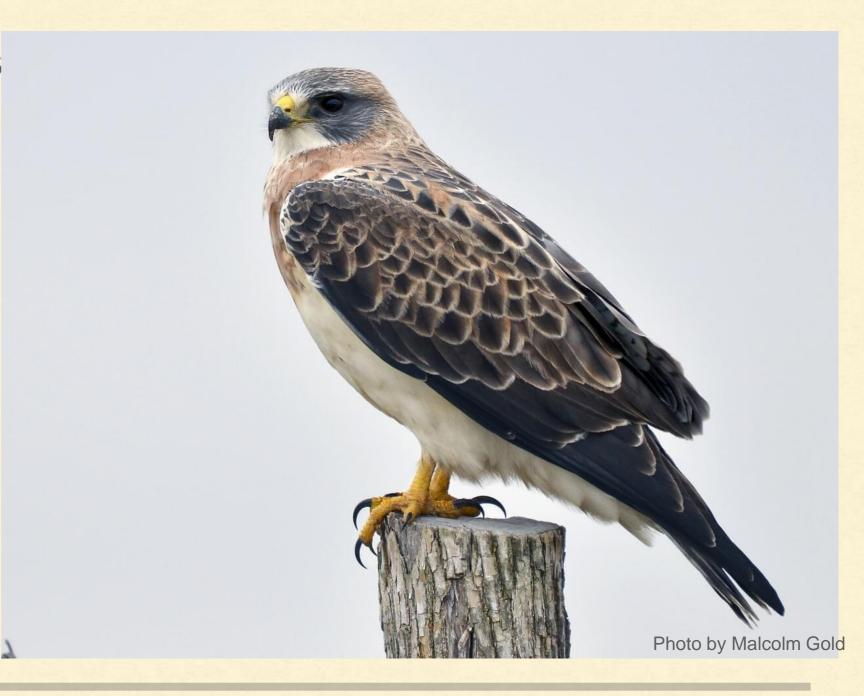
SEX: AMERICAN KESTREL



SEX: UNKNOWN

The sex of many species cannot be determined or observed:

- Squirrels
- Swans
- Snakes
- Many songbirds and raptors



SPECIES AGE

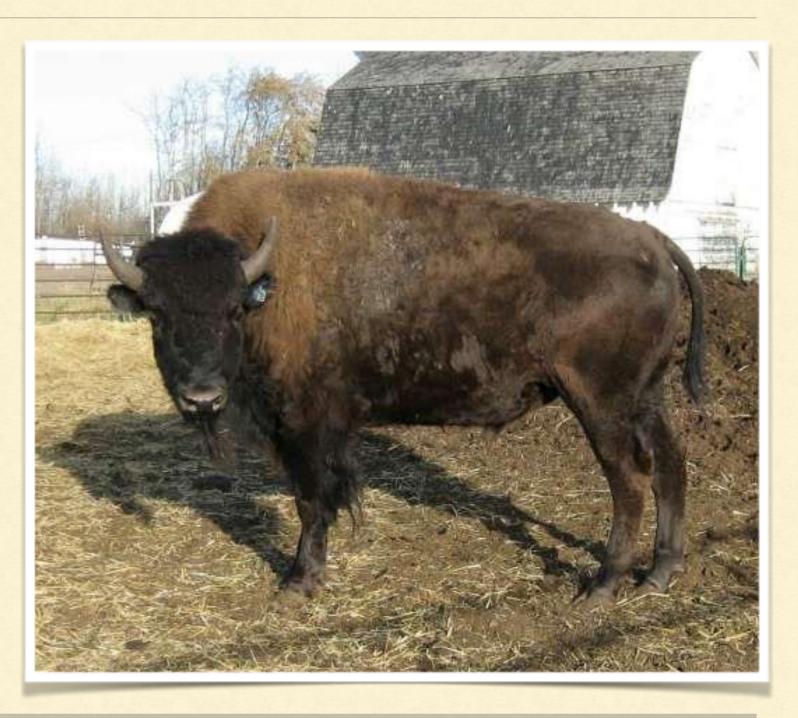
AGE: JUVENILES

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



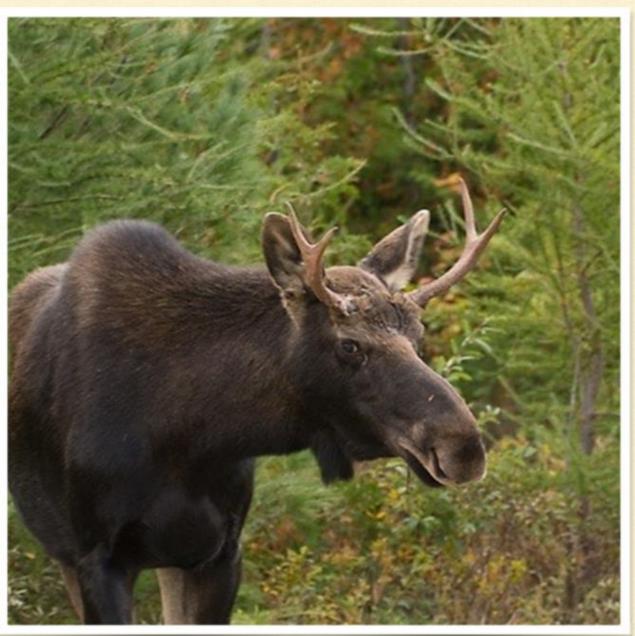
AGE: BISON JUVENILE (L) YEARLING (R)





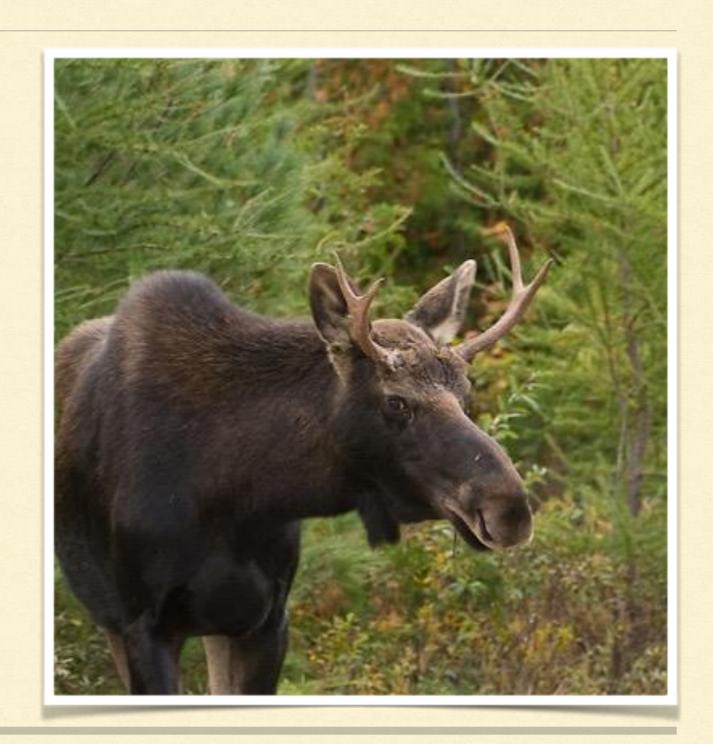
AGE: ANTLER SIZE DOES NOT TELL ALL





AGE: MOOSE JUVENILE OR ADULT?

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



AGE: JUVENILES

Subadults:

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



AGE: UNKNOWN/MIXED



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

SPECIES 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

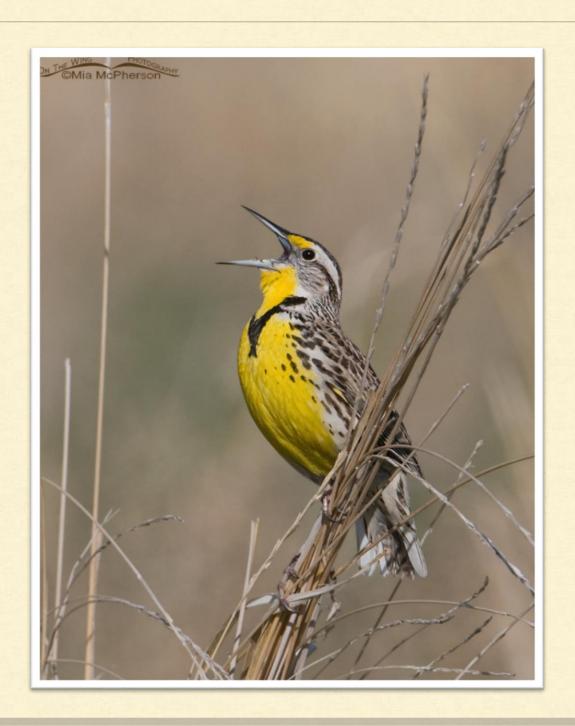




ACTIVITY: TERRITORIAL

- Singing
- Chasing





ACTIVITY: NESTING







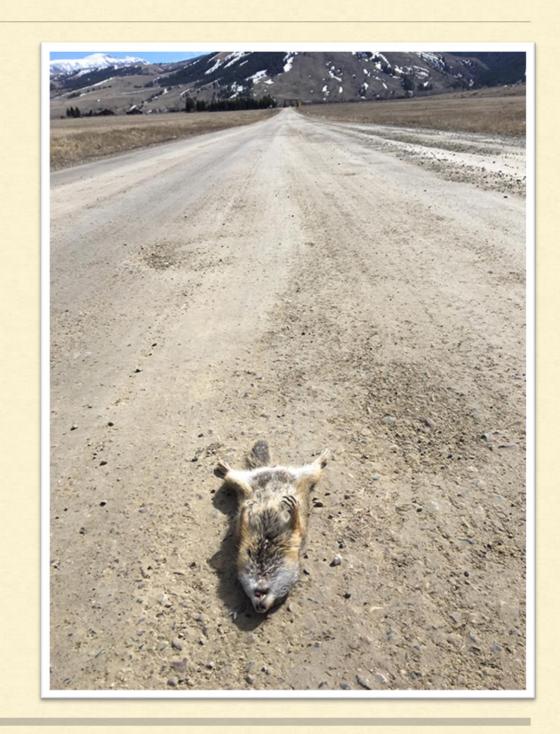
ACTIVITY: UNDETERMINED

- Variable
- Heard only



MORTALITY:

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





OBSERVATION - LIVE DEMO

DATA COLLECTION PROTOCOL

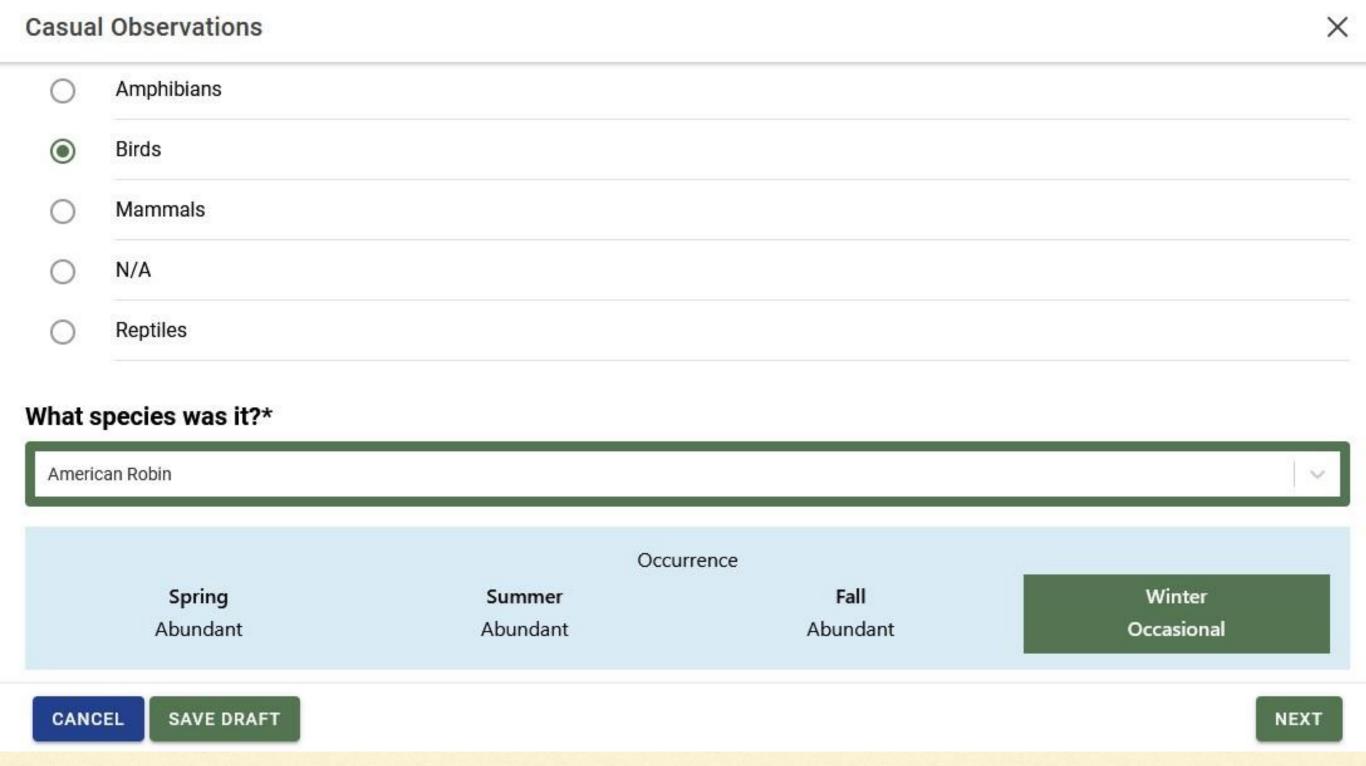
- Animal Type (Mammal, Amphibian, Bird, etc.)
- Species (Mule Deer, Black Bear, etc.)
- Date
- Time
- Notes
- Age
- Quantity
- Activity
- Location (of animal)
- Photo (optional)



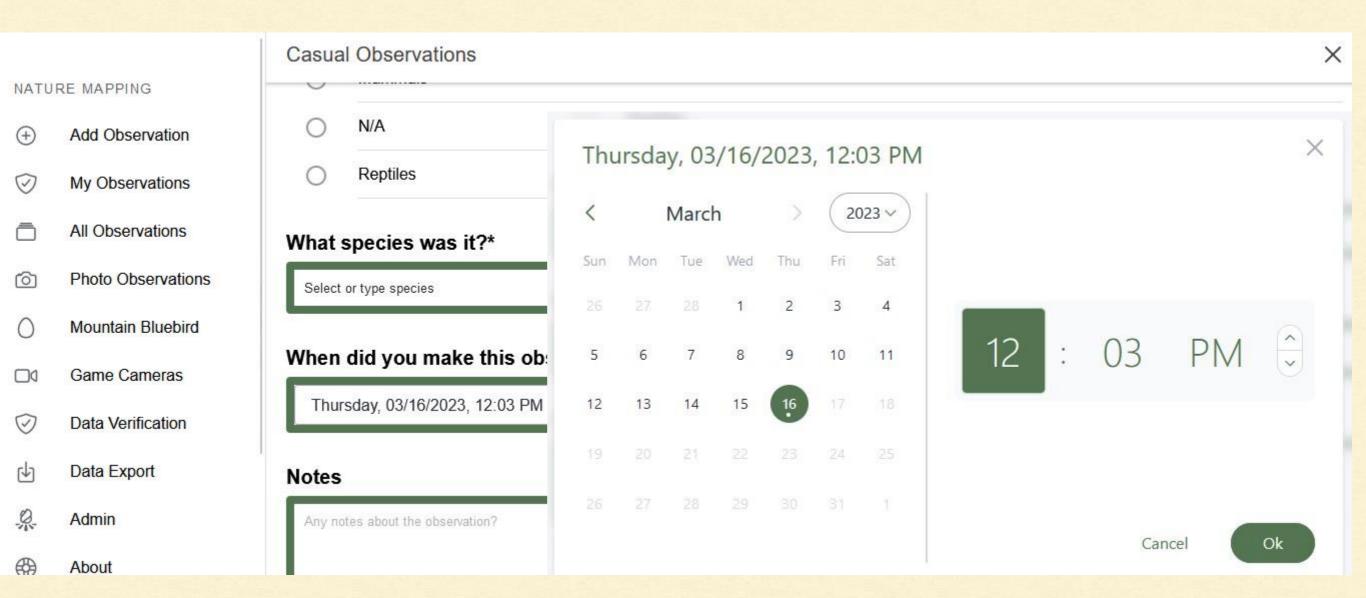


OBSERVATION #1

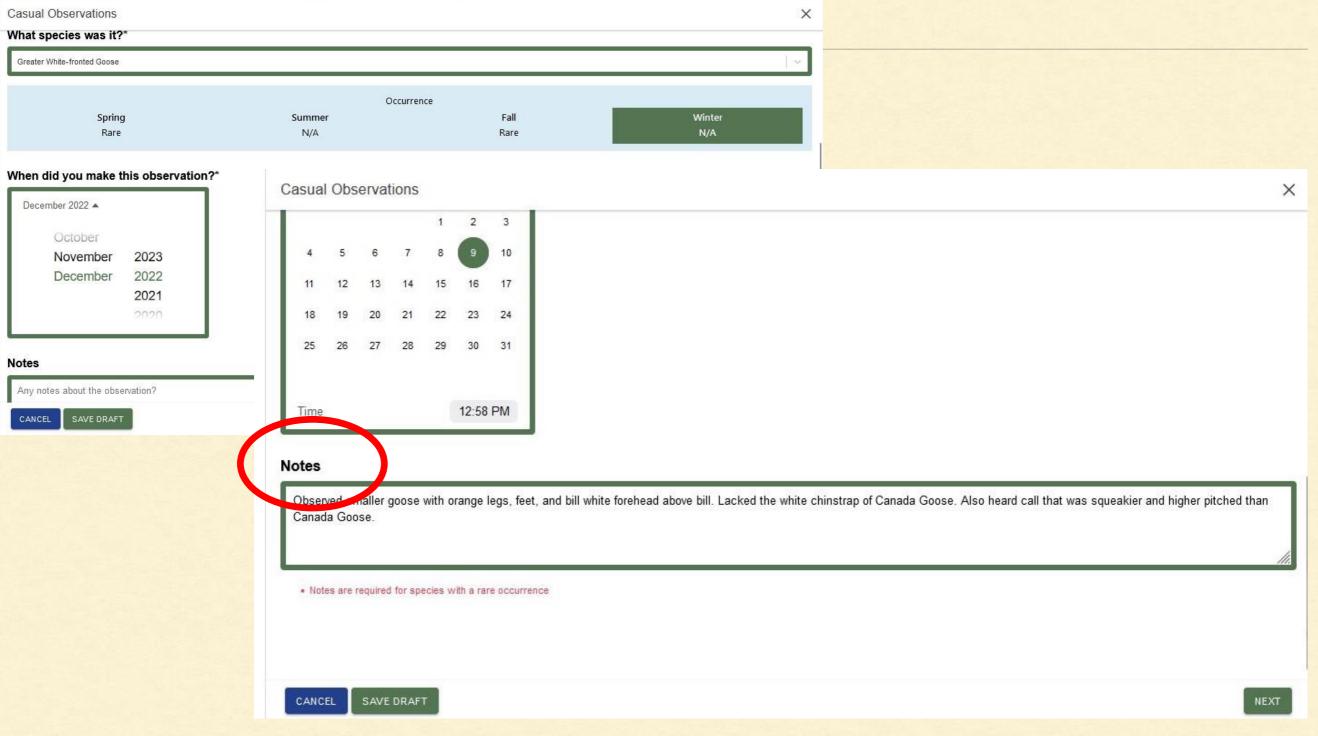
One American Robin mapped on Jan 9, 2023 at 12:31 PM near the National Elk Refuge



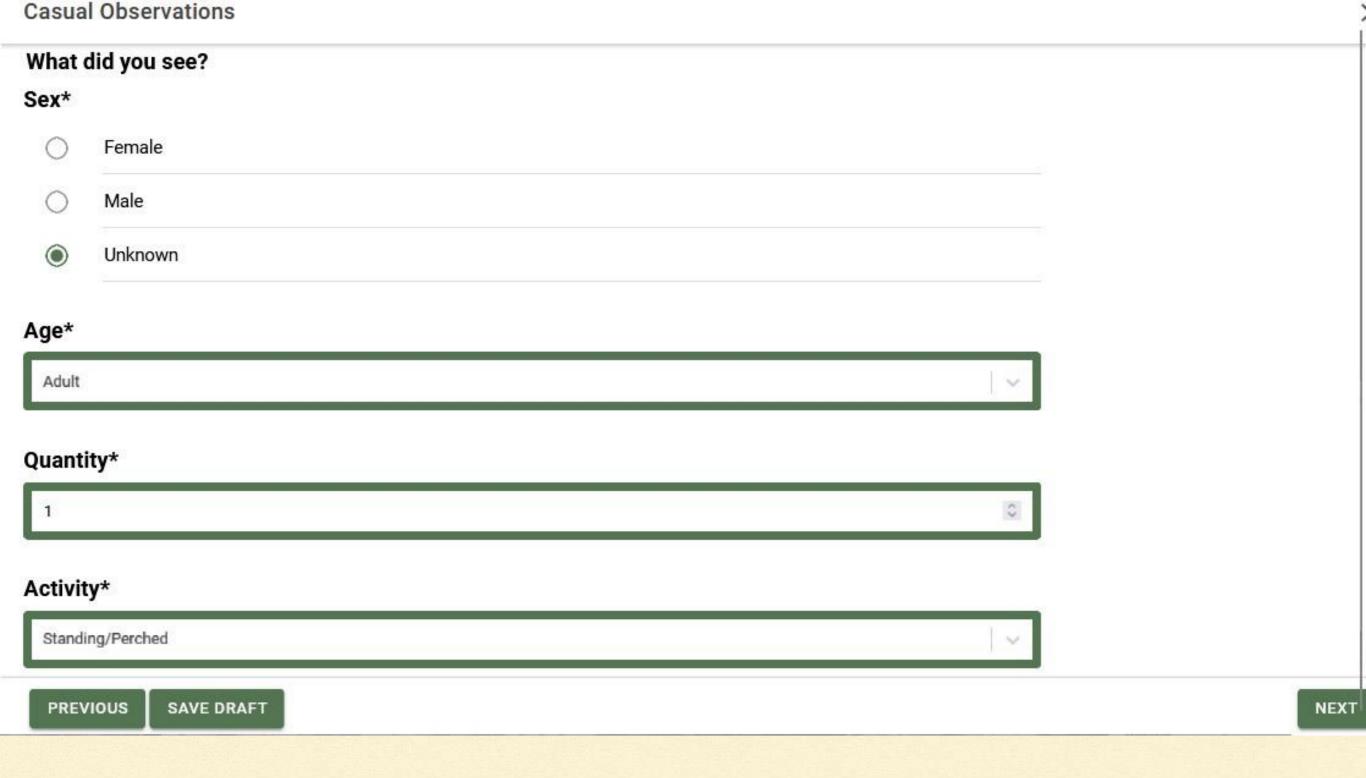
Tip: Use the dropdown menu or begin typing to find your species



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



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



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

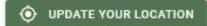
Tip: Mortality, while sad, is one of the more important piece s of data we collect. Roadkill data can be used to inform mi tigation, so please don't leave out the dead! Casual Observations

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 UTMs





If entering the location manually, you can enter either the latitude and longitude or the UTMs.



NEXT

PREVIOUS

SAVE DRAFT

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

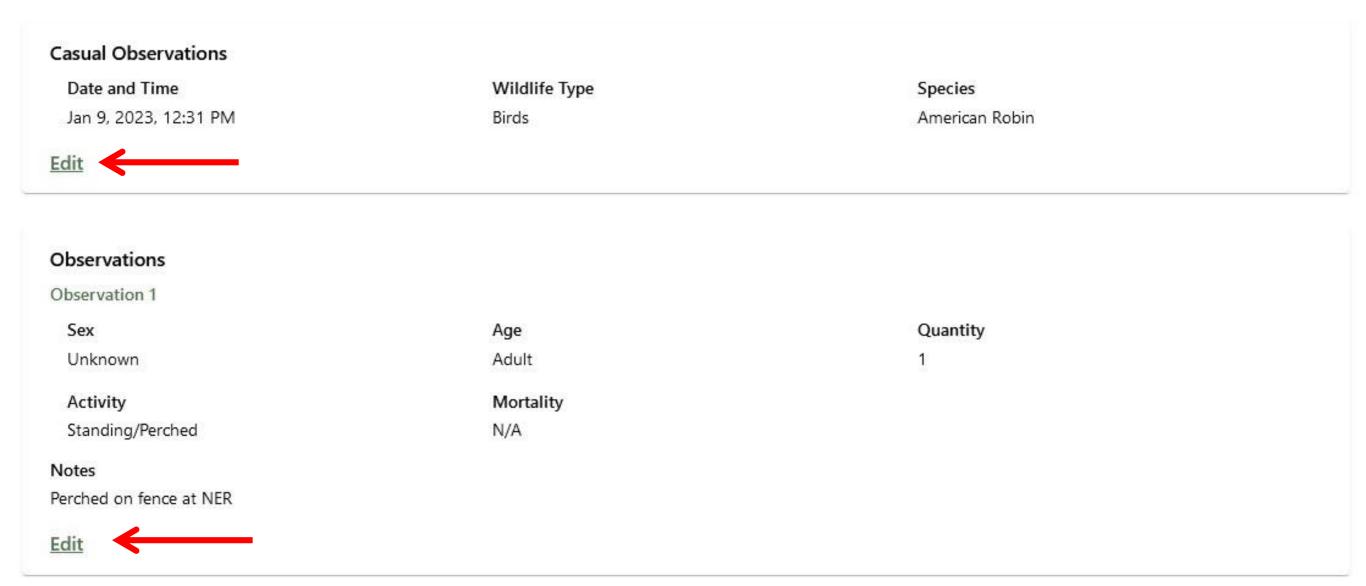
PREVIOUS

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



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



Photos



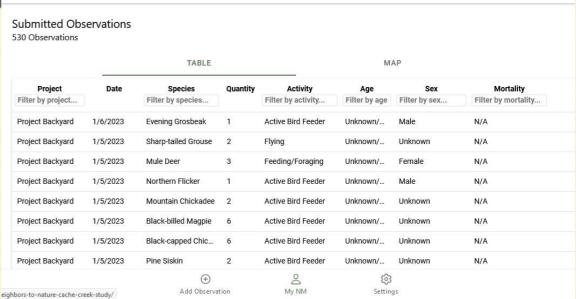
CANCEL

SUBMIT

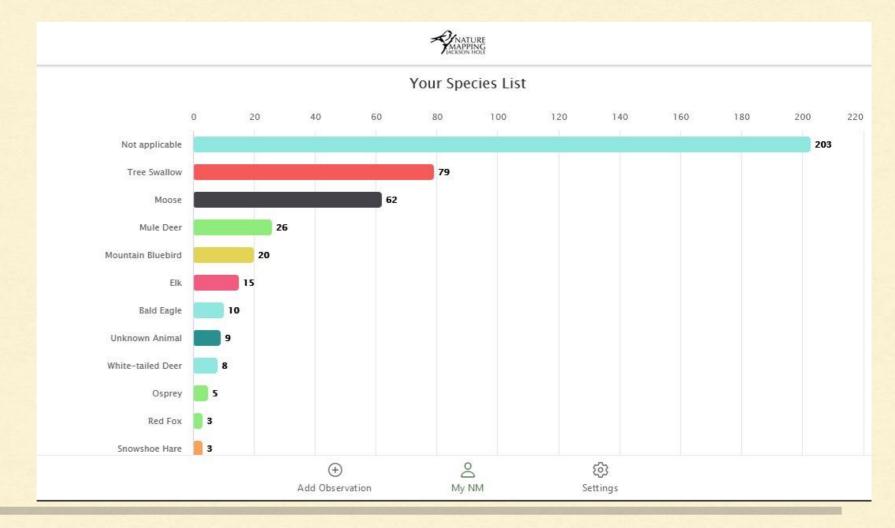
Congratulations! You have completed Observation #1!

GETTING YOU GOING

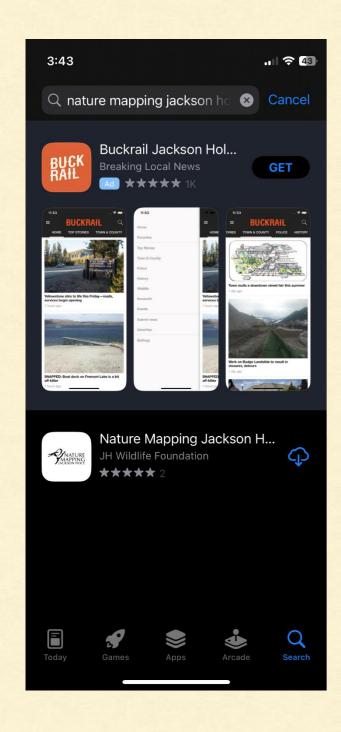
- Create an Account
 - Login
- Settings
- Practice

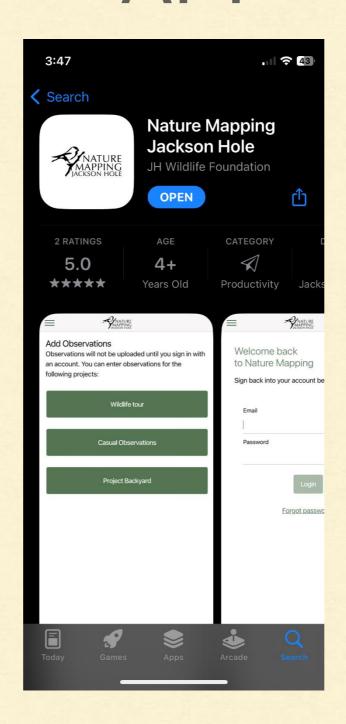


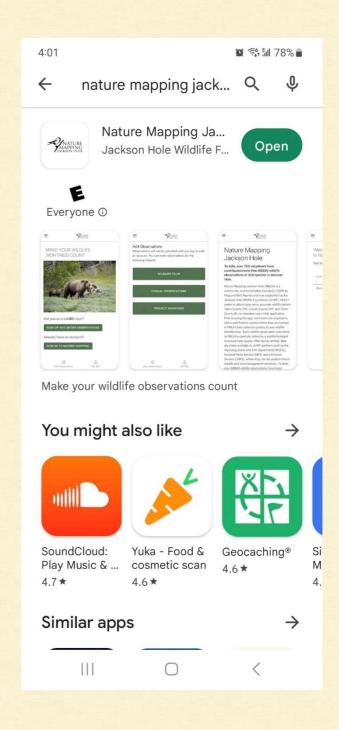
NATURE MAPPING



FINDING THE NATURE MAPPING APP

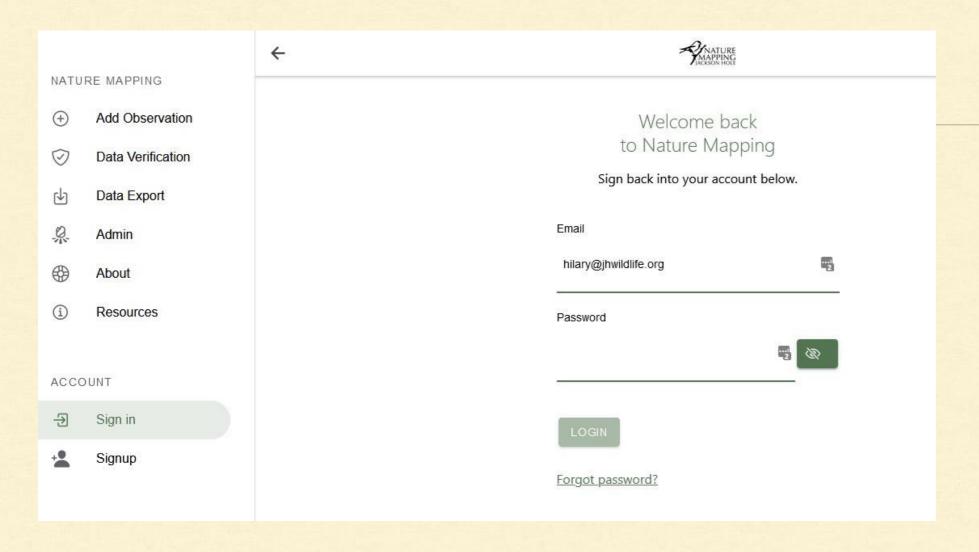






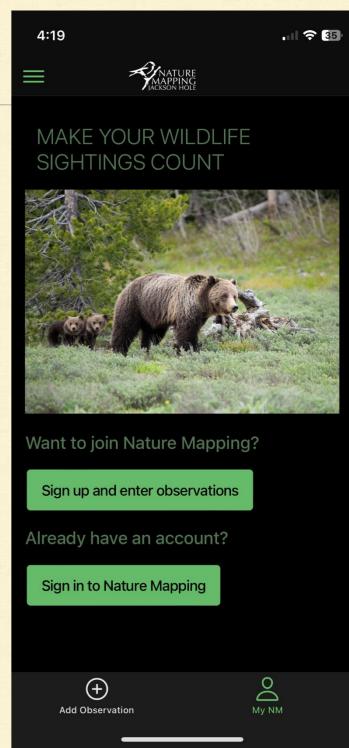
Search for "Nature Mapping Jackson Hole" in your App

LOGGING IN TO NATURE MAPPING

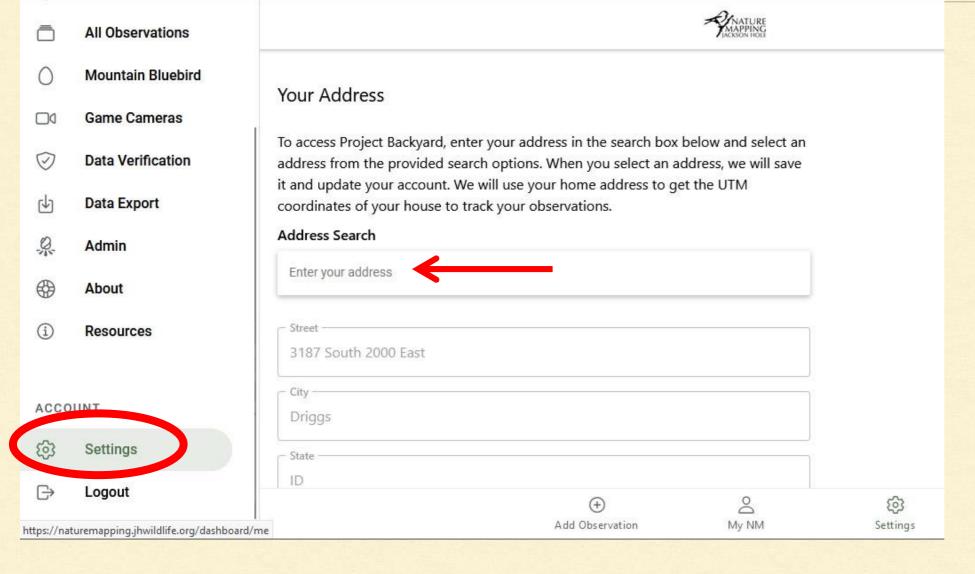


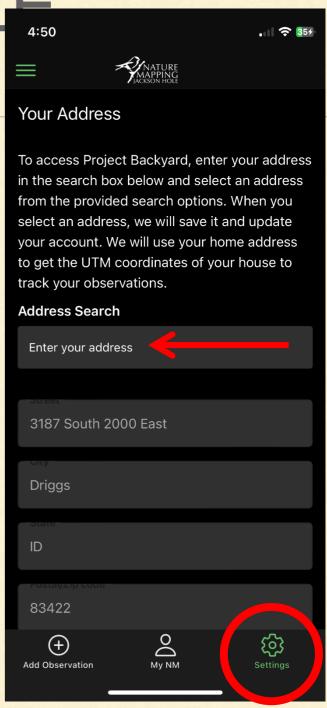
Username (email address) and password are case sensitive

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



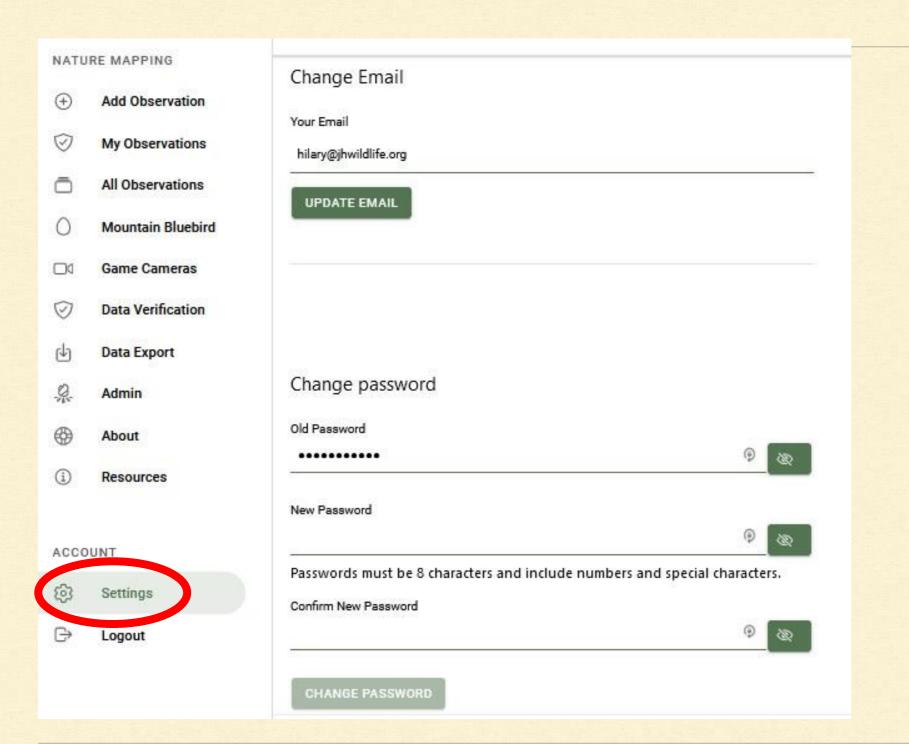
SETTING UP YOUR PROFILE

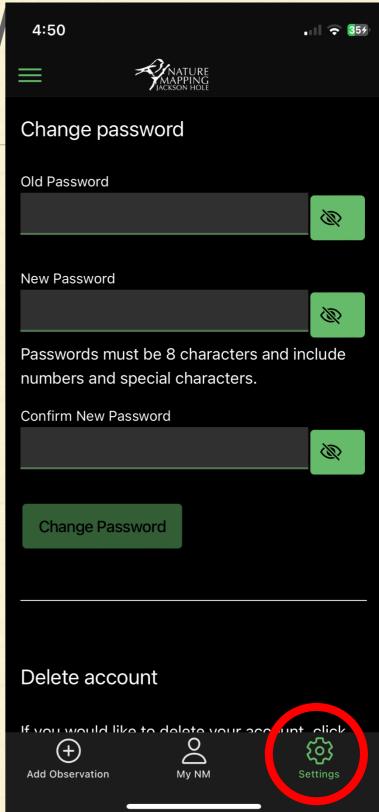




Add your address to your profile for access to Project Backyard

RESETTING YOUR PASSV





RESOURCES: JHWILDLIFE. 5:03 424 Add Observations You can enter observations for the following projects: NATURE NATURE MAPPING **Beaver Project** Add Observations Add Observation You can enter observations for the following projects: My Observations **Casual Observations** CASUAL OBSERVATIONS **BEAVER PROJECT** All Observations Game Cameras Mountain Bluebird **MOOSE DAY** MOUNTAIN BLUEBIRD NESTBOX PROJECT **Game Cameras** Moose Day **Data Verification** SNAKE RIVER FLOAT PROJECT BACKYARD **Data Export** Mountain Bluebird Nestbox Project Admin About **Neighbors To Nature** 2 **(3)** Resources (+)

Access resources for Nature Mappers from the app and website

Add Observation

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

My NM

Add Observation

Setting

RESOURCES: 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 citizenscientists 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

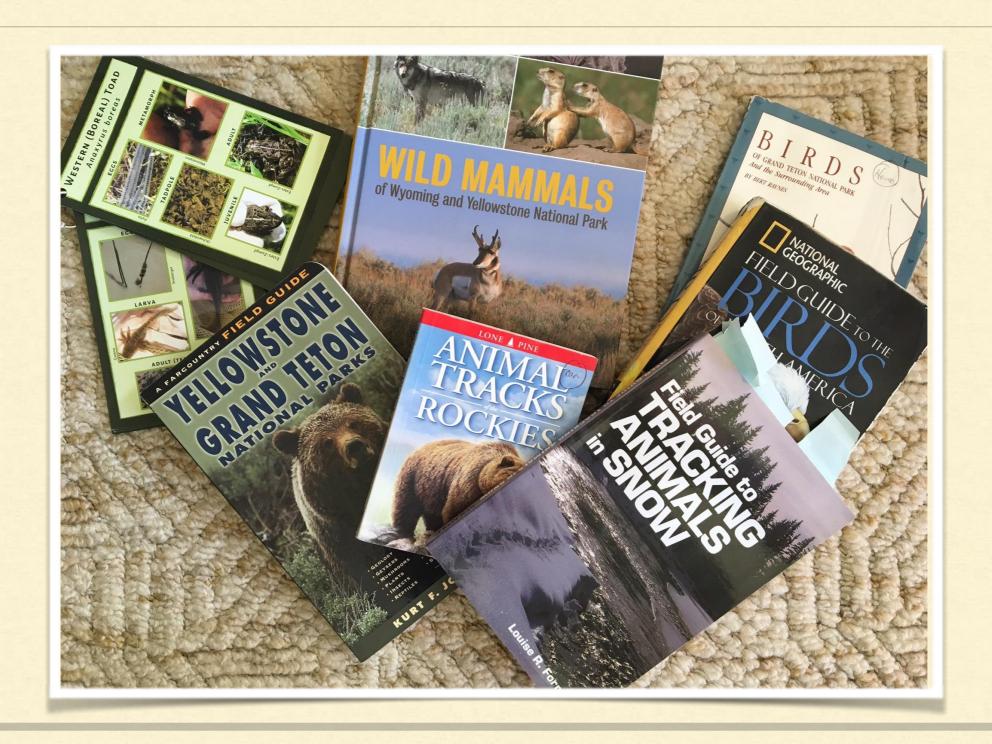
NMJH Program Goals

Keeping common

https://jhwildlife.org

Donate

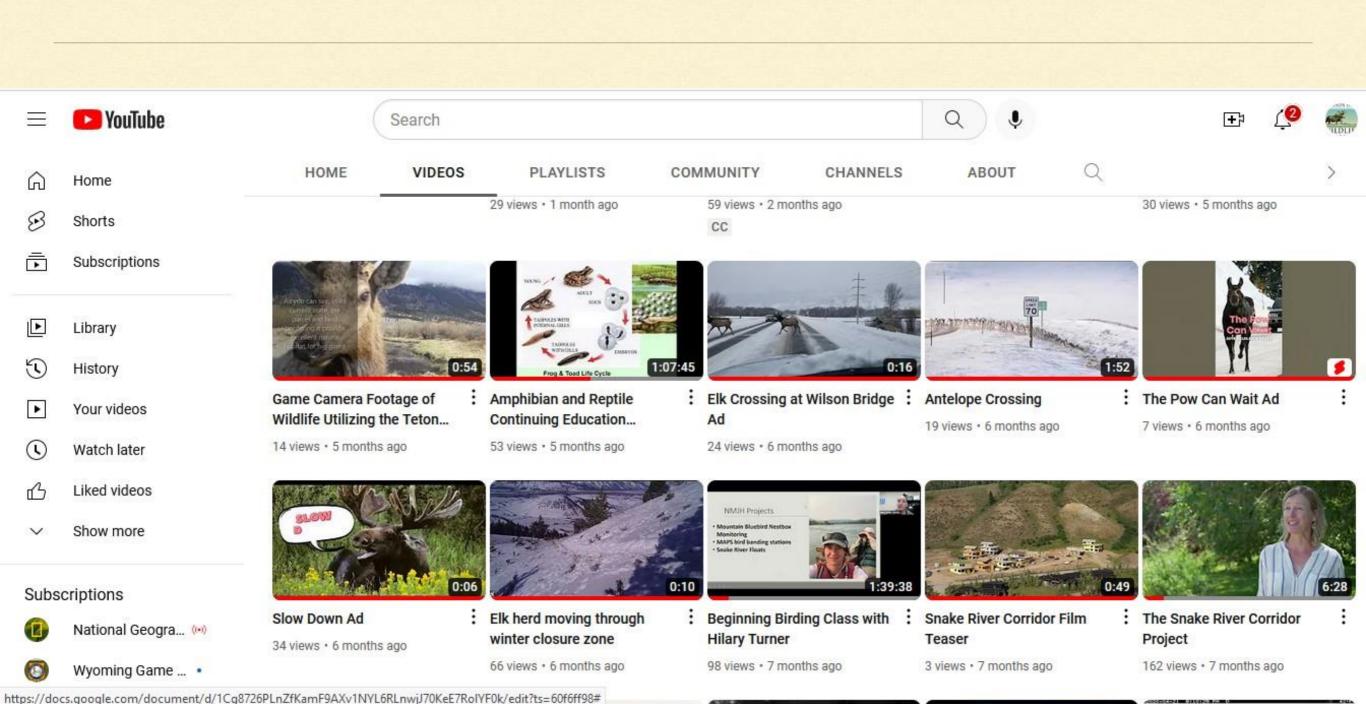
RESOURCES: GUIDE BOOKS



RESOURCES: NMJH COMMUNITY



RESOURCES: JHWF YOUTUBE



UPCOMING OPPORTUNITIES

- . Mountain Bluebird Nestbox monitoring
- Email Ideas for continuing education
- Email jessie@jhwildlife.org to sign up or for assistance



Any Questions ?



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

– John Muir