

NATURE MAPPING JACKSON HOLE

Make your wildlife sightings count!



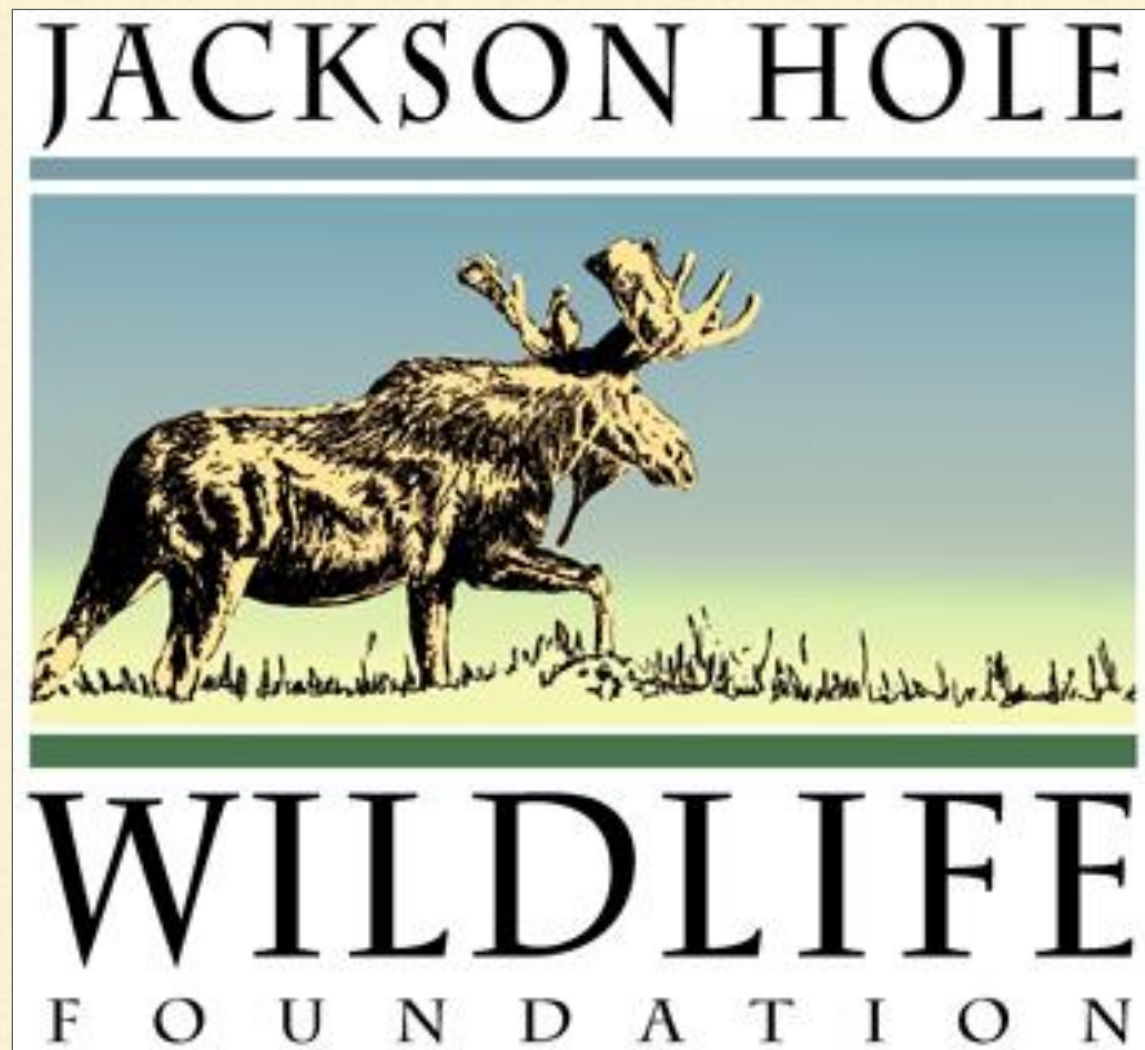
JACKSON HOLE



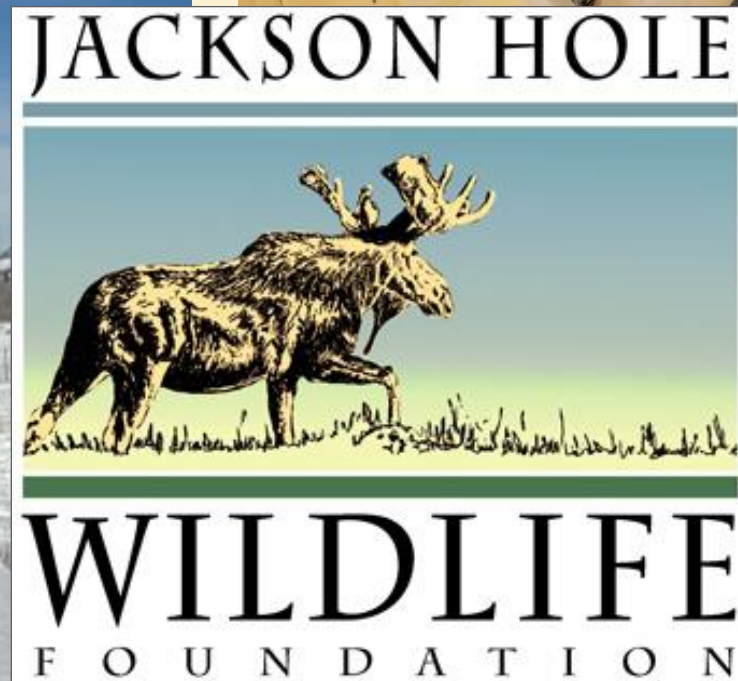
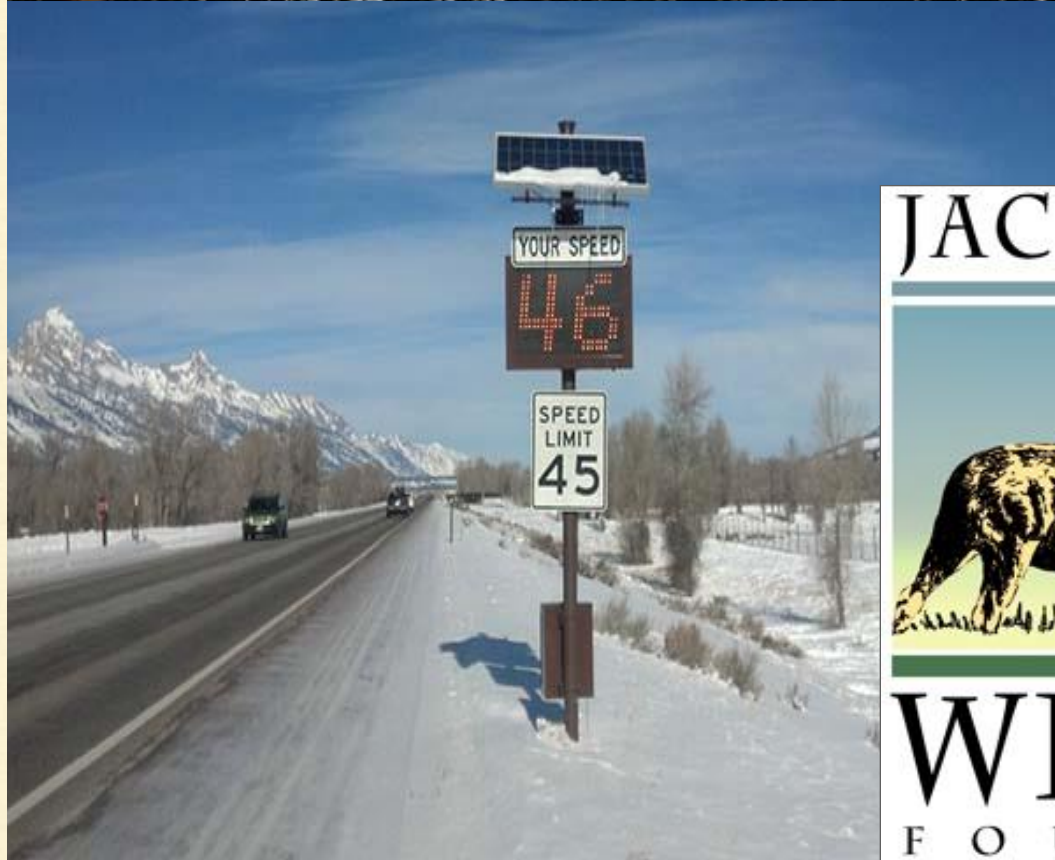
WILDLIFE
FOUNDATION



THE JACKSON HOLE WILDLIFE FOUNDATION MISSION



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



SPRING - GREAT TIME TO START

- First of Year – FOYs
- Migrations of mammals and birds
- Baby animals



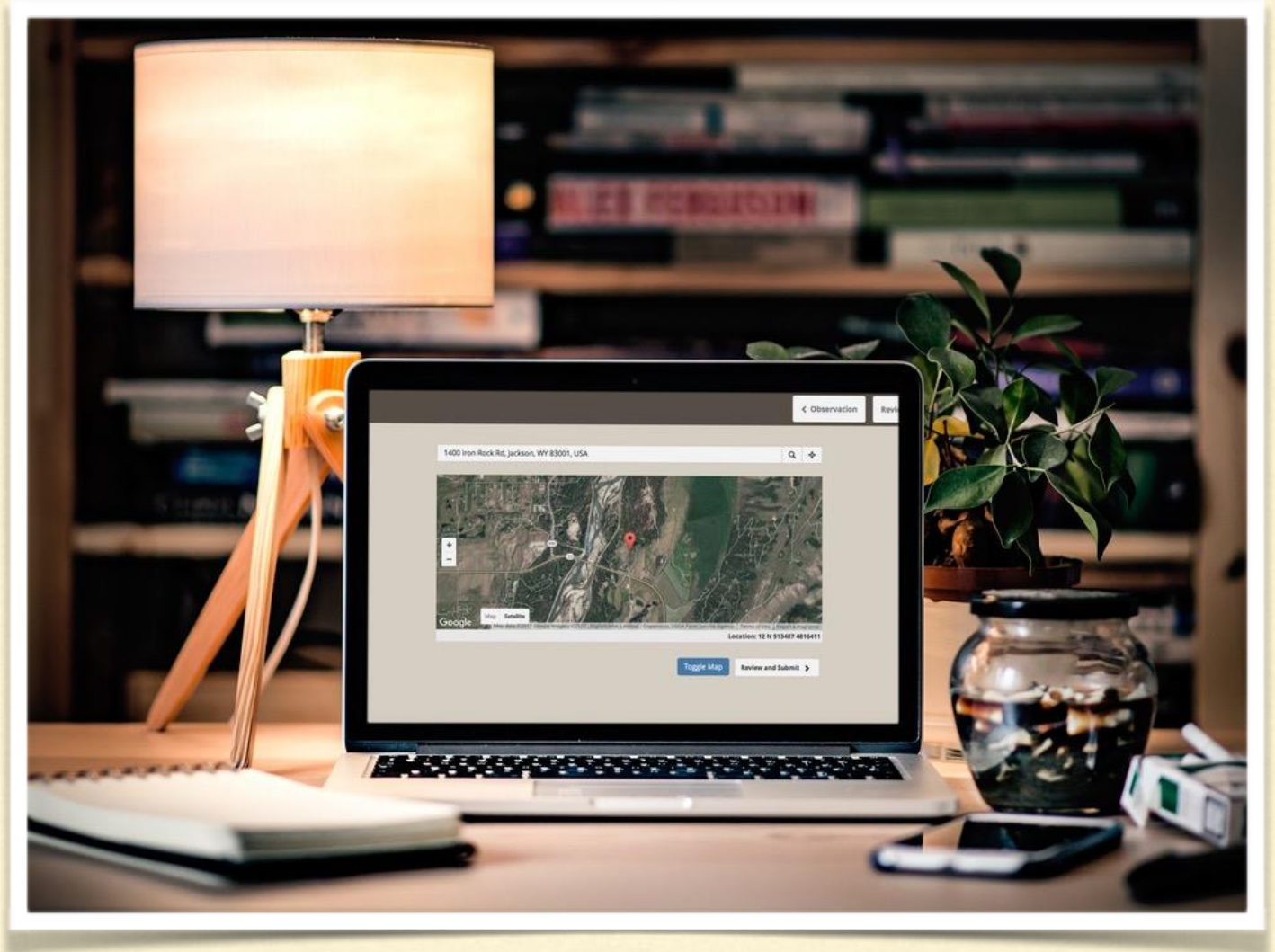
OBJECTIVES FOR TODAY

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

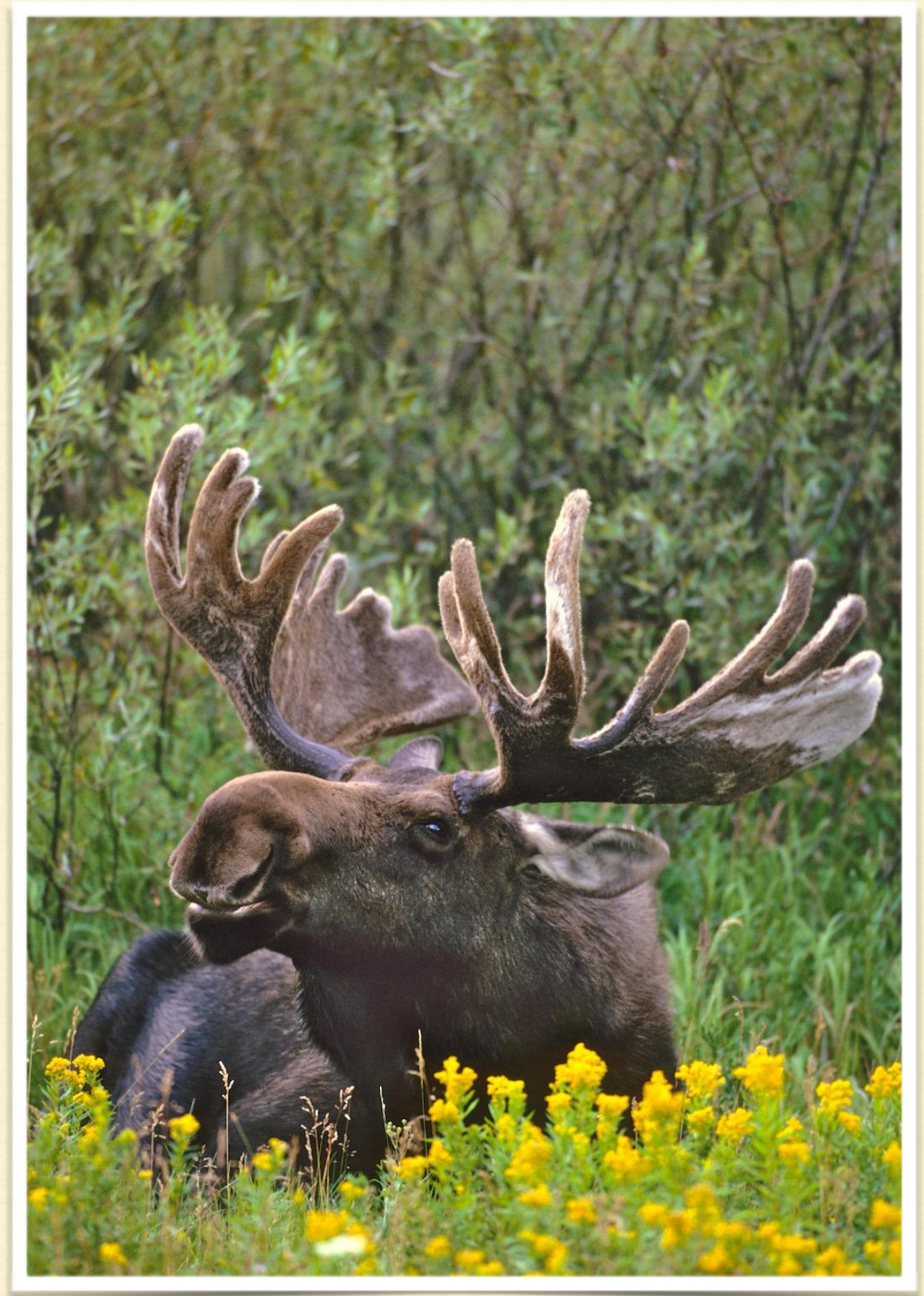
Understand the importance of following protocols

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 (WOS)



THE DATA PROCESS:

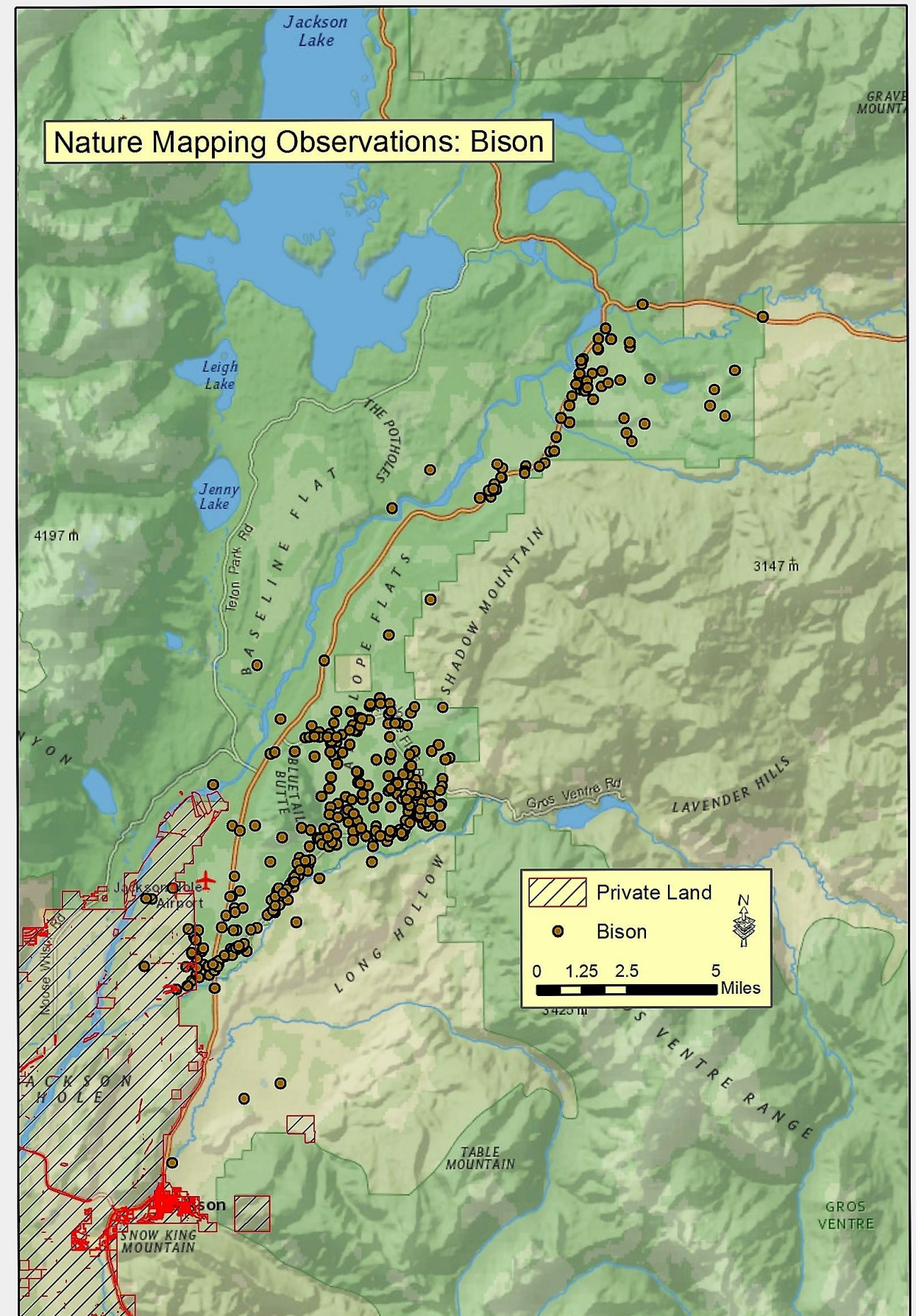
- Trained Nature Mappers enter their data in the field using the app or online later (preferably within a week of collecting it)
- The data is examined by trained biologists
- If there are questions, the biologist will contact the citizen scientist and ask for clarification or further information
- Any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

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



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
- Species of Greatest Conservation Needs
- Bird Banding



CASUAL OBSERVATIONS

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



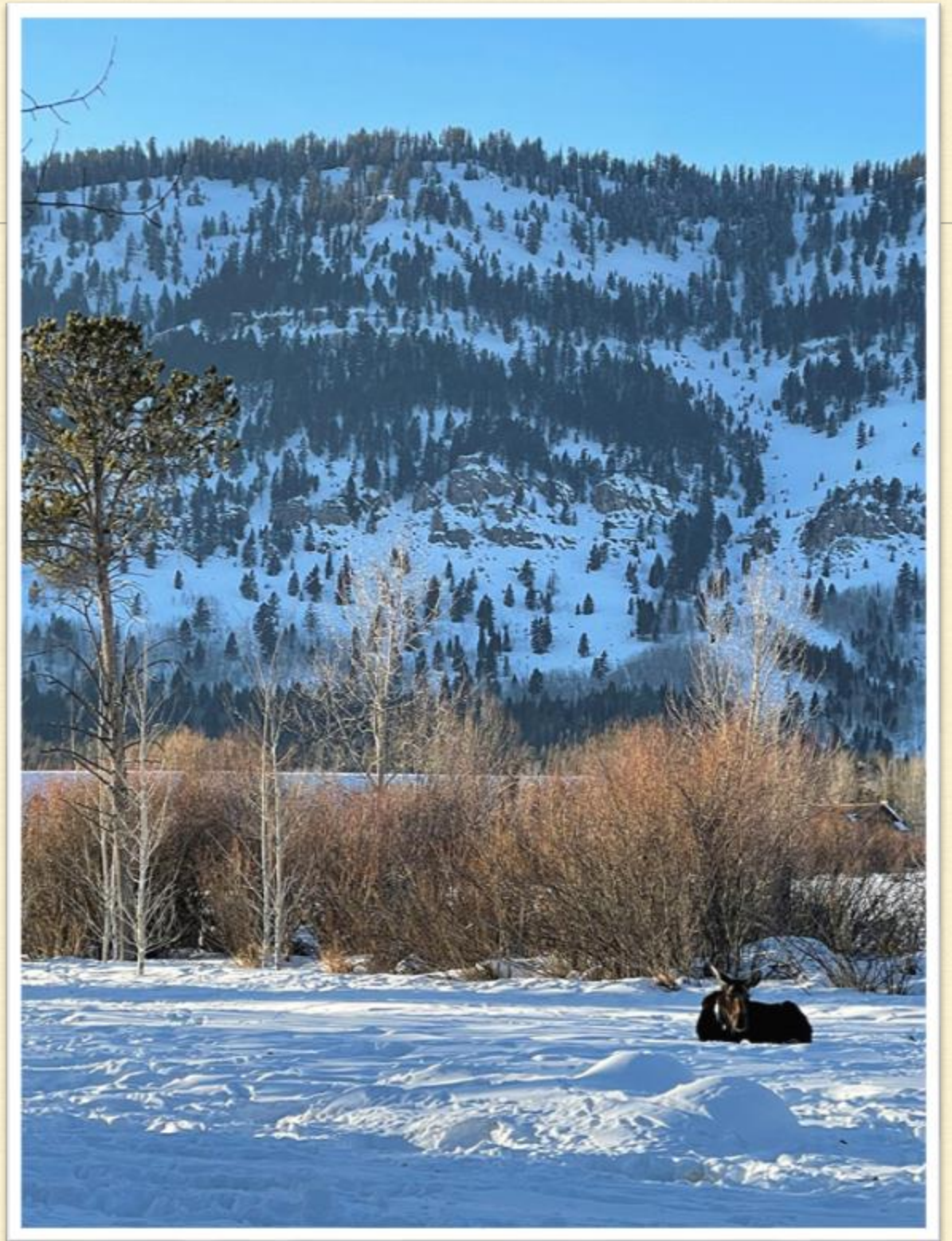
PROJECT BACKYARD

- 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

- Late February/Early March
- 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



SPECIES OF GREATEST CONSERVATION NEED PROJECTS

Photo by: Frank Stetler



Photo by: Mark Gocke

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: CHIPMUNKS



Least Chipmunk



Yellow Pine Chipmunk

SPECIES ID: SQUIRRELS



Uinta Ground Squirrel – “Chisler”



Golden Mantled Ground Squirrel

SPECIES ID: RED SQUIRREL



SPECIES ID: WOLVERINE



SPECIES ID: AMERICAN BADGER



SPECIES ID: YELLOW-BELLIED MARMOT

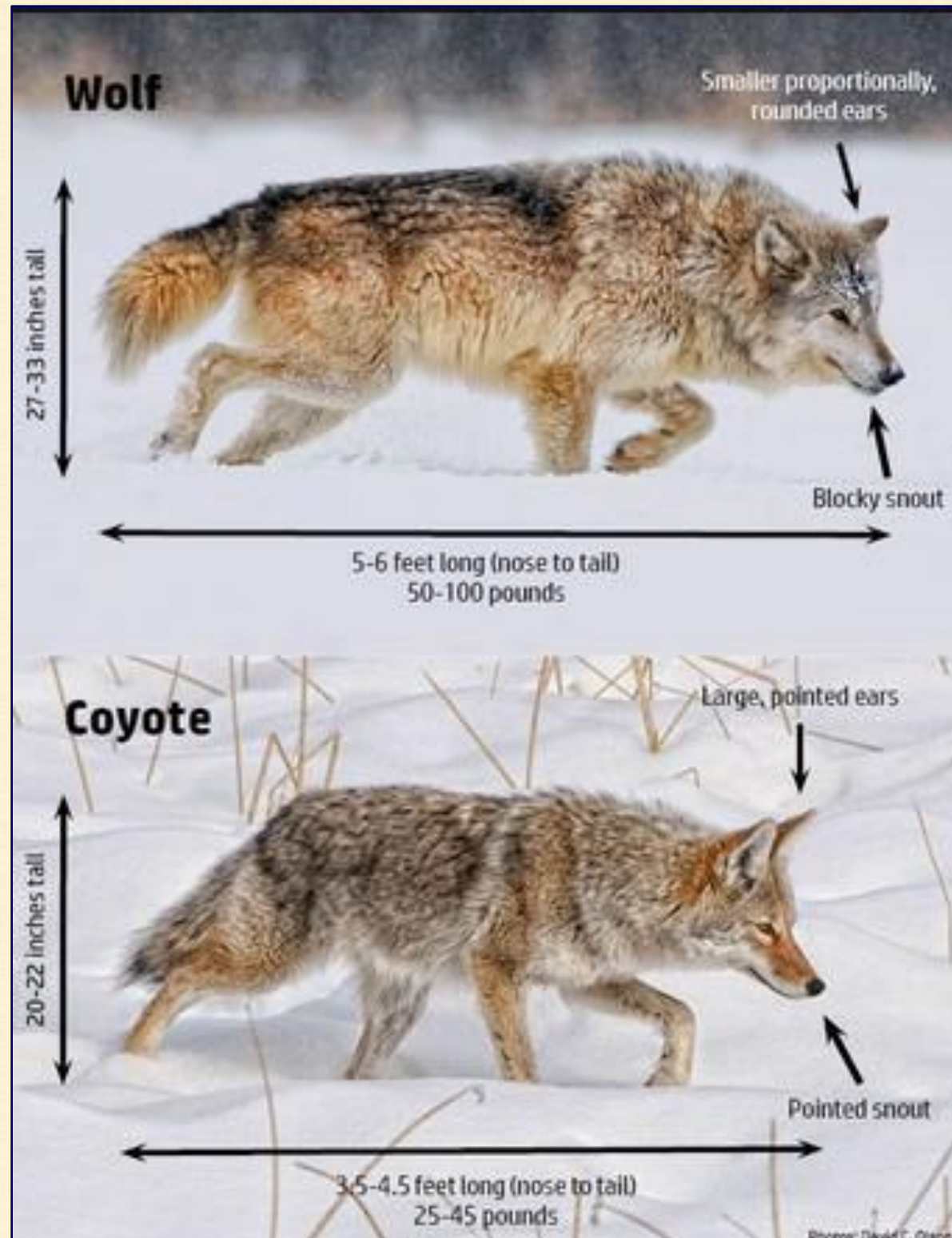


SPECIES ID: GRIZZLY AND BLACK BEARS

Know your bears!



SPECIES ID: WOLVES AND COYOTES



Know your Canids!



SPECIES ID: MULE DEER

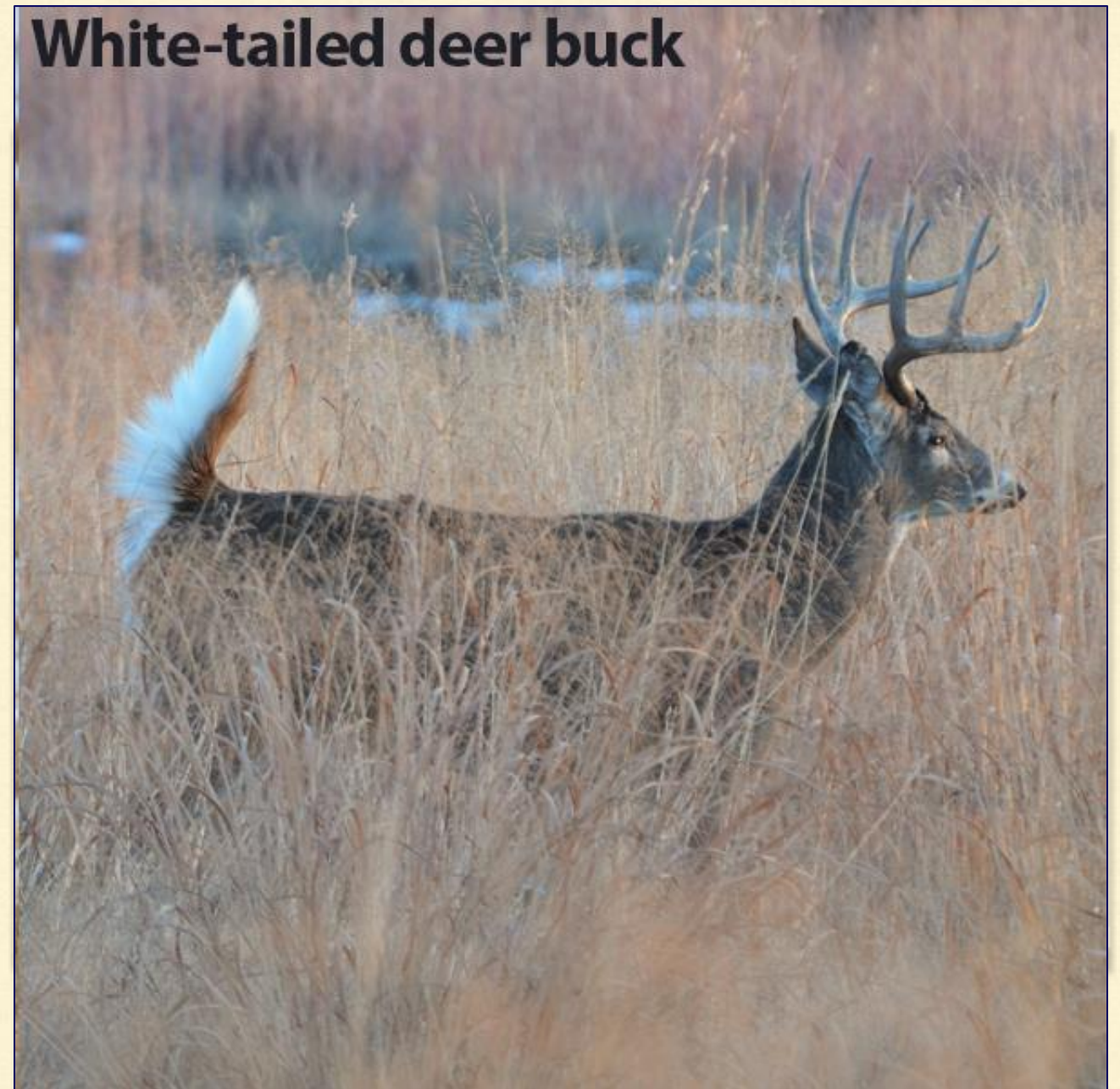


1. Big ears
2. White tail with black tip
3. “Y” branching pattern to antlers



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



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: MOOSE



SPECIES ID:
TRUMPETER SWAN



SPECIES ID: TUNDRA SWAN



SPECIES ID: BARROW'S GOLDENEYE



SPECIES ID: COMMON GOLDENEYE



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: SWAINSON'S HAWK



SPECIES ID: BALD EAGLE



Photo by Benjamin Hack



Photo by Matt Davis

SPECIES ID: GOLDEN EAGLE



Photo by Bryan Calk



Photo by Lars Petersson

WHICH EAGLE IS WHICH?



Photo by John Reynolds

SPECIES ID: RUFOUS HUMMINGBIRD



SPECIES ID: CALLIOPE HUMMINGBIRD



SPECIES ID: BROAD-TAILED HUMMINGBIRD



SPECIES ID: BLACK-CHINNED HUMMINGBIRD



SPECIES ID: CHICKADEES



Black-capped



Mountain

SPECIES ID: WESTERN MEADOWLARK



SPECIES ID: WAXWINGS



SPECIES ID: AMERICAN GOLDFINCH



SPECIES ID: EVENING GROSBEAK



Photo by Bellemare Celine



Photo by Kyle Blaney

SPECIES ID: YELLOW WARBLER



SPECIES ID: WESTERN Tanager



Photos from eBird

SPECIES ID: WESTERN TOAD



© Gary Nafis

SPECIES ID: BOREAL CHORUS FROG



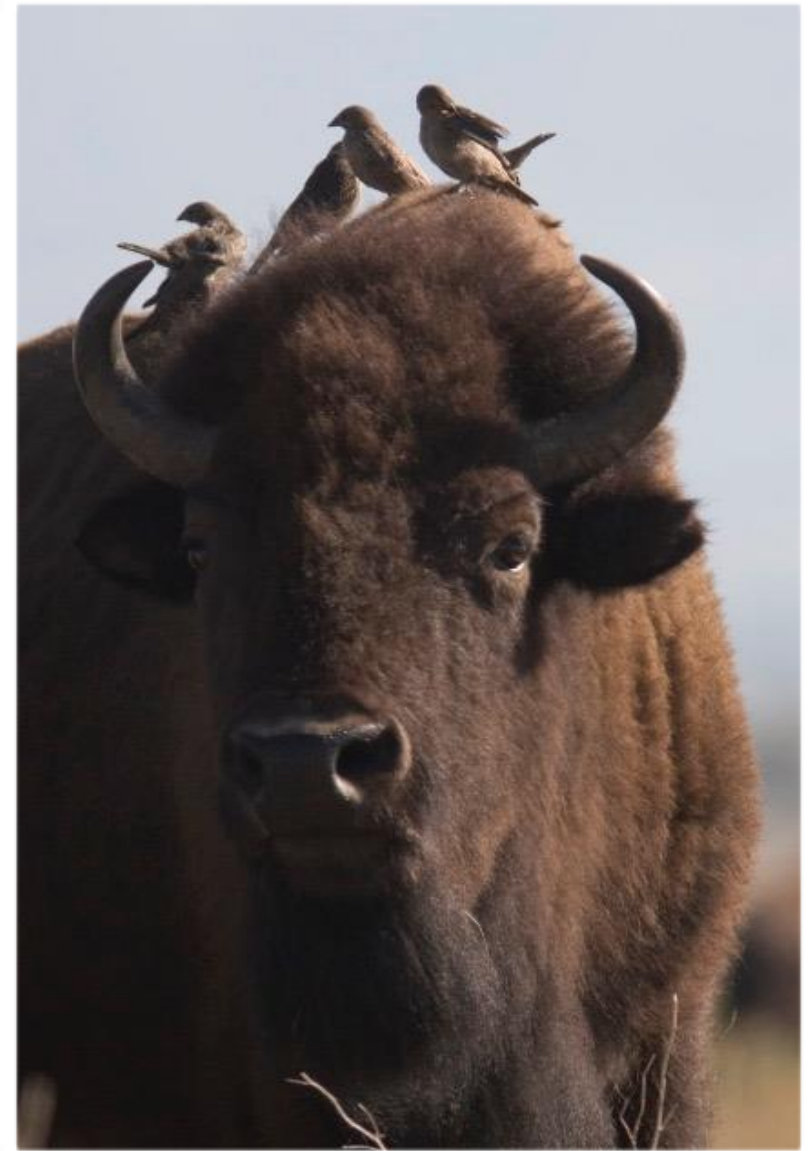
SPECIES SEX ID

- 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

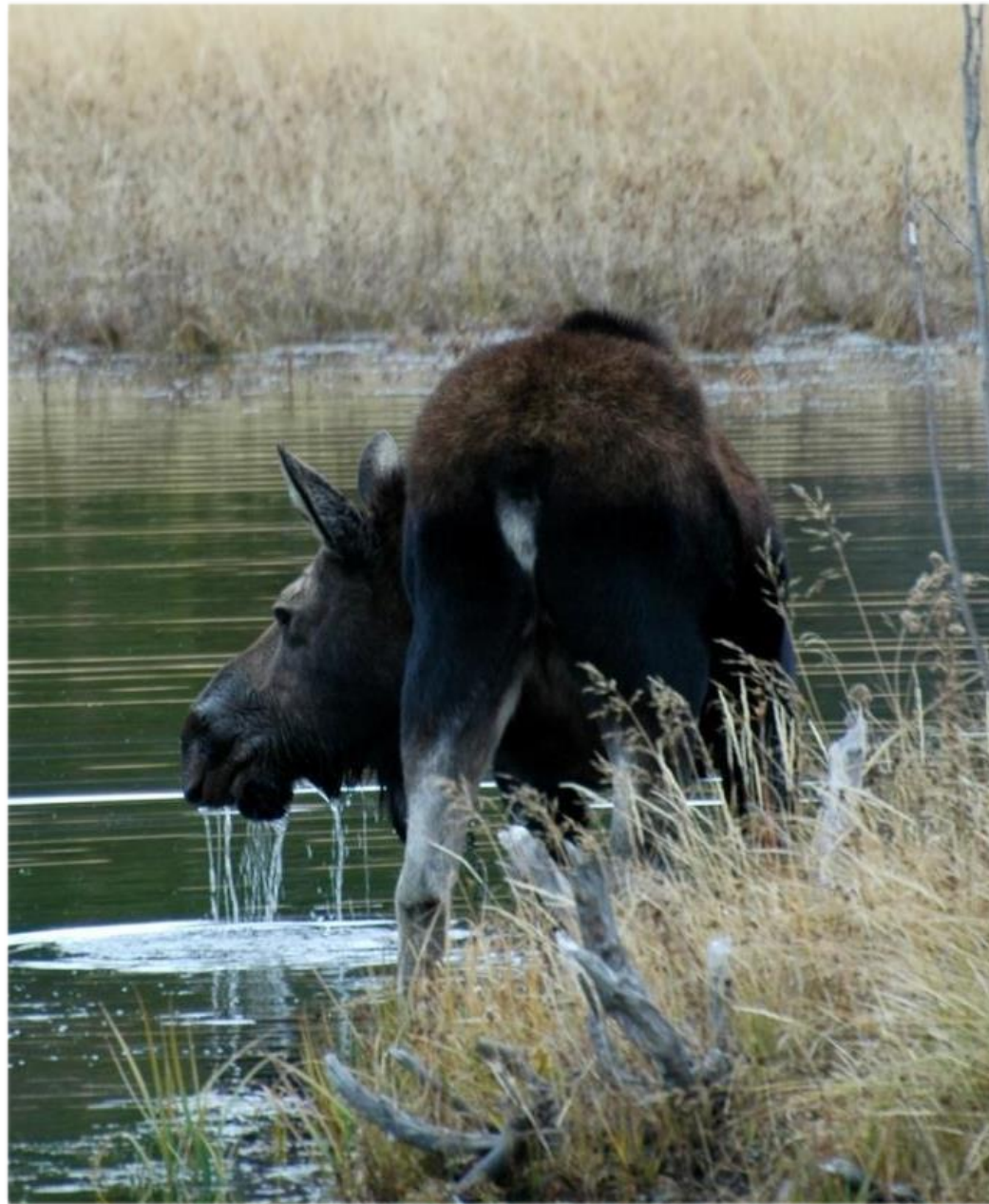
SEX: BISON



SEX: MOOSE MALE



SEX: MOOSE FEMALE



SEX: PRONGHORN



Male



Female

SEX: MOUNTAIN BLUEBIRD



Male

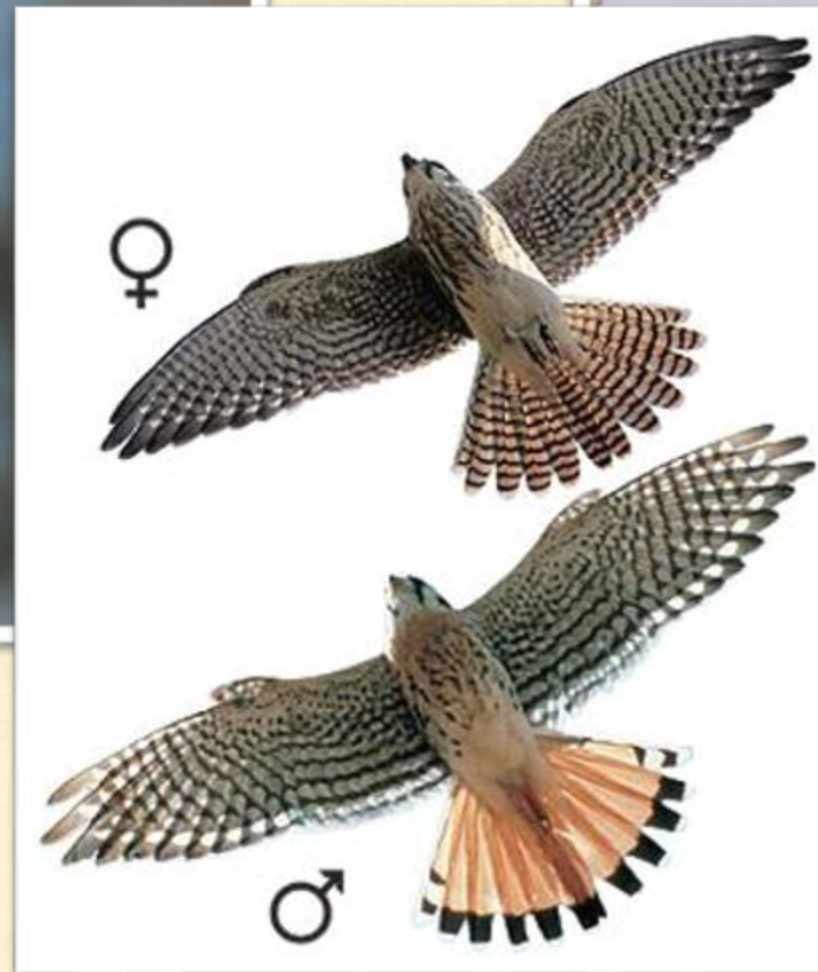


Female

SEX: AMERICAN KESTREL



Male



Female

SEX: UNKNOWN

The sex of many species cannot be determined or observed:

- Squirrels
- Swans
- Snakes
- Many songbirds and raptors



Photo by Malcolm Gold

SPECIES AGE

AGE: JUVENILES

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



AGE: JUVENILES

Subadults:

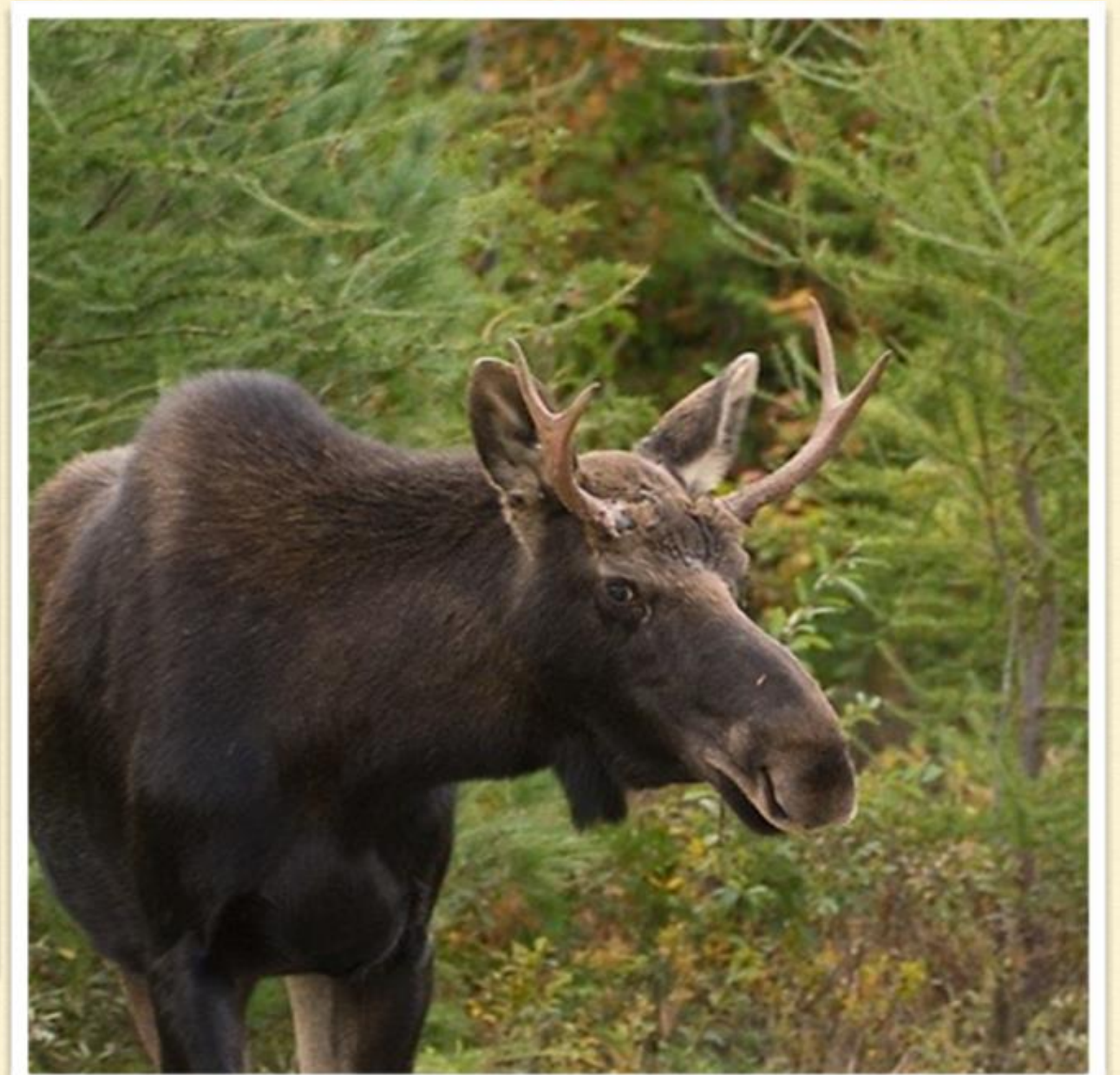
- Second spring to fourth spring
- Can be hard
- If not sure = **Unknown**
- Can add comments, too, e.g. immature bald



AGE: BISON JUVENILE (L) YEARLING (R)



AGE: ANTLER SIZE DOES NOT TELL ALL



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



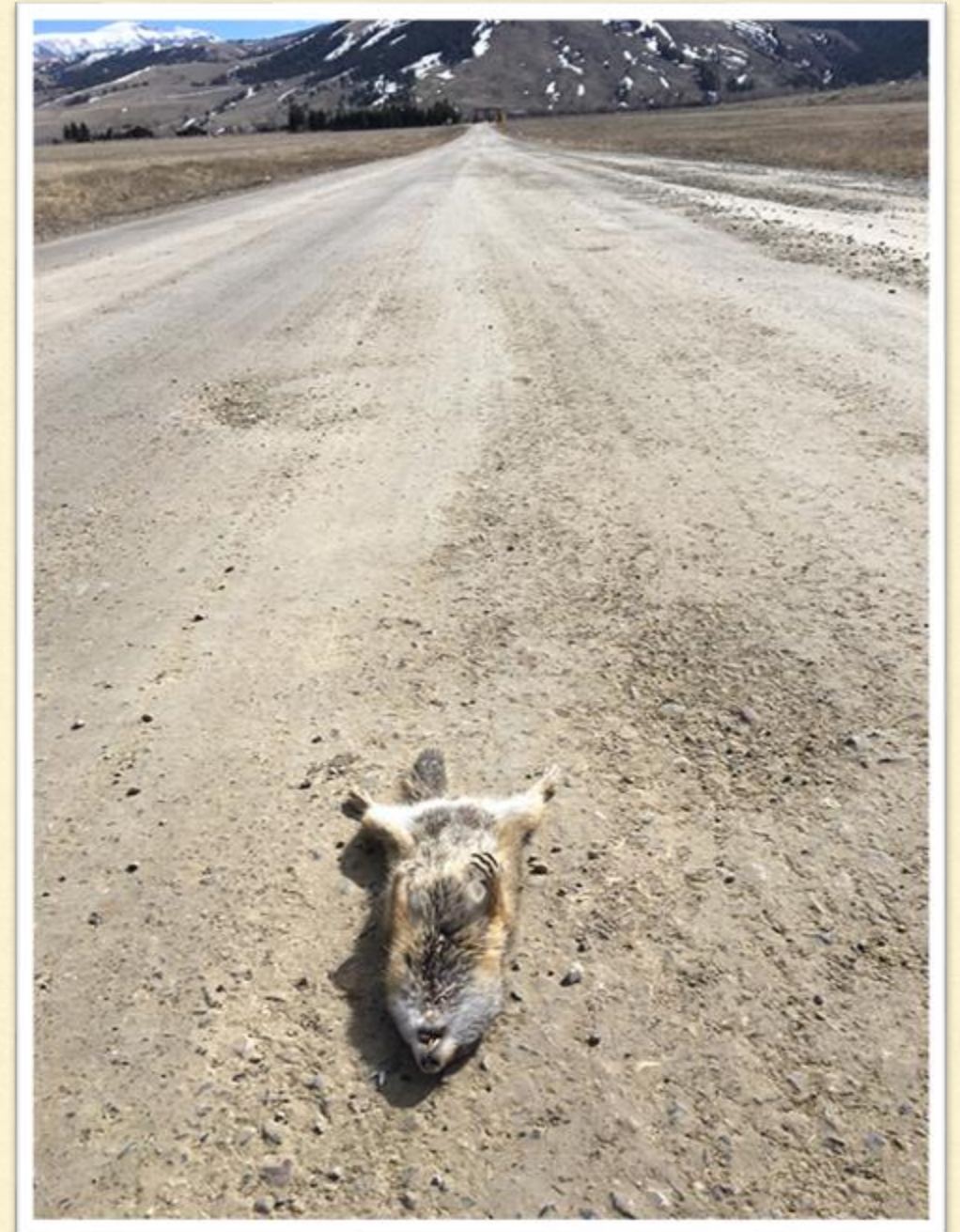
ACTIVITY: UNDETERMINED

- Variable
- Heard only




MORTALITY:

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



GETTING YOU GOING




- Create an Account
- Login
- Settings
- Practice

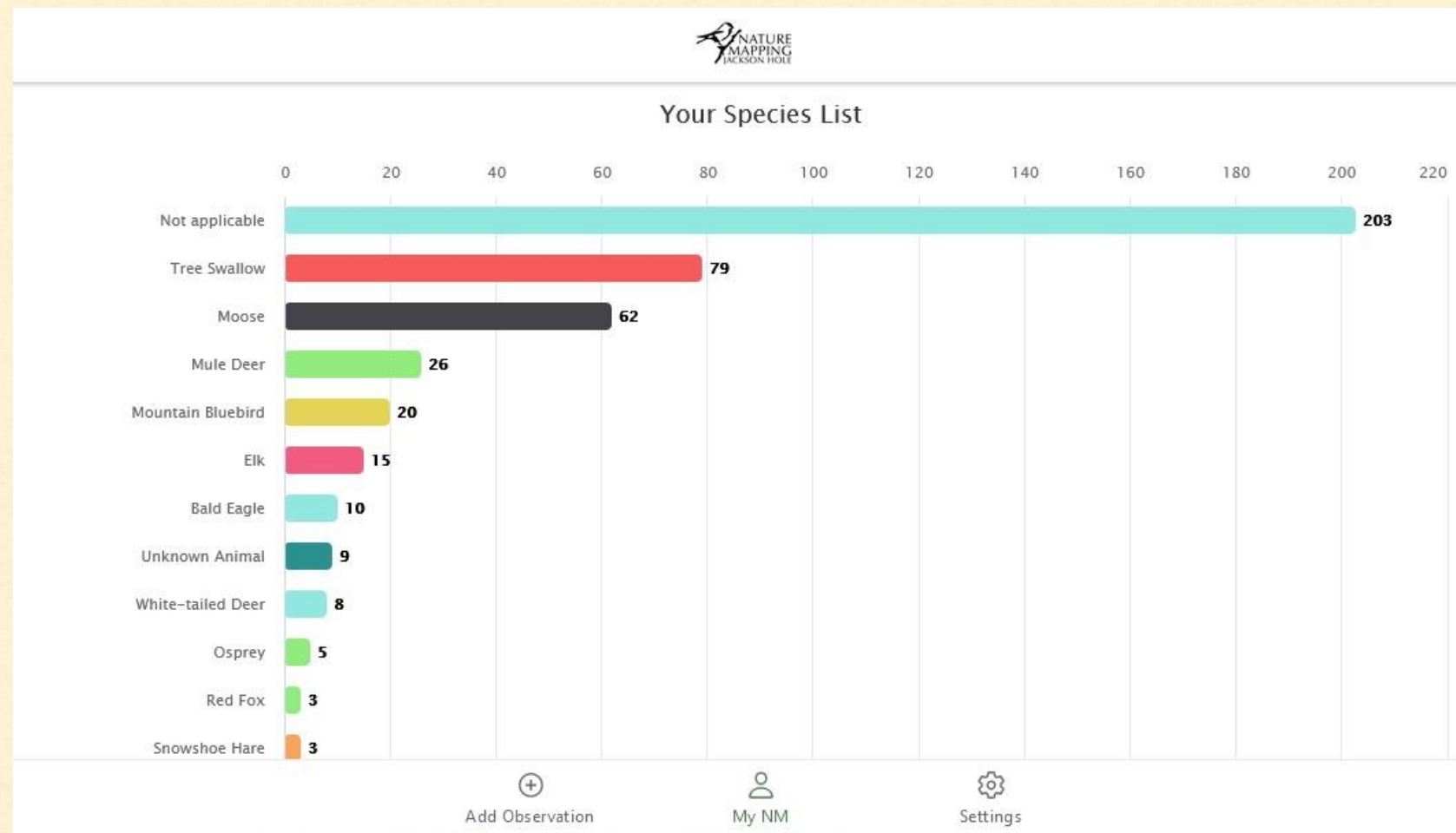


Submitted Observations
530 Observations

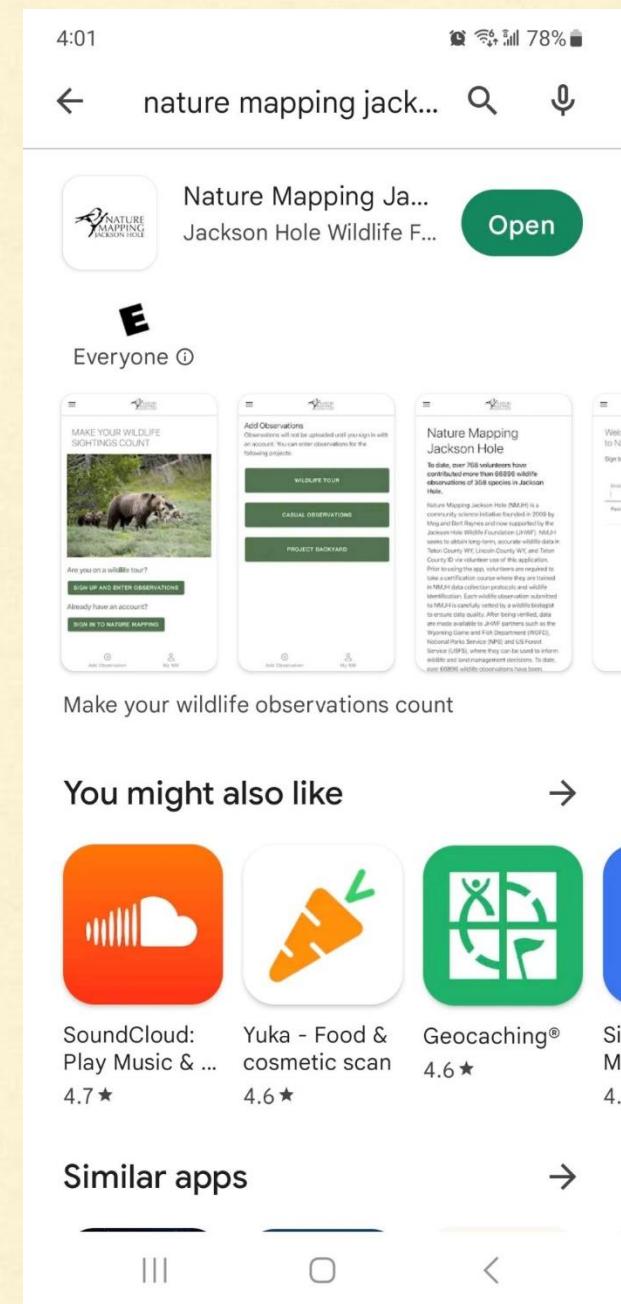
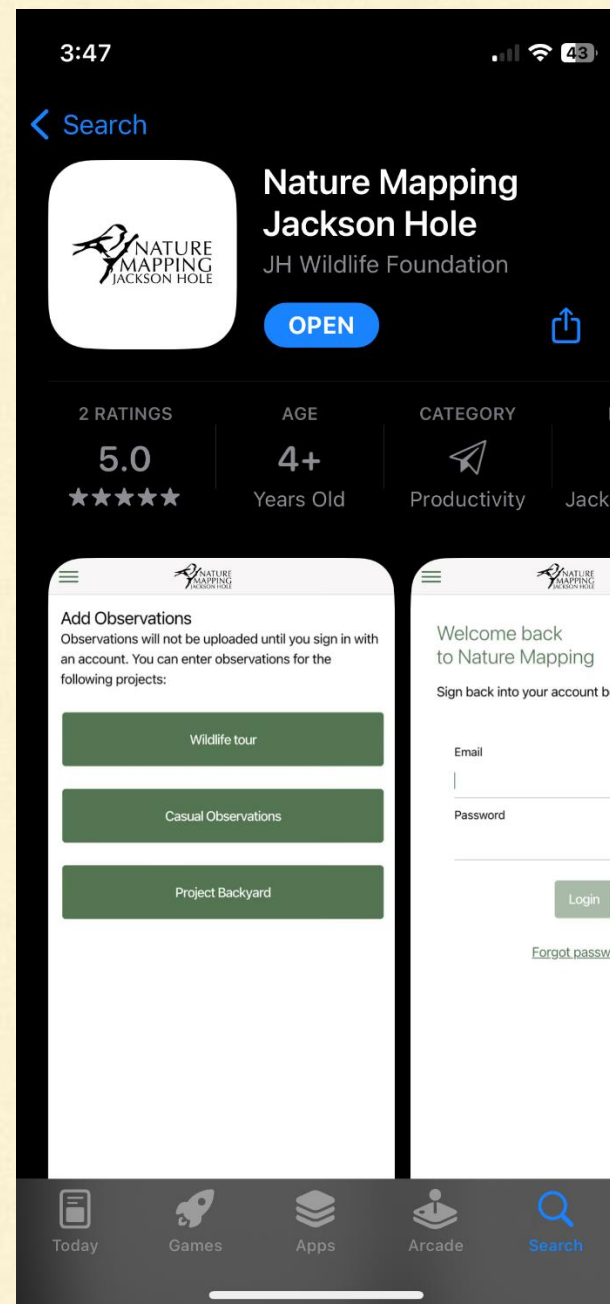
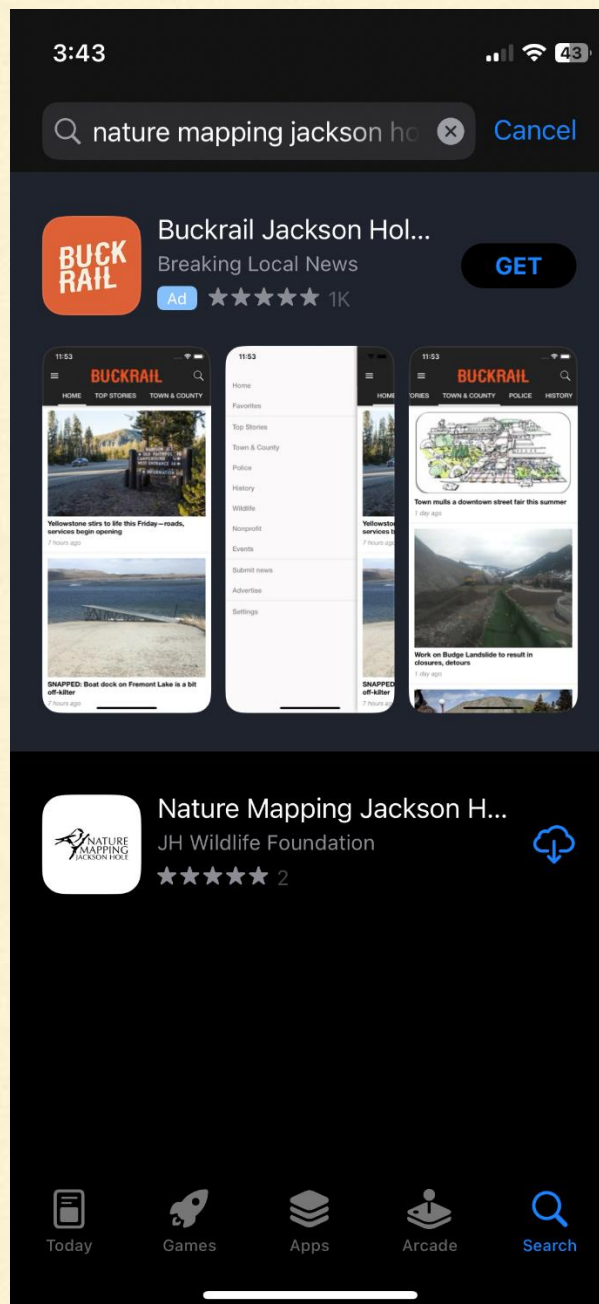
TABLE

Project	Date	Species	Quantity	Activity	Age	Sex	Mortality
Filter by project...		Filter by species...		Filter by activity...	Filter by age	Filter by sex...	Filter by 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

[eighbors-to-nature-cache-creek-study/](#)  Add Observation  My NM  Settings

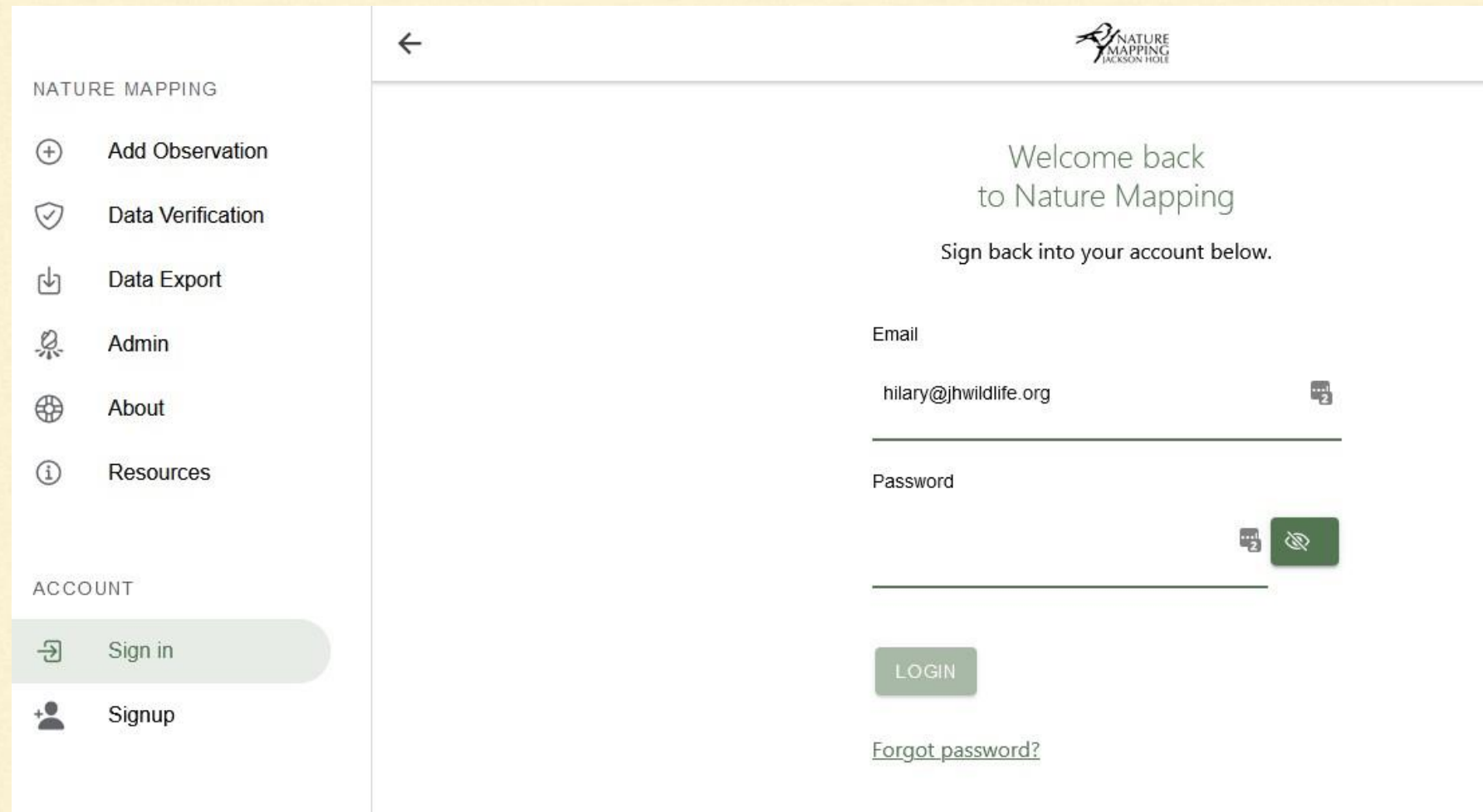


FINDING THE NATURE MAPPING APP



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

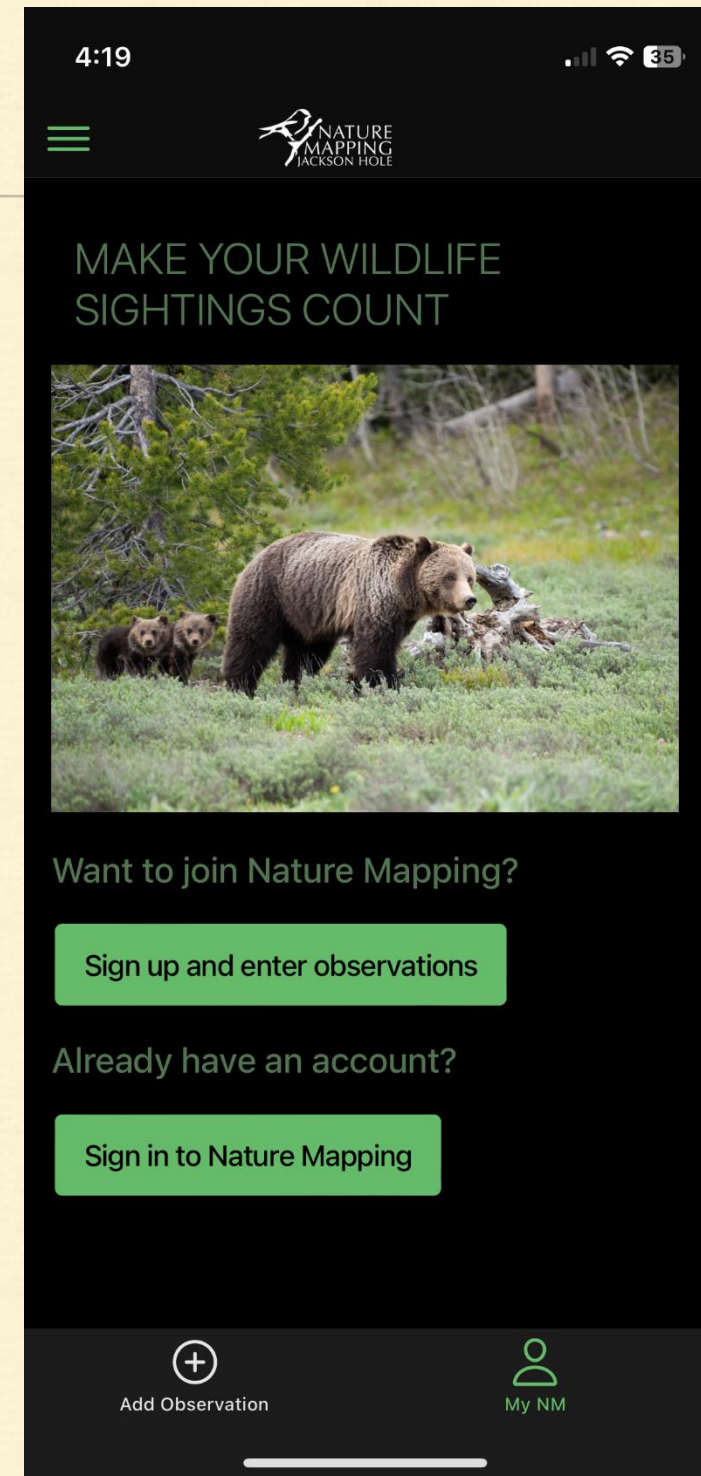
LOGGING IN TO NATURE MAPPING



The web interface for logging into Nature Mapping. On the left is a sidebar menu with options: Add Observation, Data Verification, Data Export, Admin, About, Resources, Sign in, and Signup. The main content area has a header with the Nature Mapping logo and a back arrow. Below the header, it says "Welcome back to Nature Mapping" and "Sign back into your account below." There are input fields for Email (containing "hilary@jhwildlife.org") and Password. A "LOGIN" button is at the bottom, along with a link for "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



The mobile app interface for Nature Mapping. At the top is a status bar showing the time (4:19) and battery level (35%). Below is a header with the Nature Mapping logo and a menu icon. The main content area has a large image of a bear and the text "MAKE YOUR WILDLIFE SIGHTINGS COUNT". Below the image, it says "Want to join Nature Mapping?" and "Already have an account?". There are two green buttons: "Sign up and enter observations" and "Sign in to Nature Mapping". At the bottom is a navigation bar with two icons: "Add Observation" and "My NM".

SETTING UP YOUR PROFILE

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

3187 South 2000 East

Driggs

ID

ACCOUNT

Settings

Logout

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

Add Observation My NM Settings

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

3187 South 2000 East

Driggs

ID

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

DATA COLLECTION PROTOCOL

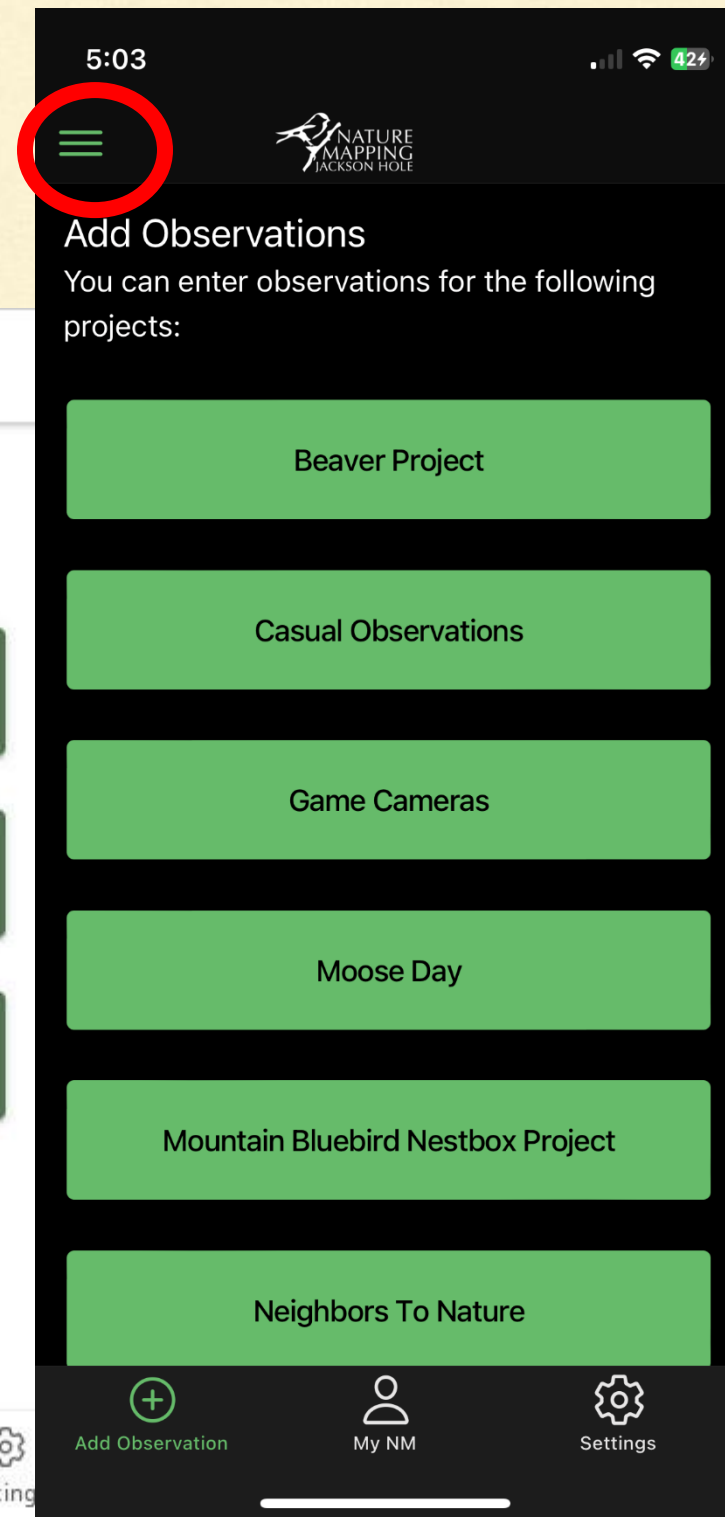
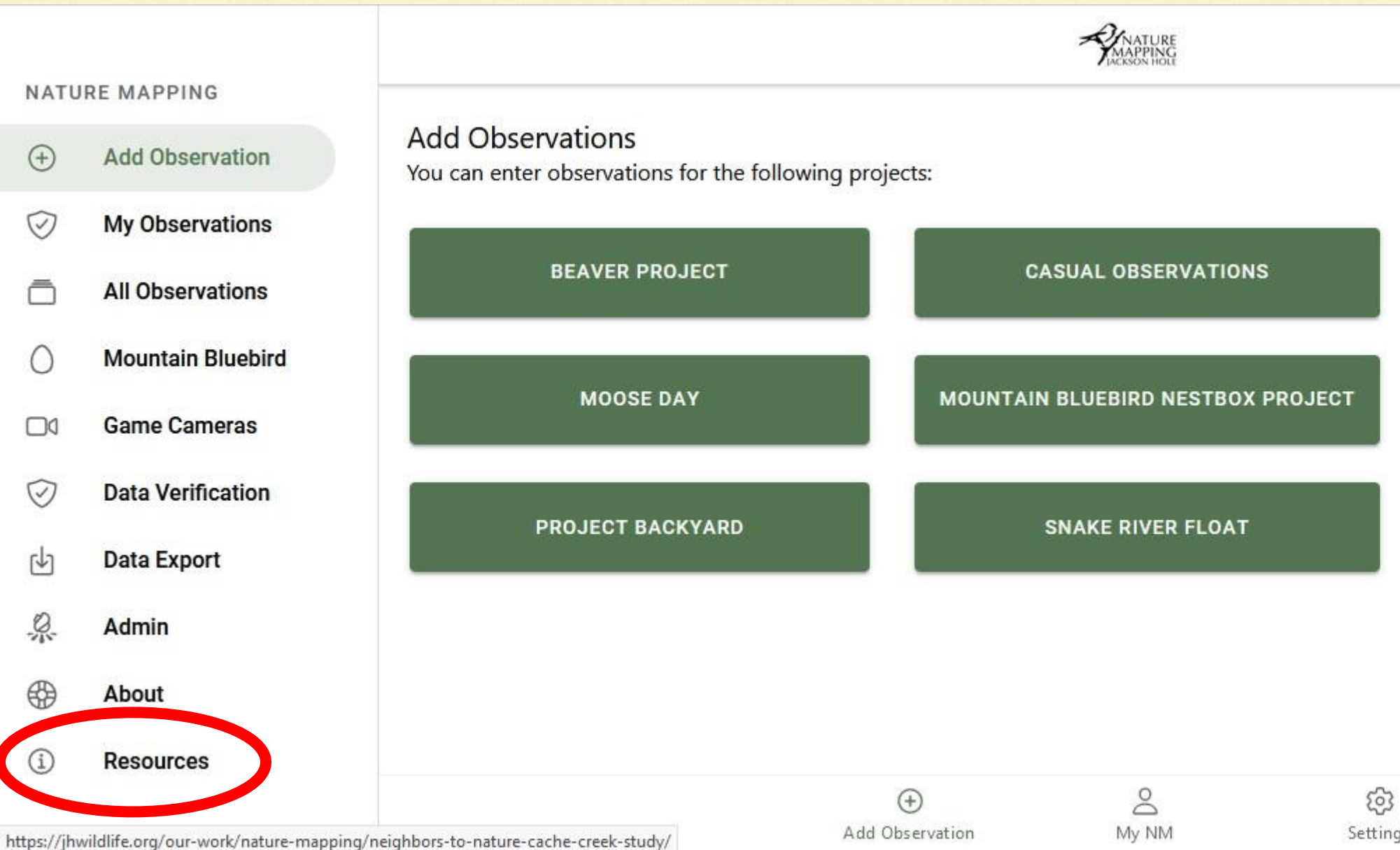
- Animal Type (Mammal, Amphibian, Bird, etc.)
- Species (Mule Deer, Black Bear, etc.)
- Date
- Time
- Notes
- Age
- Quantity
- Activity
- Location (of animal)
- Photo (optional)





OBSERVATION – LIVE DEMO

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



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 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: NMJH COMMUNITY



RESOURCES: JHWF YOUTUBE

☰

YouTube

Home

Shorts

Subscriptions

Library

History

Your videos

Watch later

Liked videos

Show more

Subscriptions

National Geogra... (1)

Wyoming Game ...

Search

🔍

🎤

+

🔔 2

👤

HOME

VIDEOS

PLAYLISTS

COMMUNITY

CHANNELS

ABOUT


🔍

>


29 views • 1 month ago

59 views • 2 months ago


30 views • 5 months ago




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#>

UPCOMING OPPORTUNITIES

- Amphibian surveys
- Pika surveying
- Cyber-tracking Class
- Black Footed-Ferret surveying

Photo by: Frank Stetler



Any Questions?



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

– John Muir
