

NATURE MAPPING JACKSON HOLE

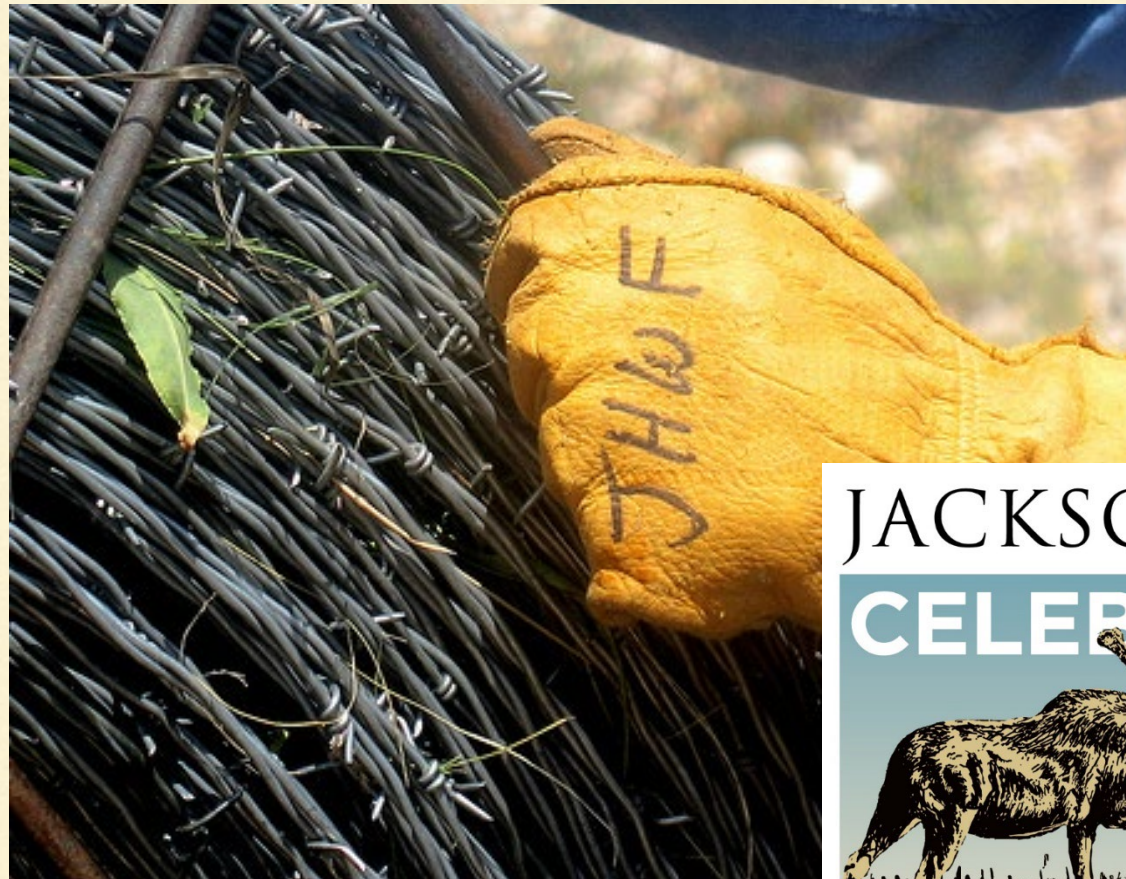
Make your wildlife sightings count



THE JACKSON HOLE WILDLIFE FOUNDATION



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)



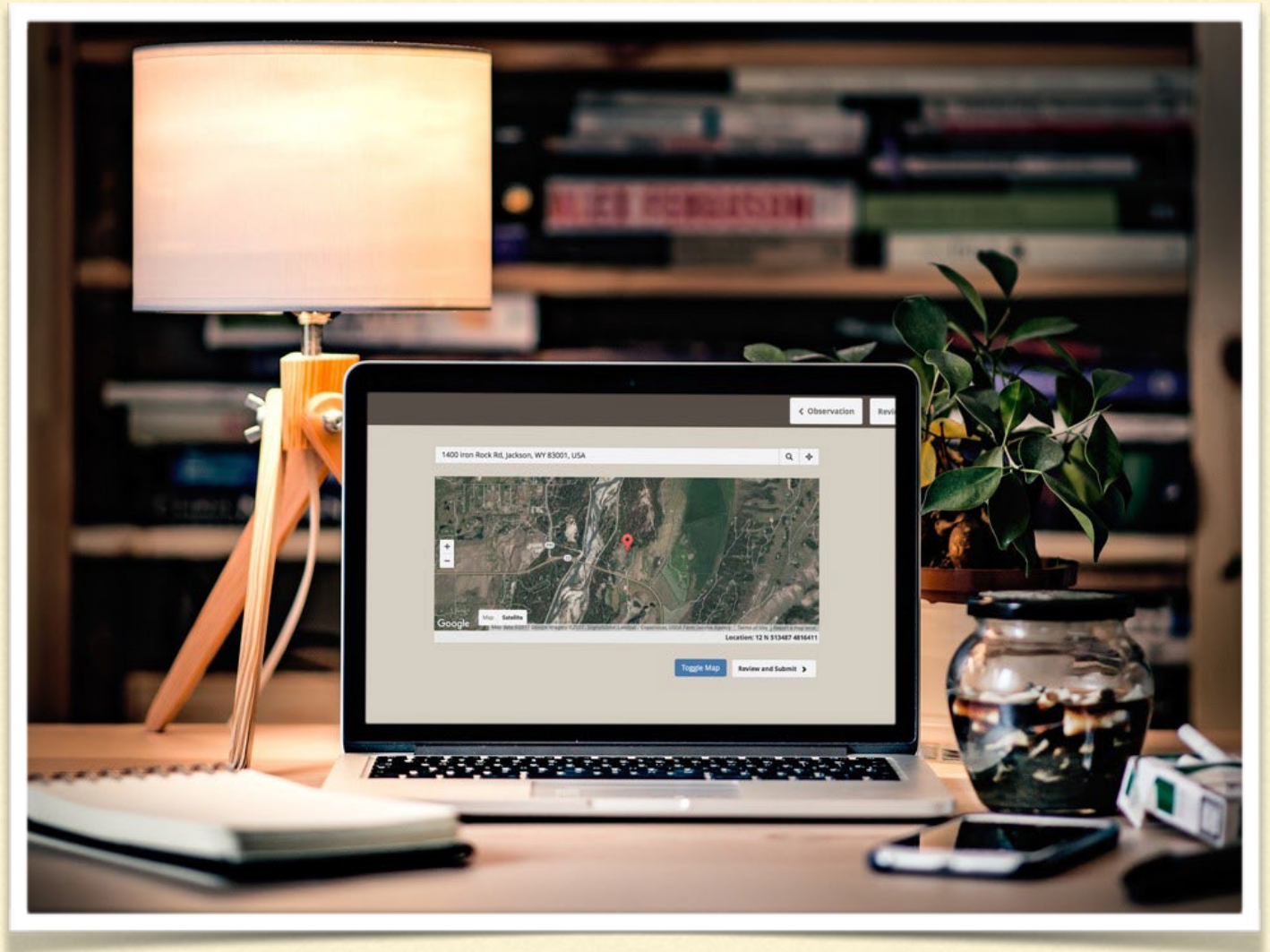
OBJECTIVES FOR TONIGHT

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

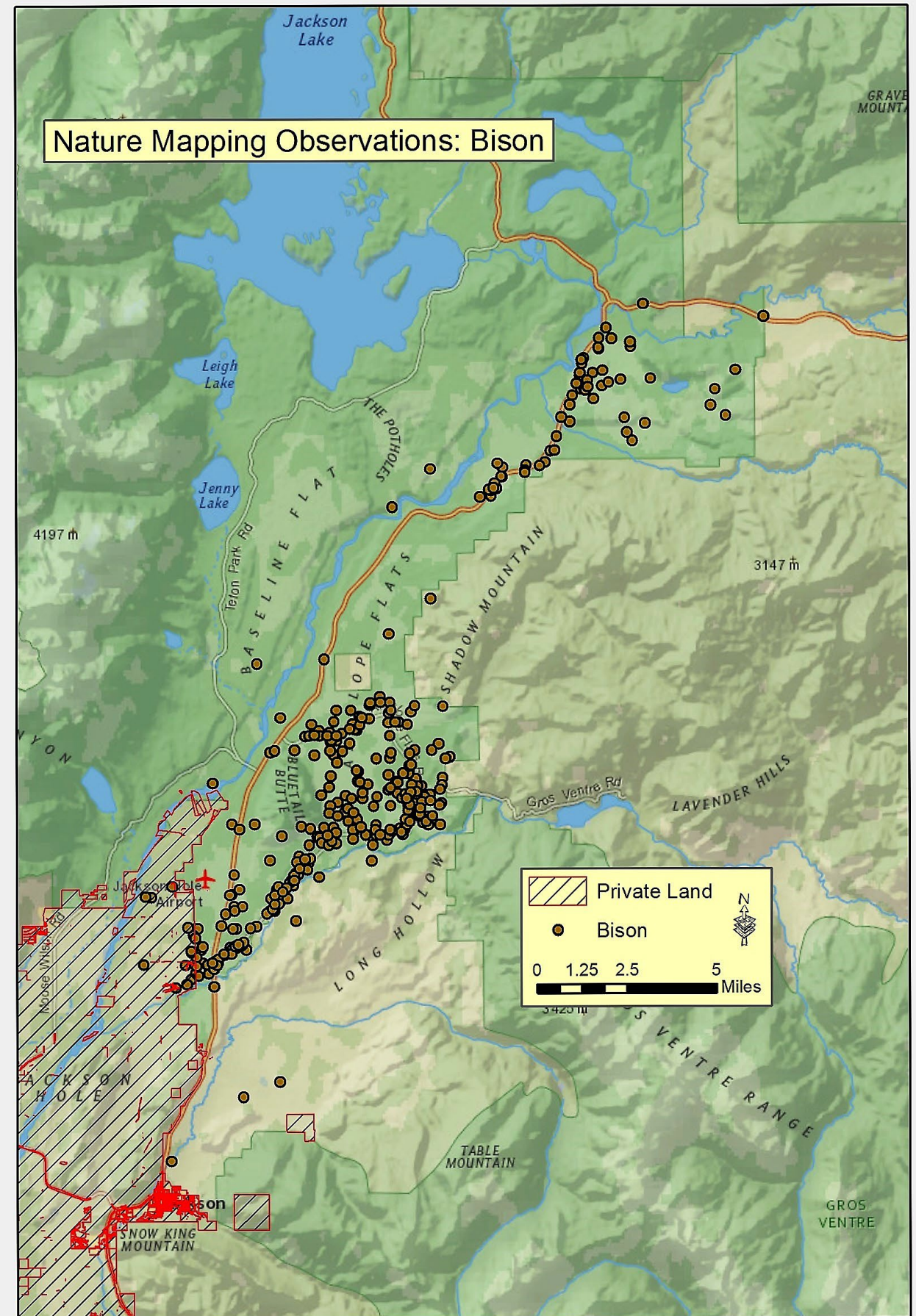
Understand the importance of following protocols

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



Fundamentals of Observations:

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



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!

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



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 - 7:00 a.m. - noon
- Work in teams
- Assigned areas
- Nature Mapping data complement WGFD data (private land vs. public land)



BEAVER PROJECT

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



SNAKE RIVER FLOAT TRIPS

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



MOUNTAIN BLUEBIRD NESTBOX MONITORING PROJECT



Photo by Vicki Morgan



SPRING - GREAT TIME TO START

- First of Year – FOYs

- Migrations of mammals and birds

- Baby animals



FALL - GREAT TIME TO START

- 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

WINTER - GREAT TIME TO START





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

NATURE MAPPING

+

Add Observation

✓

My Observations

📁

All Observations

📷

Photo Observations

🐦

Mountain Bluebird

📹

Game Cameras

✓

Data Verification

📄

Data Export

🛠

Admin

🌐

About

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

Spring
Rare

Summer
N/A

Occurrence

Fall
Rare

Winter
N/A

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

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!



OBSERVATION – LIVE DEMO



SPECIES ID, DETAILS, AND DEFINITIONS



SPECIES ID: SQUIRRELS



Uinta Ground Squirrel – “Chisler”



Golden Mantled Ground Squirrel

SPECIES ID: CHIPMUNKS



Least Chipmunk



Yellow Pine Chipmunk

SPECIES ID: RED SQUIRREL



SPECIES ID: AMERICAN BADGER



SPECIES ID: WOLVERINE



SPECIES ID: YELLOW-BELLIED MARMOT

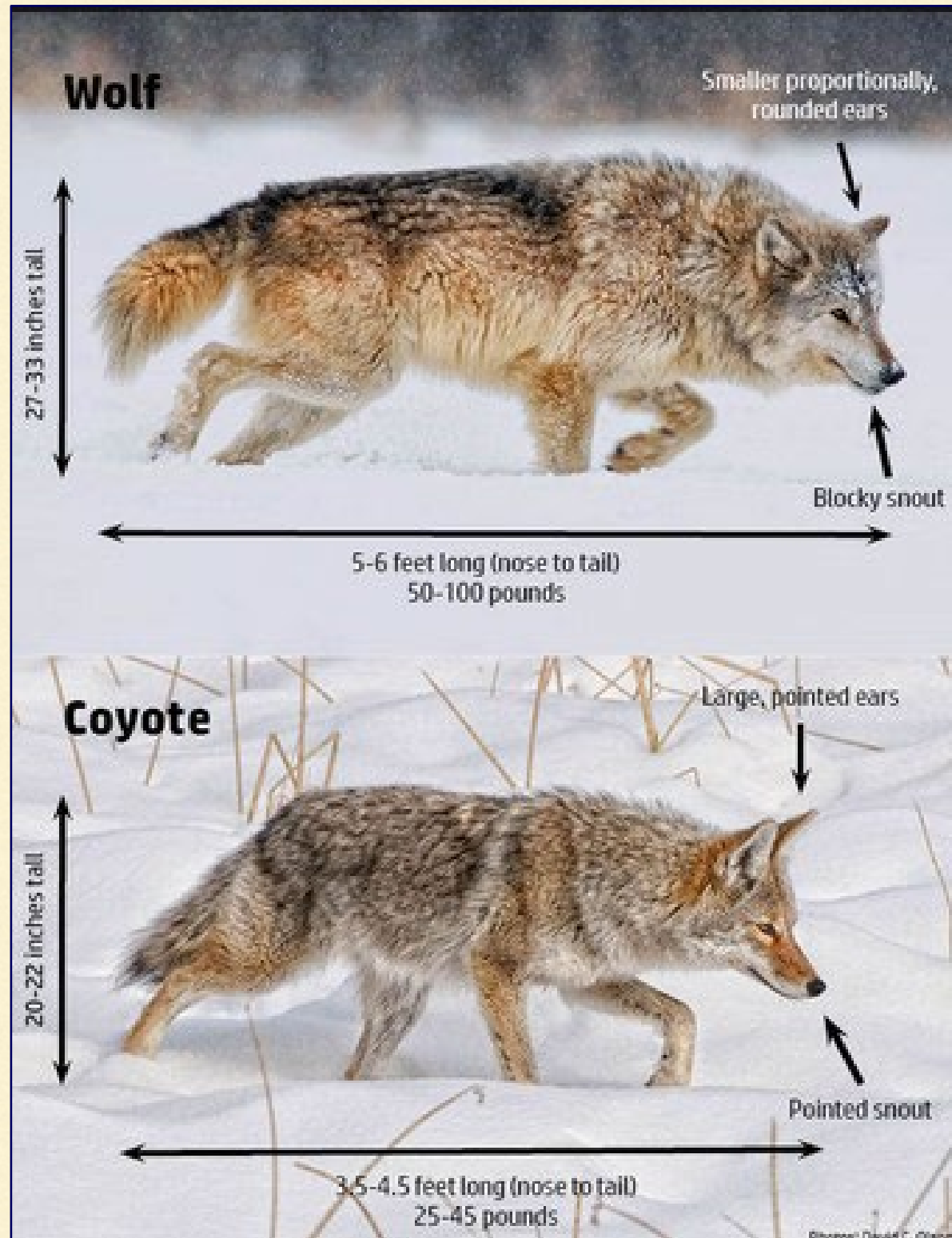


SPECIES ID: GRIZZLY AND BLACK BEARS

■ 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



WHITE-TAIL VS. MULE DEER DOES



Mule deer doe



White-tailed deer doe

WHITE-TAIL VS. MULE DEER BUCKS

Mule deer buck



White-tailed deer buck



SPECIES ID: WHITE-TAIL VS. MULE



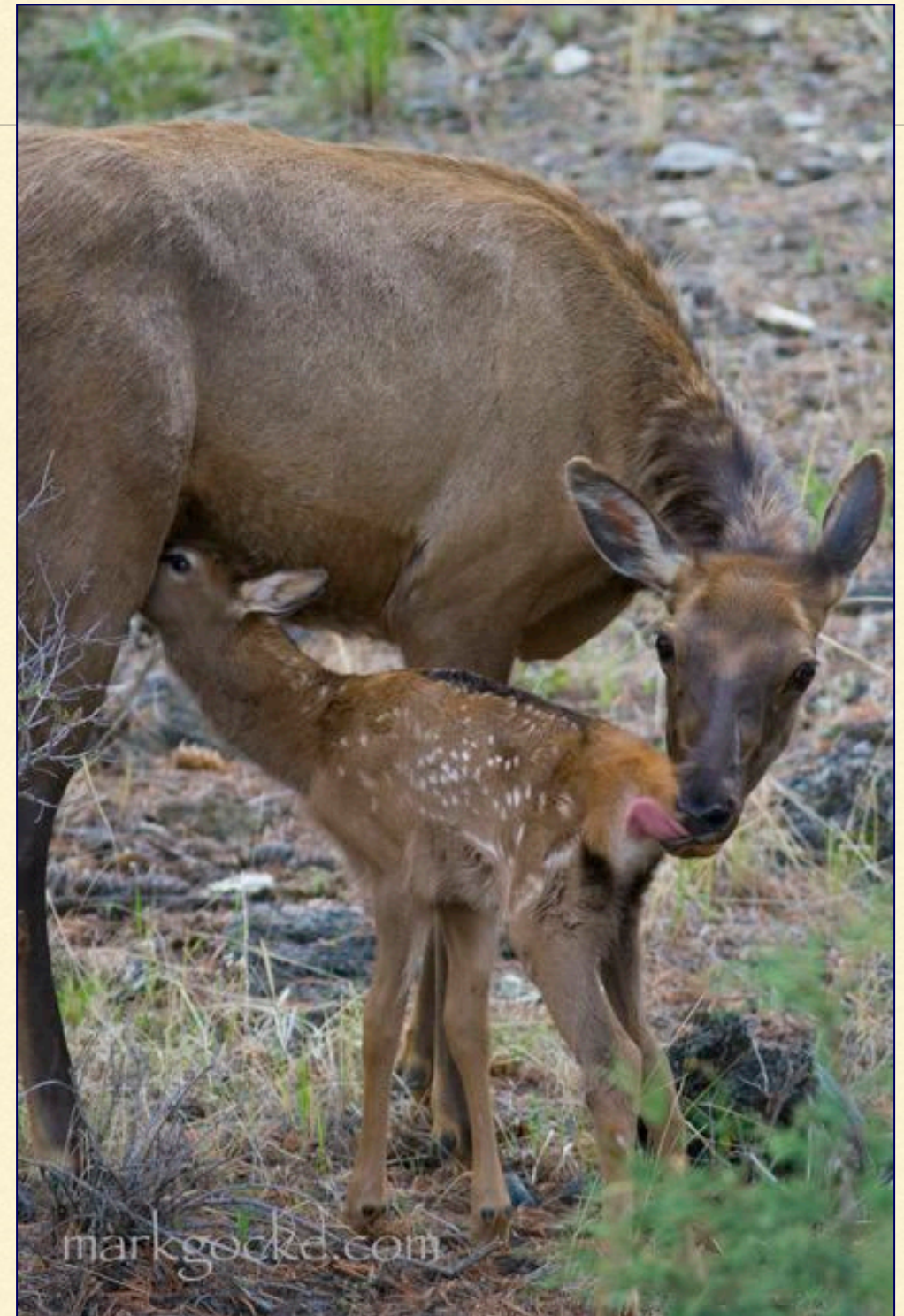
Main beam with single, vertical points Antler with multiple forks

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



SPECIES ID: GREAT GRAY OWL



1. Concentric Facial Rings

2. No ear tufts

3. Overall Grayish Color

SPECIES ID: GREAT HORNED OWL

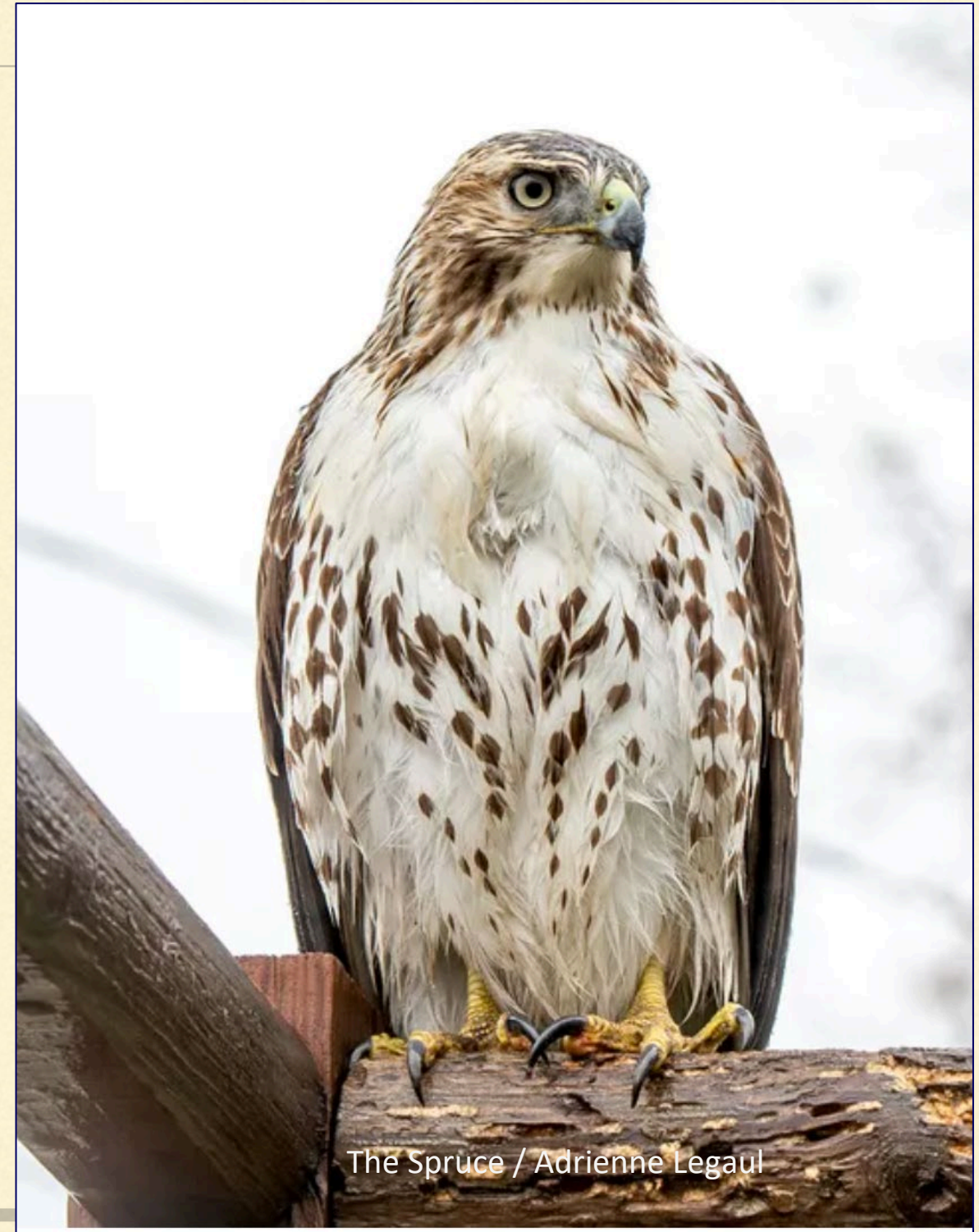
Photo by John Norton



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



Red-tailed Hawk - © Lance Wilson

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: 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

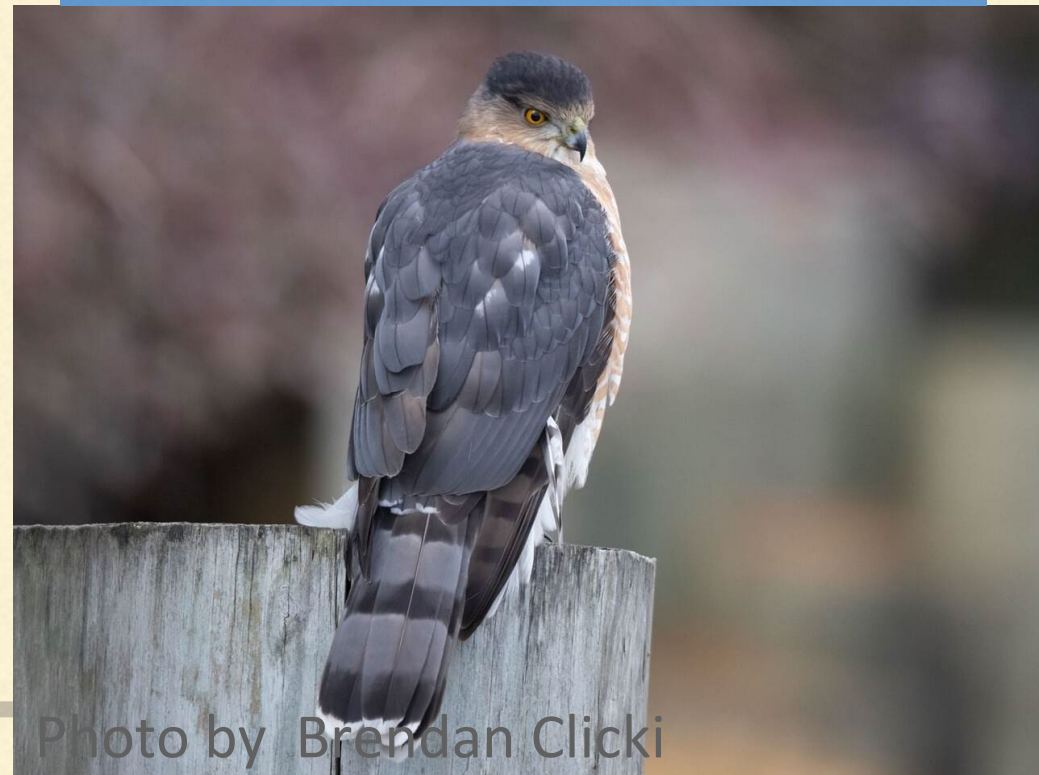


Photo by Brendan Clicki



SPECIES ID: BALD EAGLE



Photo by Benjamin Hack



Photo by Matt Davis

SPECIES ID: GOLDEN EAGLE



Photo by Bryan Calk



Photo by Lars Petersson

WHICH EAGLE IS WHICH?



Photo by John Reynolds

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



SPECIES ID: SEMIPALMATED SANDPIPER



SPECIES ID: RUFOUS HUMMINGBIRD



SPECIES ID: CALLIOPE HUMMINGBIRD



SPECIES ID: BROAD-TAILED HUMMINGBIRD



SPECIES ID: BLACK-CHINNED HUMMINGBIRD





SPECIES ID: FEMALE/IMM HUMMINGBIRDS



CALLIOPE HUMMINGBIRD



RUFOUS HUMMINGBIRD



BROAD-TAILED HUMMINGBIRD



BLACK-CHINNED HUMMINGBIRD



SPECIES ID: NORTHERN SHRIKE



Photo by Stephane Dery



SPECIES ID: STELLER'S JAY



SPECIES ID: CHICKADEES



Black-capped



Mountain

SPECIES ID: WESTERN MEADOWLARK



SPECIES ID: WAXWINGS





SPECIES ID: BLACK ROSY-FINCH



SPECIES ID: DARK-EYED JUNCOS



Pink-sided



Oregon

SPECIES ID: AMERICAN GOLDFINCH



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

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

SEX: UNKNOWN

The sex of many species cannot be determined or observed:

- Squirrels
- Swans
- Snakes
- Many songbirds and raptors

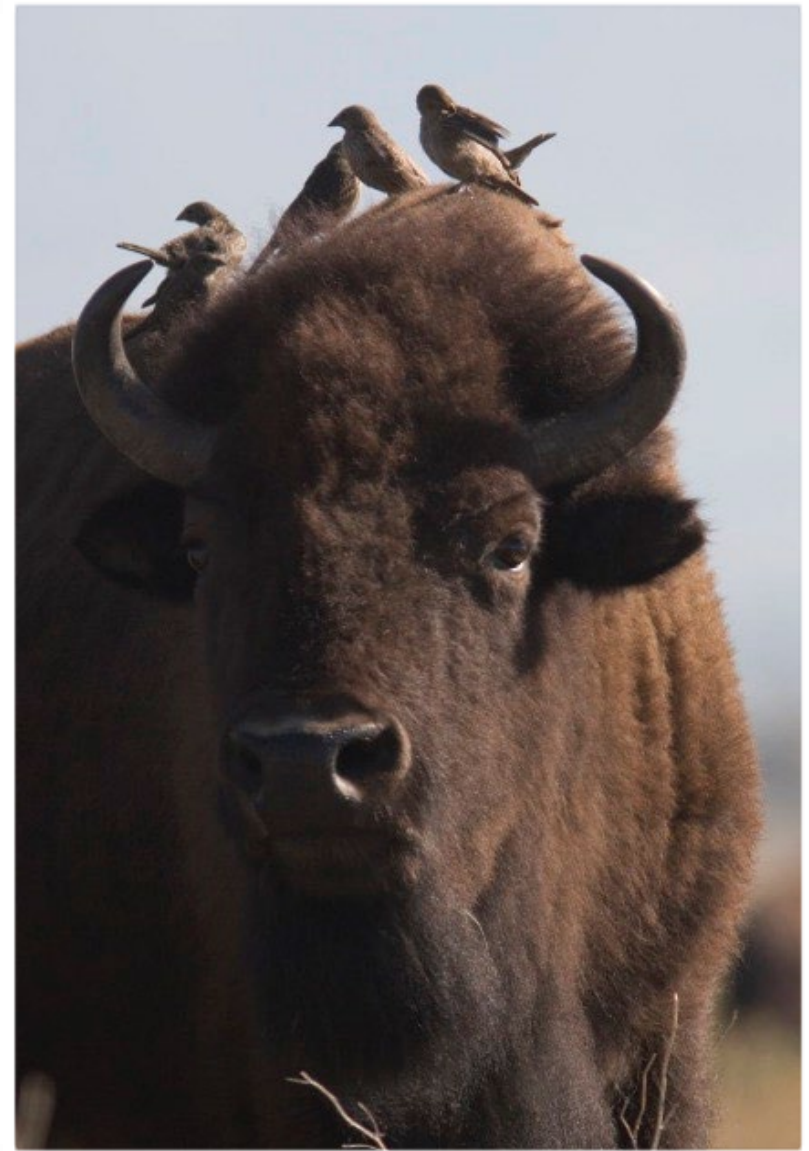


Photo by Malcolm Gold

SEX: BISON MALE VS. FEMALE



Male: Less curved horns



Female: More curved horns

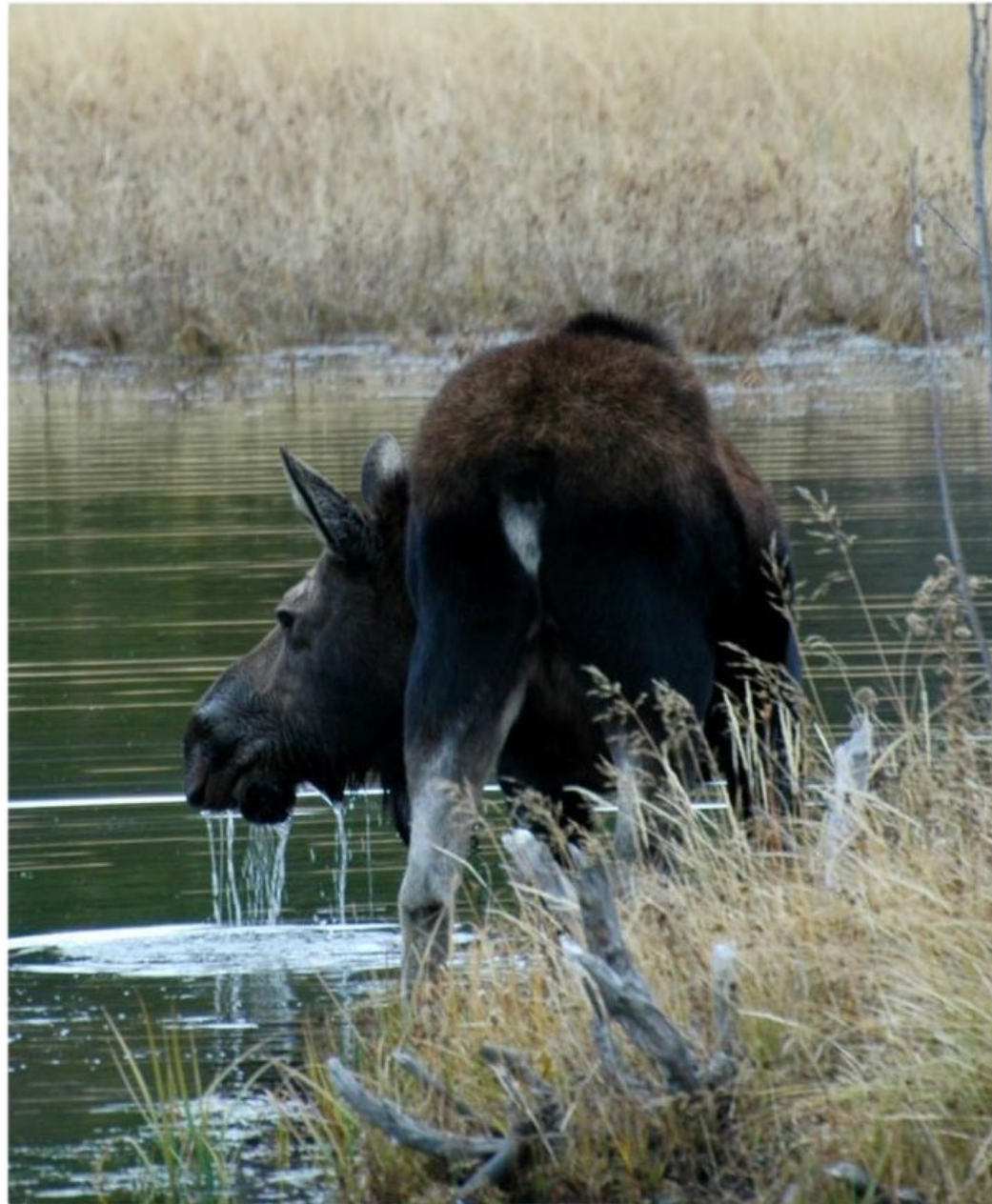
SEX: BISON



SEX: MOOSE MALE



SEX: MOOSE FEMALE



SEX: PRONGHORN



Male



Female

SEX: BARROW'S GOLDENEYE



Male

Female

SEX: MOUNTAIN BLUEBIRD



Male

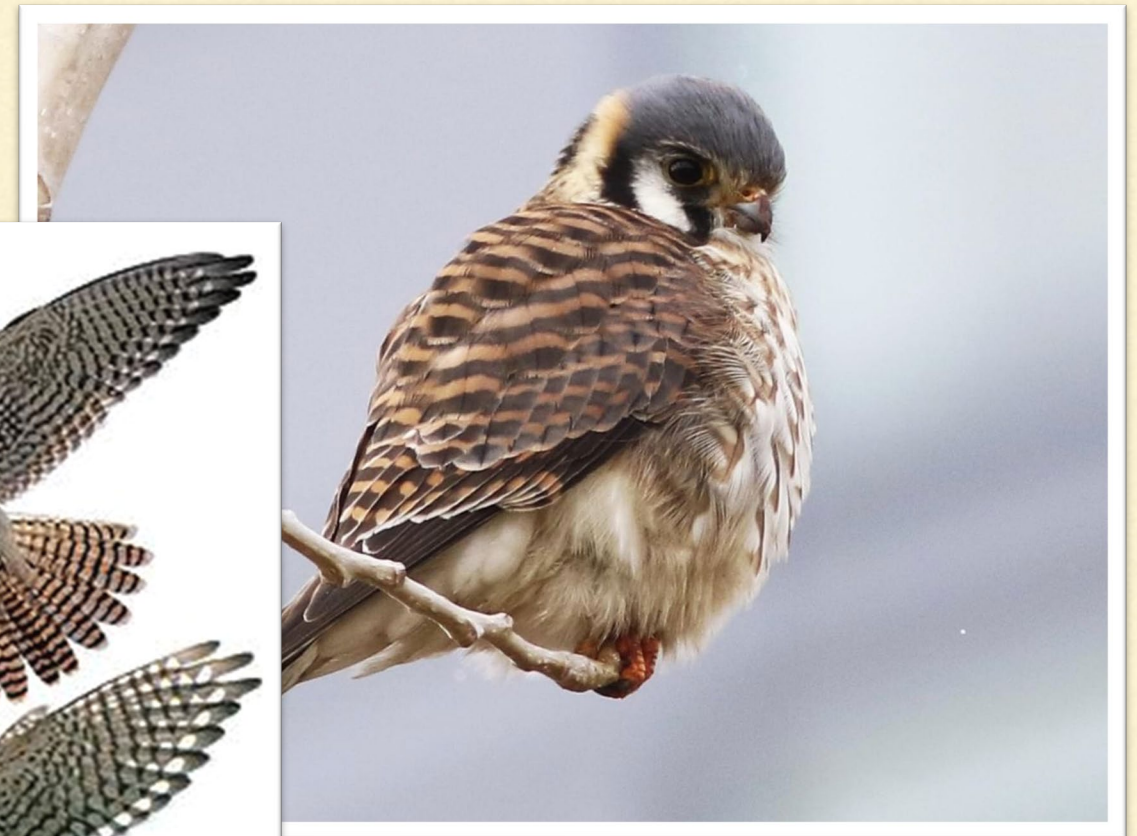


Female

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



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



ACTIVITY:

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



ACTIVITY: SIGN (TRACK/SCAT)



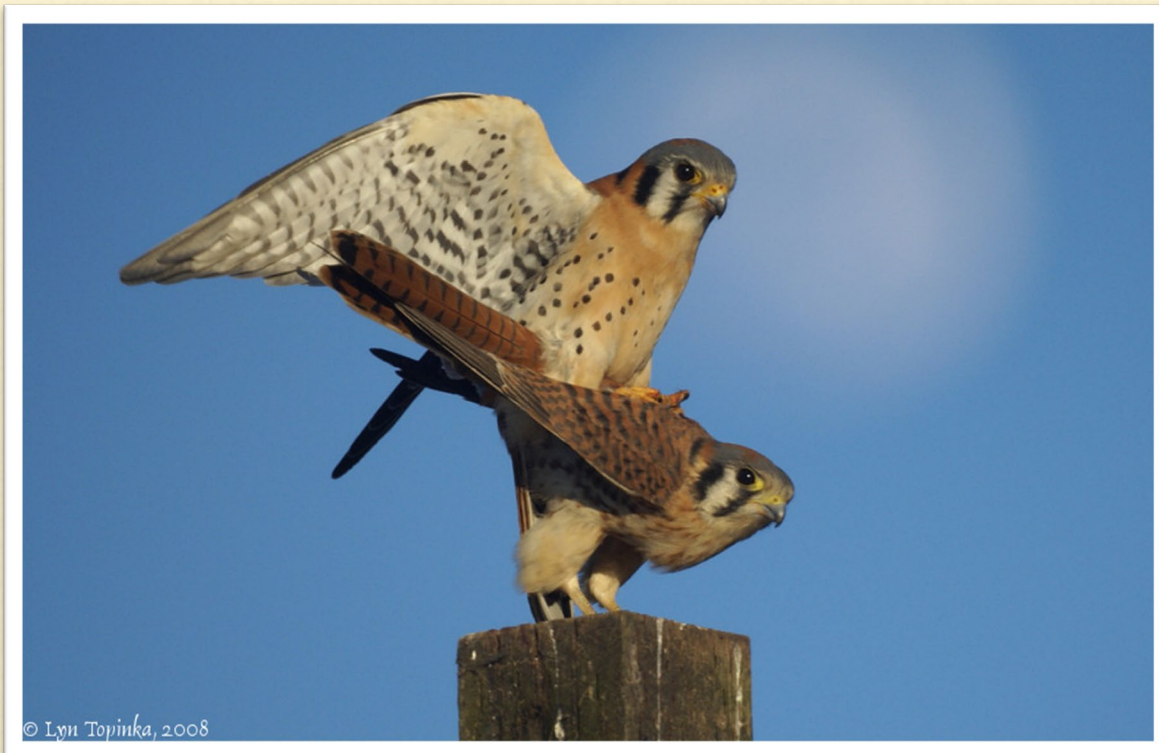


ACTIVITY: ACTIVE BIRD FEEDER



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

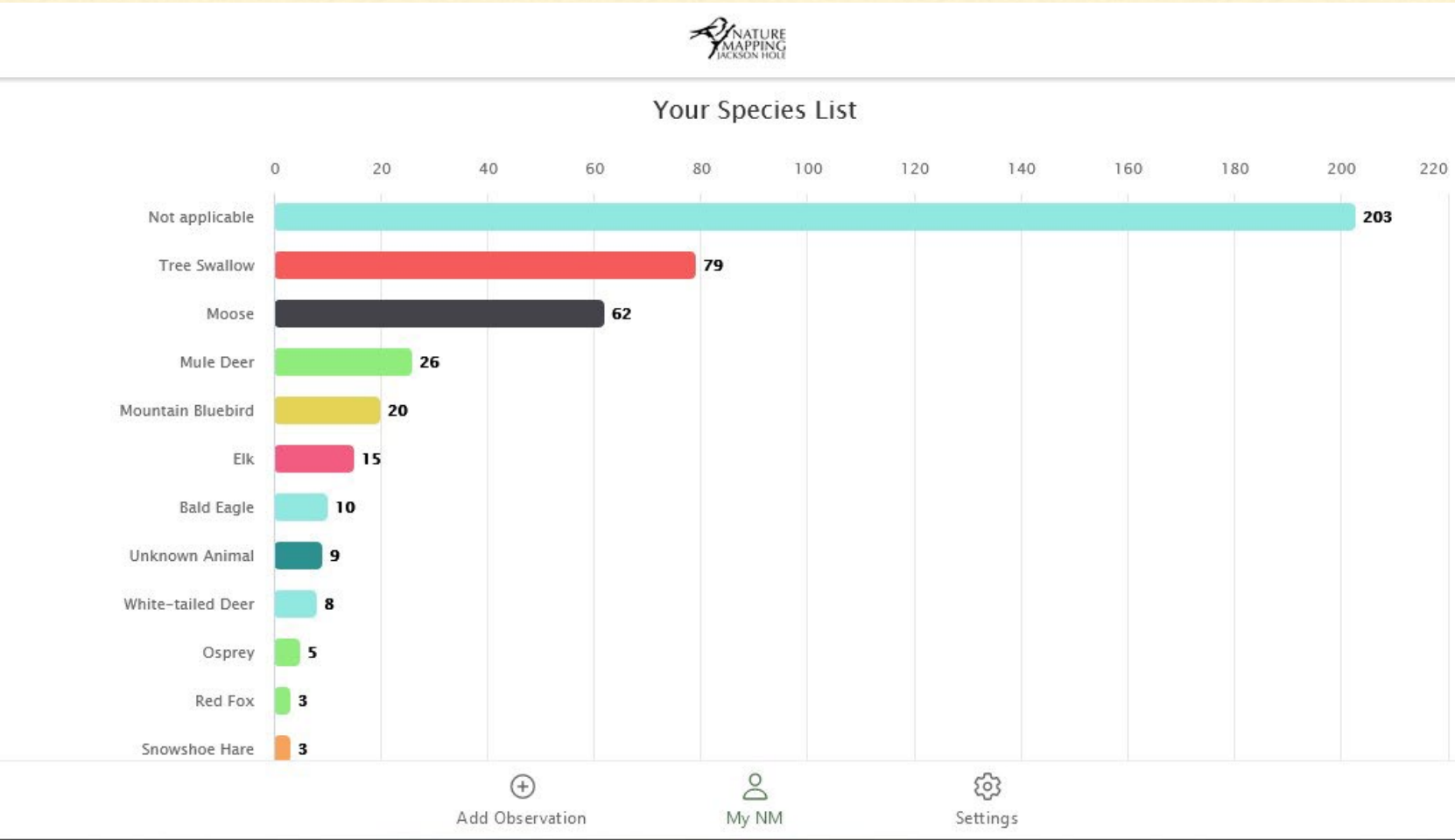


Submitted Observations
530 Observations

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 WEBSITE

[NATURE MAPPING LOGIN](#)



[MOOSE DAY](#)

[ABOUT US](#) ▾

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Thanks for a great year!

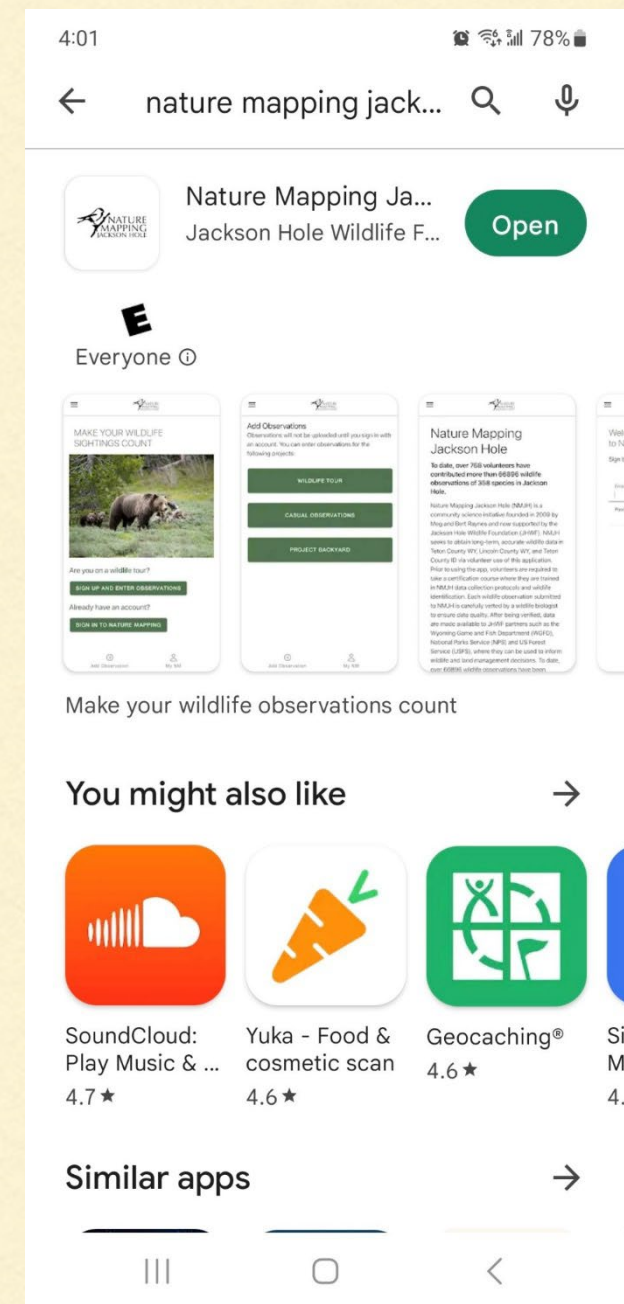
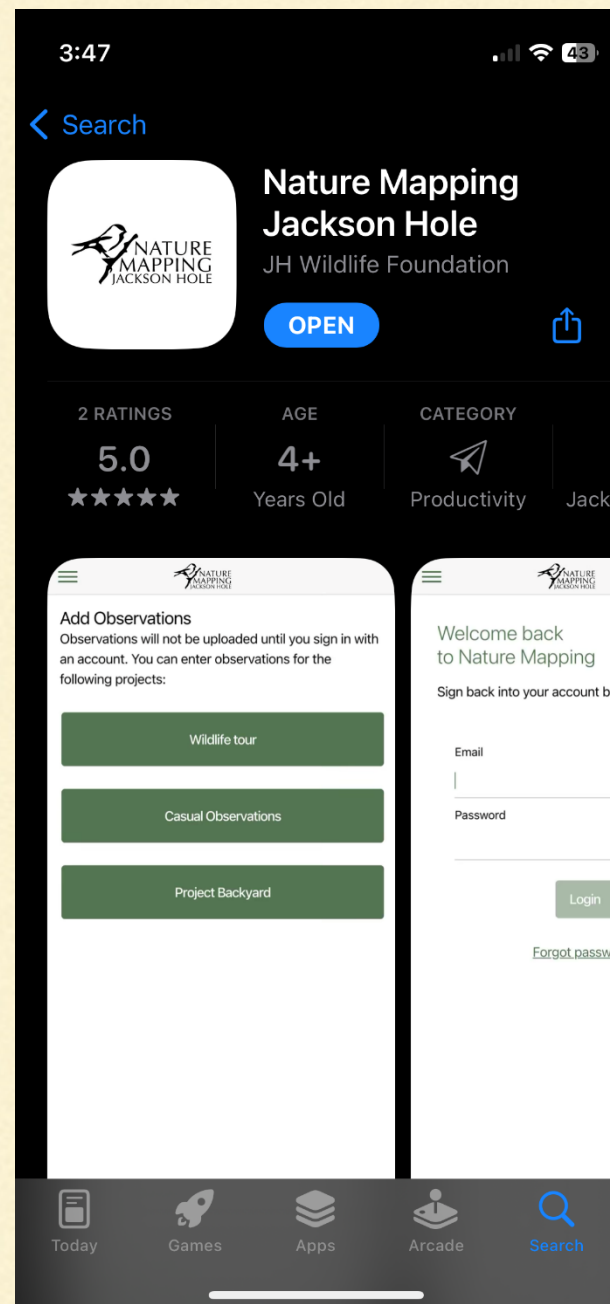
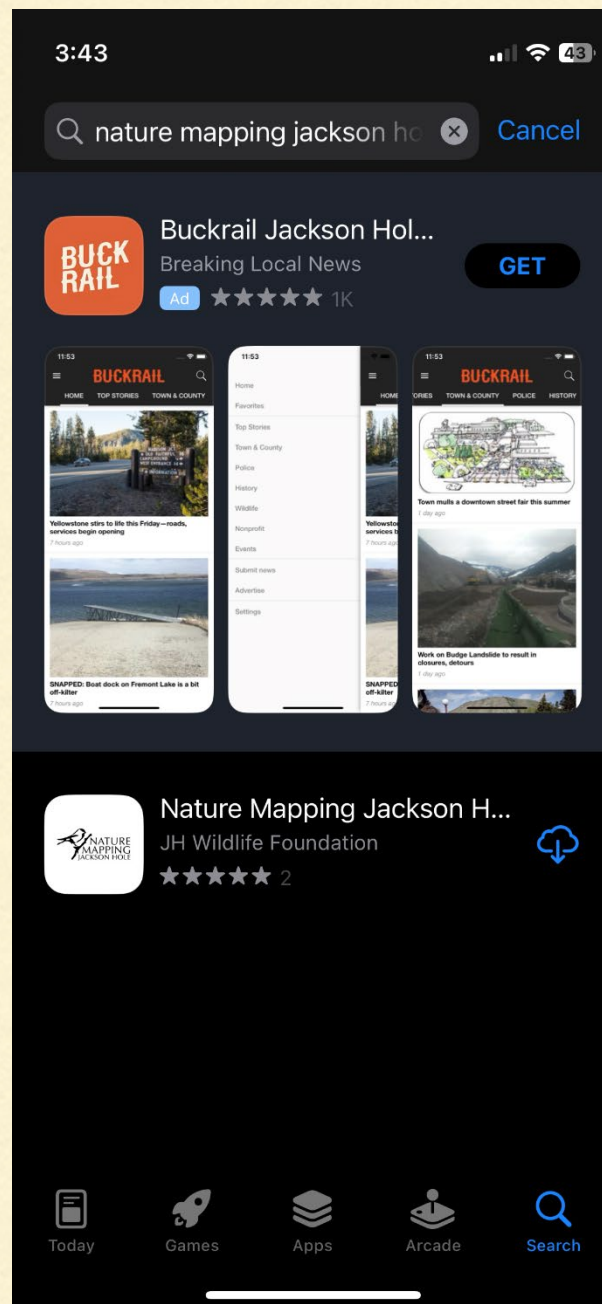
From wildlife-friendlier fence projects deep in the Gros Ventre wilderness to maintaining bluebird nestboxes on the National Elk Refuge, learn what kept us busy in 2022 in this end-of-year success report!

[Donate](#)



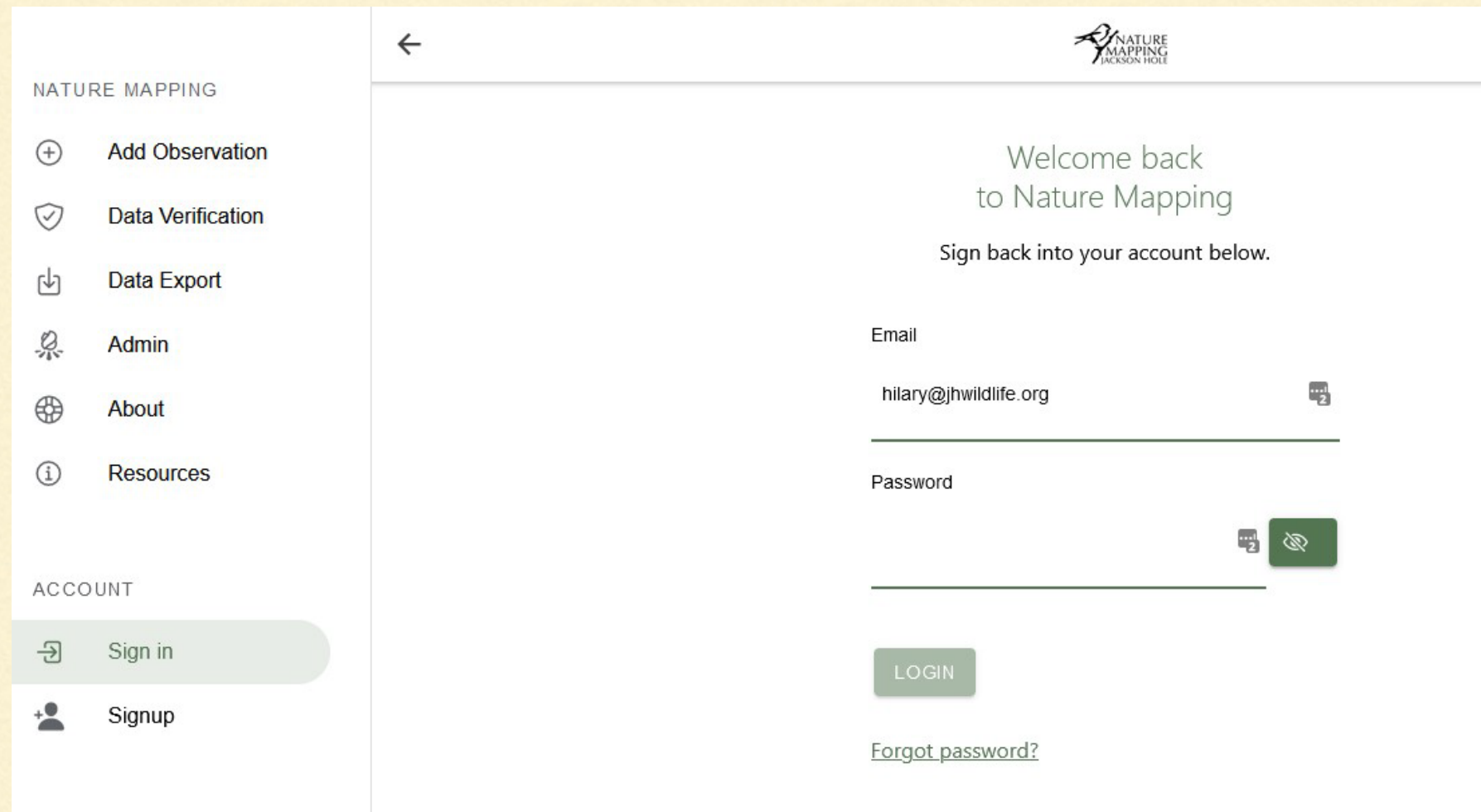
Start at our Home Page: jhwildlife.org

FINDING THE NATURE MAPPING APP

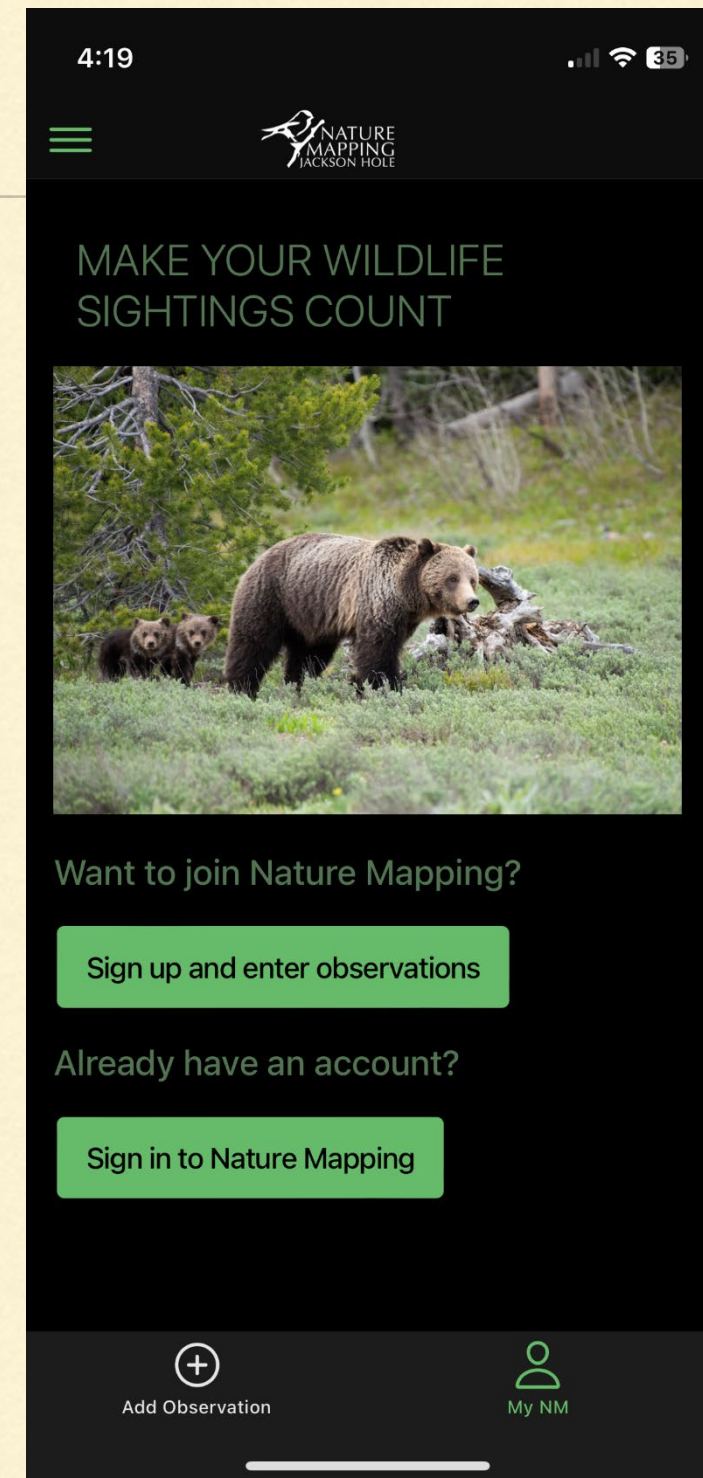


Search for “Nature Mapping Jackson Hole” in your App Store

LOGGING IN TO NATURE MAPPING



The desktop interface shows a sidebar on the left with navigation links under 'NATURE MAPPING' (Add Observation, Data Verification, Data Export, Admin, About, Resources) and 'ACCOUNT' (Sign in, Signup). The main content area is titled 'Welcome back to Nature Mapping' and 'Sign back into your account below.' It contains input fields for 'Email' (with the example 'hilary@jhwildlife.org') and 'Password'. There are icons for email verification and password visibility. A 'LOGIN' button and a '[Forgot password?](#)' link are at the bottom.



The mobile app interface features a dark theme. At the top, it shows the time (4:19), signal strength, and battery level (35%). Below the hamburger menu and logo, a banner reads 'MAKE YOUR WILDLIFE SIGHTINGS COUNT' with a photo of a bear. The main content area asks 'Want to join Nature Mapping?' with a green button 'Sign up and enter observations', and 'Already have an account?' with a green button 'Sign in to Nature Mapping'. The bottom navigation bar has 'Add Observation' and 'My NM' icons.

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>

NATURE MAPPING JACKSON HOLE

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%

NATURE MAPPING JACKSON HOLE

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**

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

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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 and ask questions





TEST OBSERVATION #1

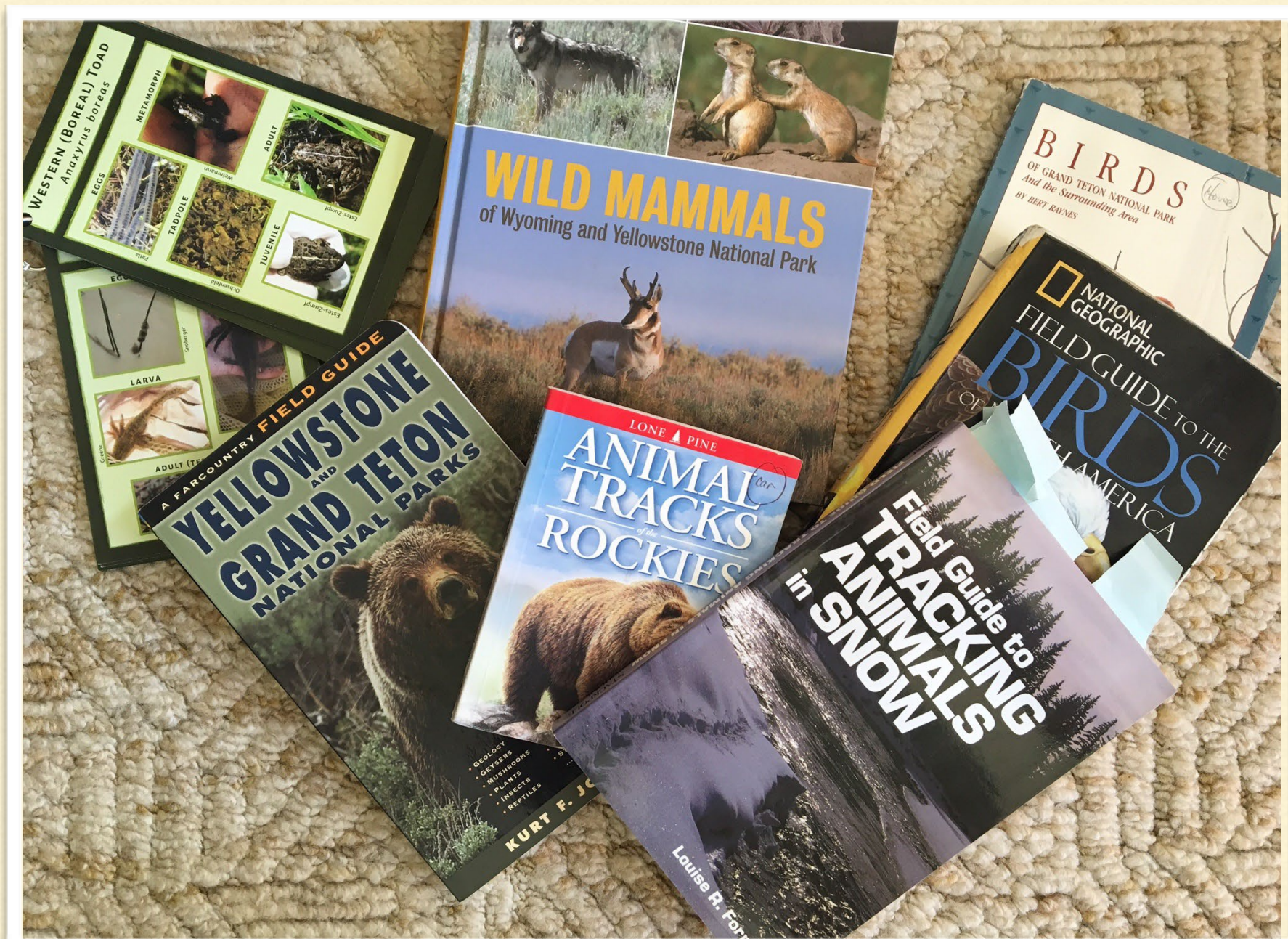
Date: August 25, 2015, Time: 5:00 PM Location: Antelope Flats



TEST OBSERVATION #2

Date: April 30, 2017, Time: 8:15 AM, east of Kelly Warm Springs

RESOURCES: GUIDE BOOKS



RESOURCES: NMJH E-NEWS

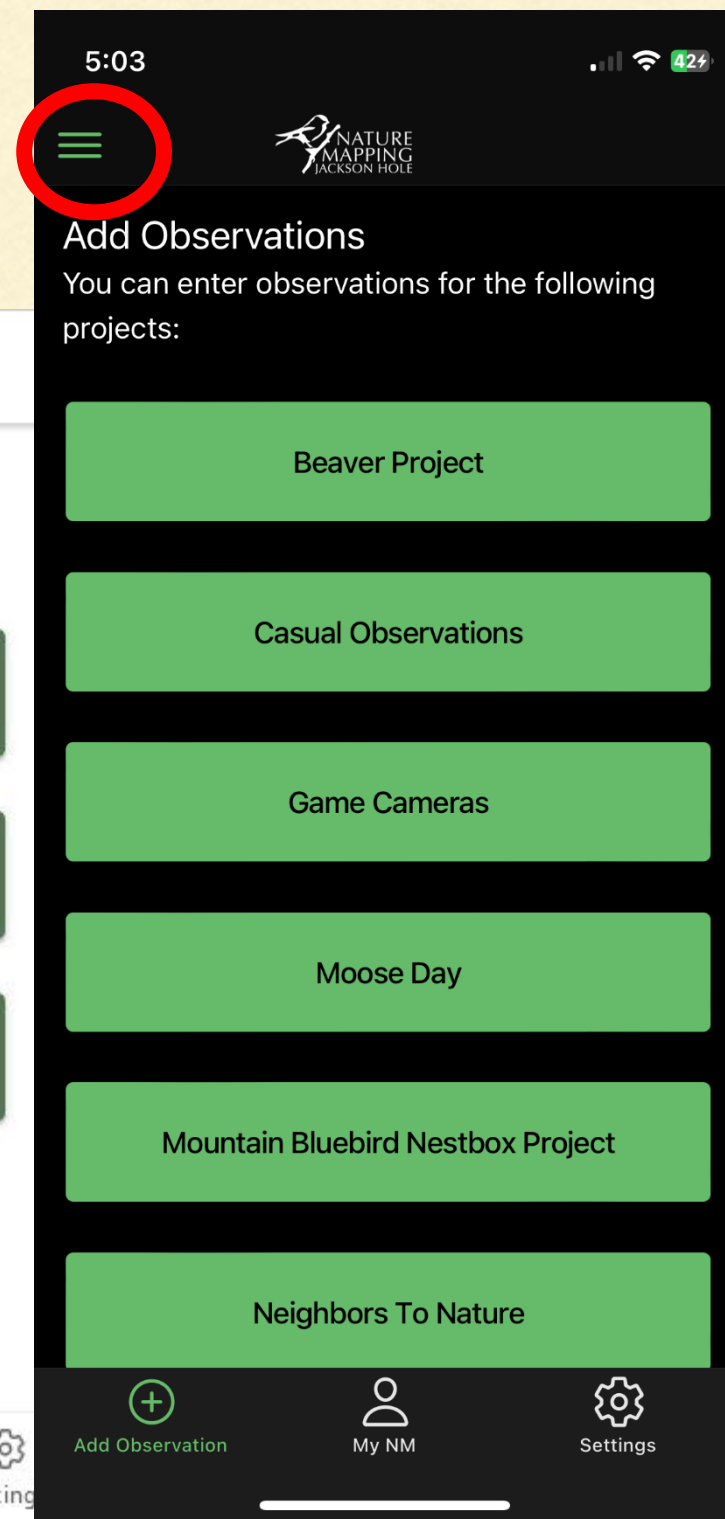
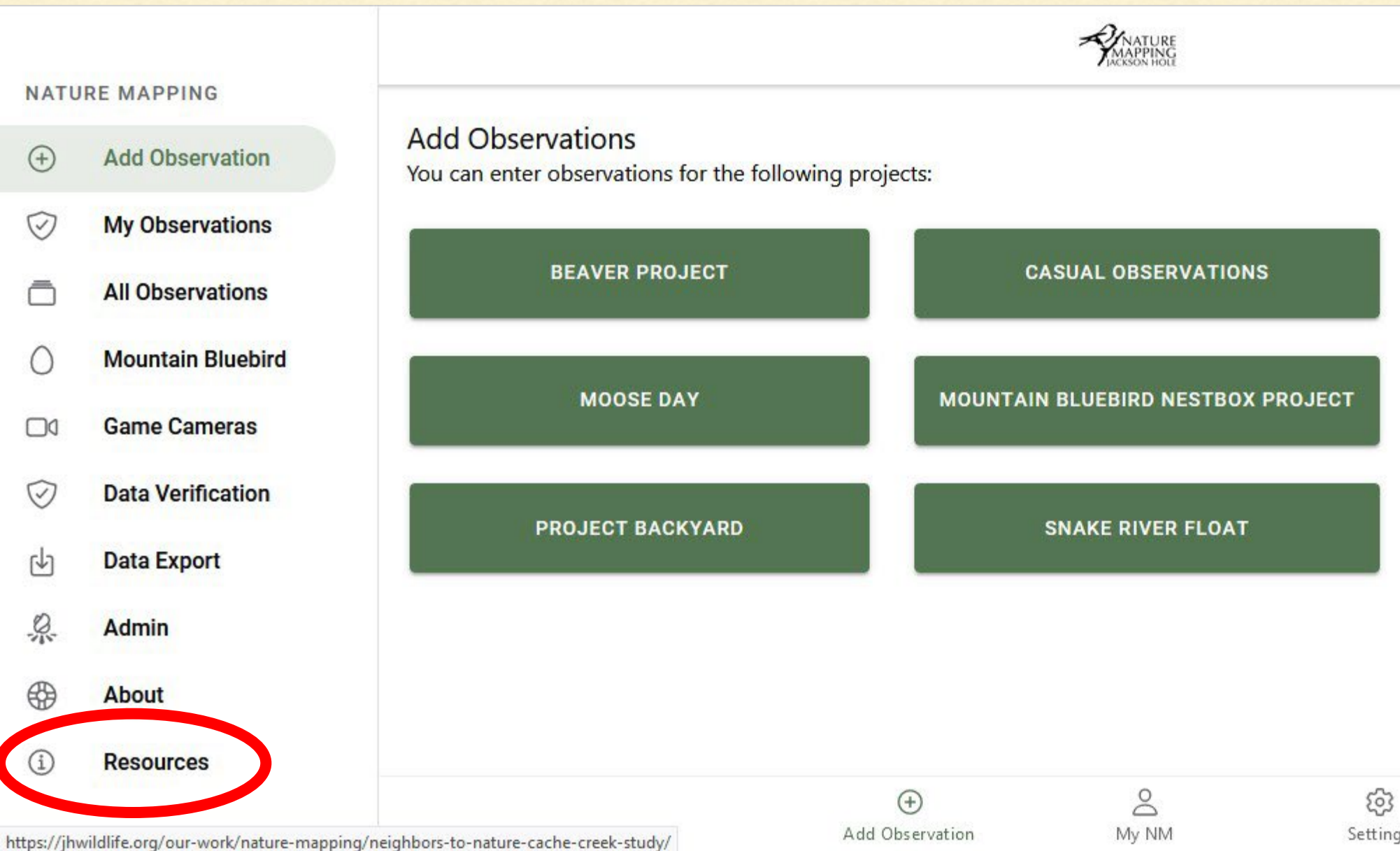
A watercolor illustration of a moose head in profile, facing left. The moose has large, multi-tined antlers. The background is a soft, painterly wash of light blues, greys, and browns, suggesting a forest or snowy environment. The moose's fur is dark and textured with visible brushstrokes.

Enews

January 2021



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 ▾

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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

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RESOURCES: JHWF YOUTUBE

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Wyoming Game ...

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🎤

+

🔔 2

👤

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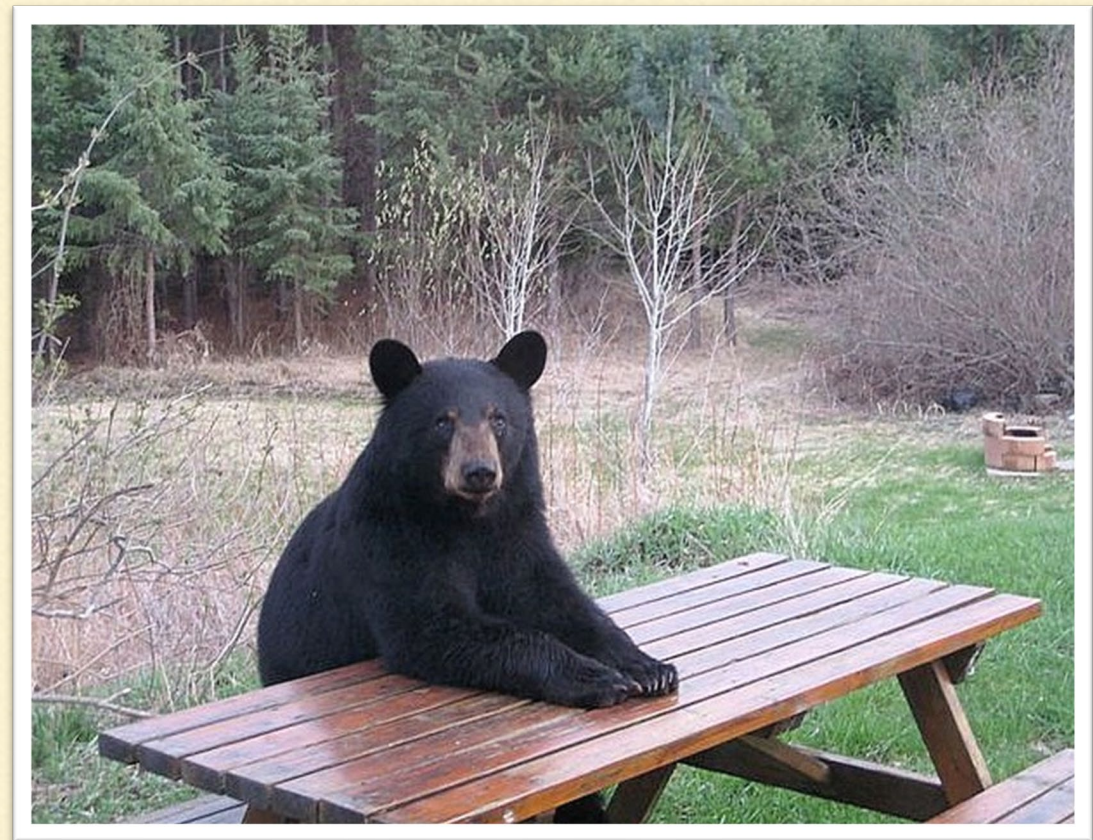
RESOURCES: NMJH COMMUNITY



UPCOMING OPPORTUNITIES

- 8/26 – Fence Removal Project in the Gros Ventre
 - 9/14 – 30th Anniversary Celebration Potluck at Old Wilson Schoolhouse
 - Email hilary@jhwildlife.org to sign up
-

THANK YOU FOR BECOMING CERTIFIED NATURE MAPPERS!



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

— John Muir
