

NATURE MAPPING JACKSON HOLE

Make your wildlife sightings count



JACKSON HOLE



WILDLIFE
FOUNDATION

THE JACKSON HOLE WILDLIFE FOUNDATION



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



JACKSON HOLE



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 County, Wyoming

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)



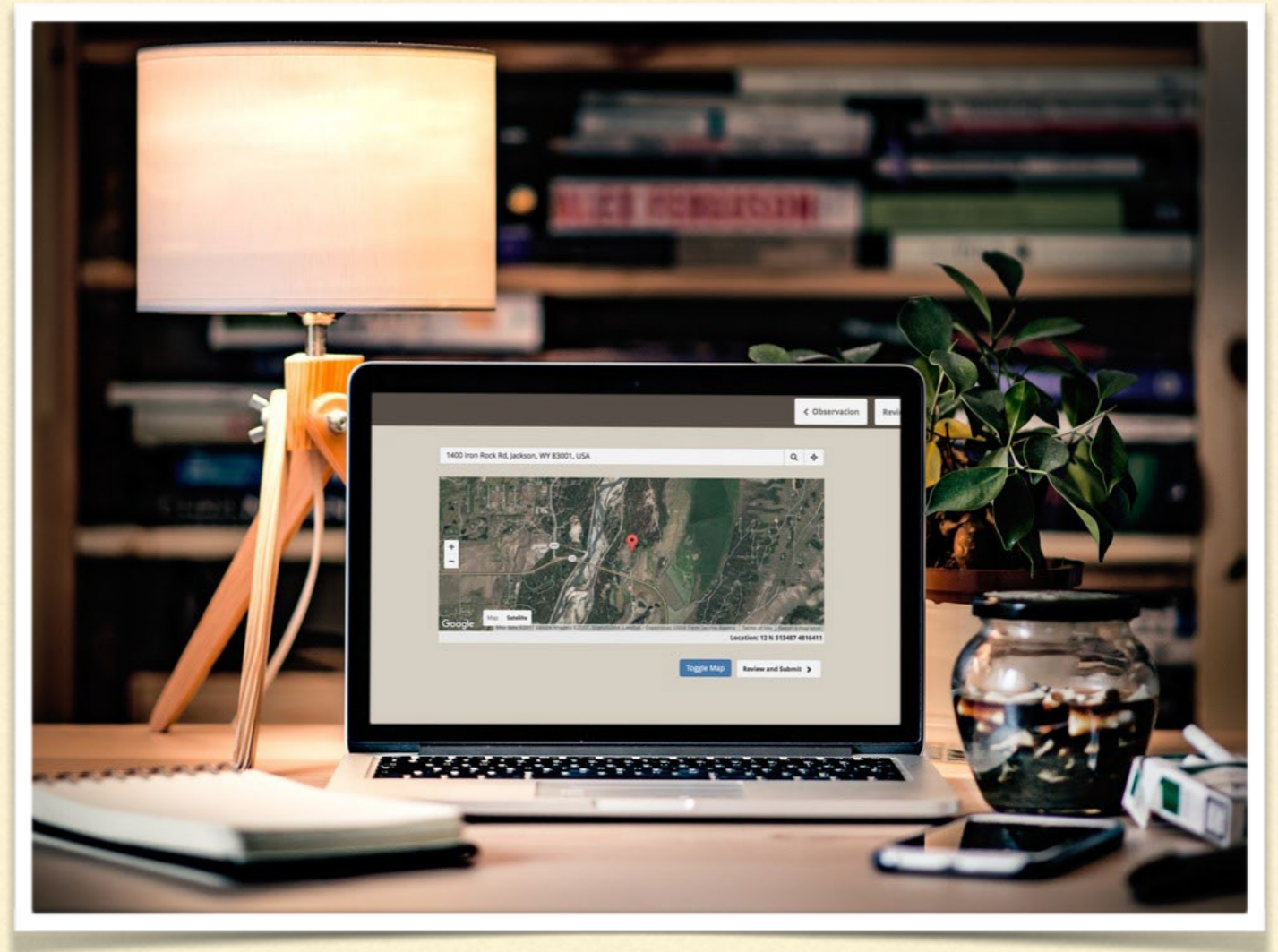
OBJECTIVES FOR TONIGHT

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

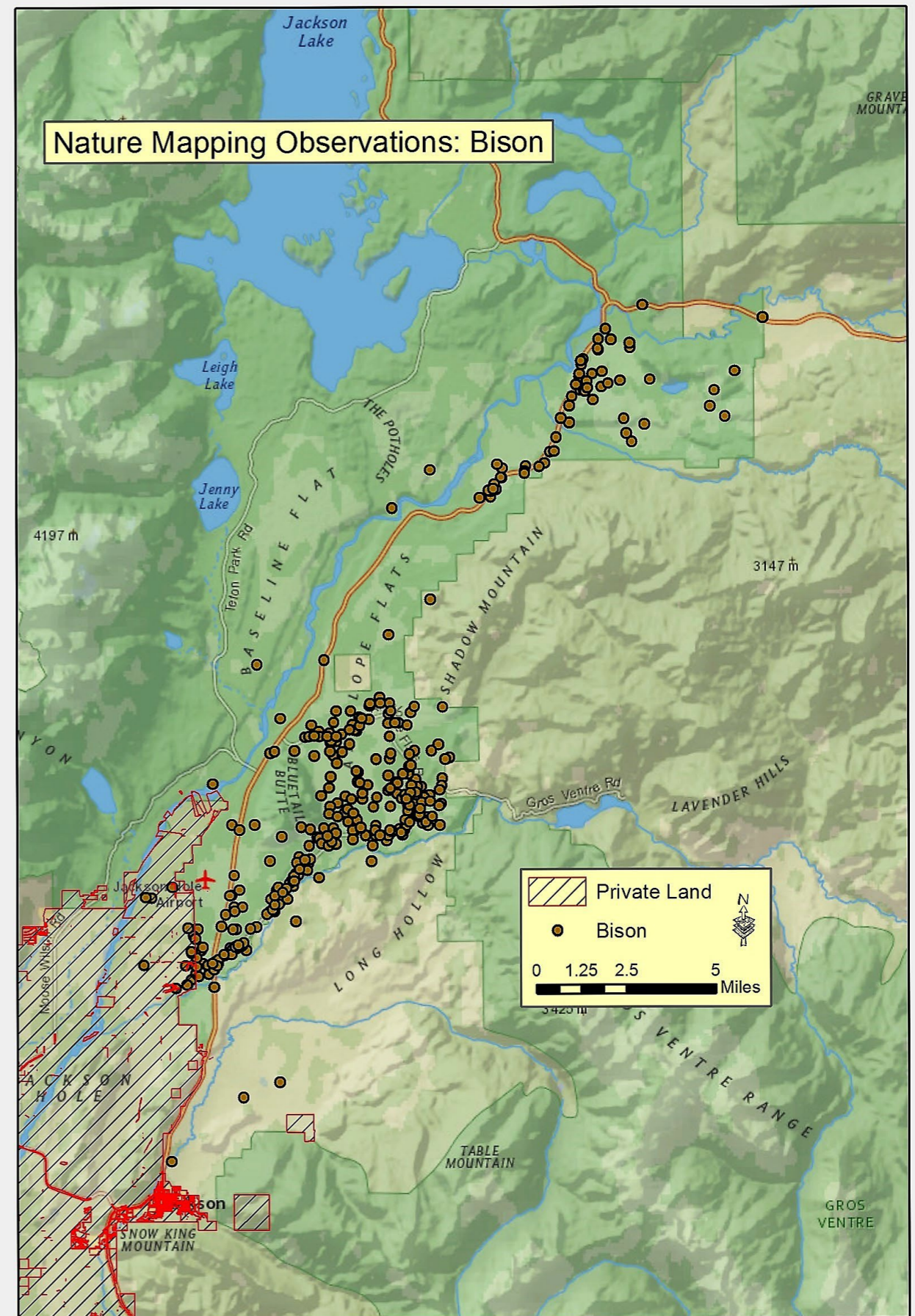
Understand the importance of following protocols

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 online (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
- Snake River Float Trips
- Mountain Bluebird monitoring
- Moose Day
- Neighbors to Nature



CASUAL OBSERVATIONS

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



Photo by Henry Holdsworth

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

- Feb 26, 7:00 a.m. - noon
- Work in teams
- Assigned areas
- Nature Mapping data complements WGFD's (private land vs. public land)



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



NEIGHBORS TO NATURE





OBSERVATION #1

One American Robin mapped on Oct 29, 2021 at 5:39 PM near the National Elk Refuge



Nature
Mapping
Jackson
Hole

- Home
- All Observations
- Settings
- Sign out



Last updated
October 9th, 2019
10:30 AM PST

Casual Observations

ROBIN, AMERICAN

When did you make this observation?*

Oct 9, 2019, 5:39 PM

What type of wildlife was it?*

- Birds
- Mammals
- Reptiles

What species was it?*

ROBIN, AMERICAN

Occurrence

Spring
Abundant

Summer
Abundant

Fall
Abundant

Winter
Occasional

CANCEL


NEXT


Tip: Most of what we map will be under the project Casual Observations


Tip: “Commonality” suggestion to help make sure this is accurate based on the date



Nature
Mapping
Jackson
Hole

 Home

 All Observations

 Settings

 Sign out



Last updated
October 10th, 2019
1:30 PM PST

What did you see?

Sex*

- Female
- Male
- Unknown

Age*

Adult

Quantity*

1

Activity*

Standing/Perched

Mortality*

N/A

Note: **Notice the green cloud to the left?** It's says your status is online. But, even if you're not online your observation will still work!



Nature
Mapping
Jackson
Hole

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- Sign out



Last updated
October 10th, 2019
1:30 PM PST

Activity*

Standing/Perched

Mortality*

N/A

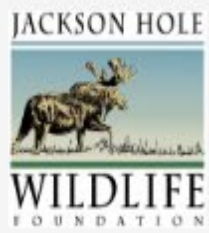
+ Add another

Notes

Any notes about the observation?

PREVIOUS

NEXT



Nature
Mapping
Jackson
Hole

- Home
- All Observations
- Settings
- Sign out

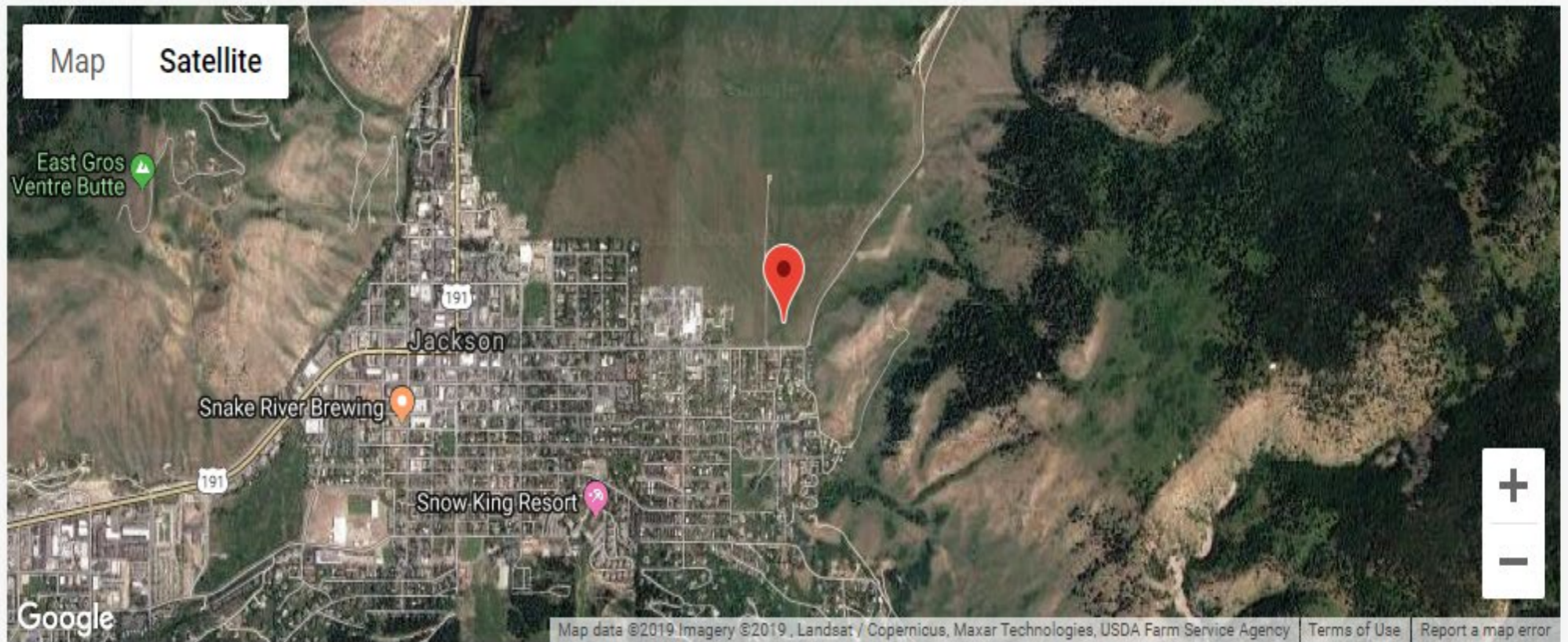


Last updated
October 10th, 2019
1:30 PM PST

Where did you observe this species?

To select your location, you can click on the map, click the "Use my location" feature to get your current GPS coordinates, or enter the values manually.

 USE MY LOCATION



If entering the location manually, you can just enter either the latitude and longitude or the UTM Easting for you.

Latitude

Longitude

UTM Easting



Nature
Mapping
Jackson
Hole

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- Settings
- Sign out



Last updated
October 10th, 2019
1:30 PM PST

Casual Observations

ROBIN, AMERICAN

Photos



Drag and drop your photos here, or click to select them

PREVIOUS

REVIEW



Nature
Mapping
Jackson
Hole

- Home
- All Observations
- Settings
- Sign out



Last updated
October 10th, 2019
1:30 PM PST

Review Observation

Casual Observations

Wildlife Type	Species	Date and Time
Birds	ROBIN, AMERICAN	October 9, 2019, 5:39 PM MDT

[Edit](#)

Observations

Observation 1	Age	Quantity
Sex Unknown	Unknown/Mixed	1
Activity Standing/Perched	Mortality N/A	
Notes		

[Edit](#)



Nature
Mapping
Jackson
Hole

- Home
- All Observations
- Settings
- Sign out



Last updated
October 10th, 2019
1:30 PM PST

Location

Latitude	Longitude	UTM Easting
43.480515012901236	-110.74446138610841	520665.4935
UTM Northing	UTM Zone	
4814209.1313	12	

[Edit](#)

Photos

No photos were added to this observation

[Edit](#)

SUBMIT

CANCEL

Congratulations! You have completed Observation #1!



OBSERVATION #2 – Live Demo

SPECIES ID, DETAILS, AND DEFINITIONS



SPECIES ID: SQUIRRELS



Golden Mantled Ground Squirrel



Uinta Ground Squirrel

SPECIES ID: CHIPMUNKS



Yellow Pine Chipmunk



Least Chipmunk

SPECIES ID: AMERICAN BADGER



SPECIES ID: WOLVERINE



photo © Jeff Copeland

SPECIES ID: YELLOW-BELLIED MARMOT



SPECIES ID: GRIZZLY AND BLACK BEARS

Know your bears!

Black Bear

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

Grizzly Bear

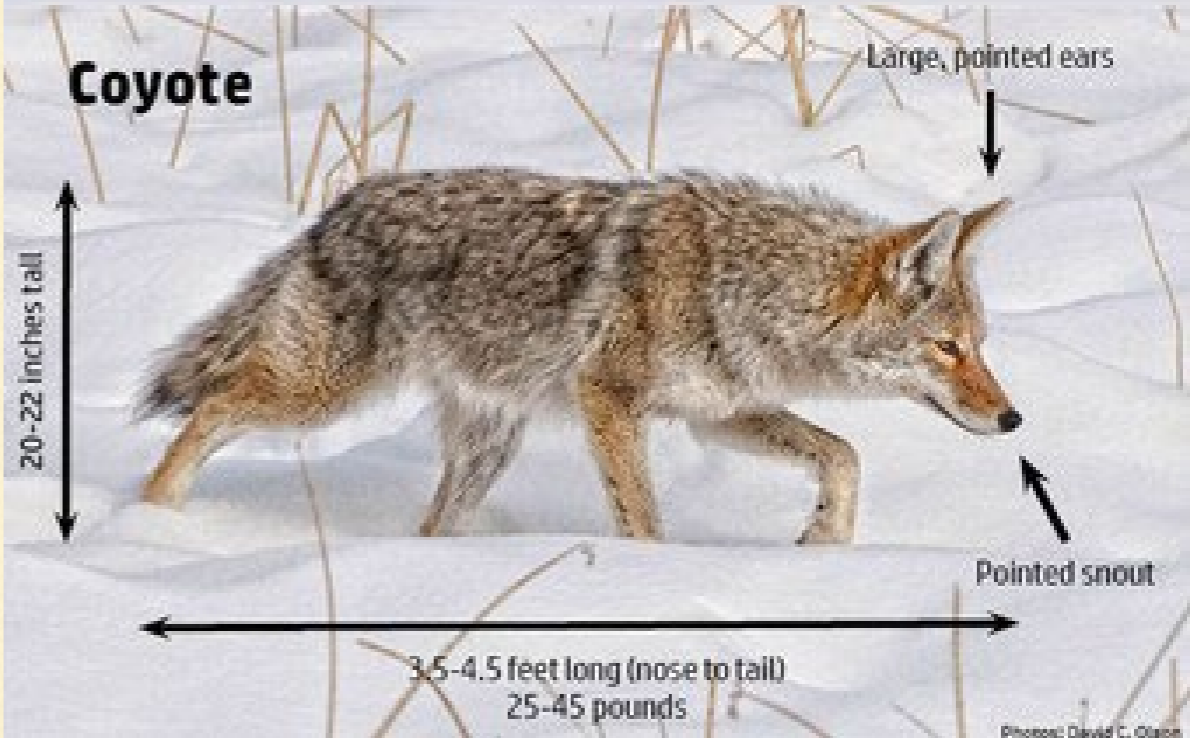
- Front track: A circular mark on the front toe.
- Front claw: 2-4" long.
- Shoulder hump.
- Short rounded ears.
- Dished face profile.
- Long claws.

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

© 2011 Oregon Department of Fish and Wildlife. Photo 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. Antler branching pattern



SPECIES ID: WHITE-TAILED DEER

- Antler branching from one base
- Smaller ears – although hard
- Long tail with white underside
- 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

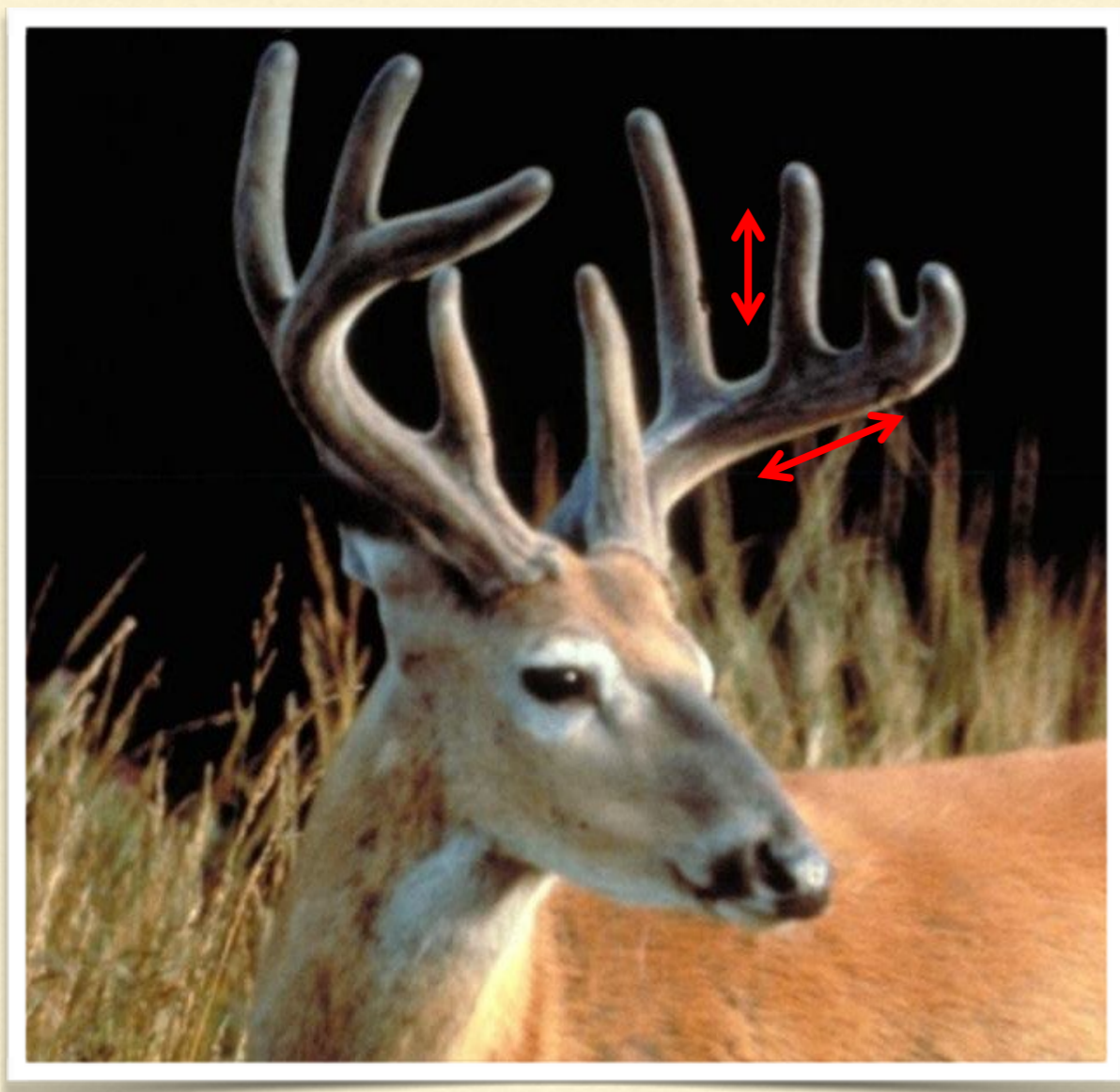
Mule deer buck



White-tailed deer buck



SPECIES ID: WHITE-TAIL VS. MULE



Main beam with single, vertical points Antler with multiple forks

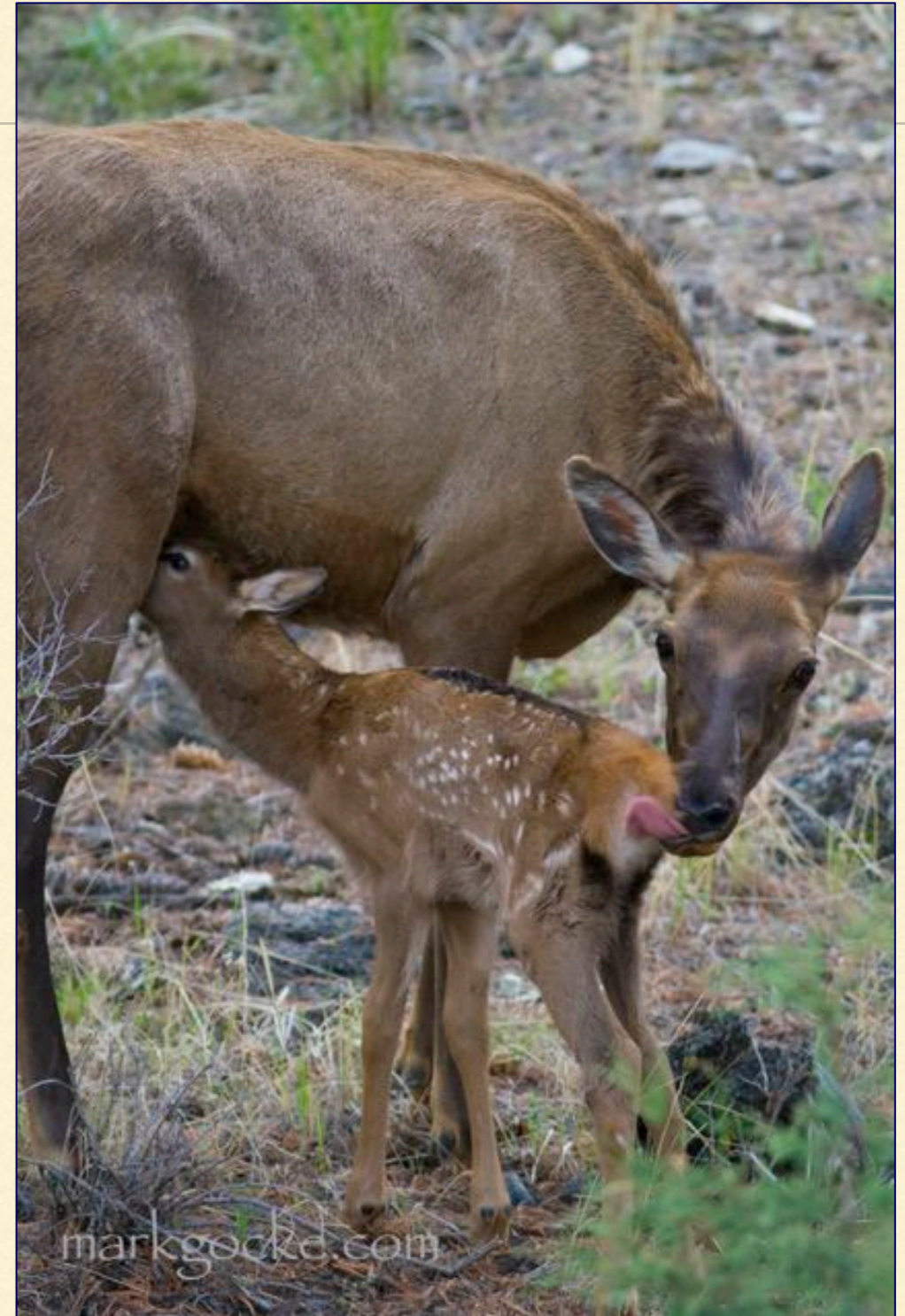
SPECIES ID: ELK

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



IMAGE: DESERT NEWS

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



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



SPECIES ID: ROUGH-LEGGED HAWK

1. Dark Carpal Patch

2. Solid Bellyband

3. Highly variable

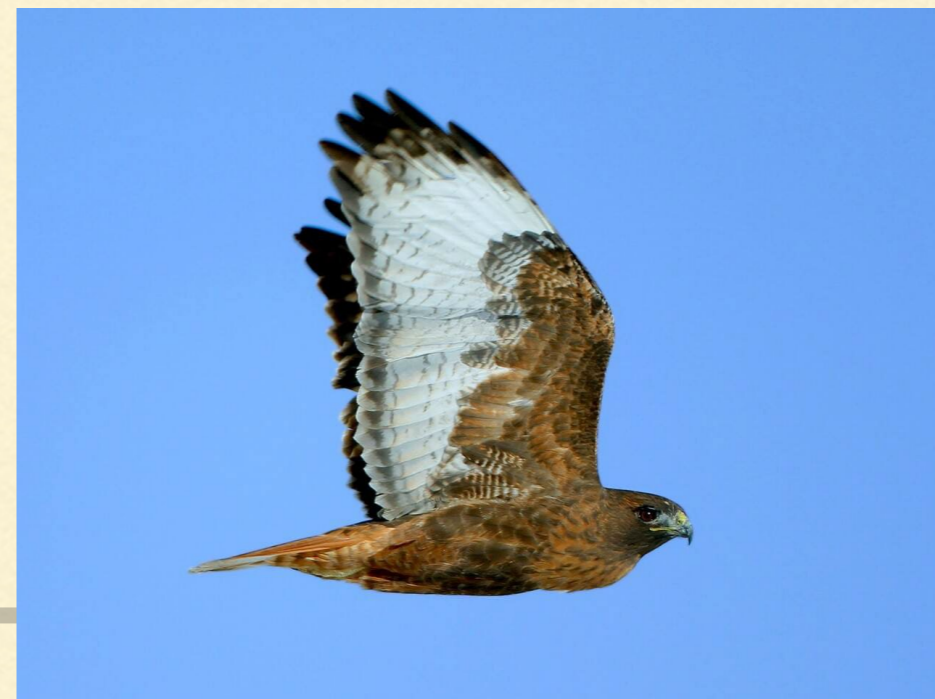


SPECIES ID: RED-TAILED HAWK

1. Red tail

2. Bellyband

3. Highly variable



1. Capped vs Hooded

SPECIES ID: ACCIPITERS

2. Tail shape

3. Fierce vs Surprised



SPECIES ID: NORTHERN GOSHAWK



SPECIES ID: BALD EAGLE



SPECIES ID: GOLDEN EAGLE



WHICH EAGLE IS WHICH?



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



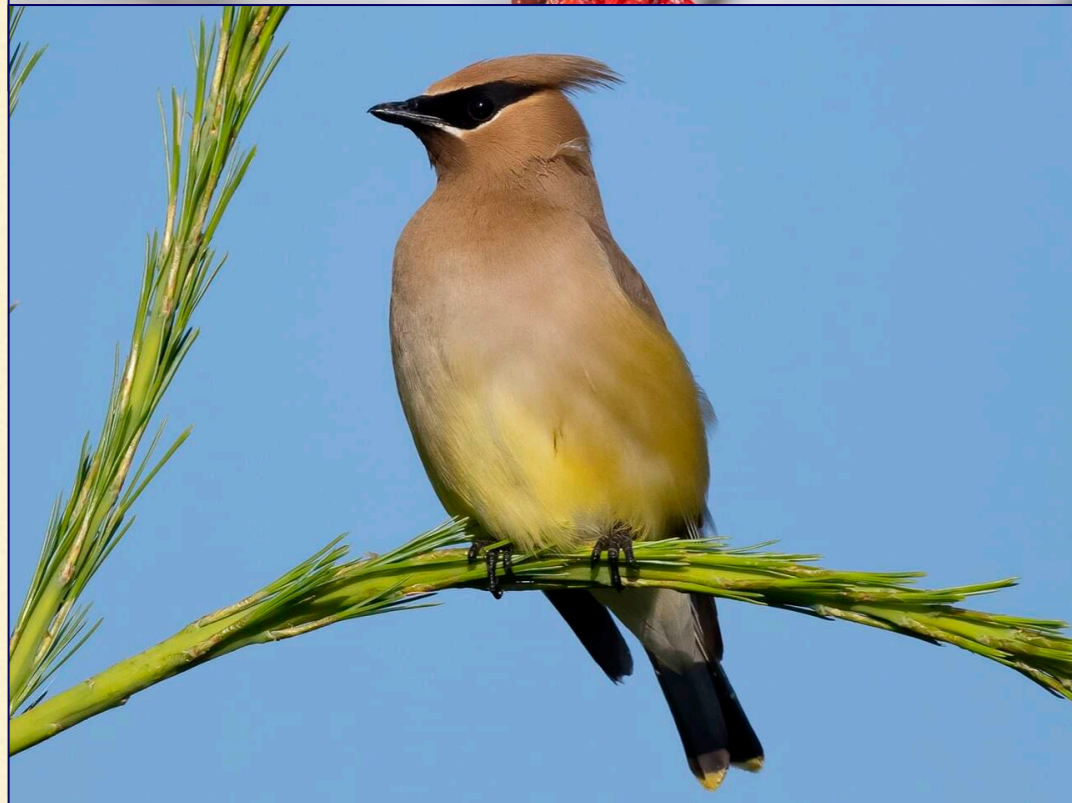
SPECIES ID: STELLER'S JAY



SPECIES ID: NORTHERN SHRIKE



SPECIES ID: WAXWINGS



SPECIES ID: BLACK ROSY-FINCH



SPECIES ID: RED CROSSBILL



SPECIES ID: EVENING GROSBEAK



SPECIES ID: COMMON REDPOLL



SPECIES ID: AMERICAN GOLDFINCH



SPECIES ID: YELLOW WARBLER



SPECIES ID: WILSON'S WARBLER



SPECIES ID: TOWNSEND'S WARBLER



SPECIES ID: AMERICAN REDSTART



SPECIES ID: WESTERN TIGER SALAMANDER



© MTNHP - Montana Amphibian Inventory Personnel



© MTNHP - Montana Amphibian Inventory Personnel

SPECIES ID: WESTERN TOAD



© Gary Nafis

SPECIES ID: BOREAL CHORUS FROG



SPECIES ID: SNAKES



SEX: UNKNOWN

The sex of many species cannot be determined or observed:

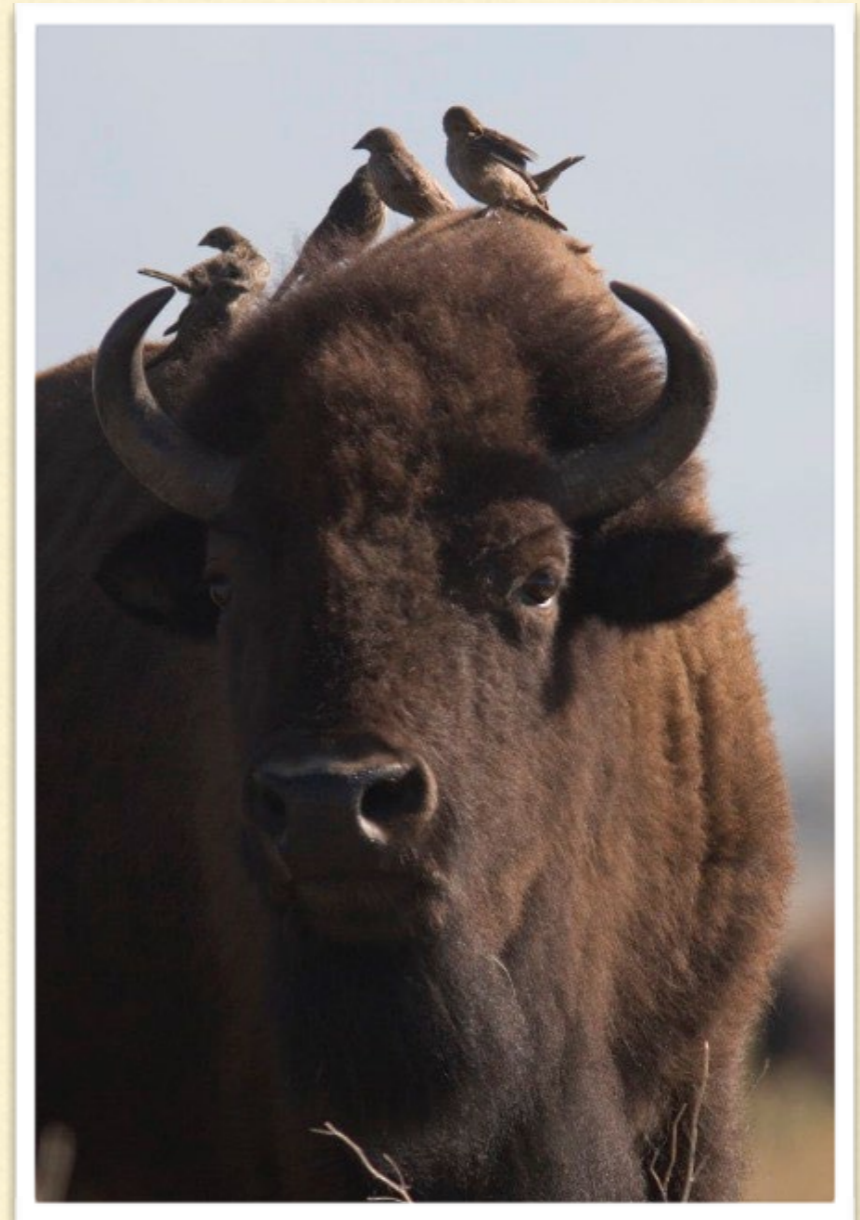
- Squirrels
- Swans
- Hawks
- Snakes



SEX: BISON MALE VS. FEMALE



Male: Less curved horns

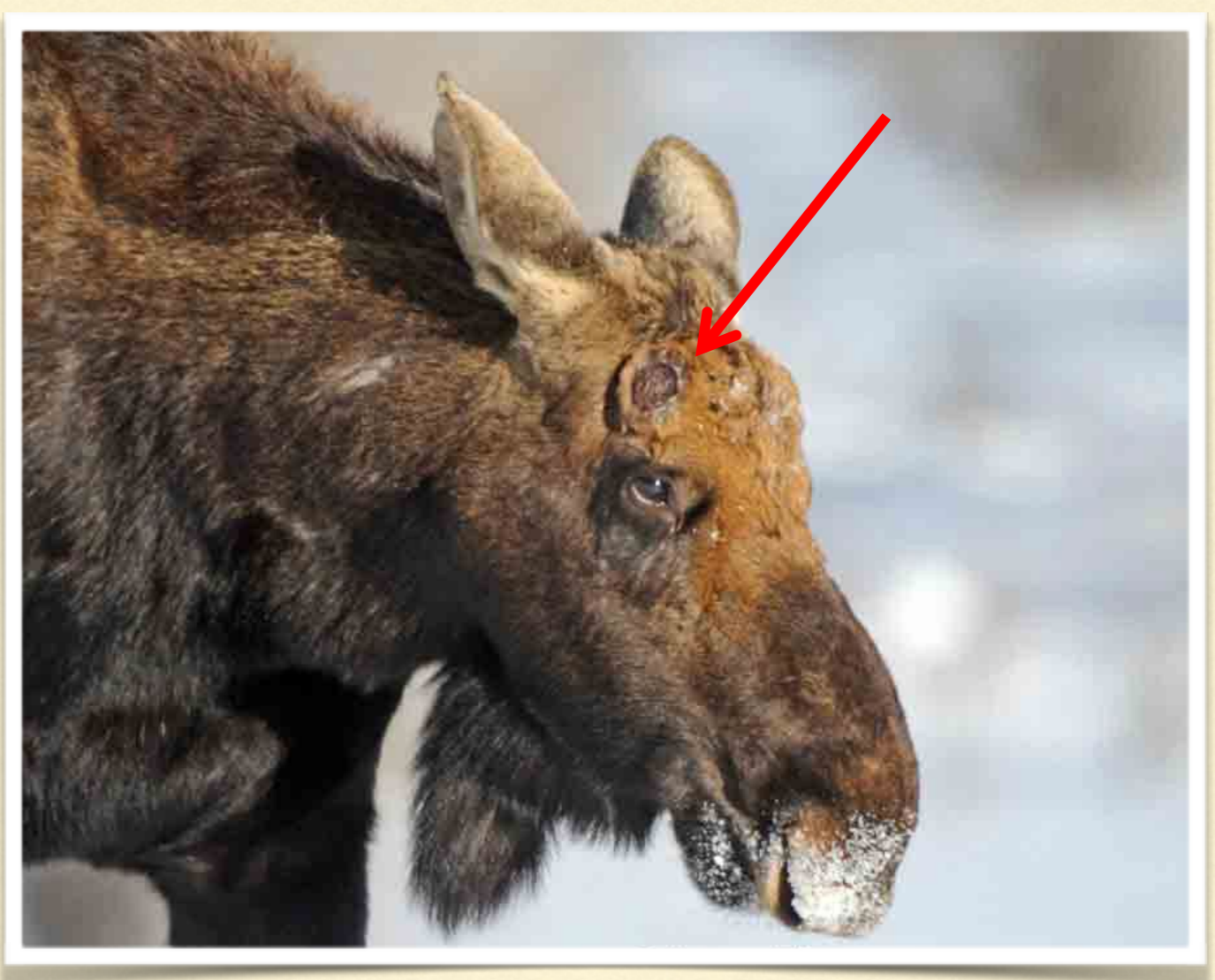


Female: More curved horns

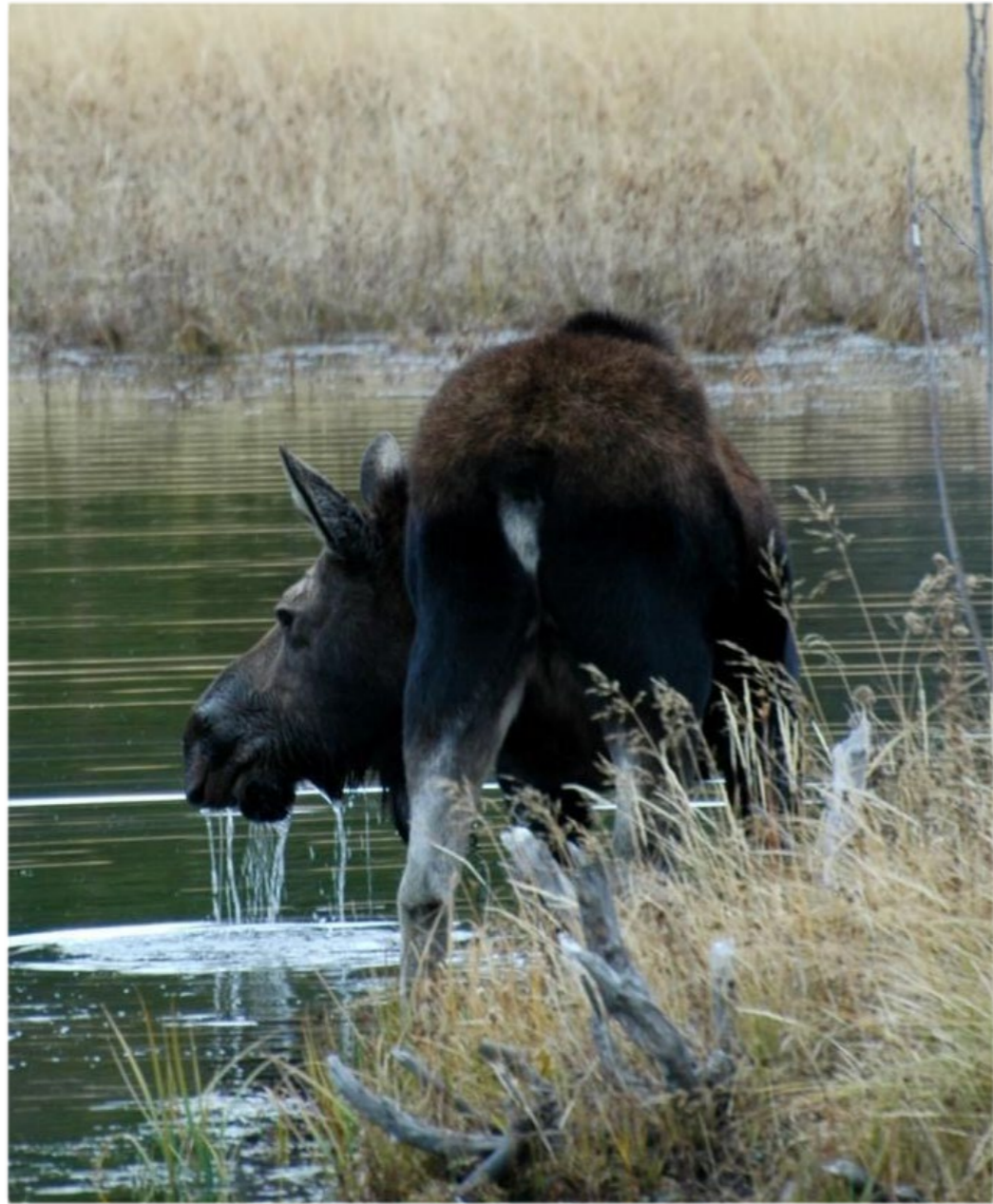
SEX: BISON



SEX: MOOSE MALE



SEX: MOOSE FEMALE



SEX: PRONGHORN



Male



Female

SEX: BARROW'S GOLDENEYE



Male

Female

SEX: MOUNTAIN BLUEBIRD



Male

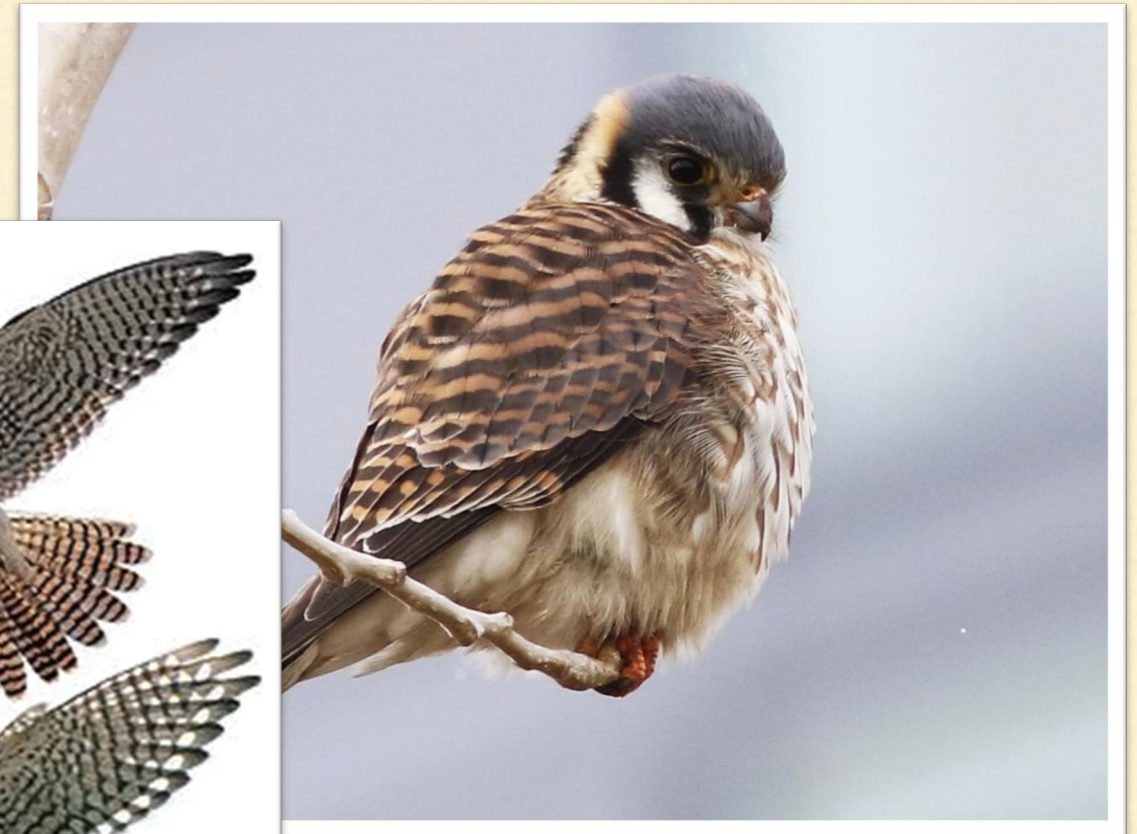
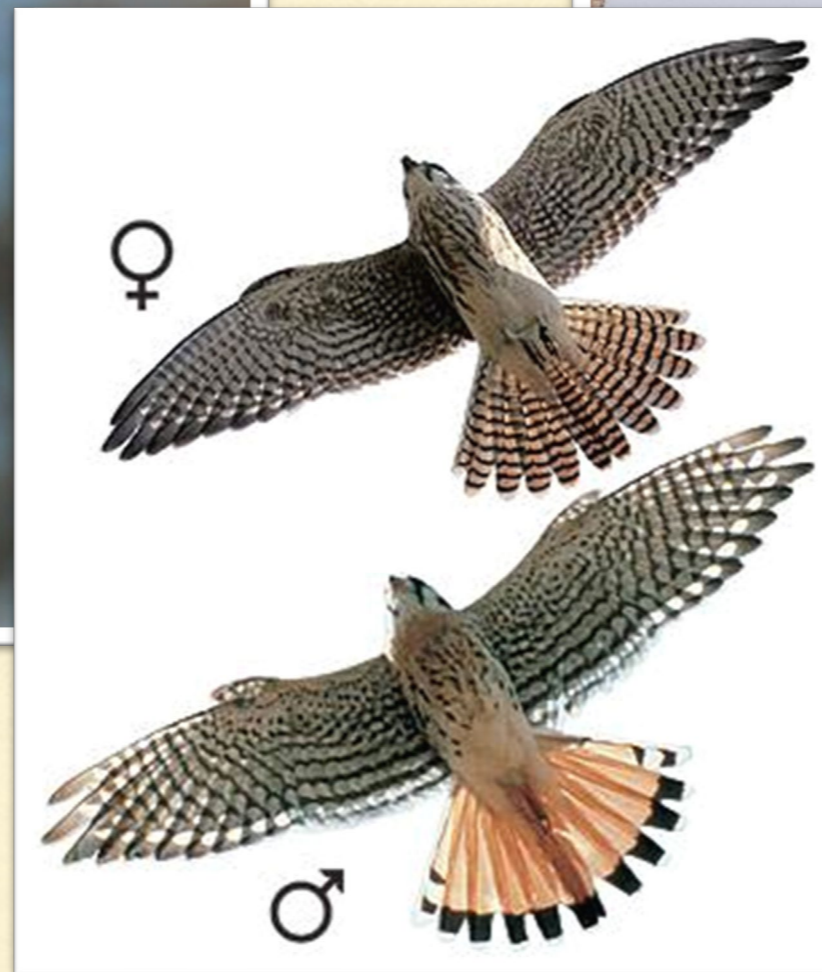


Female

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)



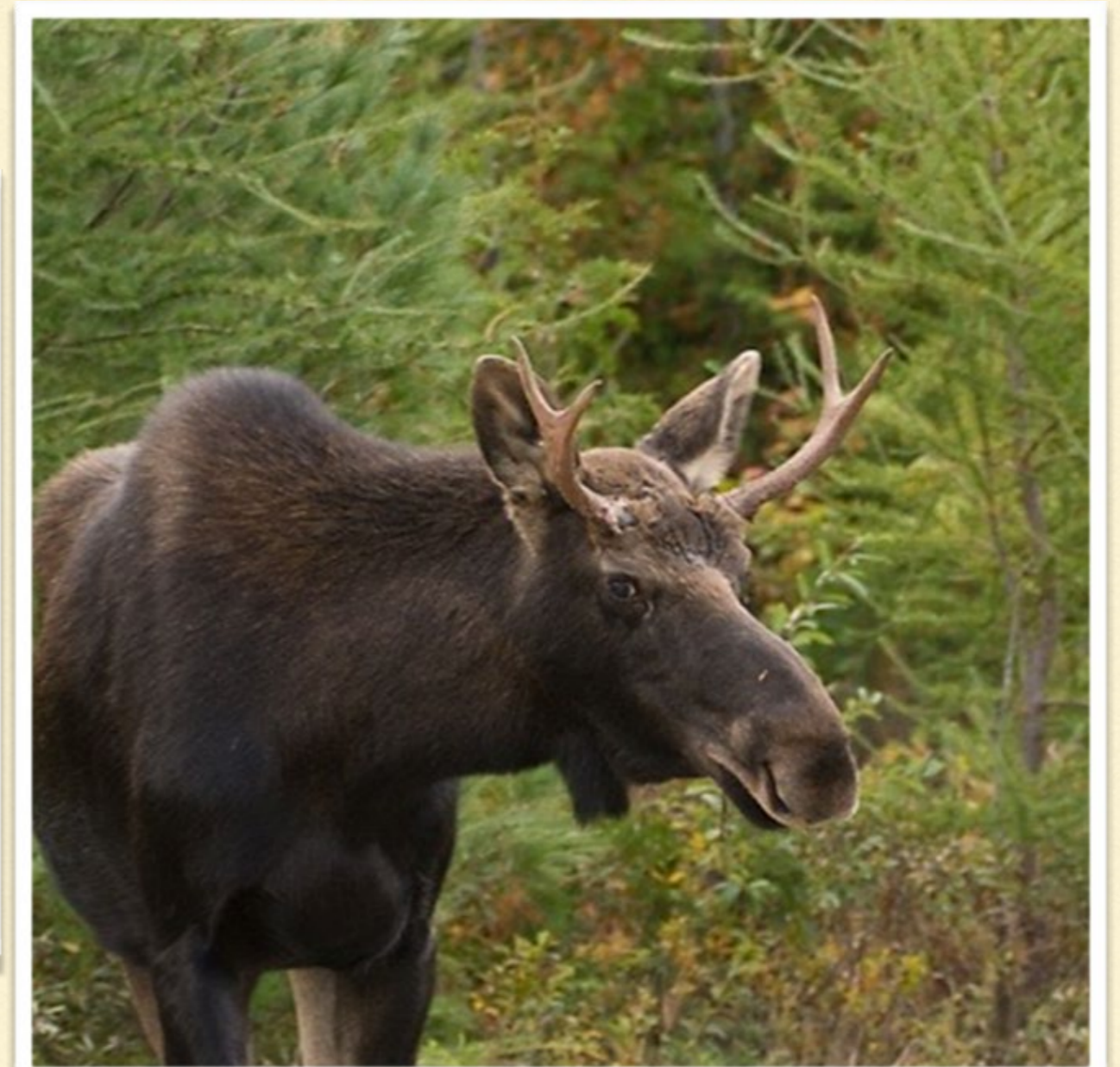
AGE: JUVENILES

Subadults:

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

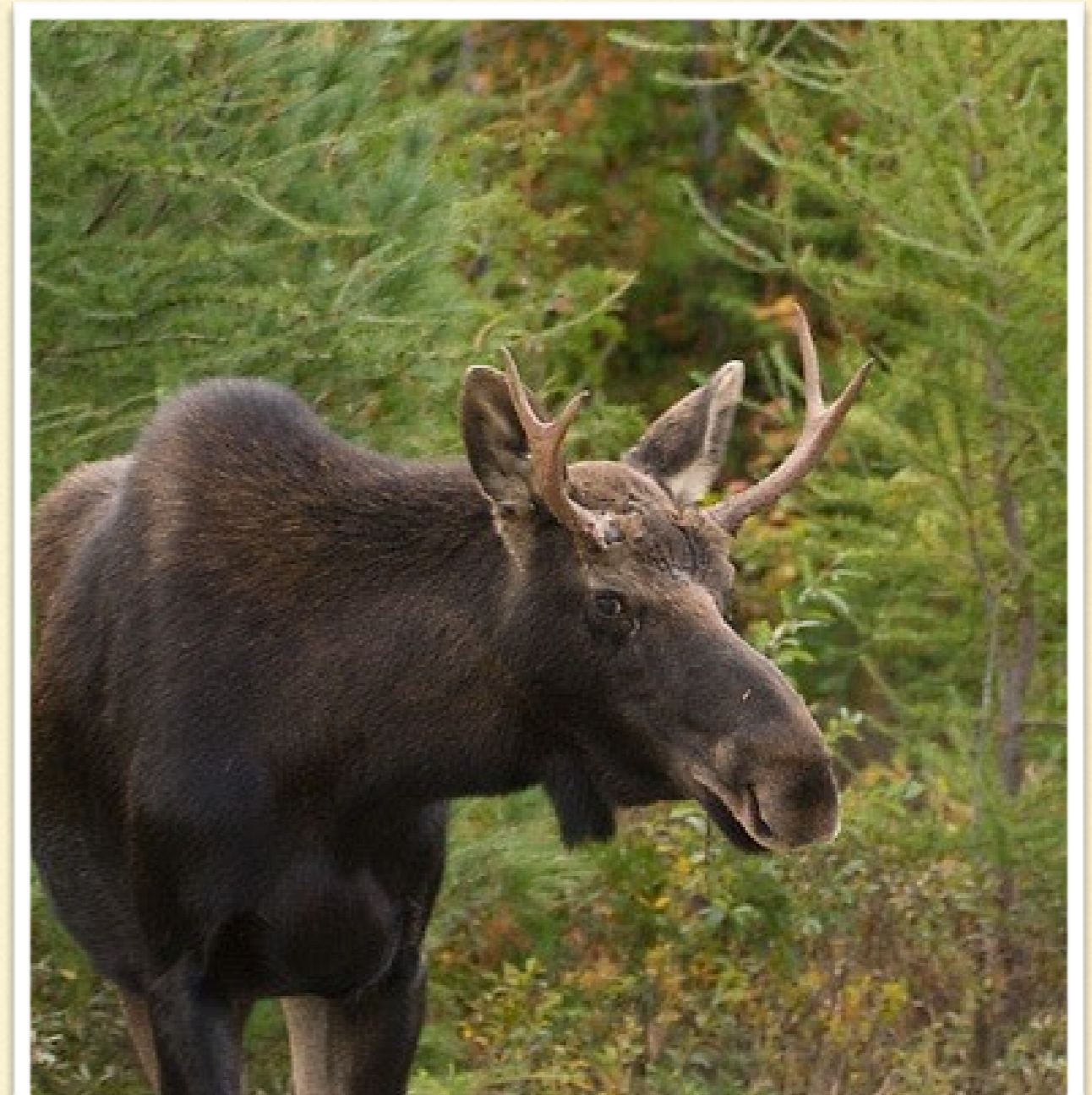


AGE: ANTLER SIZE DOES NOT TELL ALL



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:

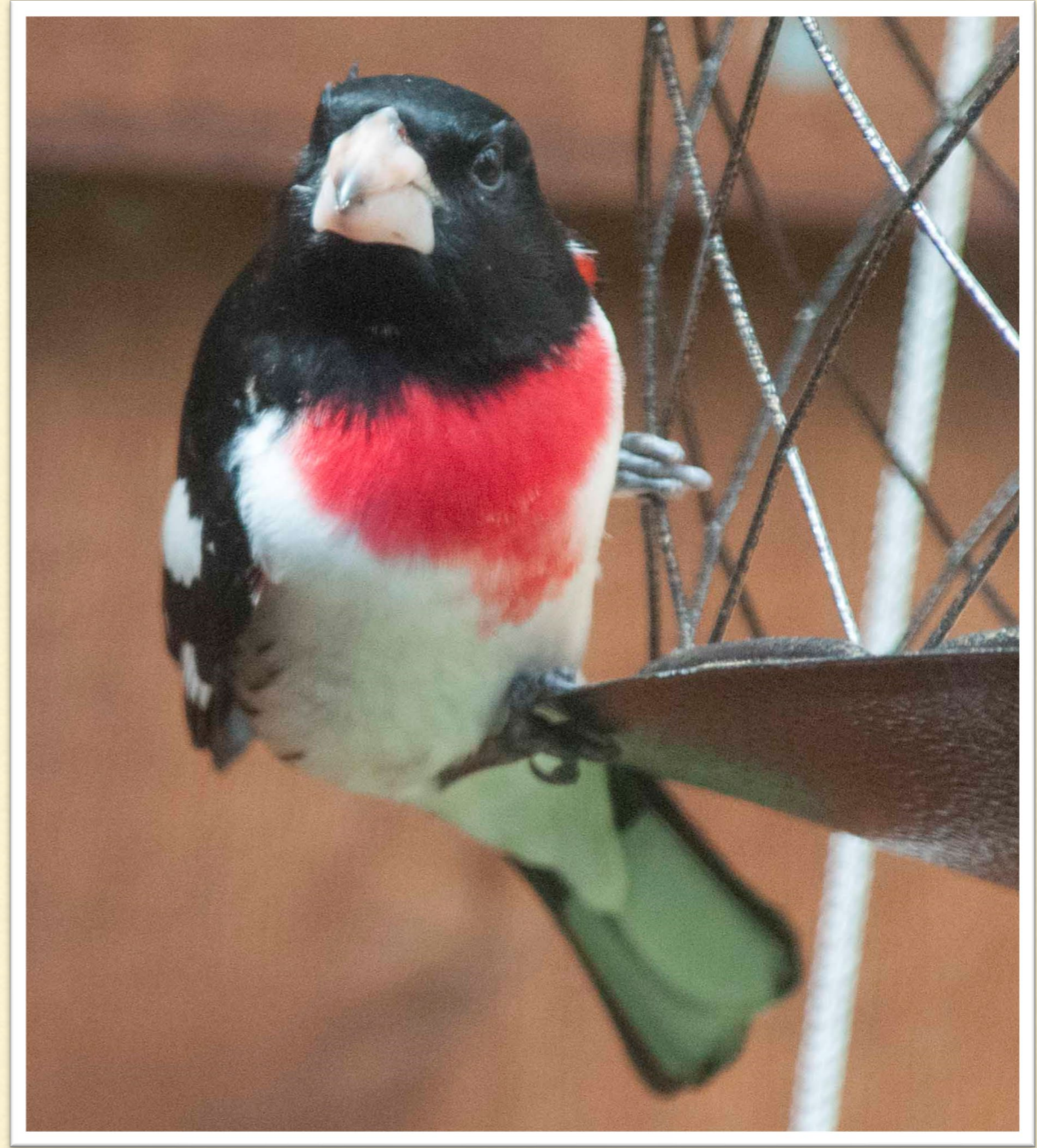
- Loafing/Resting
- Feeding
- Standing
- Walking
- Running
- Flying
- Swimming



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:

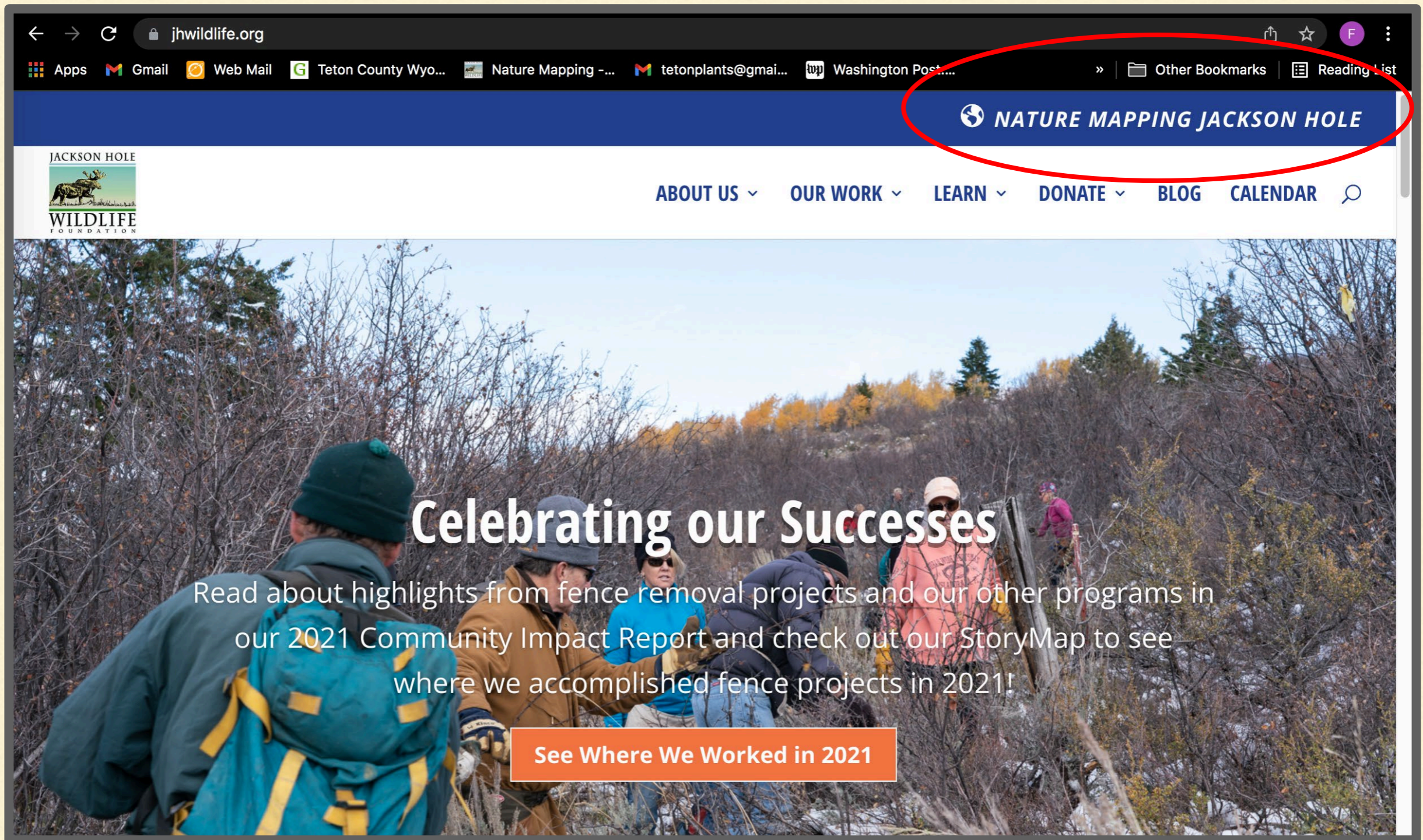
- Cause Undetermined
- Fence
- Serious injury
- Powerline/ Electrocution
- Accident – Vehicle
- Predation
- Window Collision



GETTING YOU GOING

- Log-In
 - Fill profile
under Settings
 - Change
Password/
Reset
 - Practice entry
-

GETTING YOU GOING - 1



Start at our Home Page: jhwildlife.org


GETTING YOU GOING: 2 - LOG IN



MAKE YOUR WILDLIFE SIGHTINGS COUNT

Email
francesclark@earthlink.net

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


GETTING YOU GOING: 3 PROFILE

The screenshot displays the user interface of the Jackson Hole Wildlife Foundation app. On the left is a grey sidebar menu with the following items: 'Home' (house icon), 'All Observations' (list icon), 'Resources' (clipboard icon), 'Settings' (gear icon, circled in red), and 'Sign out' (arrow icon). Below the menu are links for 'Go to jhwildlife.org', 'Donate now', and 'Need help? Email info@jhwildlife.org' with a green checkmark icon at the bottom.

The main content area is white and shows the 'App settings' screen with a toggle switch for 'Use Taxonomic Species Sort Order' which is currently turned off. Below this is a horizontal separator line.

The 'Your profile' section contains three input fields: 'First name' with the value 'Frances', 'Last name' with the value 'Clark', and 'Home phone' with the value '307-733-0010'.

GETTING YOU GOING: 4 PASSWORD




Nature Mapping
Jackson Hole

- Home
- All Observations
- Resources
- Settings
- Sign out

Go to jhwildlife.org

Donate now

Need help?
Email info@jhwildlife.org



Email

francesclark@earthlink.net

CHANGE EMAIL

Password

CHANGE PASSWORD

App info
Latest update
Dec 19th, 2021
11:22 PM PST

Your turn!

Enter an observation you brought to class



RESOURCES: GUIDE BOOKS



RESOURCES: NMJH E-NEWS

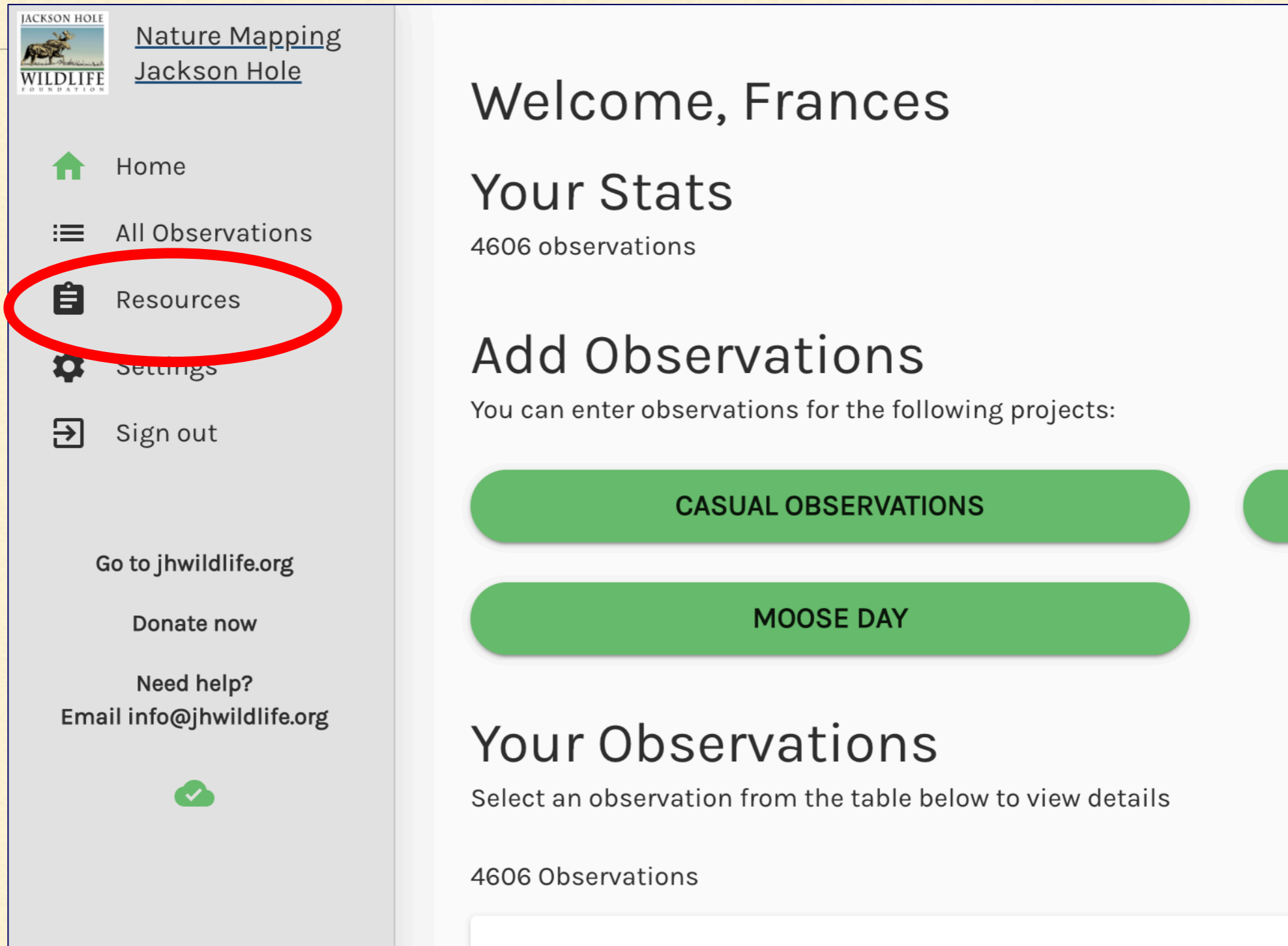


Enews

January 2021

 NATURE
MAPPING
JACKSON HOLE

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



The screenshot displays the user interface of the Jackson Hole Wildlife Foundation's Nature Mapping website. On the left is a sidebar menu with the following items: Home (house icon), All Observations (list icon), Resources (clipboard icon, circled in red), Settings (gear icon), and Sign out (arrow icon). Below the menu are links for 'Go to jhwildlife.org', 'Donate now', and 'Need help? Email info@jhwildlife.org'. The main content area on the right is titled 'Welcome, Frances' and shows 'Your Stats' with 4606 observations. It features two large green buttons: 'CASUAL OBSERVATIONS' and 'MOOSE DAY'. Below this is a section for 'Your Observations' with a sub-header 'Select an observation from the table below to view details' and a count of 4606 observations.

JACKSON HOLE WILDLIFE FOUNDATION
Nature Mapping
Jackson Hole

- Home
- All Observations
- Resources**
- Settings
- Sign out

Go to [jhwildlife.org](https://www.jhwildlife.org)

Donate now

Need help?
Email info@jhwildlife.org

Welcome, Frances

Your Stats

4606 observations

Add Observations

You can enter observations for the following projects:

- CASUAL OBSERVATIONS
- MOOSE DAY

Your Observations

Select an observation from the table below to view details

4606 Observations

RESOURCES: JHWILDLIFE.ORG



Quick Tips for Nature Mappers

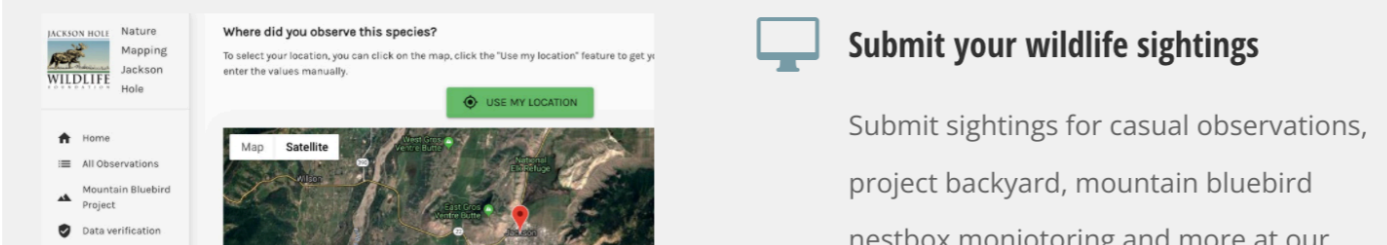
Veteran Nature Mappers will notice changes to the data entry platform starting October 14th, 2019. These changes are designed as upgrades to improve user experience by allowing citizen-scientists to submit wildlife observations “offline” on mobile devices. The upgrades also enable users to submit photos 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 will help guide you through the data entry process and provide specific skills needed by Nature Mappers. To officially get started with Nature Mapping, you will need to contact JHWF about attending a training session.

NMJH Program 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 County, WY.

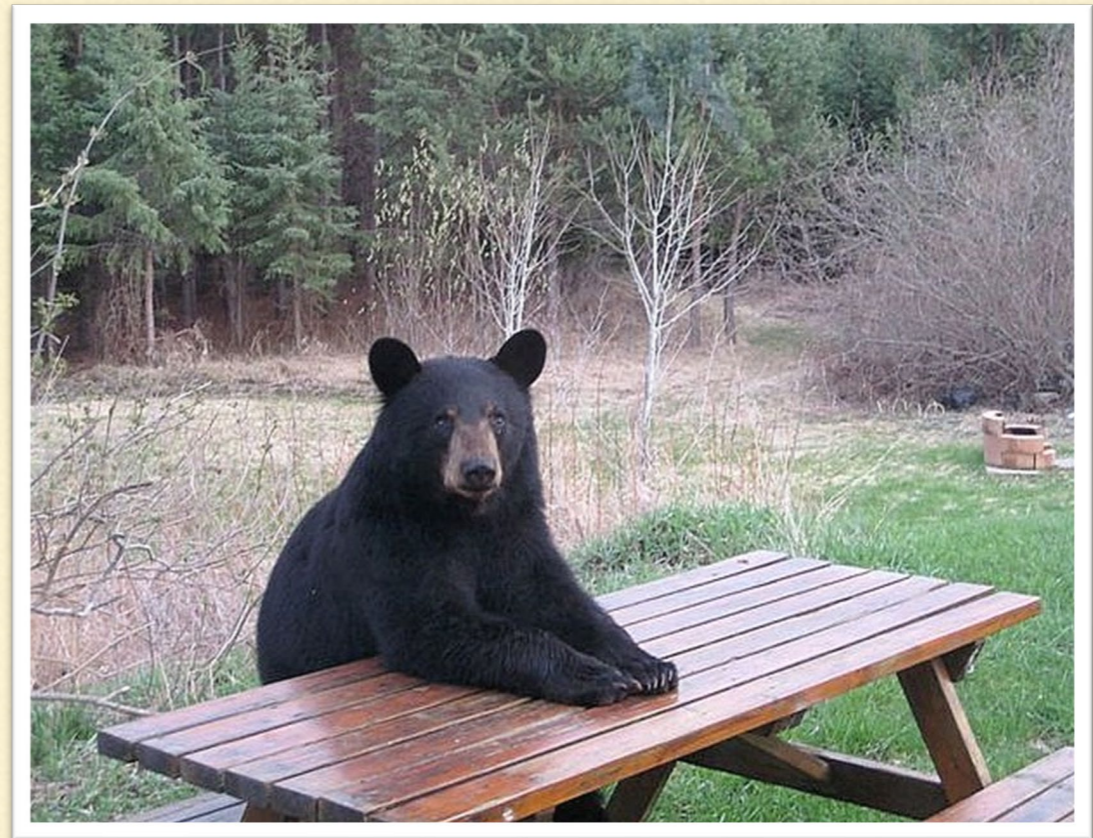


The screenshot shows the user interface of the Nature Mapping website. On the left is a navigation menu with options: Home, All Observations, Mountain Bluebird Project, and Data verification. The main content area features a map with a 'Satellite' view selected. Above the map, there is a section titled 'Where did you observe this species?' with instructions: 'To select your location, you can click on the map, click the "Use my location" feature to get your location, or enter the values manually.' Below this text is a green button labeled 'USE MY LOCATION'. To the right of the map, there is a computer monitor icon and the heading 'Submit your wildlife sightings', followed by the text: 'Submit sightings for casual observations, project backyard, mountain bluebird nestbox monitoring and more at our'.

RESOURCES: NMJH COMMUNITY



THANK YOU FOR BECOMING CERTIFIED NATURE MAPPERS!



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

– John Muir
