

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)



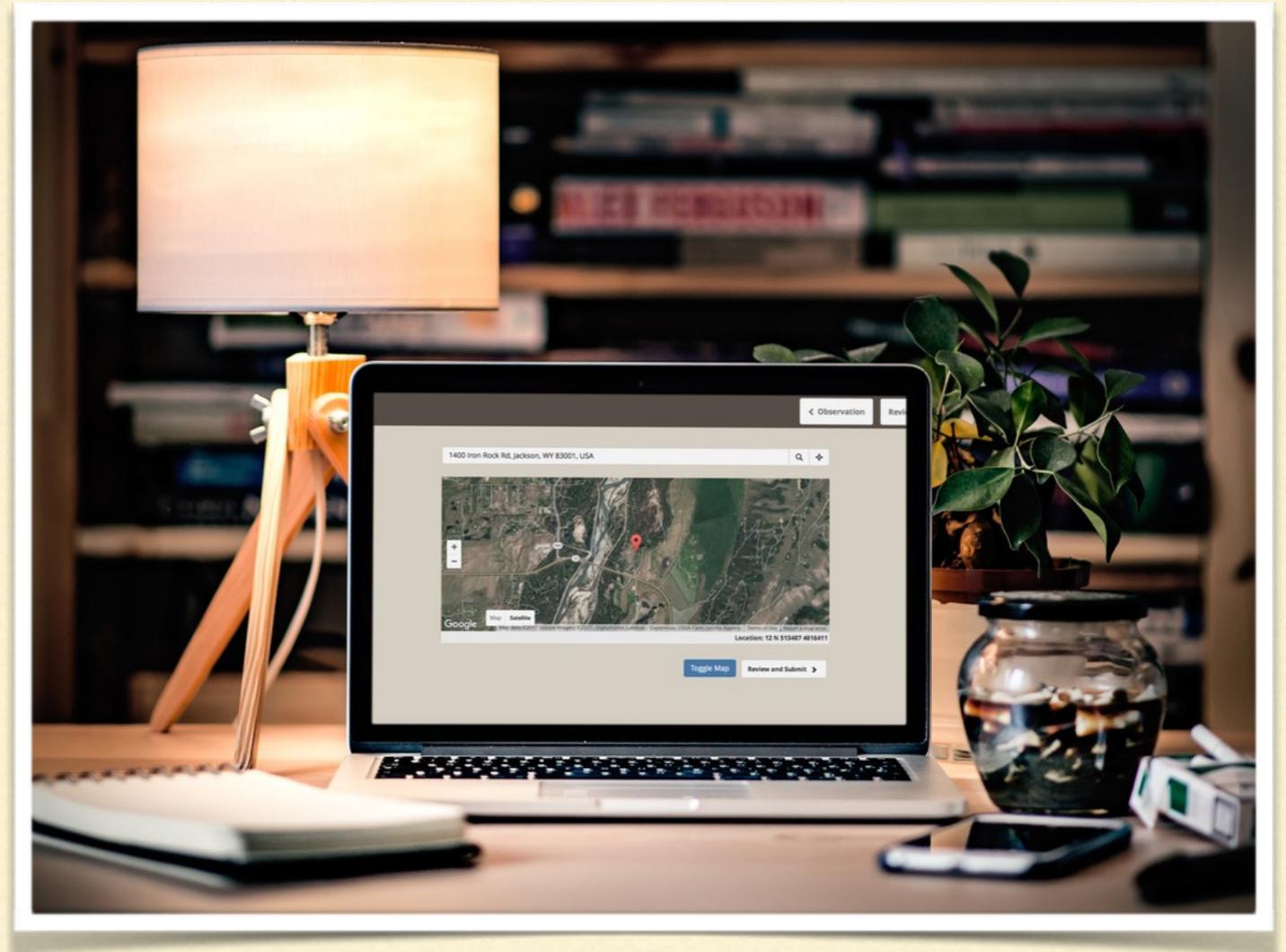
OBJECTIVES FOR TONIGHT

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

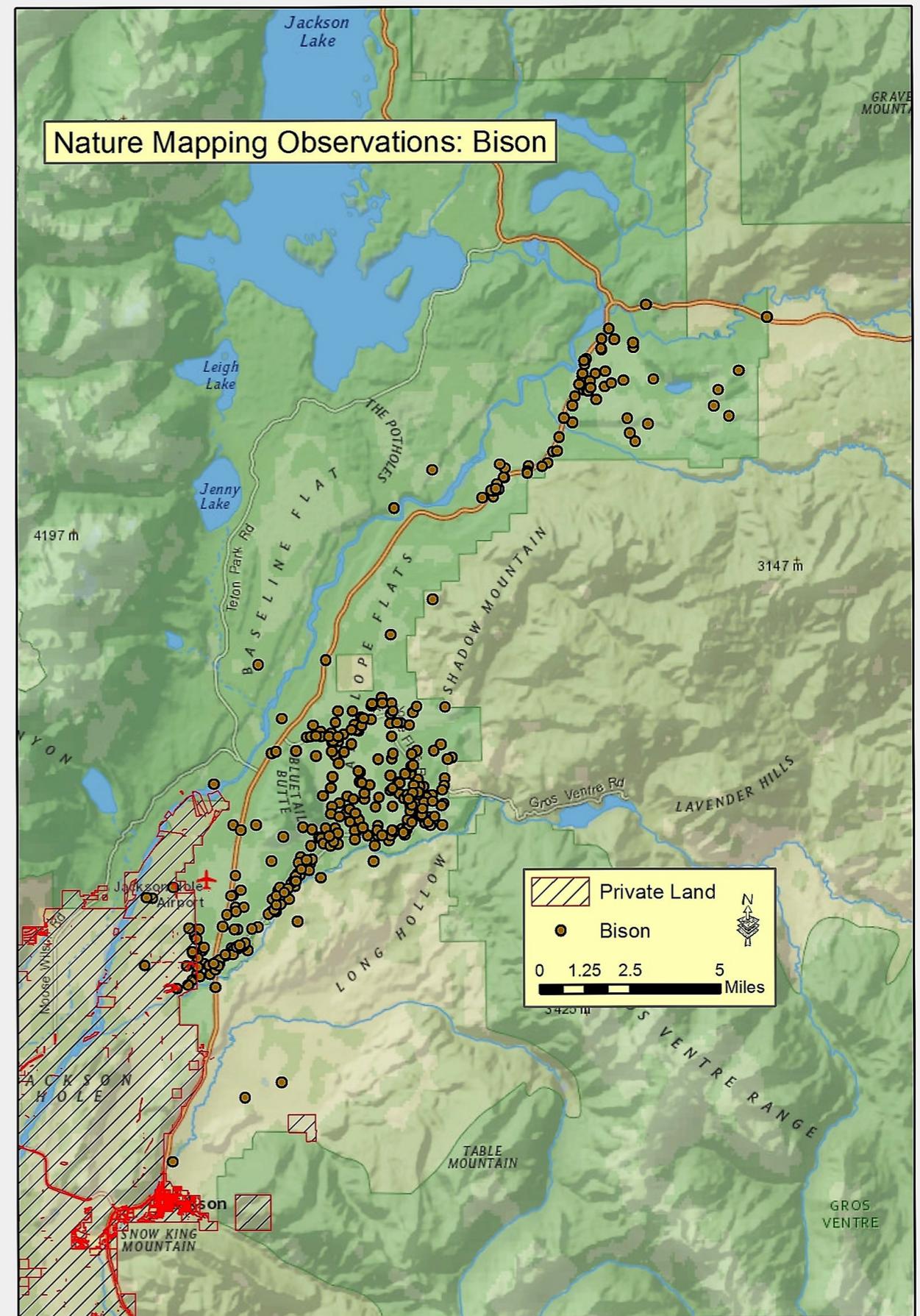
Understand the importance of following protocols

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
- Cornell's eBird
- 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

- Last Saturday in February from 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 5:39PM 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

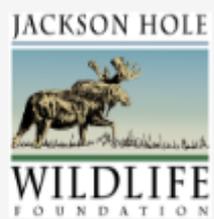
Winter
Occasional

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

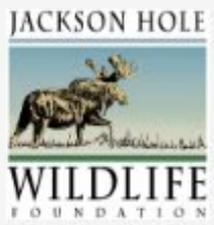
Activity*

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

- Home
- All Observations
- Settings
- Sign out



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

Activity*

Standing/Perched

Mortality*

N/A

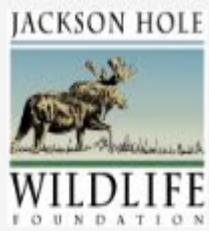
+ Add another

Notes

Any notes about the observation?

PREVIOUS

NEXT



Nature
Mapping
Jackson
Hole

- Home
- All Observations
- Settings
- Sign out

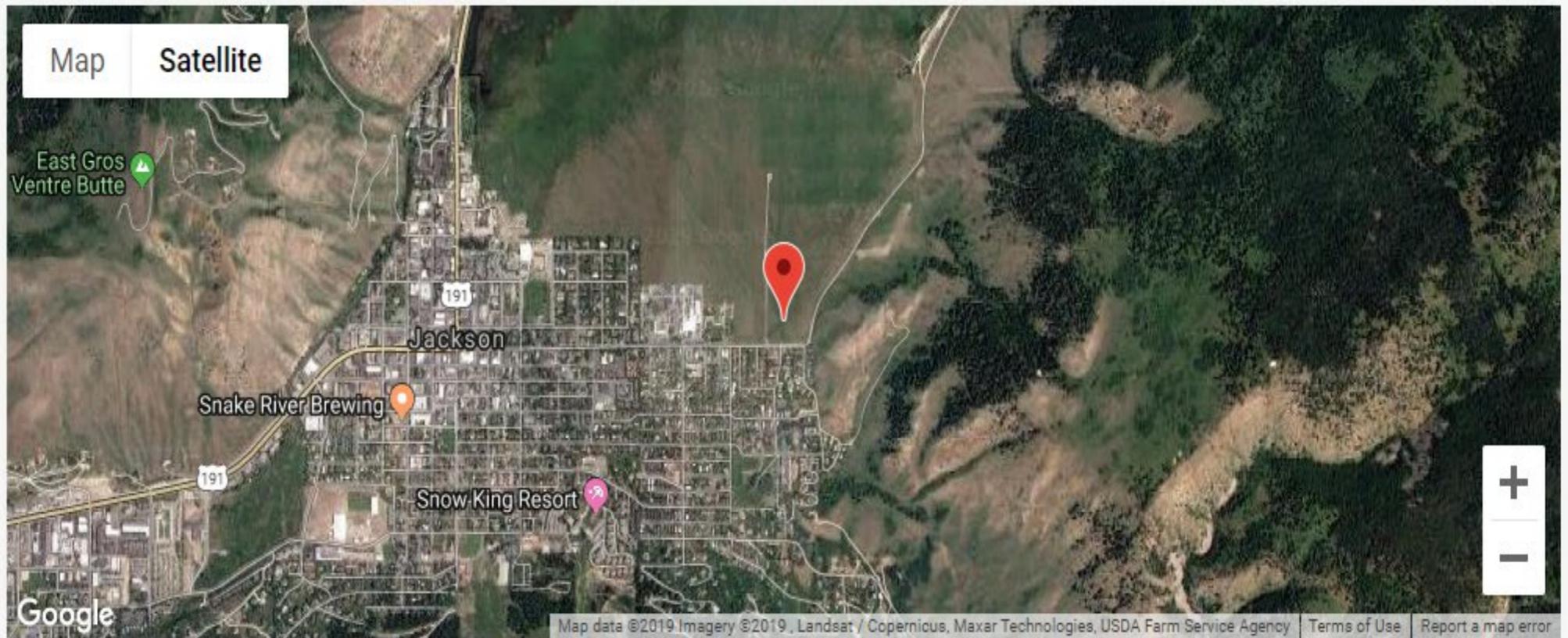


Last updated
October 10th, 2019
1:30 PM PST

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

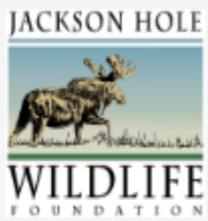


If entering the location manually, you can just enter either the latitude and longitude or the UTM Easting for you.

Latitude

Longitude

UTM Easting



Nature
Mapping
Jackson
Hole

- Home
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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

One Mule Deer adult female with a juvenile mapped near Teton Village on August 8, 3:15 p.m.



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 claw is circled in white.
- Front claw: 1-2" long
- Tall ears
- Straight face profile
- No prominent shoulder hump
- Short claws

Grizzly Bear

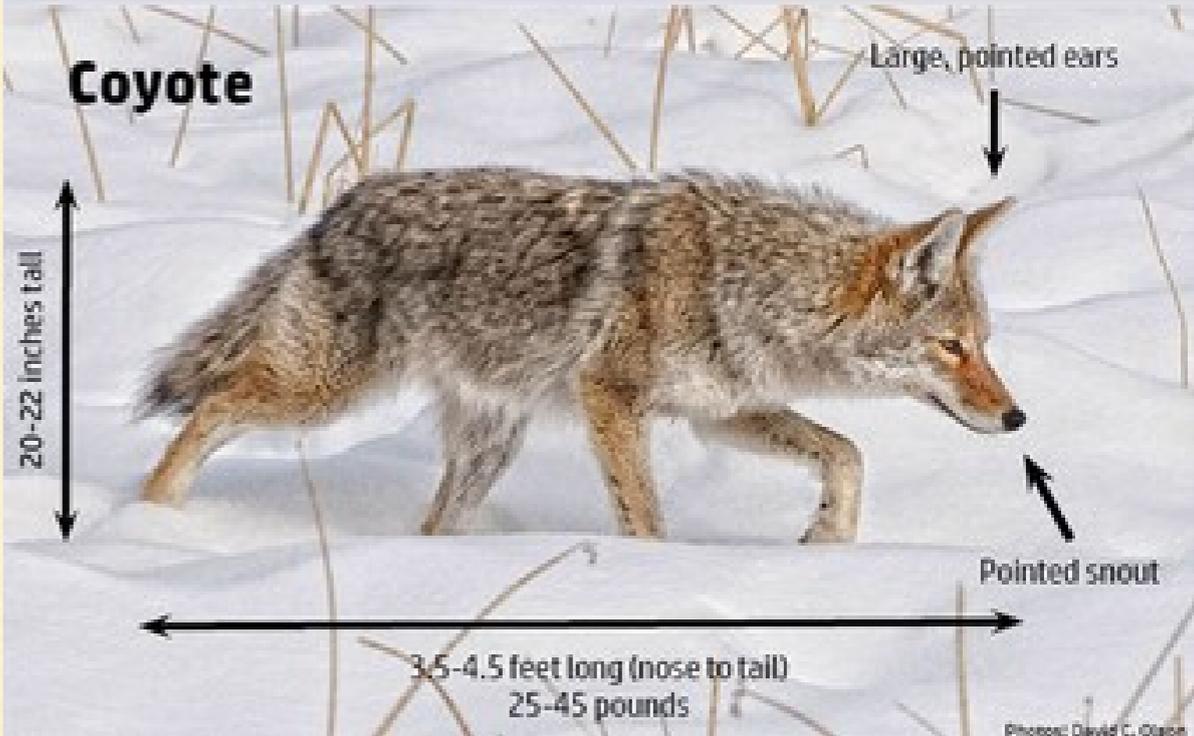
- Front track: A circular mark on the front claw is circled in white.
- Front claw: 2-4" long
- Short rounded ears
- Dished face profile
- Shoulder hump
- Long claws

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

© 2011 Oregon Department of Fish and Wildlife. Photo by Chuck Brundage

SPECIES ID: WOLVES AND COYOTES

Know your Canids!



SPECIES ID: MULE DEER



1. Antler branching pattern
2. Big ears
3. White tail with black tip

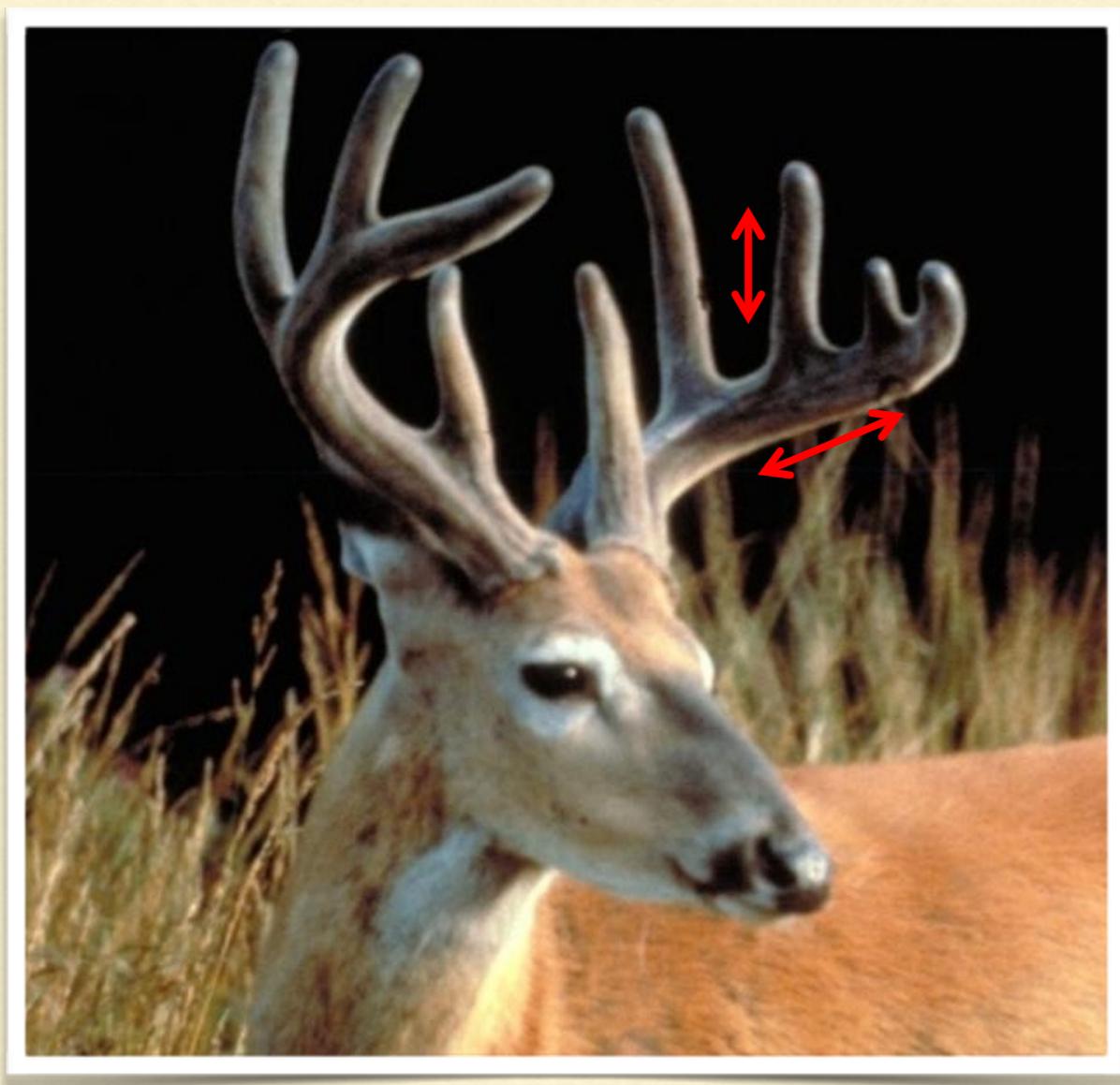


SPECIES ID: WHITE-TAILED DEER

- 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



SPECIES ID: WHITE-TAIL VS. MULE



Main beam with single, vertical points

Antler with multiple forks

SPECIES ID: WHITE-TAIL VS. MULE



Mule deer doe



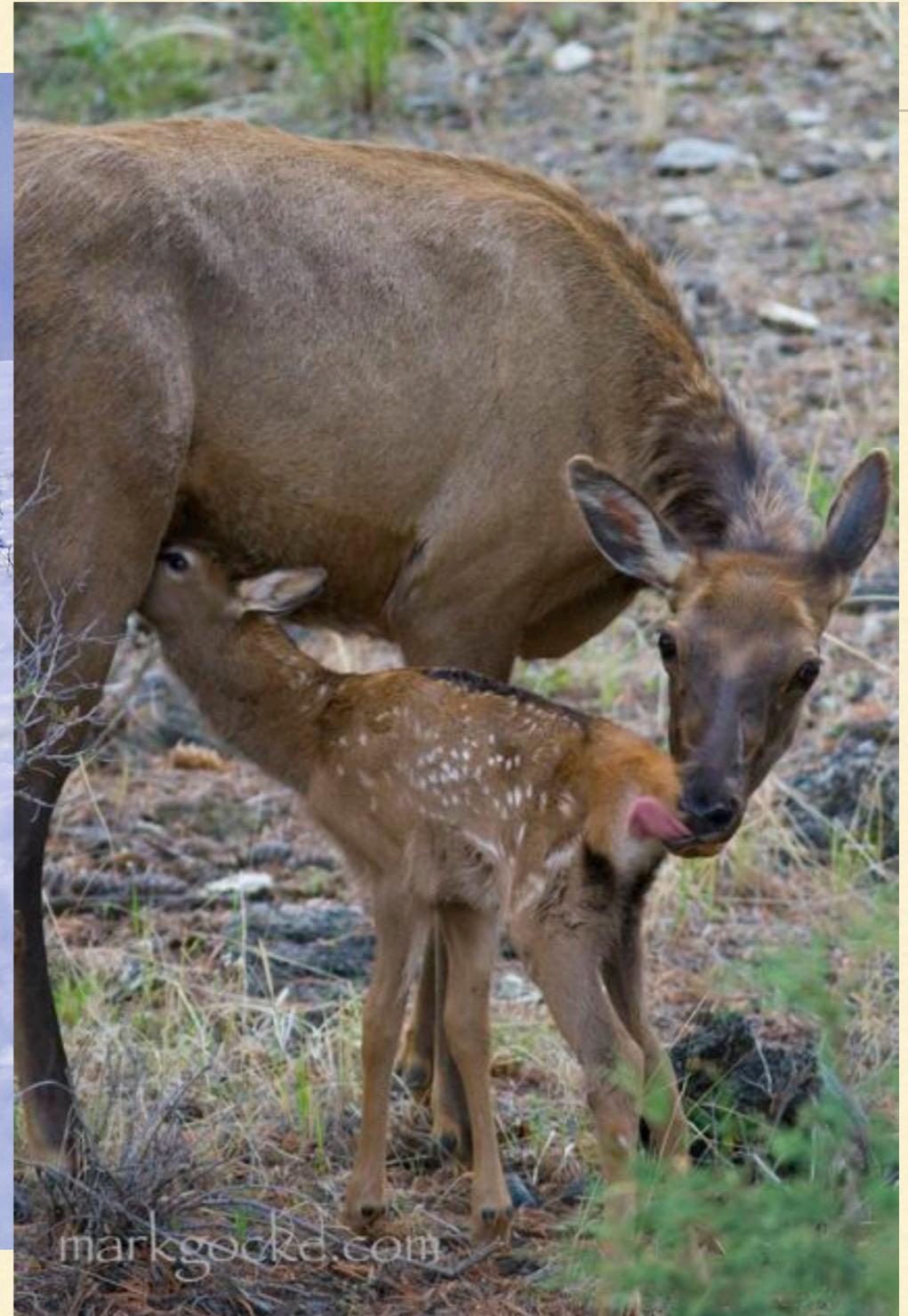
White-tailed deer doe

SPECIES ID: ELK

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



SPECIES ID: ELK



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: YELLOW WARBLER



SPECIES ID: WILSON'S WARBLER



SPECIES ID: TOWNSEND'S WARBLER



SPECIES ID: AMERICAN REDSTART



SPECIES ID: WESTERN TIGER SALAMANDER



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:

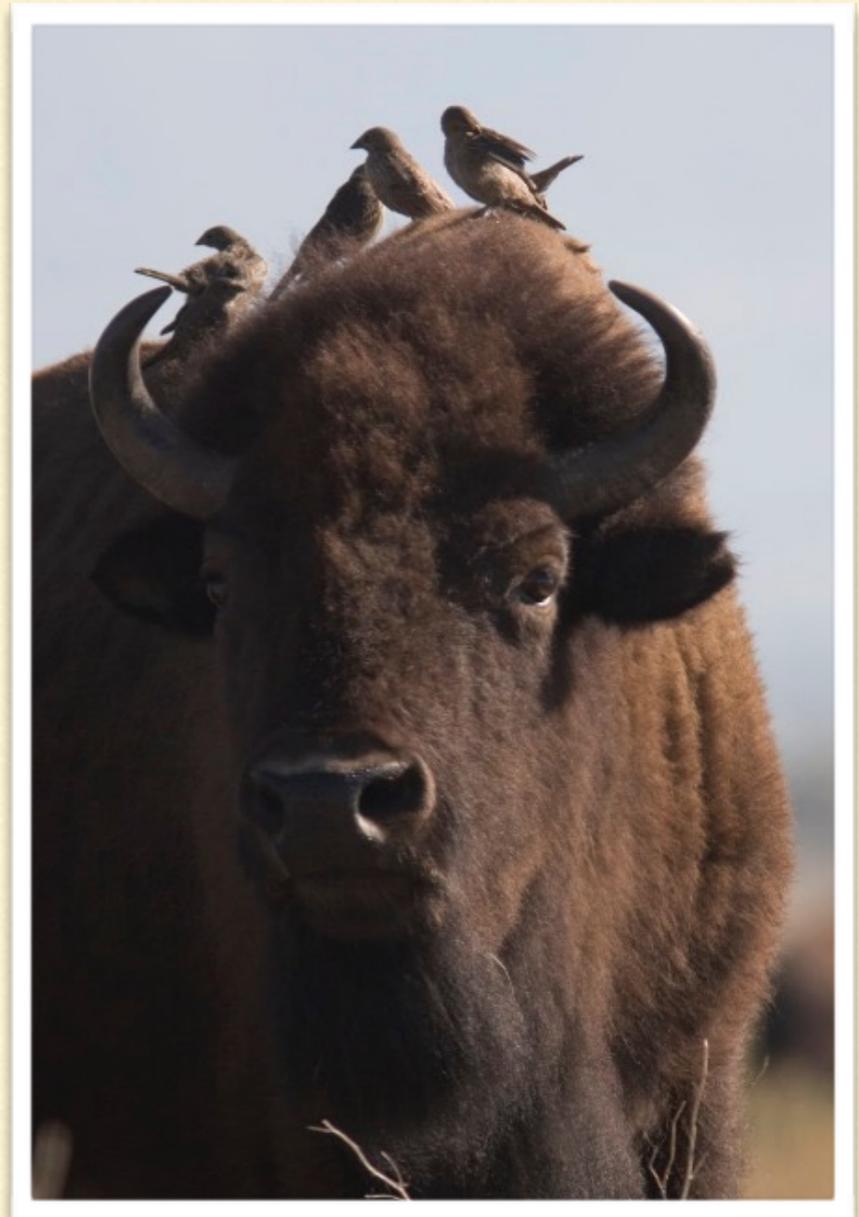
- Squirrels
- Swans
- Hawks
- Snakes



SEX: BISON MALE VS. FEMALE



Male: Less curved horns



Female: More curved horns

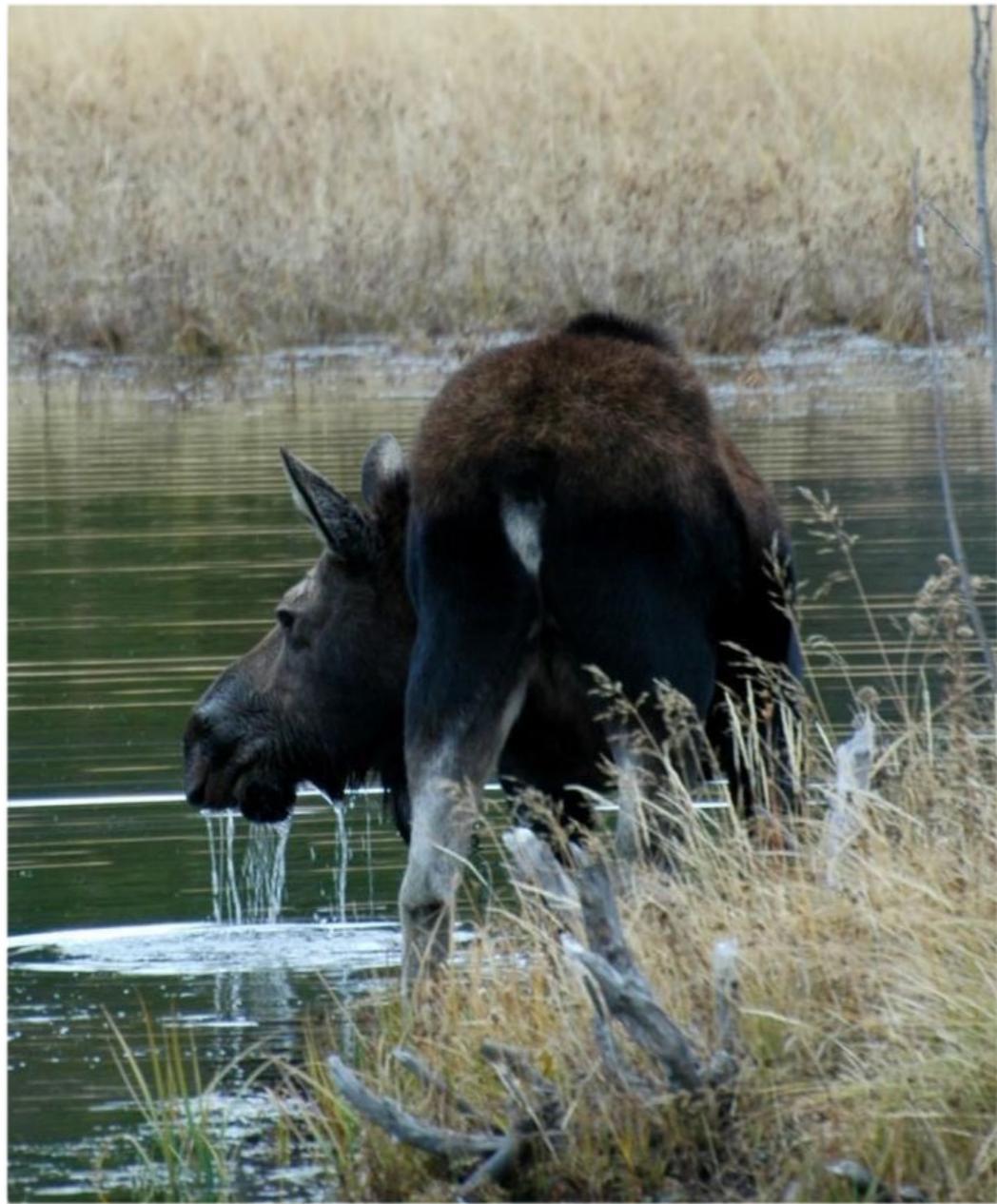
SEX: BISON



SEX: MOOSE MALE



SEX: MOOSE FEMALE



SEX: PRONGHORN



Male



Female

SEX: BARROW'S GOLDENEYE



Male

Female

SEX: MOUNTAIN BLUEBIRD



Male

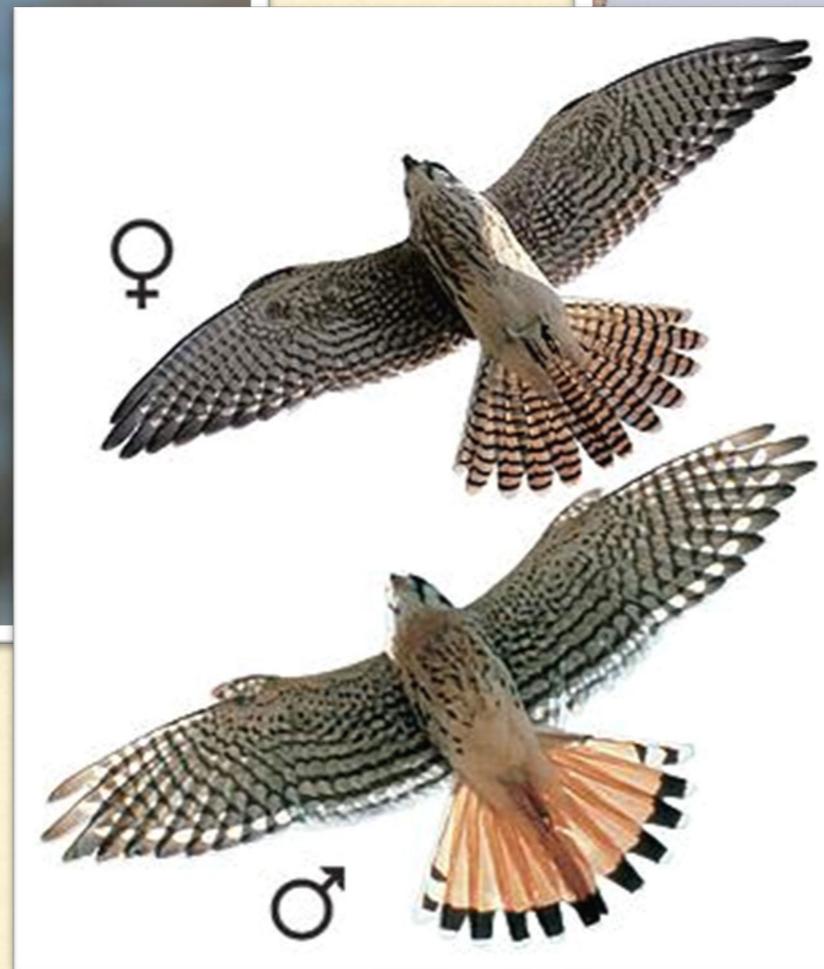


Female

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)



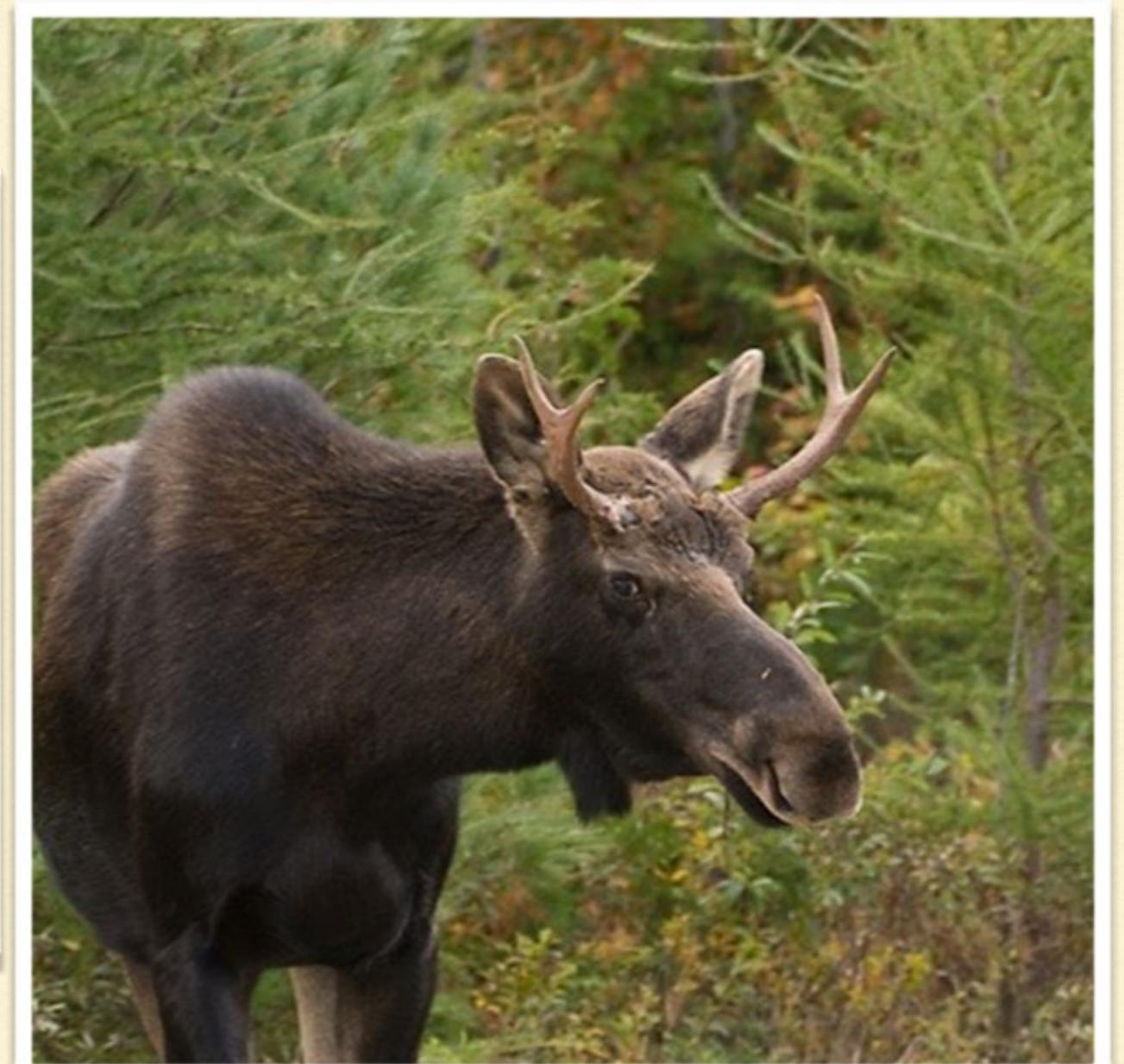
AGE: JUVENILES

Sub-Adults:

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

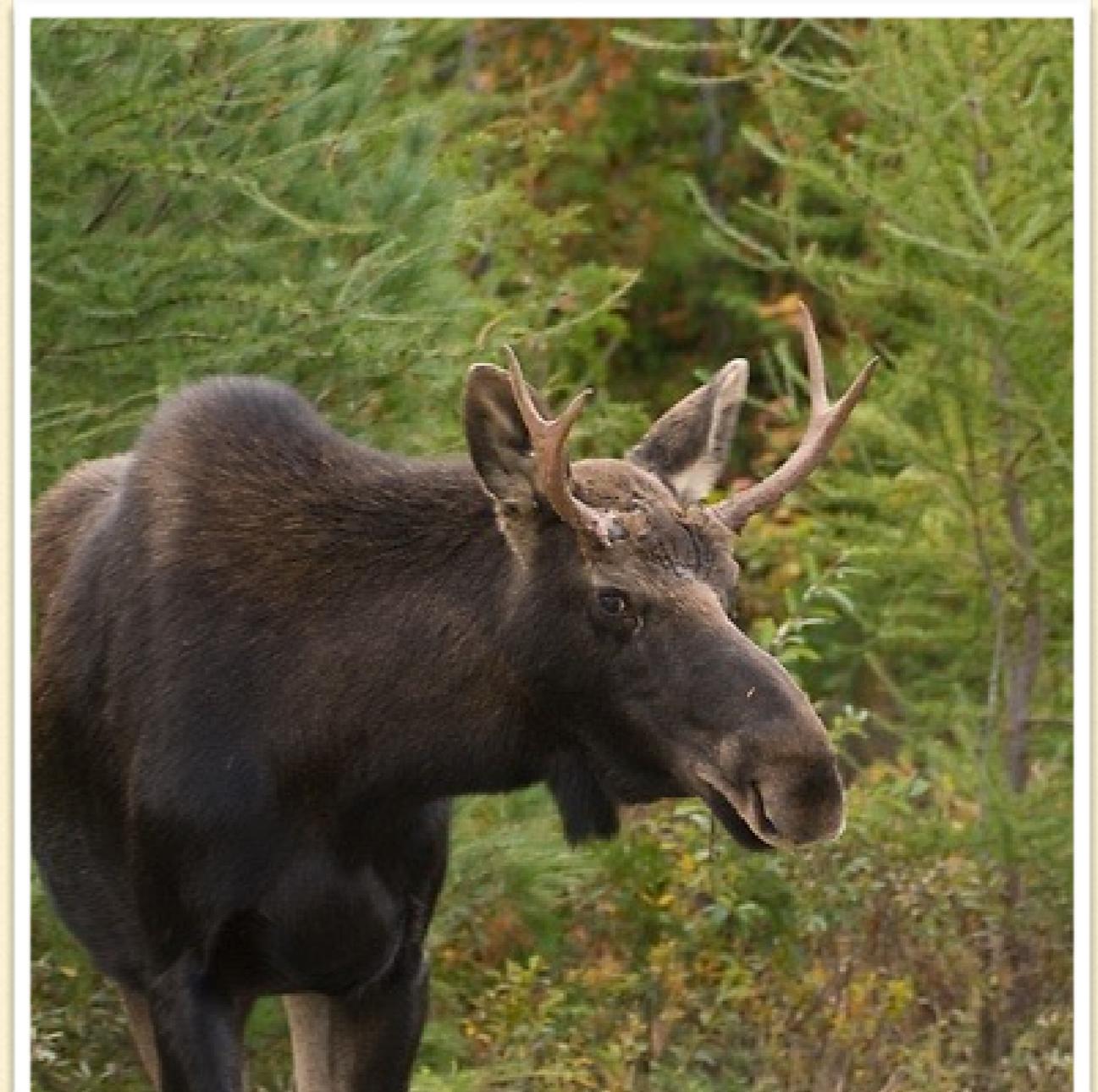


AGE: ANTLER SIZE DOES NOT TELL ALL



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



AGE: CAN YOU AGE DEER?



No, cannot tell age based on antler size. If antlers are present, age as Adults

ACTIVITY:

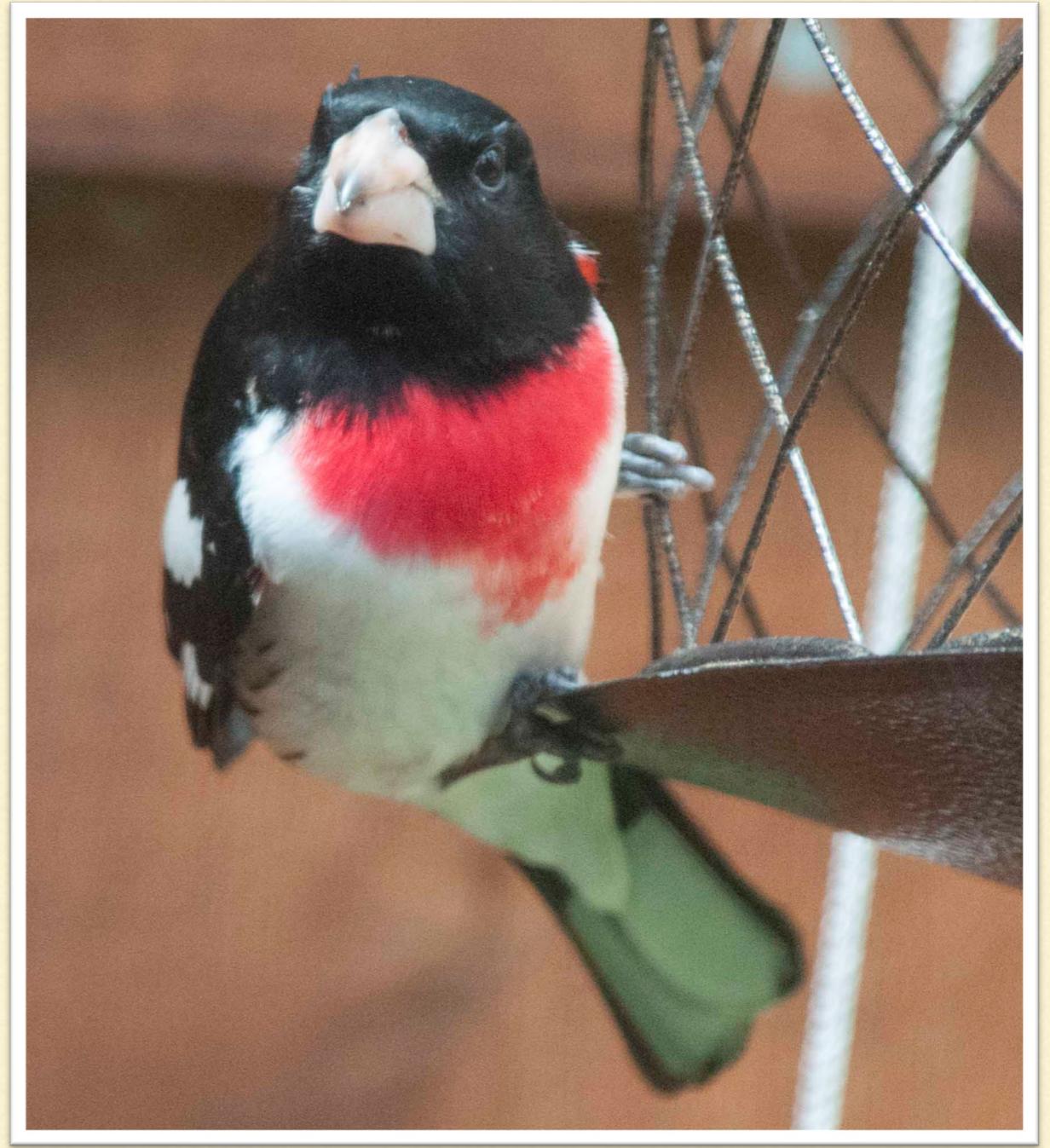
- Loafing/Resting
- Feeding
- Standing
- Walking
- Running
- Flying
- Swimming



ACTIVITY: SIGN (TRACK/SCAT)

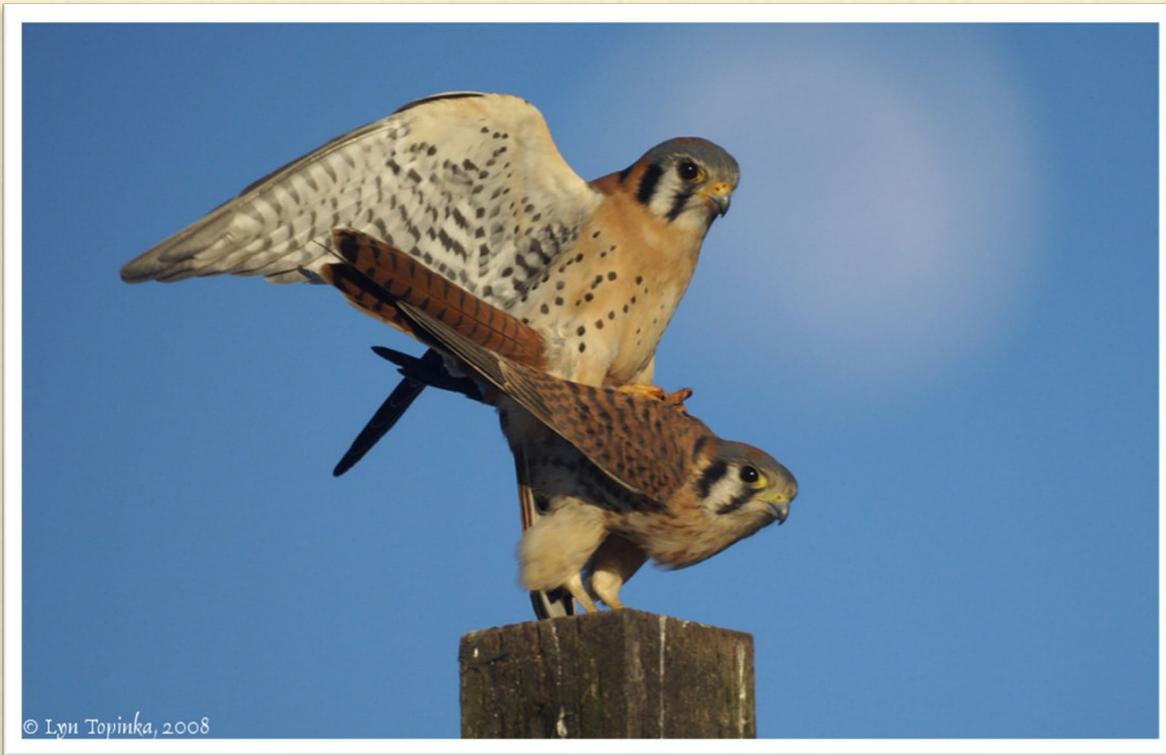


ACTIVITY: ACTIVE BIRD FEEDER



ACTIVITY: REPRODUCTION (BREEDING)

- In the act or courtship behavior



ACTIVITY: TERRITORIAL

- Singing
- Chasing



ACTIVITY: NESTING



ACTIVITY: UNDETERMINED

- Heard only
- Variable



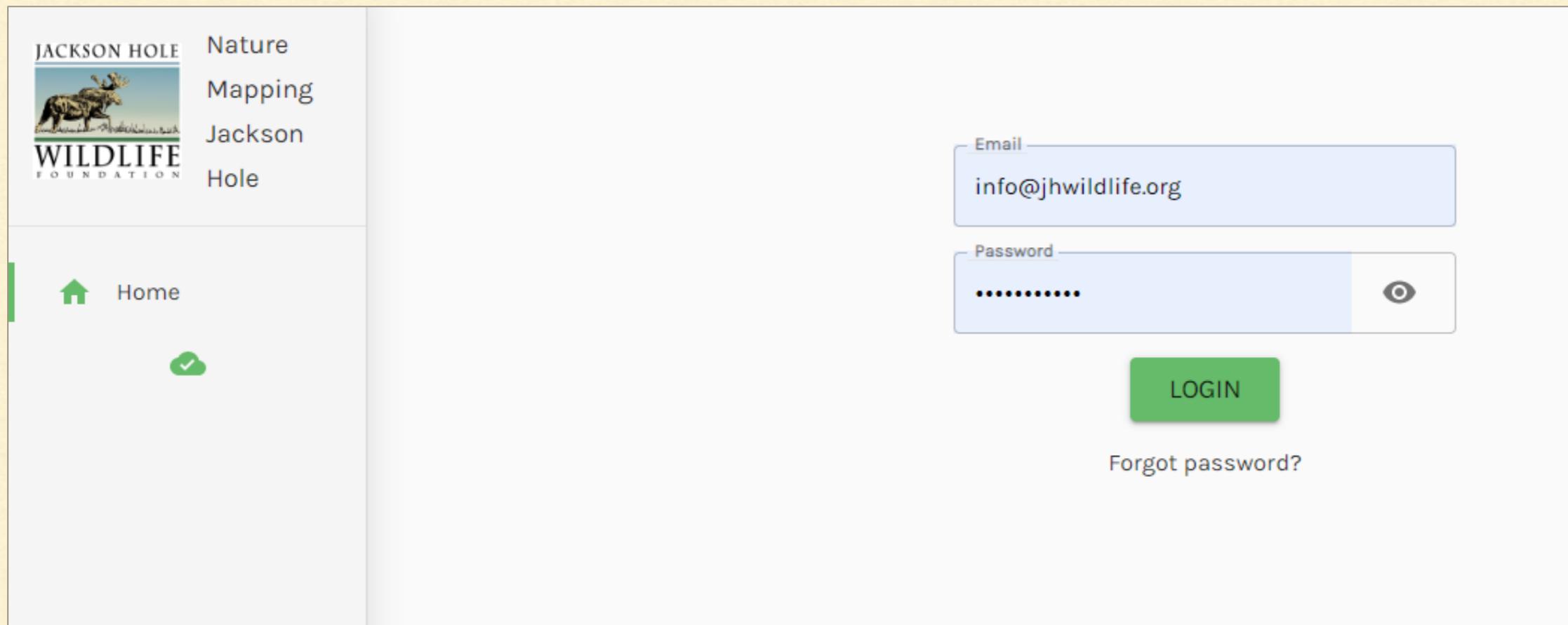
MORTALITY:

- Cause Undetermined
- Fence
- Serious injury
- Powerline/ Electrocution
- Accident – Vehicle
- Predation
- (can add info under notes)



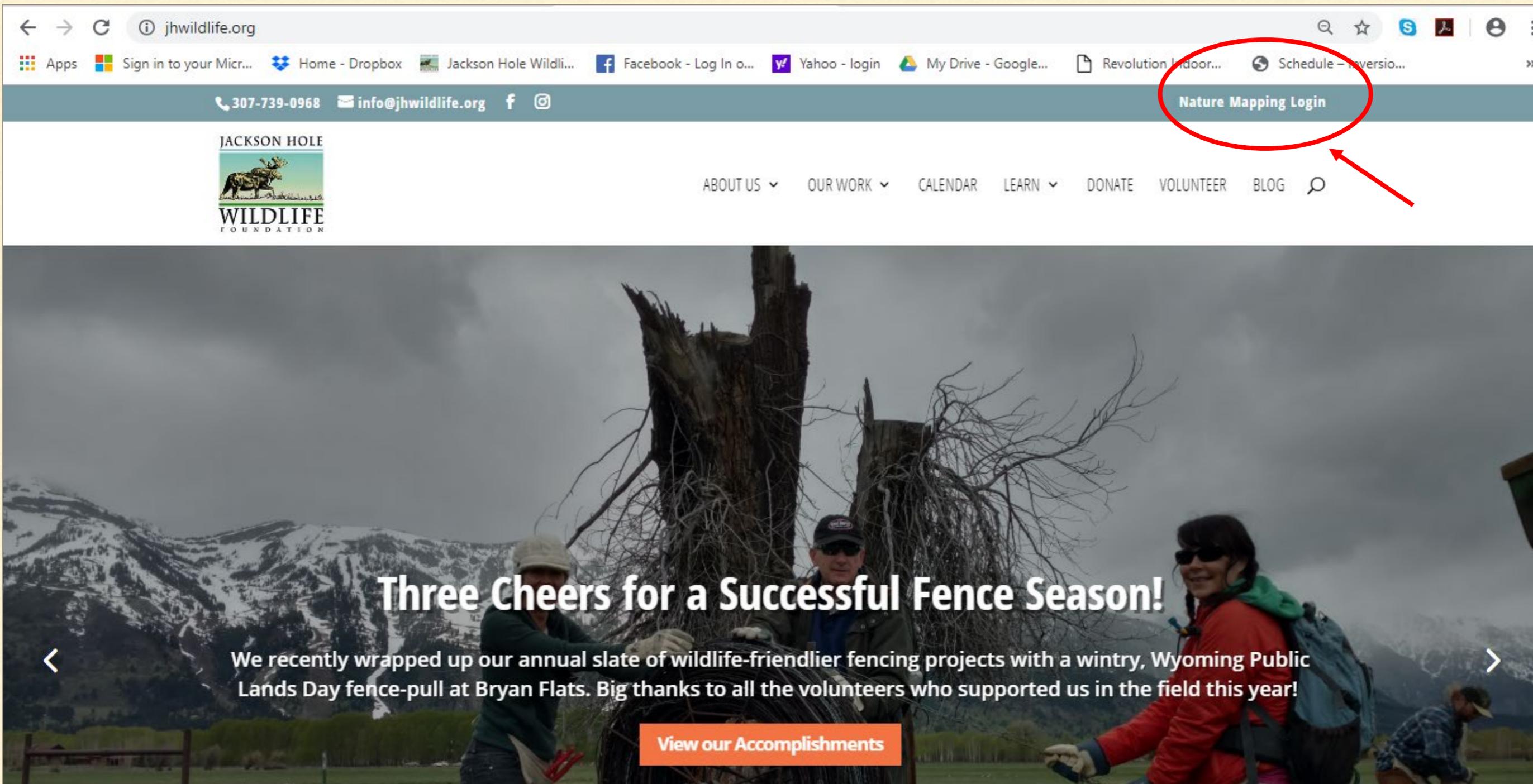
GETTING YOU GOING!

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



The screenshot displays the website interface for the Jackson Hole Wildlife Foundation. On the left, a navigation menu includes the organization's logo (a moose) and the text "JACKSON HOLE WILDLIFE FOUNDATION". Below the logo, the menu lists "Nature", "Mapping", "Jackson Hole", and "Home" (with a house icon). A green checkmark icon is also visible in the menu. The main content area on the right features a login form with two input fields: "Email" containing "info@jhwildlife.org" and "Password" with masked characters. A green "LOGIN" button is positioned below the password field, and a "Forgot password?" link is located underneath the button.

GETTING YOU GOING



The screenshot shows the website for the Jackson Hole Wildlife Foundation. The browser address bar displays 'jhwildlife.org'. The navigation menu includes 'ABOUT US', 'OUR WORK', 'CALENDAR', 'LEARN', 'DONATE', 'VOLUNTEER', and 'BLOG'. The 'Nature Mapping Login' link is circled in red, with a red arrow pointing to it. Below the navigation menu is a large banner image of volunteers working on a fence project in a snowy mountain landscape. The banner text reads: 'Three Cheers for a Successful Fence Season! We recently wrapped up our annual slate of wildlife-friendlier fencing projects with a wintry, Wyoming Public Lands Day fence-pull at Bryan Flats. Big thanks to all the volunteers who supported us in the field this year!' An orange button labeled 'View our Accomplishments' is positioned at the bottom of the banner.

Start at our Home Page: jhwildlife.org

GETTING YOU GOING: LOG IN

JACKSON HOLE WILDLIFE FOUNDATION

Nature
Mapping
Jackson Hole

Home

Email
info@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

Last updated
October 11th, 2019
1:30 PM PST

Your turn!
Enter one of the
observations
you brought to
the class





TEST OBSERVATION #1

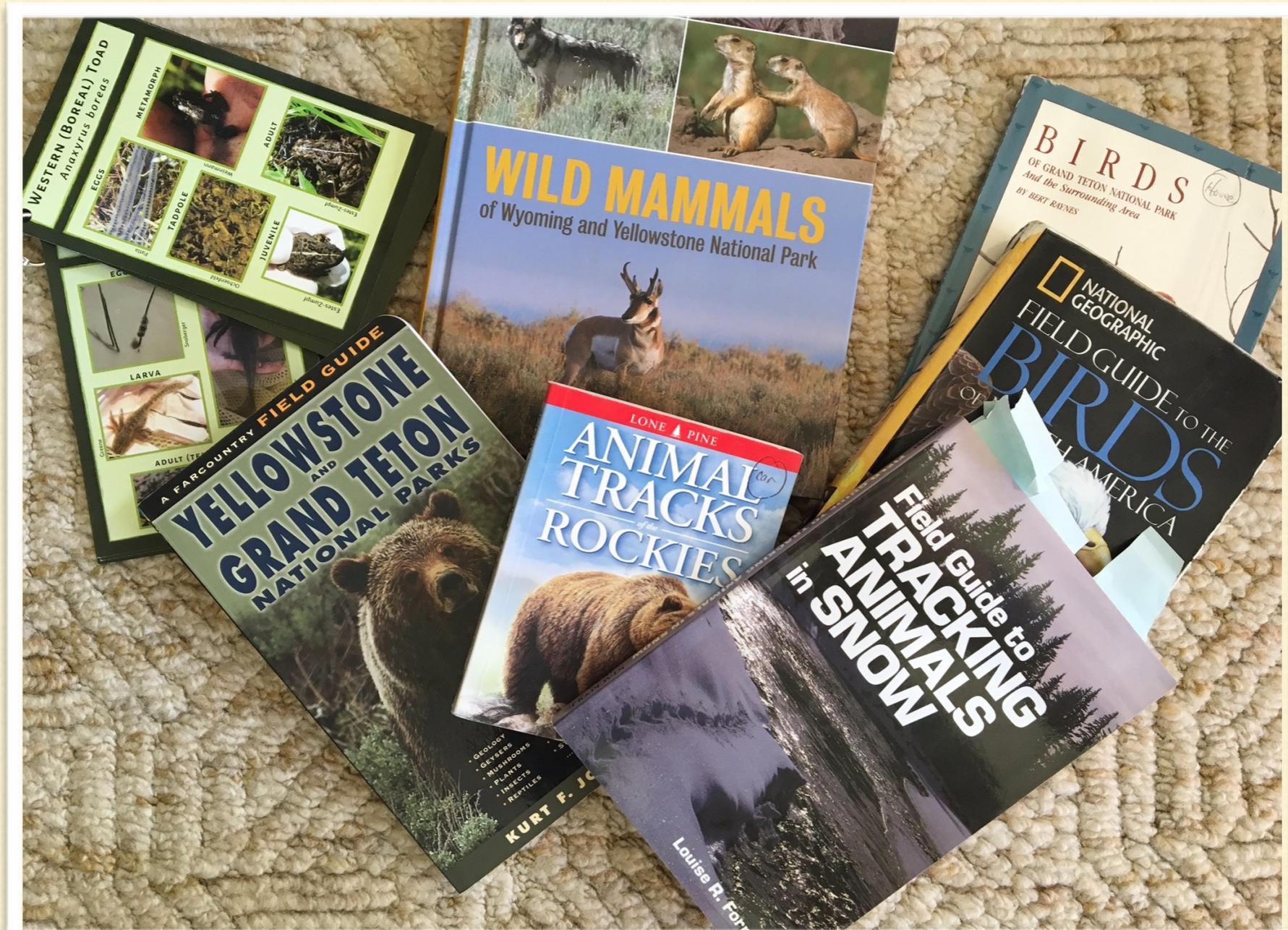
Date: August 25, 2015, Time: 5:00 PM Location: Antelope Flats



TEST OBSERVATION #2

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

RESOURCES: GUIDE BOOKS



RESOURCES: NMJH E-NEWS

Nature Mapping Jackson Hole December Update - Frances Clark, Editor

[View this email in your browser](#)



Nature Mapping eNews - December 2016

[Citizen Scientists Gather in Lander](#)

[Winter Tracking Tips from Hunter Morrow and Tracy Blue](#)

[Mammal Observations in Winter](#)

[November 2016 Data](#)

[Snake River Float Trips Yield New Data](#)

[Nature Mapping Opportunities](#)

[A "Conservation Love Story" Makes a Great Holiday Gift](#)

[Calendar of Events](#)

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

The screenshot shows a web browser window with the URL jhwildlife.org/learn/quick-tips-for-nature-mappers/. The page features the Jackson Hole Wildlife Foundation logo and a navigation menu with links for ABOUT US, OUR WORK, CALENDAR, LEARN, DONATE, VOLUNTEER, and BLOG. A green banner highlights the page title: "Quick Tips and Resources for Nature Mappers".

Getting Started

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.

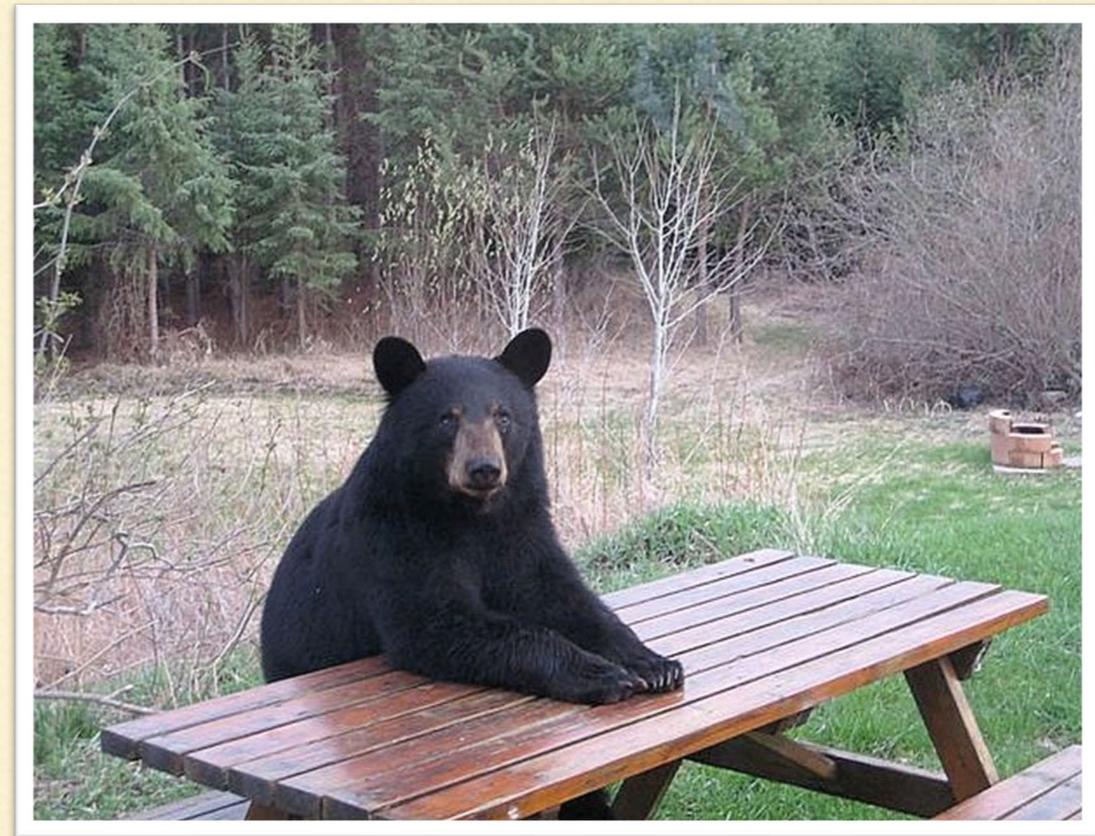
At the bottom of the page, there is a "Submit your wildlife sightings" button and a form titled "Where did you observe this species?" with a "USE MY LOCATION" button.

<https://jhwildlife.org/learn/quick-tips-for-nature-mappers/>

RESOURCES: NMJH COMMUNITY



THANK YOU FOR BECOMING CERTIFIED NATURE MAPPERS!



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

– John Muir
