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# EDUCATION AND OUTREACH

## MAIN PROGRAM GOALS

- CONNECT PEOPLE TO WILDLIFE
- BUILD SUPPORT FOR WILDLIFE CONSERVATION, MANAGEMENT, AND RESEARCH
- PROMOTE AWARENESS OF ALASKA WILDLIFE LAWS



IS THIS **MOOSE** LEGAL?





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# EDUCATION AND OUTREACH

## IN REGION III

- Moose
- Dall Sheep
- Plains Bison
- Wood Bison
- Caribou
- Wildlife disease
- Habitat enhancement
- Fire and wildlife
- Wildlife Safety
- Outdoor skills classes
- Virtual presentations
- Teacher resources
- Miscellaneous







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# PROGRAM PRIORITIES

1.

ASSIST AB's/ REGIONAL MANAGERS TO ADDRESS MANAGEMENT ISSUES AND COMMUNICATE INFORMATION TO THE PUBLIC.

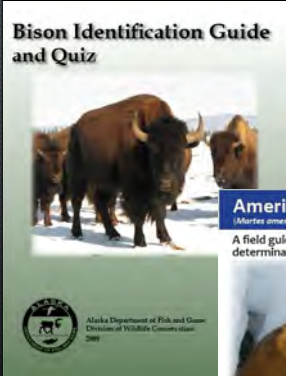
2.

COLLABORATE ON THE DEVELOPMENT OF COMMUNICATION STRATEGIES TO ADDRESS STATEWIDE ISSUES.

3.

DEVELOP EDUCATIONAL MATERIALS TO HELP EDUCATORS TEACH ABOUT ALASKA'S WILDLIFE AND WILDLIFE MANAGEMENT.

Bison Identification Guide and Quiz



Alaska Department of Fish and Game  
Division of Wildlife Conservation  
2009

American marten  
(Martes americana)

A field guide for age and sex determination



Alaska Department of Fish and Game  
Division of Wildlife Conservation, 2018

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# A CROSSROADS IN COMMUNICATION

Traditional (paper) vs. Contemporary (digital, social media)

We must adapt...

THERE IS NO SILVER BULLET

WE OFTEN USE A MULTI-PRONGED APPROACH

EXAMPLE: **MOOSE DISEASE POCKET GUIDE**

PAPER GUIDE, WEB-BASED RESOURCES, DIGITAL ARTICLES IN ALASKA WILDLIFE NEWS, SOCIAL MEDIA ANNOUNCEMENTS ABOUT NEW PRODUCTS AND WILDLIFE DISEASE MONITORING

Moose Health and Disease: A Pocket Guide



Alaska Department of Fish and Game  
Division of Wildlife Conservation, 2009

Alaska Department of Fish and Game - Official

November 20, 2018

ADFG has a new field guide focused on common moose diseases and parasites. The guide includes descriptions, identifying signs, safety information, and detailed instructions on when to report and how to submit observations or samples to the Wildlife Health program. Pick up a copy to take in the field with you this fall in your local ADFG office or click on the link and view it on your mobile device.

<https://www.adfg.alaska.gov/index.cfm?adfg=wildlifehealthguide>

Photo credit: Sam Moore

Want to know about current moose diseases and parasites that you might encounter this fall? Pick up a copy to take in the field with you this fall in your local ADFG office or click on the link and view it on your mobile device.

AVAILABLE AT YOUR LOCAL ADFG OFFICE

ADFG ALASKA 360

MOOSE HEALTH AND DISEASE: A Pocket Guide

Alaska Fish & Wildlife News

A new field guide for moose health in Alaska

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Alaska's moose population is one of the most abundant in the world, and moose are a vital part of the state's economy and culture. However, moose are also susceptible to a variety of diseases and parasites that can affect their health and survival. To help hunters and the public better understand these threats, the Alaska Department of Fish and Game (ADFG) has developed a new field guide for moose health in Alaska.

The guide, titled "Moose Health and Disease: A Pocket Guide," provides detailed information on common moose diseases and parasites, including their signs and symptoms, and how to report and prevent them. The guide is available in both print and digital formats, and can be accessed online at <https://www.adfg.alaska.gov/index.cfm?adfg=wildlifehealthguide>.

The guide is a valuable resource for hunters, landowners, and the general public, and is available for free download or purchase. It is also available at all ADFG offices and is a great addition to any hunter's gear.



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# PRINT PRODUCTS — WE STILL MAKE A LOT OF THEM

## Moose Vehicle Collisions

A safety issue for drivers in Alaska

1. They can happen anywhere on the road system

2. They can happen any time or during any season

3. They can happen to anyone

www.safely.alaska.gov

## Central Arctic Caribou Herd News

Alaska Department of Fish and Game, Summer 2019

Central Arctic caribou herd showing positive signs

Old Population Population Estimate

## Moose Health and Disease: A Pocket Guide

## Maintaining wildlife habitat in the boreal forest of Alaska

A guide for land owners, developers, and timber harvesters

## Managing Alaska Boreal Forest for Wildlife

ADF&G has identified three key factors to maintaining wildlife habitat in boreal forests

## Breakaway Wolf Snares

How to make and use

## Fire and Wildlife in the boreal forest

- Creating new
- Updating old
- Reprinting and distributing annually

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## ONLINE COMMUNITY PRESENTATION

### SHARING JUNEAU'S TRAILS

How trail-users and trappers can co-exist on local trail

## NON-DEFENSIVE

non • de • fen • siv • e

A non-defensive bear will silently approach, with ears up; it may be curious, testing dominance, food conditioned or possibly predatory

Bear Safety Terminology | alaskabears.alaska.gov

# DISTANCE DELIVERY REQUIRED

Virtual presentations

Social Media








Expansion of online resources

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# SOCIAL MEDIA – FACEBOOK, INSTAGRAM, YOUTUBE, VIMEO, NEXTDOOR, ...



- ADF&G HAS SEVERAL FB PAGES BASED ON REGIONS AND PROGRAMS
- STATEWIDE ADF&G PAGE
- DWC HAS 3 REGIONAL PAGES INCLUDING REGION III
- JUST ADDED A WOOD BISON SPECIFIC PAGE
- ADF&G HAS A YouTube CHANNEL AND VIMEO ACCOUNT



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# SOCIAL MEDIA- REGION III FB PAGE

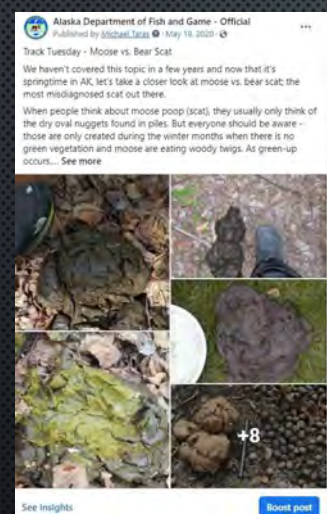


During the ‘snowpocalypse’ of 2021/22 we reached over 100,000 people with messages about the moose situation, moose safety, moose biology, and engagement of citizen science for snow research.

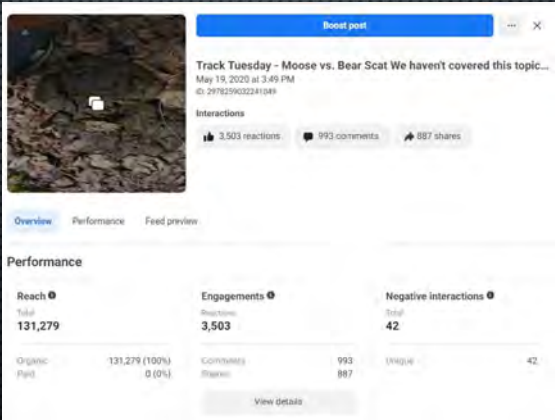
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SOCIAL MEDIA- REGION III FACEBOOK PAGE



Track Tuesday popular series

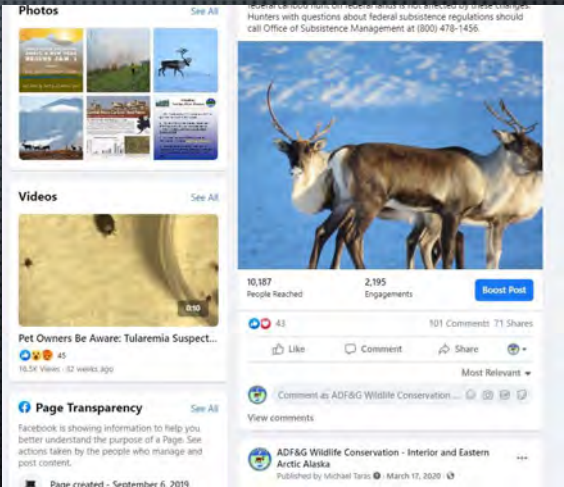


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SOCIAL MEDIA

We regularly use the Region III Facebook page to inform, engage and update hunters about the Fortymile caribou herd.

This has been an incredibly effective tool to reach thousands of hunters.



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# SOCIAL MEDIA

Depending on the topic the reach can be phenomenal

We are creating the news.

Alaska Department of Fish and Game - Official  
October 4, 2020 · 43

Wood Bison update 2020

The winter of 2019-2020 was a difficult one with deep snow and cold temperatures. The wood bison in the lower Innoko-Yukon rivers herd faced well for most of the winter. However, when deep snow persisted through most of the April calving season, there was some mortality. The logistical challenges presented by the novel corona virus and generally rainy, foggy weather in June of 2020 made surveys difficult, but a survey was finally completed on June 30. See More

Wood bison herd size and peak calves each year

Year	Peak Calves	Herd Size
2014	~100	~1,000
2015	~100	~1,000
2016	~100	~1,000
2017	~100	~1,000
2018	~100	~1,000
2019	~100	~1,000
2020	~100	~1,000

227 114 Comments 123 Shares

OUTDOORS

Innoko wood bison herd learning through adversity

By [Name]

PHOTO BY [Name]

10,000 acres added to Cremona's Field Wildlife Refuge

ON 10/03/2020

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# WINTER WILDLIFE SERIES (2019-2022)

30% of virtual audience polled are off the road system

March 25  
7:00pm

Join Lincoln Parrett, Wildlife Research Biologist for ADF&G, and take a closer look at caribou herds across Alaska.

VIRTUAL WINTER WILDLIFE SERIES

A history of Dall's sheep hunting & current research in Alaska  
Tom Lohuis, Brad Wendling, Dr. Beckmen, Zoe Ward

Thursday, Jan. 13, 2022 | 7 p.m.  
Registration required via link in description



- Caribou across Alaska
- Individual Caribou herd updates
- Caribou photocensus
- Caribou disease
- Tracks in the snow
- Wood bison management and herd update
- Fire for habitat enhancement
- Bats in Southeast Alaska
- Dall sheep hunting history and management
- Sitka black tailed deer hunting
- Brown bear denning ecology
- Muskox Research

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## MORE VIRTUAL PRESENTATIONS DURING COVID

- HUNT MANAGEMENT MEETINGS (SPECIFIC GMU’S)
- FIRE AND WILDLIFE IN THE BOREAL FOREST
- MUSKOX RESEARCH IN ALASKA
- TICKS IN ALASKA
- MCNEIL RIVER BEARS
- WILDLIFE SAFETY PRESENTATIONS



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## RADIO SPOTS



### Topics include:

PSAs   Moose vehicle collision, bear messaging, harvest report reminders, wildlife need to know info, to name a few.

We currently have a radio campaign about keeping pets safe on winter trails. It is airing on radio stations around the state a partnership with the Interior Alaska Trappers Association.

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# WORKING FOR WILDLIFE SERIES (2022)

## Working for Wildlife

Fall Moose Surveys Northwest Alaska






The goal of the series is to provide a glimpse into the important conservation work of biologists and other wildlife professionals.



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# MORE VIDEOS

- COUNTING CARIBOU VIDEO
- FOREST TRAIL LEARNING
- TRACKING LYNX
- TAKING PHOTOS OF TRACKS IN SNOW
- HOW MANY BEARS IN THIS FOREST
- WHAT GROUSE GOES WHERE
- BEAVER BREAKOUT
- TRACKING MOOSE IN FALL
- PUT YOUR BIRDFEEDER INSIDE

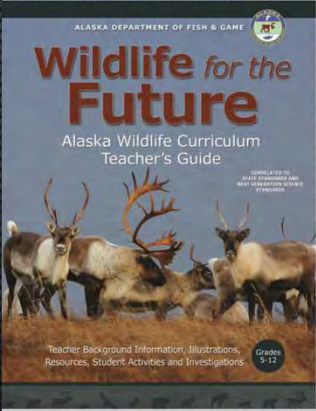


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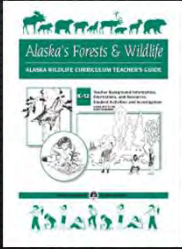
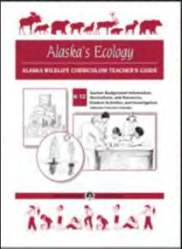
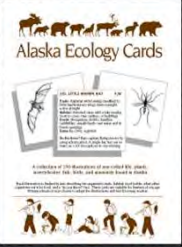
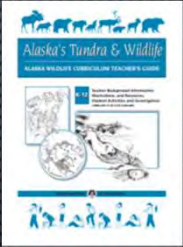
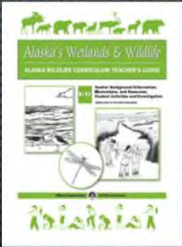


# ALASKA WILDLIFE CURRICULUM

...and professional development training



This Alaska specific, place based material has been adopted and integrated by various school districts including the Lower Kuskokwim and the Yukon Koyukuk school districts.



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# TEN YEARS OF WILD WONDERS KIDS MAGAZINE

14,000 COPIES OF 'WILD FOODS' MAGAZINE ALONE



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# OTHER OUTREACH PROGRAMS

Alaska Department of Fish and Game

## ALASKANS AFIELD

**Animal Tracks in Snow**

**Saturday, Feb 15**  
10 am - 2 pm

**Cost: \$20**  
**Location:** To be announced by email the week before class.

Register online at: [www.alaskansafield.adfg.gov](http://www.alaskansafield.adfg.gov)

For more information, call or email Mike Taras: [mike.taras@alaska.gov](mailto:mike.taras@alaska.gov), (907) 459-7230

**Friday February 21, 5:30 - 8:30 pm AND Saturday February 22, 10 am - 2 pm**

**Cost: \$25**  
**Location:** ADF&G Fairbanks Office

**Winter Survival Skills**

**Alaskans Afield: Series for New Hunters**

**Wildlife Safety**  
Tuesday September 15th, 7-8 p.m.

**Small Game Hunting**  
Wednesday September 23rd, 7-8 p.m.

**Big Game Hunting**  
Wednesday September 30th, 7-8 p.m.

Register in accordance to calendar (containing) to ensure hunting guidelines



- Alaskans Afield Courses
- Wildlife Safety
- Becoming and Outdoors woman

**How to use bear spray effectively**

*By Alaska Department of Fish and Game*

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# STAFF TRAINING MATERIALS AND VIDEOS

**PART 1**  
Taking a Nasal Swab

**What Animals to Sample?**

- Dall Sheep
- Mountain Goats
- Other Ungulates

**Nasal swabbing ungulate heads for respiratory pathogens**  
Alaska Department of Fish and Game, 2018

**Which heads are good to sample?**

- Heads that are fresh (less than 24 hours old)
- Heads that are not from a dead animal (no frostbite, no signs of death)
- Heads that are not from a sick animal (no coughing, no sneezing, no discharge from the nose)

**Supplies to collect nasal swabs**

- 100% Ethanol
- 100% Isopropanol
- 100% Acetone
- 100% Glycerol
- 100% Sterile Water
- 100% Sterile Swabs
- 100% Sterile Tubes
- 100% Sterile Caps
- 100% Sterile Labels
- 100% Sterile Gloves
- 100% Sterile Mask
- 100% Sterile Goggles
- 100% Sterile Apron
- 100% Sterile Disinfectant
- 100% Sterile Ice Pack
- 100% Sterile Cooler
- 100% Sterile Bag
- 100% Sterile Box
- 100% Sterile Container
- 100% Sterile Vial
- 100% Sterile Syringe
- 100% Sterile Needle
- 100% Sterile Catheter
- 100% Sterile Tube
- 100% Sterile Wire
- 100% Sterile Hook
- 100% Sterile Forceps
- 100% Sterile Scissors
- 100% Sterile Scalpel
- 100% Sterile Suture
- 100% Sterile Staple
- 100% Sterile Glue
- 100% Sterile Tape
- 100% Sterile Bandage
- 100% Sterile Dressing
- 100% Sterile Gauze
- 100% Sterile Pad
- 100% Sterile Cloth
- 100% Sterile Paper
- 100% Sterile Plastic
- 100% Sterile Metal
- 100% Sterile Glass
- 100% Sterile Wood
- 100% Sterile Stone
- 100% Sterile Rubber
- 100% Sterile Leather
- 100% Sterile Fabric
- 100% Sterile Paper
- 100% Sterile Plastic
- 100% Sterile Metal
- 100% Sterile Glass
- 100% Sterile Wood
- 100% Sterile Stone
- 100% Sterile Rubber
- 100% Sterile Leather
- 100% Sterile Fabric

**Procedure for collecting sample**

1. Prepare the sample head by washing it with 100% ethanol and 100% isopropanol.

2. Prepare the sample head by washing it with 100% acetone and 100% glycerol.

3. Prepare the sample head by washing it with 100% sterile water.

4. Prepare the sample head by washing it with 100% sterile swabs.

5. Prepare the sample head by washing it with 100% sterile tubes.

6. Prepare the sample head by washing it with 100% sterile caps.

7. Prepare the sample head by washing it with 100% sterile labels.

8. Prepare the sample head by washing it with 100% sterile gloves.

9. Prepare the sample head by washing it with 100% sterile mask.

10. Prepare the sample head by washing it with 100% sterile goggles.

11. Prepare the sample head by washing it with 100% sterile apron.

12. Prepare the sample head by washing it with 100% sterile disinfectant.

13. Prepare the sample head by washing it with 100% sterile ice pack.

14. Prepare the sample head by washing it with 100% sterile cooler.

15. Prepare the sample head by washing it with 100% sterile bag.

16. Prepare the sample head by washing it with 100% sterile box.

17. Prepare the sample head by washing it with 100% sterile container.

18. Prepare the sample head by washing it with 100% sterile vial.

19. Prepare the sample head by washing it with 100% sterile syringe.

20. Prepare the sample head by washing it with 100% sterile needle.

21. Prepare the sample head by washing it with 100% sterile catheter.

22. Prepare the sample head by washing it with 100% sterile tube.

23. Prepare the sample head by washing it with 100% sterile wire.

24. Prepare the sample head by washing it with 100% sterile hook.

25. Prepare the sample head by washing it with 100% sterile forceps.

26. Prepare the sample head by washing it with 100% sterile scissors.

27. Prepare the sample head by washing it with 100% sterile scalpel.

28. Prepare the sample head by washing it with 100% sterile suture.

29. Prepare the sample head by washing it with 100% sterile staple.

30. Prepare the sample head by washing it with 100% sterile glue.

31. Prepare the sample head by washing it with 100% sterile tape.

32. Prepare the sample head by washing it with 100% sterile bandage.

33. Prepare the sample head by washing it with 100% sterile dressing.

34. Prepare the sample head by washing it with 100% sterile gauze.

35. Prepare the sample head by washing it with 100% sterile pad.

36. Prepare the sample head by washing it with 100% sterile cloth.

37. Prepare the sample head by washing it with 100% sterile paper.

38. Prepare the sample head by washing it with 100% sterile plastic.

39. Prepare the sample head by washing it with 100% sterile metal.

40. Prepare the sample head by washing it with 100% sterile glass.

41. Prepare the sample head by washing it with 100% sterile wood.

42. Prepare the sample head by washing it with 100% sterile stone.

43. Prepare the sample head by washing it with 100% sterile rubber.

44. Prepare the sample head by washing it with 100% sterile leather.

45. Prepare the sample head by washing it with 100% sterile fabric.

**Wildlife Safety Guide**  
Course outline and reference materials  
for ADF&G staff training

Alaska Department of Fish and Game  
Division of Wildlife Conservation, 2019

Web page content creation and updates

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# SPECIES EXAMPLE

AFTER MUCH MISINFORMATION, PROPOSALS, AND PUBLIC PRESENTATIONS WE CREATED AND DISTRIBUTED THE DALL'S SHEEP NEWS

➤ THERE HAS BEEN A COINCIDENTAL, SIGNIFICANT REDUCTION IN SHEEP PROPOSALS SINCE.

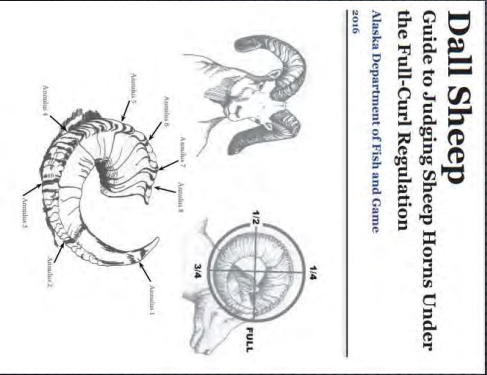


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# SPECIES EXAMPLE

WE CREATED THE STAFF TRAINING MANUAL FOR FULL CURL IDENTIFICATION TO ENSURE CLARIFICATION AND UNIFICATION OF STATEWIDE TECHNIQUES. WE THEN PROCEEDED TO DEVELOP A FULL CURL GUIDE FOR HUNTERS.

Staff Training  
Manual




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# SPECIES EXAMPLE

## CREATE AND DISTRIBUTE THE FULL CURL HUNTING GUIDE

- COINCIDENTAL DROP IN SUBLEGAL RAM TAKE THE YEAR OF RELEASE FROM LONG TERM 10%, TO LESS THAN 2%. DATA FROM JOE WANT



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# SPECIES EXAMPLE

## WE CONTINUE THE ENGAGEMENT AND RELATIONSHIP WITH HUNTERS

- CITIZEN SCIENCE DISEASE SAMPLING
- FOLLOW UP WITH LATEST INFORMATION AND RESEARCH







WE REACHED OVER 1,000 SHEEP ENTHUSIASTS WITH THIS PRESENTATION.

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THANK YOU!

