Native Lands Stewardship Webinar Series

Notes from the Field: How Data and Wildlife Management Can Protect Tribal Values

July 9, 2020
All participants will be muted during the webinar.

- Please use the question box to enter any questions to staff.

- There will be a question and answer session at the end of the presentation. Please add your questions to the Questions box.
Introductions

Dr. Shaun Grassel
Wildlife Biologist, Lower Brule Sioux Tribe

Emilie Ellis
Senior Program Officer, First Nations Development Institute

Mary Adelzadeh, Diné
Consultant, First Nations Development Institute
Poll 1

Why are you attending this webinar?

A. Interesting Topic
B. Knowledgeable Presenter
C. For my job/my boss made me
D. It was something to do while on lockdown
Notes from the Field: How Data and Wildlife Management Can Protect Tribal Values

• **Introduction:** Why data collection and research is important for Native nations

• Case study – monitoring population trends of deer

• Case study – how badgers and black-footed ferrets share space

• Case study – impact of coyote predation on pronghorn

• Case study – mitigating the effects of plague on prairie dog colonies

• Case study – curtailing the use of lead ammunition to protect eagles

• Conclusion – how can we protect tribal values through wildlife management
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Case study – monitoring population trends of deer
Poll 2

How many black-footed ferrets are left in the wild?

A. 1
B. 50
C. 100-200
D. 300-400
E. 0 – They are extinct

https://www.fws.gov/mountain-prairie/es/blackFootedFerret.php
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Black-footed ferret

American badger
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Number of Pronghorn

Kids per 100 Does
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2011 Harvest Data

<table>
<thead>
<tr>
<th>Harvest</th>
<th>Pheasants</th>
<th>Grouse</th>
<th>Doves</th>
<th>Prairie Dogs</th>
<th>Big Game</th>
</tr>
</thead>
<tbody>
<tr>
<td>Harvest</td>
<td>7450</td>
<td>1000</td>
<td>160</td>
<td>39000</td>
<td>450</td>
</tr>
<tr>
<td>Crippling rate</td>
<td>10%</td>
<td>10%</td>
<td>10%</td>
<td>100%</td>
<td>10%</td>
</tr>
<tr>
<td>Crippling loss</td>
<td>745</td>
<td>100</td>
<td>16</td>
<td>39000</td>
<td>45</td>
</tr>
</tbody>
</table>

Example: Upland Bird Hunting

- 10% crippling loss
- 860 crippled birds die in the field
- 5% of shot is in crippled birds = .05x212 = 10 pellets
- 10x861=8600 pellets available to scavengers in carcasses
- each 5 shot pellet weighs .167g (x 8600 pellets)= 144g
- enough shot in crippled upland game birds to kill 72 eagles
- 75% of shots fired at upland birds are misses
- 34440 shots fired at upland game
- 80% of shot on killed birds is deposited in the field
- 12 ga 5 shot averages 215 pellets
- 172 pellets deposited in the field on kill shots
- 172x8610= 1,480,920 pellets on kill shots remain in the field
- 25830 misses x 215 pellets = 5,553,450 pellets in the field from missed shots
- 7,034,370 pellets deposited in the field from upland bird hunters annually
- each 5 shot pellet weighs .167g (x 7034370 pellets)
- = 2,590 pounds of lead deposited in the field from upland bird hunters annually
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Q&A

Please submit your questions in the question box
Questions about this webinar topic?
Contact:

**Dr. Shaun Grassel**
- Wildlife Biologist, Lower Brule Sioux Tribe
- Email: smgrassel@gmail.com
- Lower Brule Sioux Tribe Website: https://www.lowerbrulesiouxtribe.com/

The recorded webinar can be accessed on our website under the First Nations Knowledge Center at https://www.firstnations.org/fnk
Next Webinar

GIS Mapping in Indigenous Communities

Tentative Presenter: Steve DeRoy, Director at The Firelight Group
Tentative Date: Tuesday, July 28th 2020 at 12 pm MDT

Where to Register:
https://attendee.gotowebinar.com/register/3754685281643484943

Webinar series questions?
Contact: Emilie Ellis at eellis@firstnations.org
Thank you!