# Interagency Wolf Committee Meeting

March 25, 2015

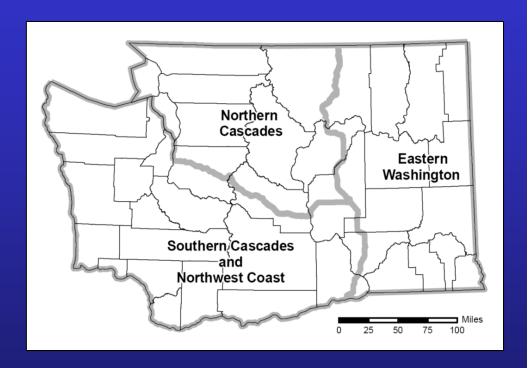




# Recovery Objectives

- Delist at 15 successful breeding pair for 3 consecutive years
- Or 18 successful breeding pair for 1 year

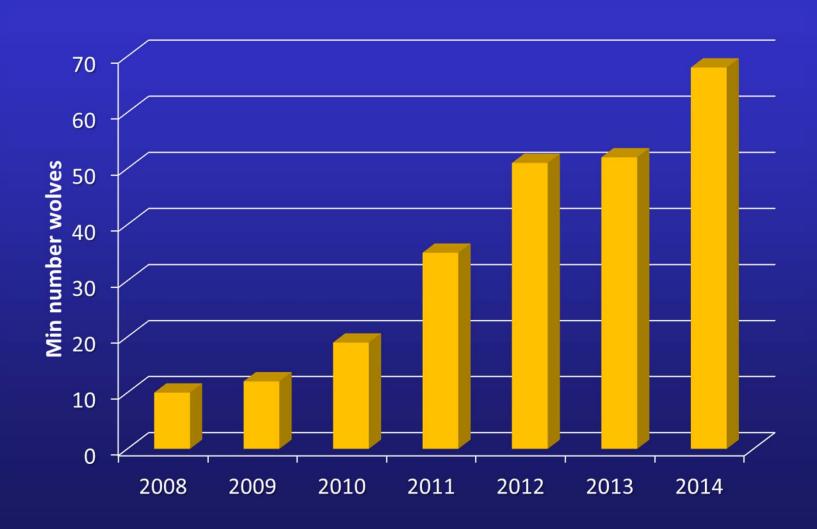
Distributed among 3 recovery regions



# **Population Status**



## Trend in Minimum Number of Wolves



#### Wolf Packs as of December 2014



Recovery Region	Confirmed Pack	Successful Breeding Pairs	Min Count	Mortality	Known Dispersal	Depredations
Eastern	Carpenter Ridge	Yes	4	0	0	0
Washington	Diamond	No	2	0	1	0
	Dirty Shirt	No	3	0	0	0
	Goodman Meadows	Yes	6	0	0	0
	Huckleberry (STOI)	Yes	6	2	0	33
	Nc'icn (CCT)	No	4	0	2	0
	Profanity Peak	Yes	6	1	0	4
	Ruby Creek	No	-	1	0	0
	Salmo	No	3	0	0	0
	Smackout	No	5	1	0	0
	Strawberry (CCT)	No	3	0	0	0
	Tucannon	No	2	0	0	0
	Wedge	No	2	0	0	0
	Whitestone (CCT)	No	2	0	0	0
	Misc/Loners		8	2	0	2
Northern	Lookout	No	4	1	1	1
Cascades	Teanaway	Yes	5	1	1	0
	Wenatchee	No	2	0	0	0
	Misc/Loners		1	1	0	0
S Cascades & NW Coast	None	None	0	0	0	0
	Statewide	5	68	10	5	40

# Washington Wolf Population Summary

Year	Min count	Known No. Packs	SBP	Growth Rate	Known Wolf Mortality
2008	10	1	1		0
2009	12	2	2	20%	0
2010	19	3	1	58%	2
2011	35	7	5	84%	0
2012	51	9	5	46%	9
2013	52	13	5	2%	5
2014	68	16	5	31%	10
Ave				38%	

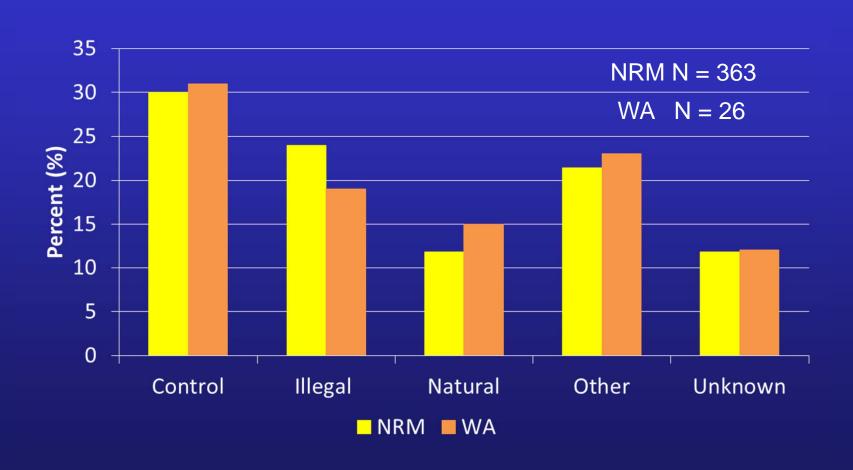
# **Known Wolf Mortality**

#### Washington

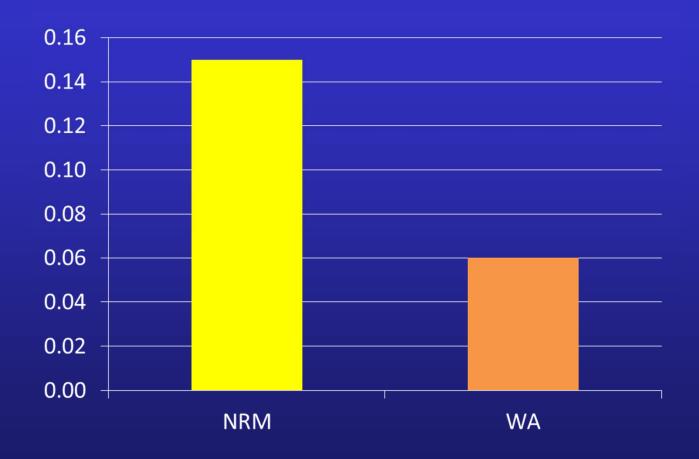
Year	Natural	Control	Illegal	Other human	Harvest	Unkn	Total
2008							0
2009							0
2010			2				2
2011							0
2012		7		1		1	9
2013	1			3	1		5
2014	3	1	3	1		2	10
TOTAL	4	8	5	5	1	3	26

# Wolf Mortality Factors

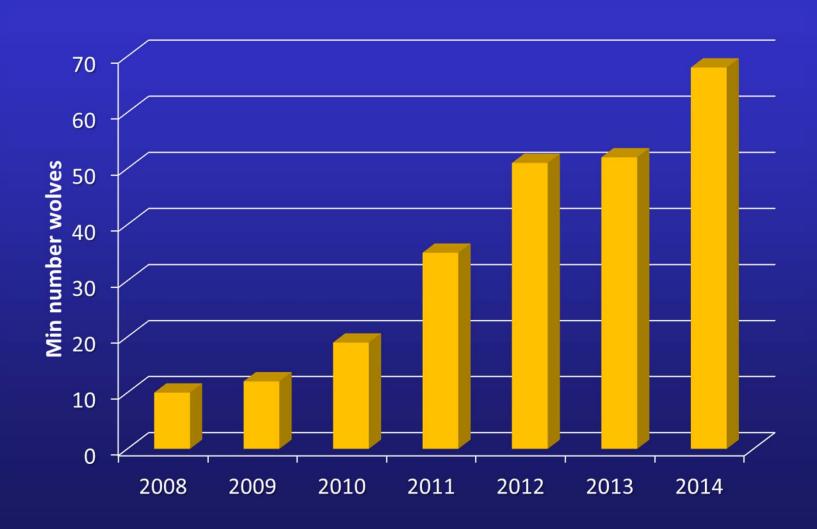
NRM compared to WA



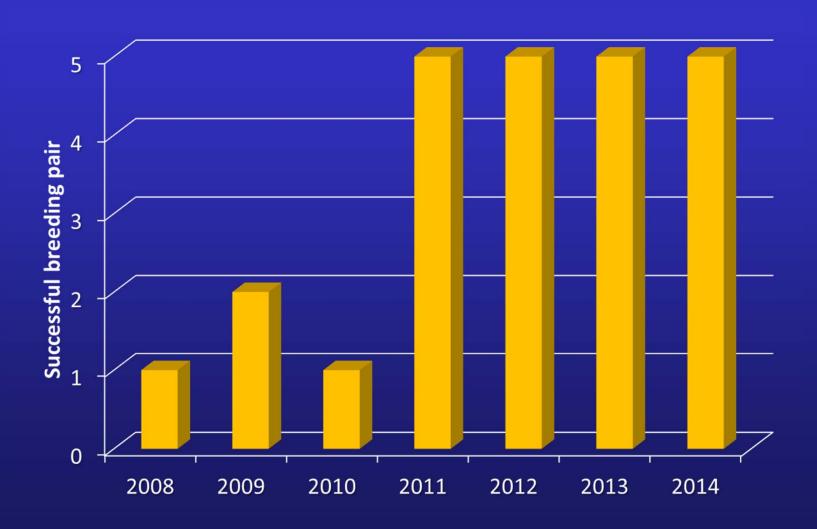
## Proportion of Minimum Population Removed



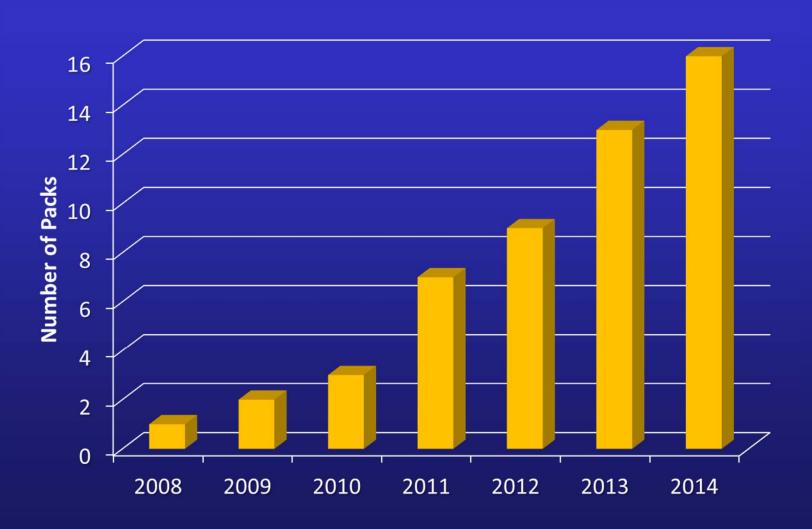
## Trend in Minimum Number of Wolves



## Trend in Number of Successful Breeding Pair



### Trend in Number of Wolf Packs



# **Capture and Monitoring**





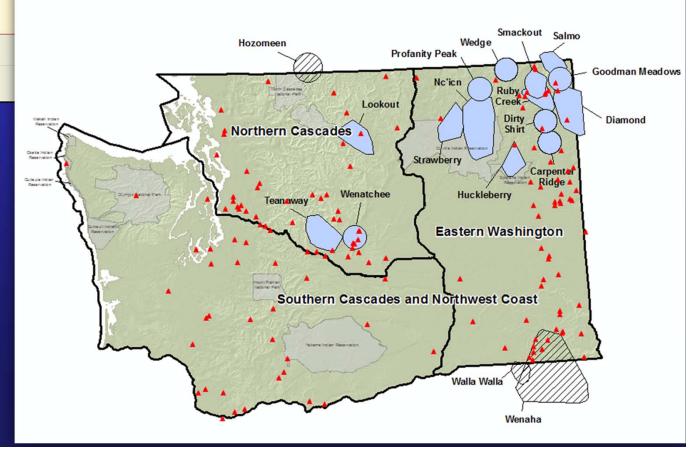
#### **WDFW Wolf Observation Reporting Form**

Mr.  Ms.  Ms.  Ms.  Ms.  Ms.  Ms.  Ms.  Ms	rs.		
* First Name:	* Last Name:		
Affiliation:			
Mailing Address:			
City:	State:	Zip:	
* Phone:			
" Phone:	XXX-XXX-XXXX		
* E-mail Address:			
Are you the Observer	or the Reporter?		
Observer Repo			
Were Other Observers	s Present?  No Yes		
If yes please provide par	mes and contact information fo	or each observer. Toyt is	
limited to 250 character		r cach observer. Text is	
		^	
		<u> </u>	

How to recognize a g	gray wolf
GRAY WOLF	COYOTE
Color: light gray to black	Color: light gray/brown
Dimensions: 2.5 feet tall, 5-6 feet long Broad snout	Dimensions: 1.5 feet tall, 4 feet long
Round ears	Tall pointed ears
E 105	Narrow snout
80-120 pounds	20-50 pounds
Paw size: 4" x 5"	Paw size: 2" x 2.5"
Wolves are protected by federal law under t	he Endangered Species Act.
Source: U.S. Fish and Wildlife Service	The Salt Lake Tribune

Dial 911 to report an emergence

#### **Reporting wolf sighting**



# Follow-up Verification







## **Field Activities**

#### Monitoring activities

- Trail cameras
- Ground surveys
- Trapping
- Helicopter captures
- Mortality investigations

#### Not investigating

Den & rendezvous sites

#### **Conflict activities**

- Hazing
- Range riders
- Trapping for removal
- Helicopter for removal

## Coordination

#### **Monitoring activities**

- Investigating wolf sightings
- Trapping
- Helicopter captures
- Summary report data
- Wolf mortalities
- Outreach
- Known den sites
- Collar data

#### **Conflict activities**

- Depredation response
- Preventative tools
- Lethal control
- Outreach

# Wolf Monitoring & Management Discussion

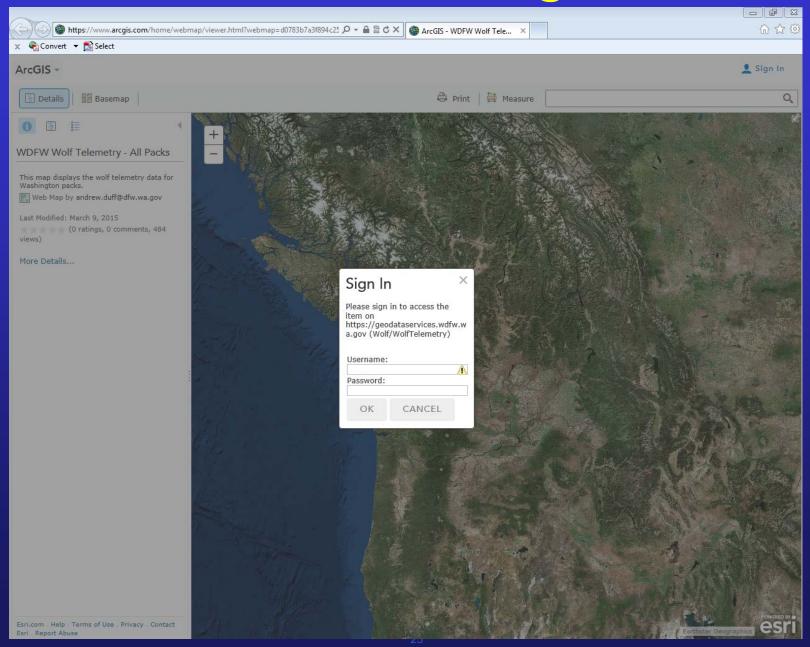
# **Data Sharing Coordination**

# **Forest Practice Applications**

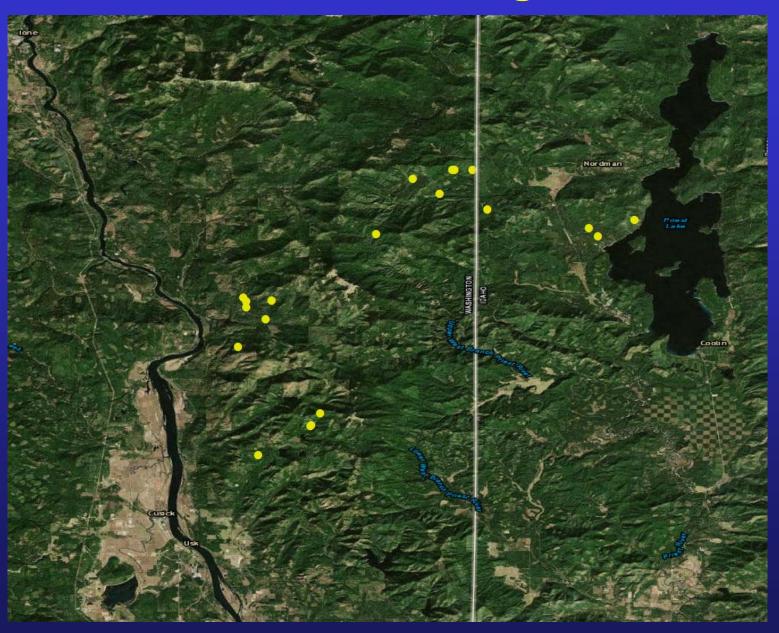
WAC 222-16-080 Critical habitats of (state) threatened and endangered species

- (1) Critical habitats of (state) threatened or endangered species and specific forest practices designated as Class IV-Special are as follows:
  - (a) Gray wolf (Canis lupus) Harvesting, road construction, or site preparation within 1 mile of a known active den site, documented by the department of fish and wildlife, between the dates of March 15 and July 30 or 0.25 mile from the den site at other times of the year.

## **Data Sharing**



# **Data Sharing**



# Wolf – Livestock Conflict Management

Update March 25, 2015

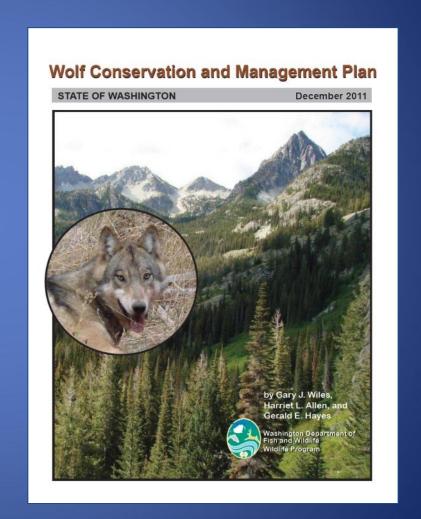
**Interagency Wolf Committee** 



Stephanie Simek | Wildlife Conflict Section

### **Wolf Plan Goals**

- Restore self-sustaining wolf populations
- Manage wolf-livestock conflicts
- Maintain healthy prey base
- Develop public understanding and promote coexistence

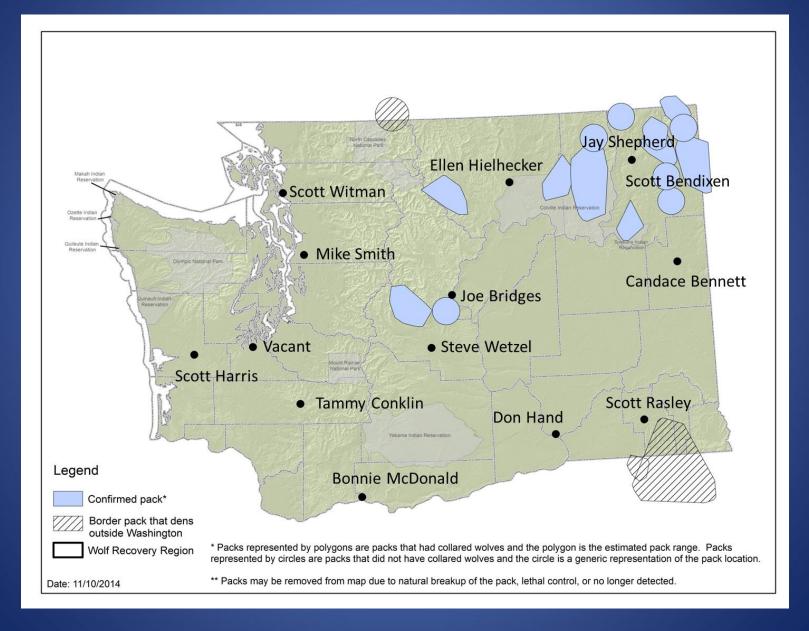


# Strategies to Reduce and Address Livestock Conflicts

- Assistance and partnerships
- Proactive prevention measures and compensation
- Outreach
- Research
- Lethal action



## Wildlife Conflict Staff



## **Assistance and partnerships**

- Working with Producers
  - Meetings
  - One-on-one visits
  - Information
- Partnerships
  - Wildlife Services
    - Response
  - Others
    - Federal, state, tribal, county, nonprofit

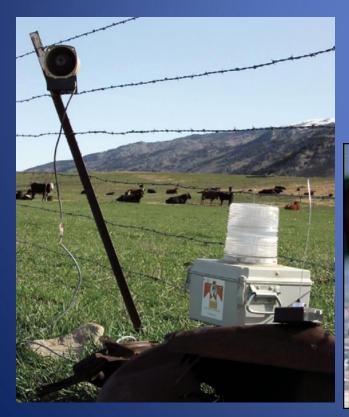




## **Proactive Prevention**

#### Proactive Tools:

 Fencing, fladry, range riders, collar data sharing, sanitation, noise boxes and other forms of hazing (i.e. lights)





### **Proactive Prevention**

- Damage Prevention Cooperative Agreements
  - Proactive prevention method
    - Sanitation and range riding
    - Outlines cost-sharing and compensation
    - 37 agreements in 2014

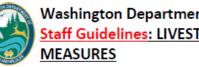




## **Proactive Prevention**

#### Checklist of non-lethal tools

- Remove livestock carcasses
- Remove sick/injured livestock
- Secure boneyards where applicable
- Calf/lamb away from wolves
- Haze wolves if encountered



#### Washington Department of Fish and Wildlife Staff Guidelines: LIVESTOCK-WOLF MITIGATION

This checklist contains examples of proactive measures that are recommended for use by livestock operators to help avoid or reduce conflicts between livestock and wolves when practical and applicable. Identified within the checklist are measures that can be implemented to meet the requirements to enact non-lethal measures provided by state law (chapter 77) and WDFW regulations (WAC 232-36). The measures identified as essential are the minimum baseline measures that should be implemented if feasible prior to consideration for compensation or lethal management options. Identification of such measures through this checklist does not guarantee either compensation claims or that requests for lethal control measures will be granted. Effective implementation at the time of the conflict must be verified by WDFW.

SA	NITATION	Compensation or Control Actions
	Remove or manage livestock carcasses from lambing or calving areas and from cooperator's lands when they are discovered (includes burying, burning, or composting consistent with state law and county or city ordinances).	Essential action
	Install predator-proof fencing around a bone yard.	Essential action where applicable
	In areas where available, contact WDFW when livestock carcasses are discovered so that they can be removed or protected from wolves.	Essential action where applicable
	Rationale:	
SIC	CK AND INJURED LIVESTOCK	Compensation or Control Actions
	Remove or treat non-ambulatory (sick or injured) livestock from unsafe pastures in areas where wolves are present (when feasible).	Essential action
	Rationale:	

## **Proactive Prevention**

- Contracted Range Riders
  - NE and central WA
- Carcass composting sites
  - Creating and improving compost sites
  - Fully operational at Sherman Creek WMA
  - Other locations in NE, North central, and central WA





### Outreach

- Meetings and Trainings
  - Public, Conservation Districts, Non-government interest groups, Wolf Advisory Group, Fish and Wildlife Commission
- Online and Printed resources
  - WDFW web page, weekly staff reports, webinar, sighting reports, wolf conservation and management plan, WDFW News releases and brochures, hunting regulations pamphlet, magnet
- Wolf Advisory Group members and other collaborators
- Contracts outreach and research partners

### Information and reporting

- **1-877-933-9847**
- **911**
- Online reporting
- Pamphlets
- Outreach printed materials



- · Do not touch anything
- · Keep all people and animals from the area
- · Place a tarp over the carcass.
- · Take photos of the scene if a camera is a

A Washington Guide to Addressing

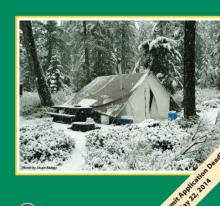
Ranching and farming are a vital part of the state's economy, and the lands that foster this industry wide critical habitat for a wide variety of

**Wolf-Livestock Conflicts** 

ent of Fish and r protecting mitted to o reduce olves.

ock producers wolves. roducers ovide restock to wolf

owners and eporting 4-7 at 1-877numbers are





Olympia WA 98501

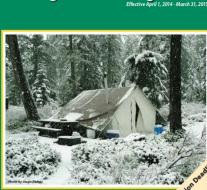
360-902-2200 Get Directions

Mailing Address

600 Capitol Way N

Olympia, WA 98501-1091

Phil Anderson



Washington's 2014 Big Game

**Hunting Seasons & Regulations** 



# **Wolf Advisory Group**

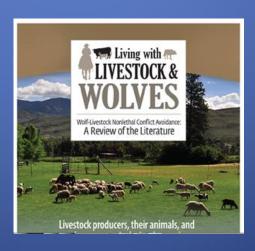
- 18 Member group appointed by Director
- Mission: Allow a diverse group of stakeholders to advise WDFW in implementation of the Wolf Conservation and Management Plan

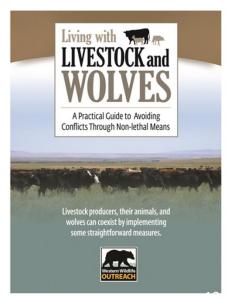
Sierra Club	Defenders of Wildlife	Kettle Range Conservation Group	Cattle Producers of Washington	Stevens County Commissioner	Washington Farm Bureau
Washingtonians for Wildlife Conservation	Hiker and Photographer	Washington State Cattlemen's Association	Wolf Haven International	and part-time	
Washington State Sheep Producers	Mule Deer Foundation	Humane Society of the United States	Hunters Heritage Council	Hunter	Conservation Northwest

### Western Wildlife Outreach

- Develop a wolf-livestock conflict avoidance outreach program.
  - Science-based information on conflict avoidance measures
  - Wolf-livestock conflict avoidance practices
  - Multi-media approach: video, slide presentation, and a manual comprised of fact sheets
  - Collaborative effort with WSU Extension







### Scientific Research

- Washington State University Large Carnivore Conservation Lab
  - Assess wolf-livestock interactions
  - Assessing preventative tools
- University of Washington
  - Human-dimensions
  - Developing a wolf economy for Washington
- WDFW Studies
  - White-tailed deer
  - Moose

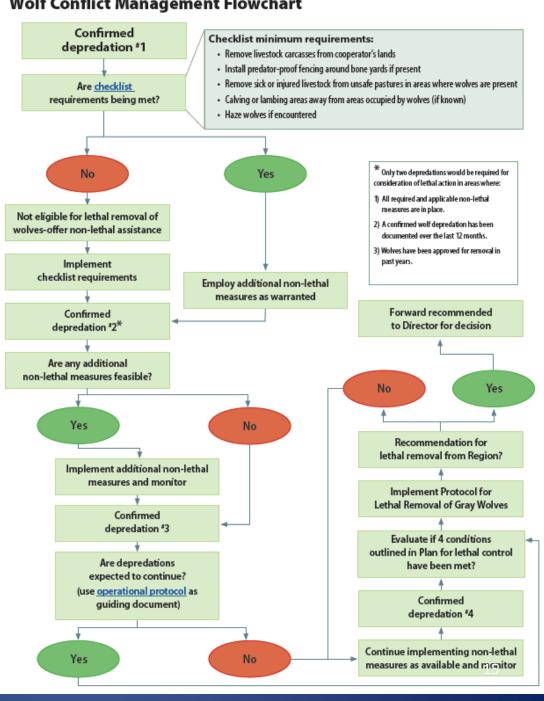


# Flowchart for consideration of lethal control

#### Foundation

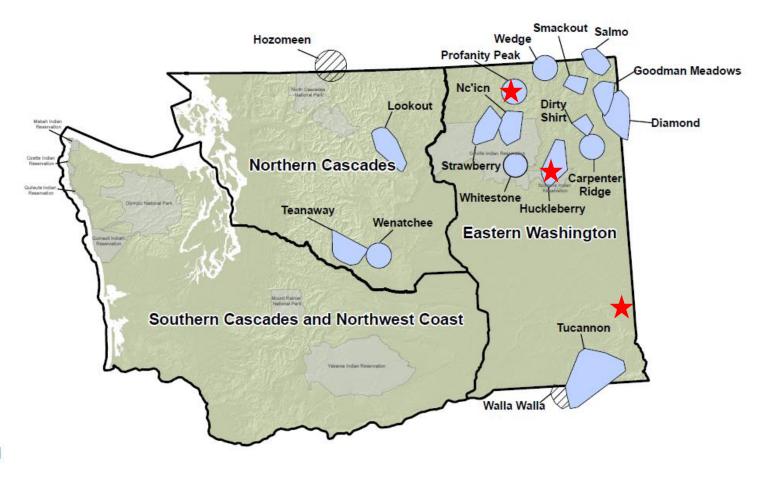
- ✓ RCWs & WACs
- ✓ Wolf Plan
- ✓ Wolf Advisory Group
- ✓ Preventative Measures Checklist
- ✓ Lethal Removal Protocol

#### Wolf Conflict Management Flowchart



# Wolf-livestock Depredations

#### Packs Depredating on Livestock in 2014



#### Legend



Border pack that dens outside Washington

Wolf Recovery Region

\*\* Packs may be removed from map due to natural breakup of the pack, lethal control, or no longer detected.

Date: 3/5/2015

<sup>\*</sup> Packs represented by polygons are packs that had collared wolves and the polygon is the estimated pack range. Packs represented by circles are packs that did not have collared wolves and the circle is a generic representation of the pack location.

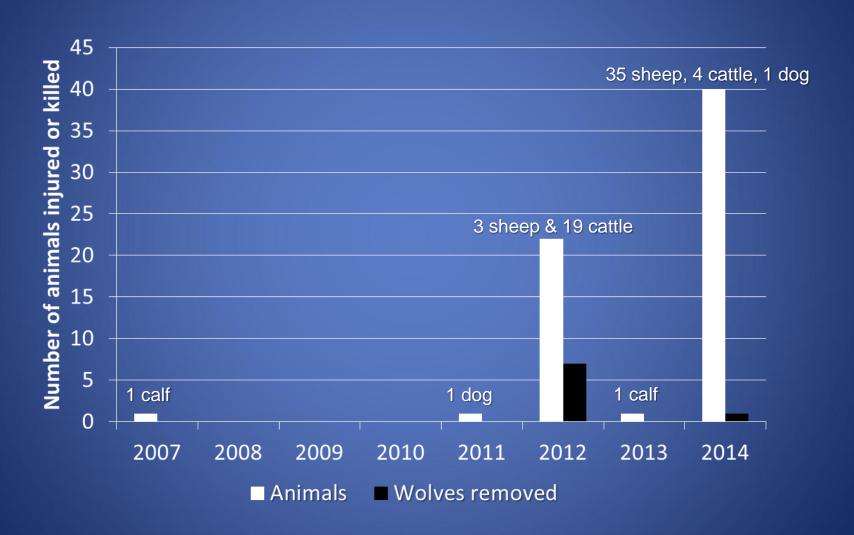
# **Wolf-livestock Depredations**

- 32\* depredation investigations
  - 7 were caused by wolf (sheep, cattle, dogs)
  - 7 were other wild carnivores (cougar and coyote)
  - 1 was unknown predator
  - 12 were unknown/undetermined cause (e.g. natural death)
  - 5 other causes:
    - Ravens/eagles (n=1)
    - Structural (n=4)

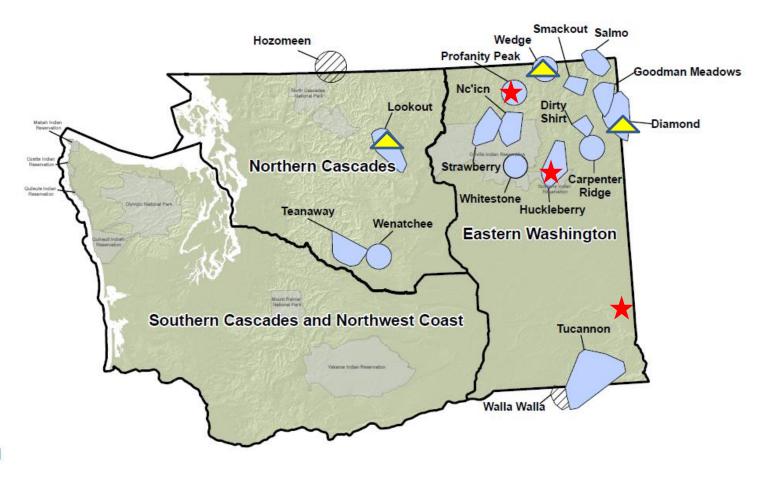
\*Individual reporting parties; some reporting parties may have multiple events.



### Wolf Depredations in Washington



#### Packs Depredating on Livestock in 2014



#### Legend



Border pack that dens outside Washington

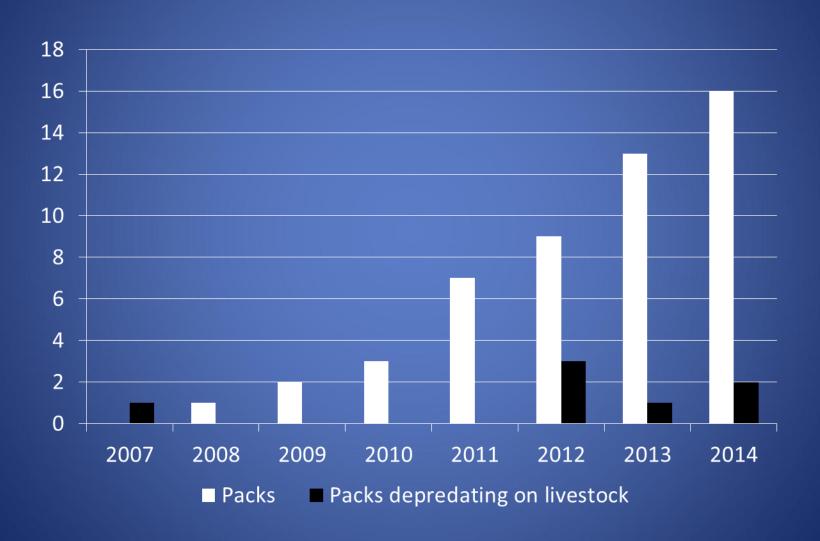
Wolf Recovery Region

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Date: 3/5/2015

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### **Packs Depredating on Livestock**



# Washington Wolf Population Summary

	Min	Known		Growth	Known Wolf	Depredating packs
Year	count	No. Packs	SBP	Rate	Mortality	(%)
2008	10	1	1		0	0%
2009	12	2	2	20%	0	0%
2010	19	3	1	58%	2	0%
2011	35	7	5	84%	0	0%
2012	51	9	5	46%	9	33%
2013	52	13	5	2%	5	8%
2014	68	16	5	31%	10	13%
Ave				38%		12%

Northern Rocky Mountain DPS estimated 20% of packs have conflicts with livestock

#### **New Practices**

- Develop local deterrence plans
  - Comprised of producers within the vicinity of a known wolf pack
  - Science-based information of conflict avoidance measures
  - Collectively determine wolf-livestock conflict avoidance

practices





Washington Department of Fish and Wildlife Wolf Conflict Deterrence Plan

Pack(s): (DRAFT) Diamond Peak and Goodman Meadows

Author(s): Jay Shepherd, Wildlife Conflict Specialist, Washington Department of Fish and

#### Background

Area Description: Although the home range is relatively unknown for the Goodman meadows pack in compari to the long-monitored Diamond pack. the area inhabited by both packs is generally the relatively gentle foothills of the Selkirk Mountain range as it descends to the Pend Oreille River Valley or the Priest River Drainage along the border and within Idaho. Land ownership is small private ownerships along the Pend Oreille River Valley, extensively Colville National Forest in the northeastern and checkerboard Colville National Forest /industrial timber ownership in the southeastern area within the Diamond and Goodman Meadows wolf pack home range Elevation ranges from 2000 to 7000



feet. Prey species include both white-tailed and mule deer, a relatively large elk population for

Northeastern Washington, and a relatively robust moose population. Beaver and snow shoe hare Past Wolf Activity: Diamond pack members were first photographed by WDFW in the LeClerc Creek drainage in 2007. A male, possibly the alpha male, was trapped and radio-collared in

2009. Successful breeding is known to have occurred in the area in various years from 2009. 2013. The upper known pack size has varied from 11-13 animals

ented and radio-collared in ts and 3 pups were Pend Oreille County resident t 3 pups born in 2013 magement 2013 Annual 014. Due to mortality, legal of wolves and working radio ed animal in each nack thought to be further south bdenite Peak south to Middle ta is limited at this point. The er Hill and the southern end of

zing allotment in the vicinity erc allotment occurs within 413 acres. The allotment e end of the grazing season Bunchgrass Meadows pasture itely 15 July. Cattle also sk. Washington and north of

n slight on small private creek drainages outside of ty of these ownerships. On otment), wolf depredations on isistent over several years of V and the USFS allotment

#### ntact and working with areas since 2010. WDFW has yrotechnics have been used by pack area and in the Goodma hese years. WDFW personne ts and personnel who are the coordination effort with

Meadows Pack areas have as attended USFS spring n contact with Washington le interactions within both ing allotment permit holder in producers from Sullivan Lake

# **2015 Strategies**

- Continue one-on-one with livestock producers.
- Expand efforts to engage and work with local governments.
- Develop Local Conflict Deterrence Plans
- Expand outreach and research projects.
- Implement conflict collaboration.

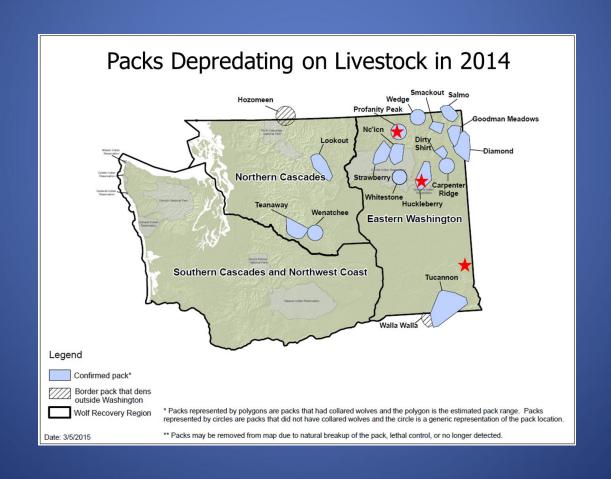




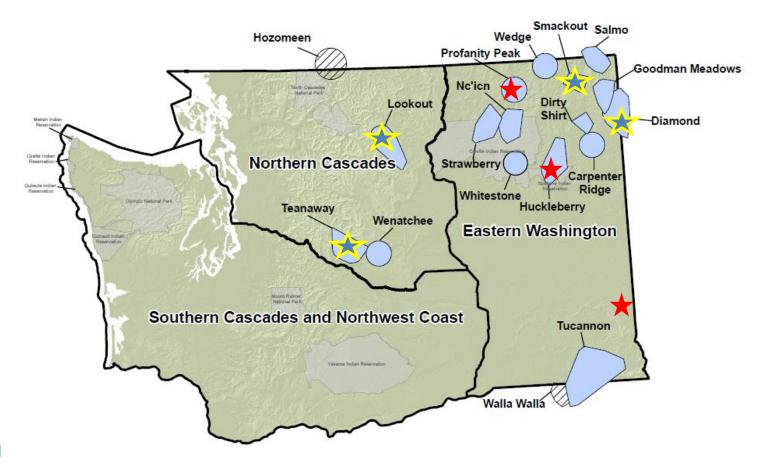
# **Coordination on Grazing**

# Grazing

- Anticipate conflict areas
  - Areas with documented history



#### Packs Depredating on Livestock in 2014



#### Legend



Border pack that dens outside Washington

Wolf Recovery Region

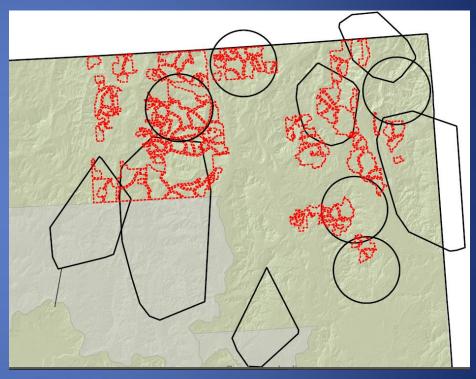
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Date: 3/5/2015

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## Grazing

- Identify allotments and producers potentially impacted
  - Work with land managers to understand
    - Allotments
    - Duration of leases
    - Current permit conditions
  - Contact producers and engage them



Example of grazing allotments in NE WA

# Grazing

- Develop non-lethal best management practices (BMPs)
  - Extend collaboration with public and private land managers
  - Incorporate BMPs into grazing plans and permits
  - Other opportunities?





#### **Prevention**

#### Example BMPs used for Cattle:

- Avoid grazing livestock near known wolf den site or rendezvous site
- Use preventative measures where feasible
- Respond to interactions...don't let the problem escalate
- Use multiple pastures, adjust allotments, timing and/or boundaries of allotment if feasible
- Understand that wolf movements can change over time







#### **Prevention**

#### Example BMPs Sheep Grazing/Open Range

- Use at least 1 herder (ideally two when possible) with herding dogs.
  - 3 guard dogs for every 1,000 head (number of herders and dogs may vary depending on landscape conditions).
  - Critical times for human presence are during dawn and dusk periods.
  - Utilize human presence at night when wolf activity is suspected in the grazing area.
- Daily gathering of sheep for night penning (when penning is logistically feasible).
  - Night penning preferably on landing areas or closed roads, at higher elevation areas, and not near likely travel corridors for wolves.
- Avoid grazing close to rendezvous sites, denning sites, and core wolf use areas (if known).

#### **Prevention**

# Example BMPs Sheep Grazing/Open Range (continued):

- Removal of injured or sick sheep from free range grazing of the allotment.
- Sanitation within the grazing area.
  - Removal of all sheep carcasses is the first priority.
  - If carcass removal is not possible, then implement any one or a combination of the following: treatment of carcasses with lime, the use of fladry, cover with tarp or plastic to deter scavenging and promote decomposition.
- Use of at least one additional scare or avoidance device.
  - Preferred options include: Fox Lights or RAG boxes around night bedding or penning area, bio fence, and use of noise makers to haze wolves if encountered.

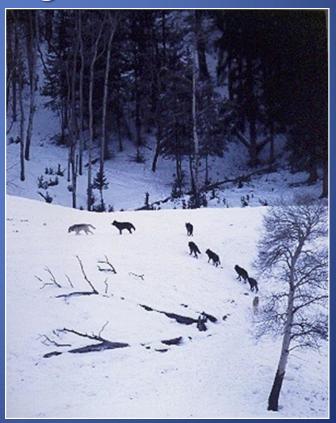
### Discussion

Discuss current activities on lands managed by others

Discuss approach to developing and

implementing BMPs

Other thoughts, ideas?



# Coordination Strategy with USFWS/WDFW/WS

# **Depredation Coordination**

- Coordination strategy
  - USFWS-WDFW-WS for areas under federal listing
  - Areas under state listing
- Lethal control and relocation
- Landownership
  - Response action location
  - Release sites for relocation (if necessary)





#### **Discussion**

 Discuss current activities on lands managed members of Committee

Discuss approach to developing and implementing

coordination strategies

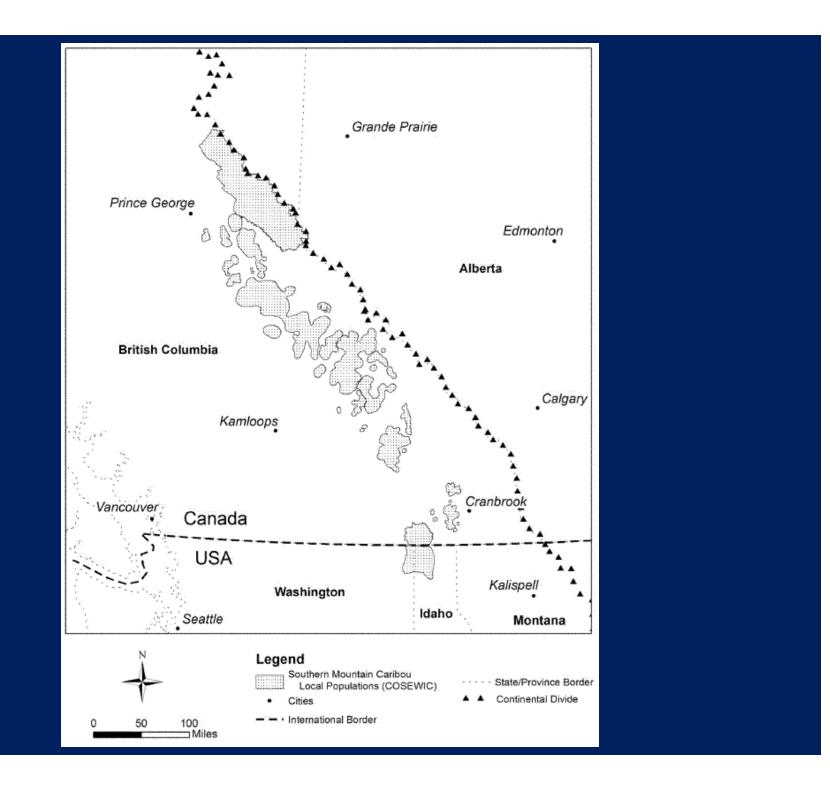
Other thoughts, ideas?

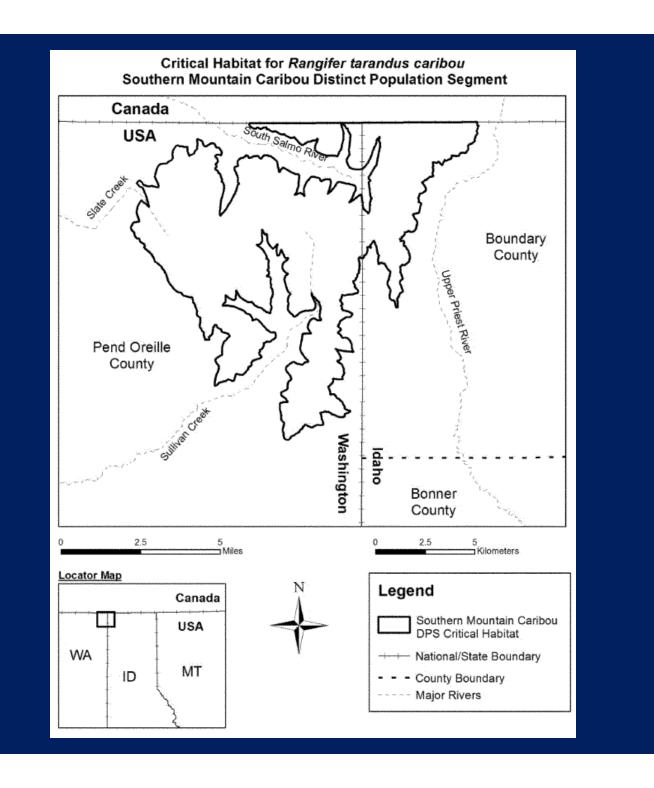


# Next Steps and Additional Discussion

# **Mountain Caribou**







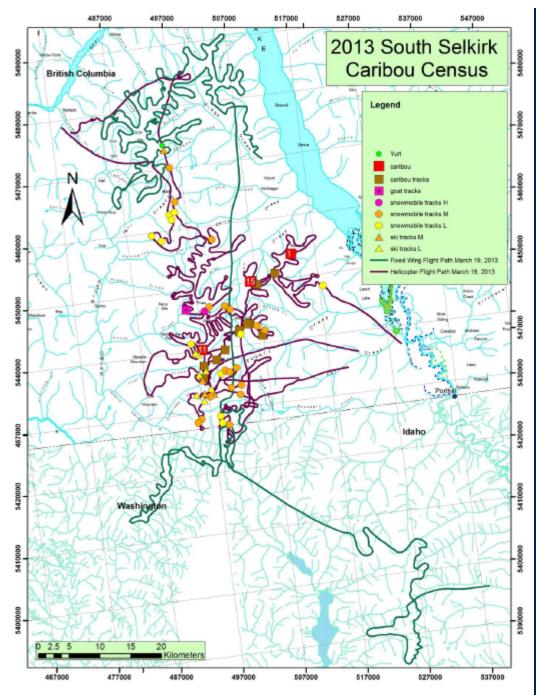


Figure 1. Flight lines and caribou locations from the 2013 census. Group sizes are noted for each location. Ski and snowmobile tracks were recorded for the helicopter flight only.

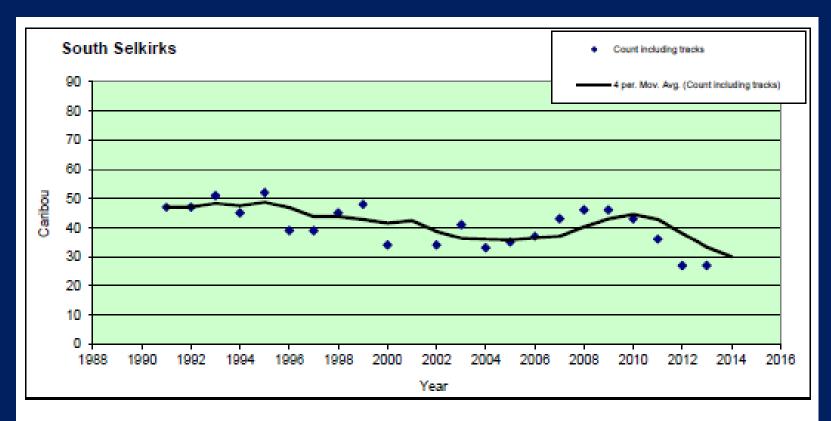


Figure 2. Population trend since 1991 for the South Selkirk caribou population. The trend line illustrates the mean of the previous 4 points.

