

Game Management Units 9 and 10

OVERVIEW

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Units 9 and 10

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King Salmon Area Office Staff

- Dave Crowley, Area Biologist
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Unit 9



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- Area: 34,000 mi²
- Length: 600 miles
- Population: 4,000
- Villages: 20
- Active volcanoes: 13



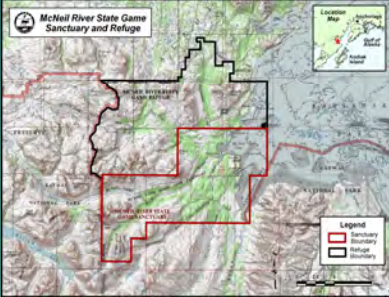
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Unit 9

7 State Special Areas

- McNeil River SGR and SGS
- Izembek SGR

- Egegik CHA
- Pilot Point CHA
- Cinder River CHA
- Port Heiden CHA
- Port Moller CHA



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Unit 10

Aleutian Island Archipelago

Area:	1,600 mi ²
Length:	970 miles
Islands	70
Population:	4,500
Villages:	6
Active volcanoes:	3
Adak Island:	Caribou
Unimak Island:	Caribou, brown bear, wolf, furbearers



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Unit 9 Brown Bear

Population :	7,000 - 8,000
Status:	Stable
Harvest:	400–500 every other year
Issues:	Nuisance bears



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Proposals 28, 197, 206, 207, 208

6

Units 9 & 10 Brown bear abundance

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Population Abundance and Density Estimates: 1989 – 2009

Year(s)	GMU	Method*	Study area	Area km ²	Abundance estimate	Density /1000 km ²	Harvest rate (%)
1989	9E	CMR	Black Lake	1215	239	190	6.8
1990	9C	CMR	Katmai coast	901	496	551	0.1
1999-00	9B	DCDS	Lake Clark	6096	222	36.3	1.6
2002	9D	MRDS	9D	8648	1683	194.6	4.3
2002	10	MRDS	Unimak Island	2869	317	110.4	3.2
2003	9A	DCDS	9A	7380	703	150	3.9
2003	9A	DCDS	Lake Clark NP	3846	466	147	0.6
2004-05	9C	MRDS	9C	13848	1950	108	1.4
2004-05	9C	DCDS	Katmai NP	18150	1869	103	1.3
2004-05	9C	DCDS	Katmai Preserve	1254	125	99.7	
2009	9B	MRDS	Lake Iliamna	9189	492	56.5	4.8

*CMR: Capture mark recapture using collared bears

DCDS: Aerial double count, distance sampling

MRDS: Aerial mark recapture, distance sampling

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Brown bear composition

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Brown bear composition stream surveys: 1960s – Present

- o 15-20 sets of replicates on dozens of streams, some for decades
- o Comp. counts ongoing Units 9D & 10 (Unimak Island), resumed in 9E.
- o Indicate age/sex structure of the population
- o Repeated 3-5 times, multiple streams, within the same week
- o Late August, salmon must be present

Composition parameter

Single bears (%)

Maternal females (%)

Coy (%)

Older cubs (%)

Ave COY litter size

Older cub litter size

Bears observed

Average bear count

Bears per hour

surveys



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Unit 9 Moose

Population : 5,500

Status: Stable at low density

Harvest: 80 – 110 bulls per year

ANS: 100 – 140 moose per year

Issues: Unreported hunting

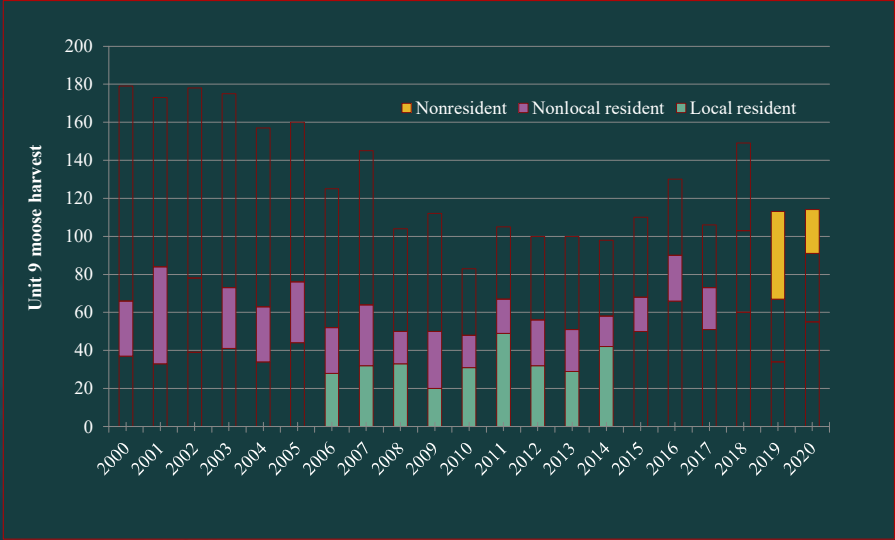


Proposal 204

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Unit 9 Moose

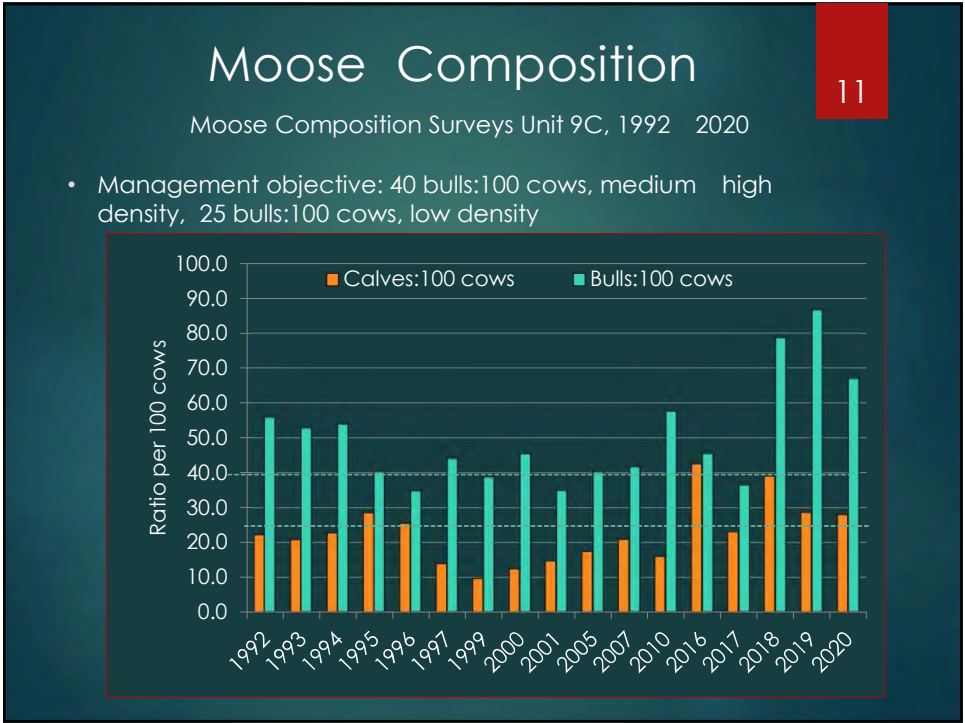
Unit 9 moose harvest



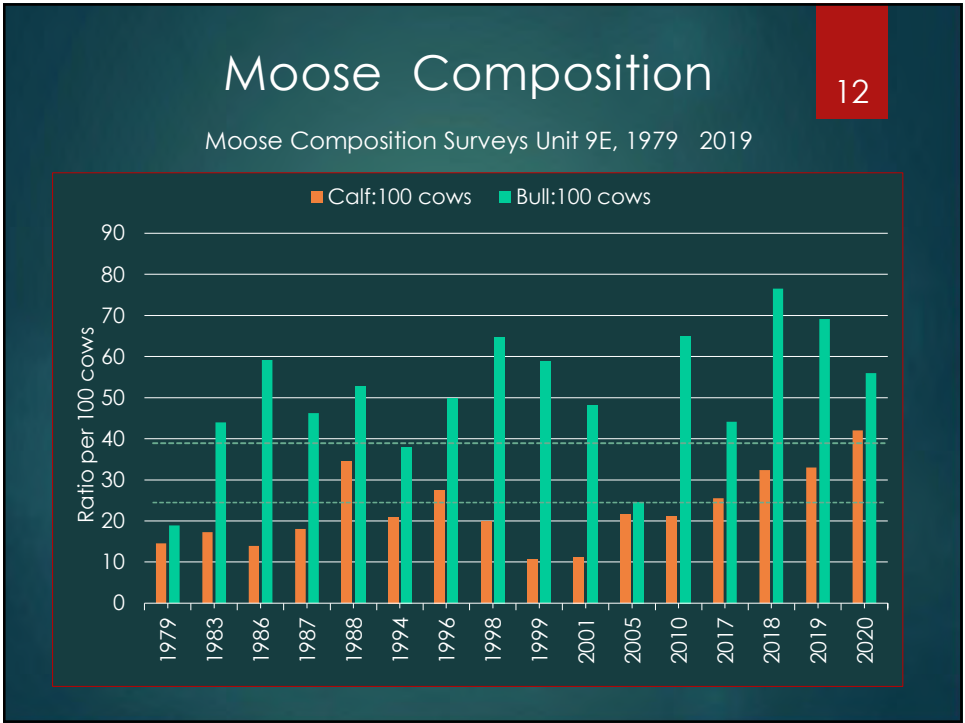
Year	Local resident	Nonlocal resident	Nonresident	Total
2000	35	30	115	180
2001	30	50	100	180
2002	30	50	100	180
2003	30	40	110	180
2004	30	30	120	180
2005	30	40	110	180
2006	25	25	100	150
2007	30	30	100	160
2008	30	20	100	150
2009	20	30	110	160
2010	30	15	100	145
2011	45	20	100	165
2012	30	25	100	155
2013	25	25	100	150
2014	40	20	100	160
2015	50	20	100	170
2016	65	25	100	190
2017	50	25	100	175
2018	60	50	100	210
2019	70	30	100	200
2020	55	40	100	195

Proposal 204

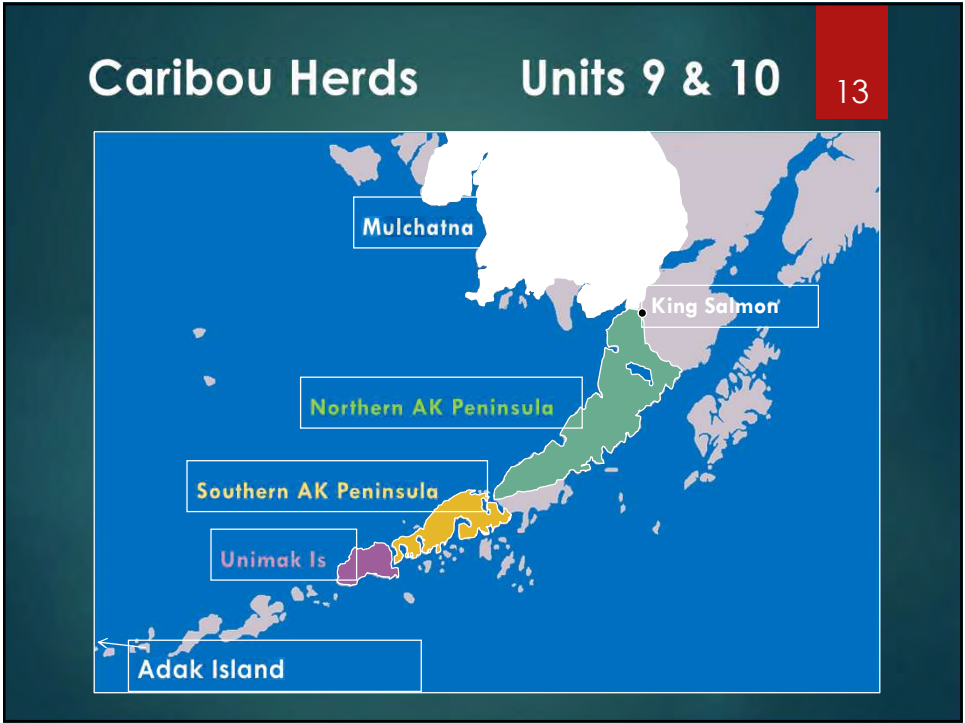
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Northern Alaska Peninsula Caribou Herd

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Population : 3,000 – 4,500

Status: Increasing (about 7.3%)

Pop. Objective: 12,000 – 15,000, 35 bulls:100 cows

Harvest: 80 – 100 caribou per year, Tier II

ANS: 1,200 – 1,900

Issues: None

Proposal 27

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Southern Alaska Peninsula Caribou Herd

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Population :	~3,600
Status:	Increasing
Pop. Objective:	3,000 – 4,000, 35 bulls:100 cows
Harvest:	60 – 90 caribou per year
ANS:	100 – 150 w/ UCH
IM:	2008 – 2010
Issues:	Low harvest level



Proposal 205

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Unimak Island Caribou Herd

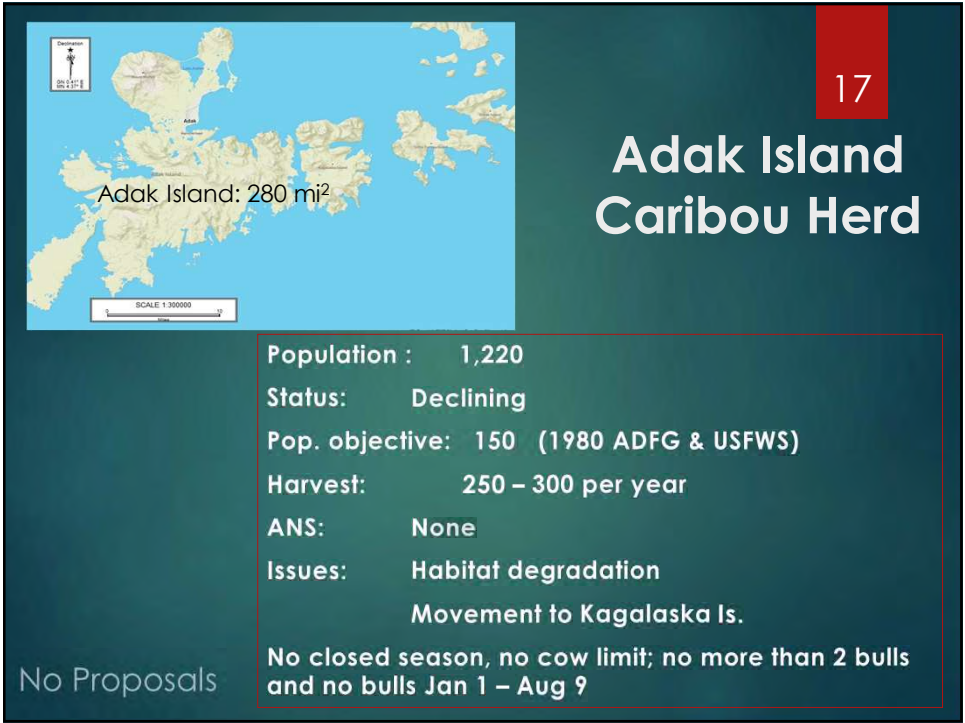
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Population :	420 – 460
Status:	Increasing
Recommended Objectives (2018 SMRP):	800 – 1,000 caribou, 35 bulls:100 cows
Harvest:	0 – 3 federal subsistence
ANS:	100 – 150 w/ SAP
Issues:	None

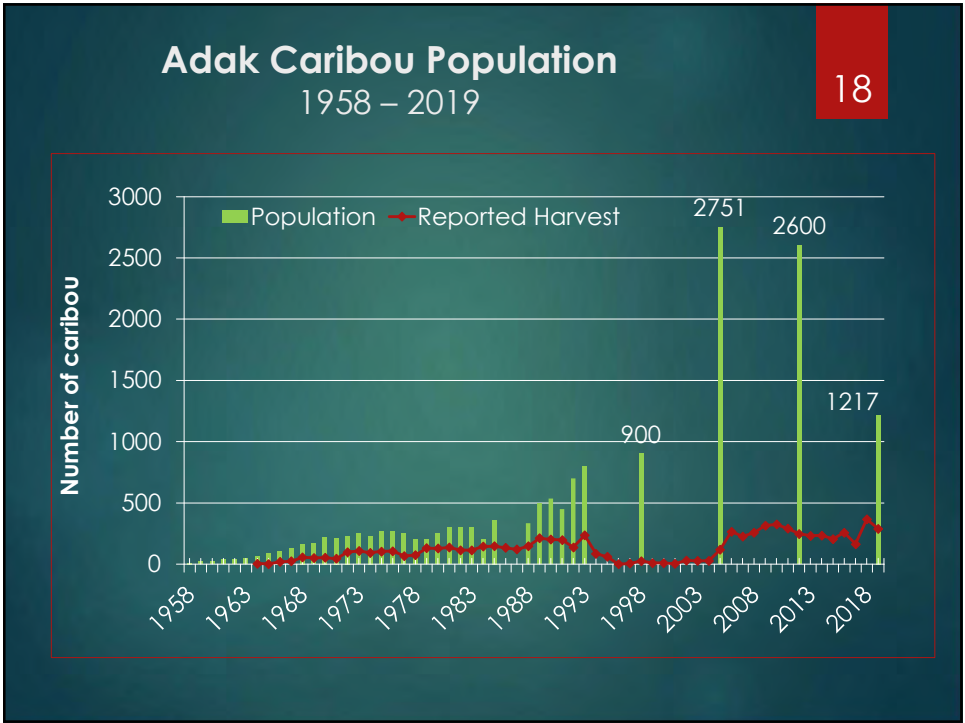


Proposals 25, 26, 230

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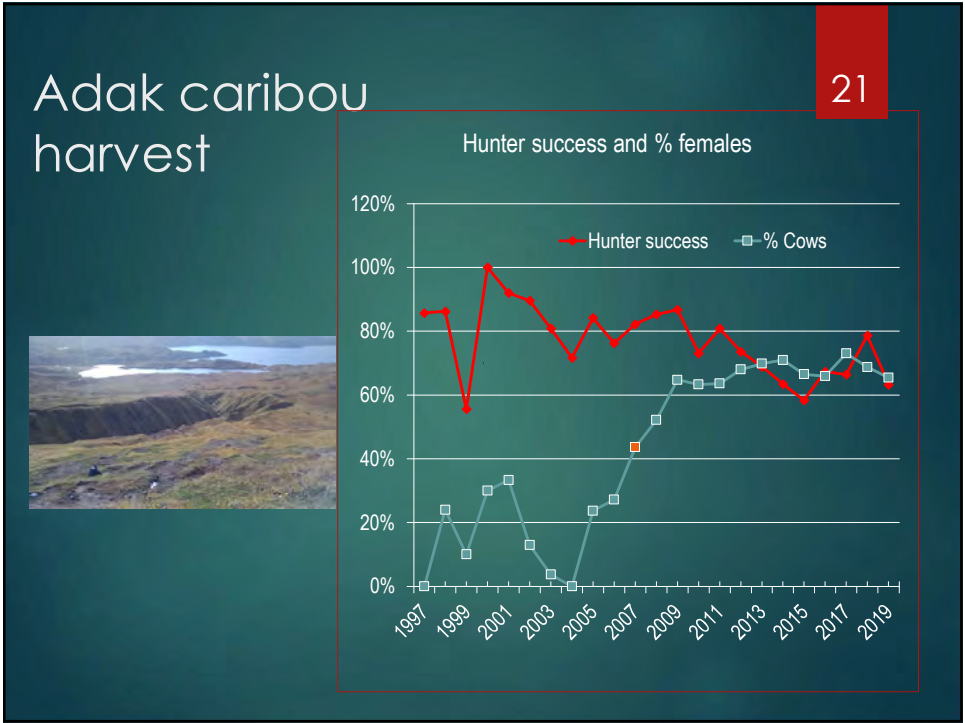
Adak Caribou history19

- o ADFG and USFWS initial population objective of 1,000 caribou in 1960's.
 - Objective lowered to 150 by 1980.
- o 5 AAC 92.255. Reduction of the ACH, 1994: the commissioner may dispose of the Adak caribou herd
- o 1994 USFWS and ADFG produced EA for caribou reduction
- o 2011: ACH declared by ADFG to be surplus and unnecessary
- o 2016: USFWS denied funding to remove invasive caribou from Kagalaska Island.

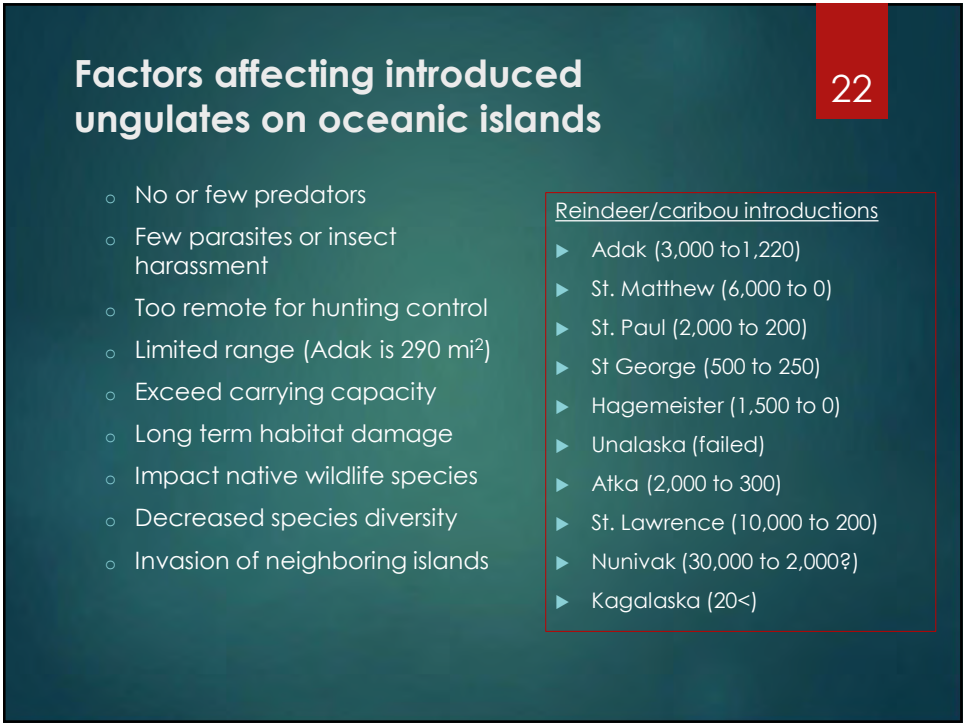
Adak caribou harvest20



Year	Reported harvest
1997	10
1998	25
1999	15
2000	10
2001	10
2002	30
2003	30
2004	30
2005	120
2006	265
2007	230
2008	255
2009	315
2010	325
2011	290
2012	245
2013	235
2014	235
2015	210
2016	260
2017	165
2018	370
2019	290



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Unit 9 Wolf

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Density: 5 – 10 / 1,000 km²

Status: Probably stable

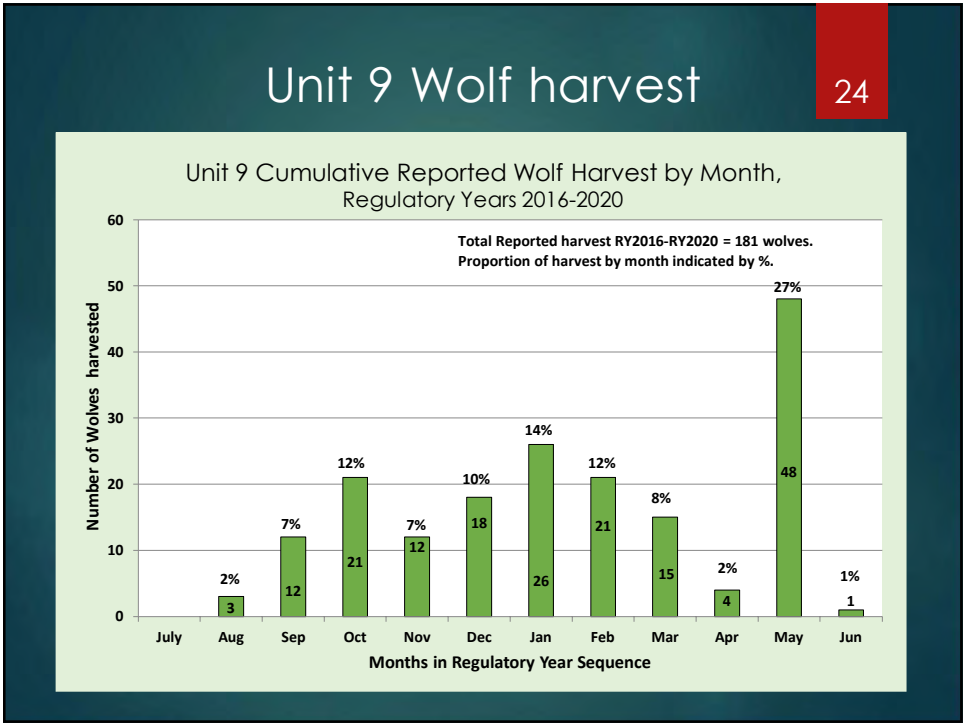
Harvest: 25 – 53 per year

Issues: Declining trappers

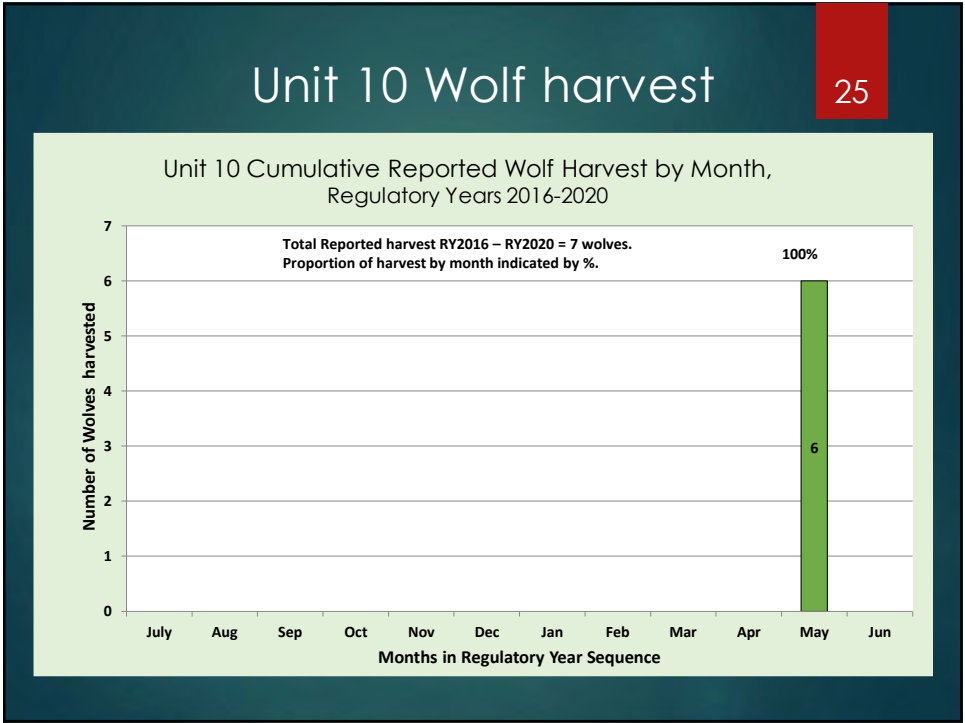


Proposal 30

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Furbearers

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Average Annual Harvest (2015 – 2020)

- 80 Beaver
- 17 Lynx
- 42 Otter
- 16 Wolverine



Proposals 8 (coyote), 10, 11, 29 (beaver)

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