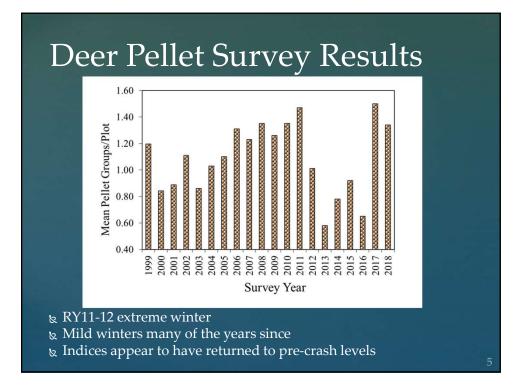


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M	loos	e							
	Unit 6D	Unit 6C	Unit 6B	Unit 6A West	Unit 6A East				
Permit Regulations Population	Harvest Ticket Any Bull Unknown	Drawing (25%Bull) and Federal (75% Bull 100%Cow) Any Bull or Cow (Federal) 677 (RY17)	Registration Any Bull 420 (RY17)	Registration (Res)/ Drawing (Nonres) Any Bull 269 (RY16)	Harvest Ticket Antler Restricted 200 (RY07)				
Objective	None	600-800	300-350	300-350	300-350				
Harvest	Average of 5	60 Bulls 35 Cows	Up to 28	Up to 20	Less than 20				
General Harvest Ticket Bate or Fid mang Marin Rivers Bind Borg General Harvest Component State or Fid mang Marin Rivers Bind Borg General Ticket Output Output Output Output Output Output Output Output Output Output									





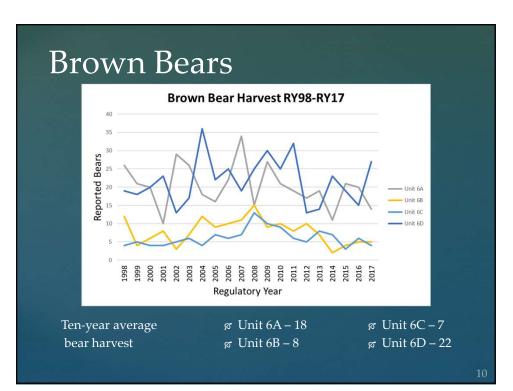
Brown Bears

- ø Units 6A, 6B, and 6C- one bear every regulatory year
- ø Unit 6D- one bear every 4 years
 - ষ Montague Island-Registration permit

& Methods:

- я Track and den surveys
- ø Monitoring harvest

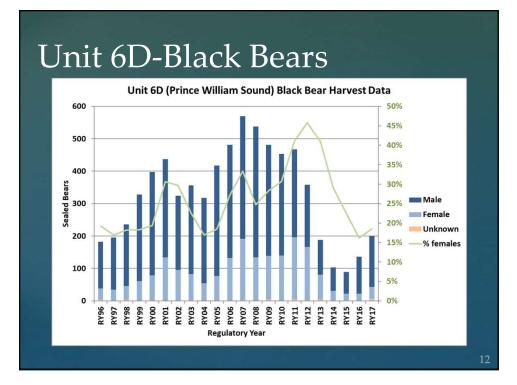


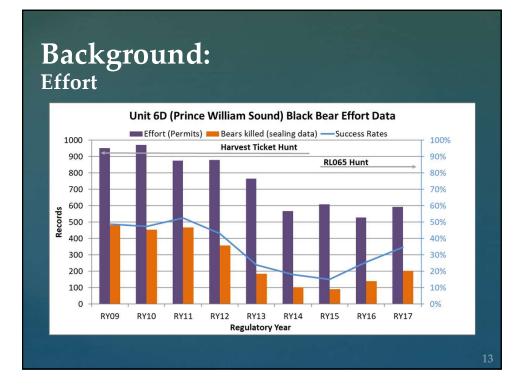


Black Bear

Population Information

- ${}_{\&}$ Without a population estimate, what are the red flags?
 - ∉ Harvest steadily declined
 - σ Harvest of females increased (over 40% for 3 years)
 - σ Success rates declined
 - ${\ensuremath{\mathnormal{\sigma}}}$ Widespread public concern from diverse parties





Background:

Potential causes of harvest changes

- - ø Bear abundance
 - ø Bear distribution
- & Effort changes
- & Overharvest
- ${}_{\&}$ Some combination of the above

Feasibility of ground captures for the assessment of home range, habitat use, and movements of black bears Ursus americanus in relation to hunting pressure in Prince William Sound, AK

Charlotte Westing Area Wildlife Biologist Alaska Department of Fish and Game Milo Burcham Wildlife Biologist Chugach National Forest



Study Objectives

- Ground-based capture feasibility
- Habitat selection during the hunting season, comparing two islands
- Home range use
- Relative harvest risk



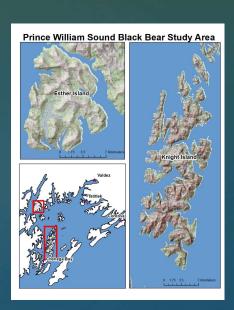
Study Area

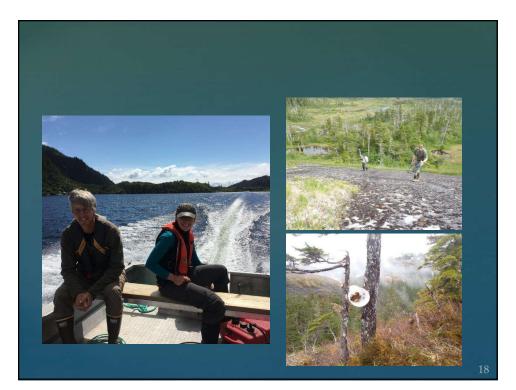
& Esther Island

ø 124 km²

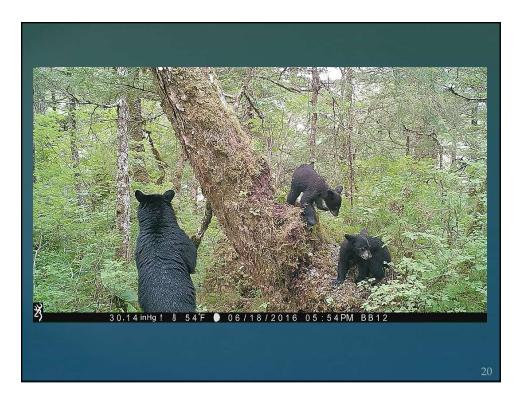
☞ High harvest density
(0.22 bears harvested per km² at peak)

- ø 272 km²
- ø Low harvest density (0.03-0.06 bears harvested per km² at peak)





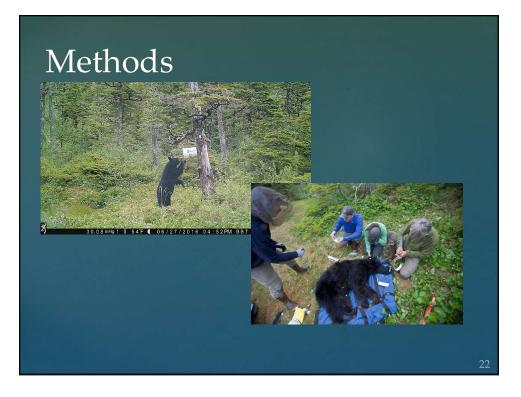




Trapping

M-15 bucket snare sets
Aldrich snare trail sets
Transmitters on all sets
Sets checked visually at least once a day





Collar details

- - ø Ancillary datatemperature, activity



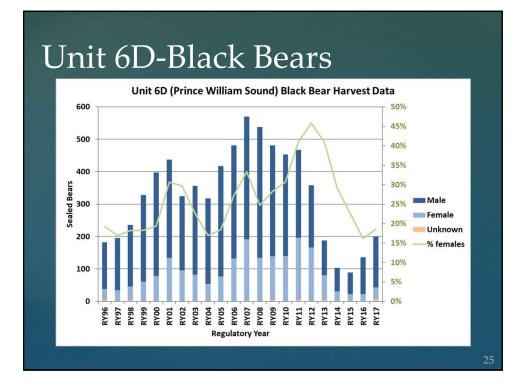
	Esther Island	Total		
Captures (unique bears)	48	48	96	
Collars deployed	32	21	53	
Collars lost (mortality)	8	1	9	
Collars lost (unknown)	3	1	4	
Active collars	21	19	40	

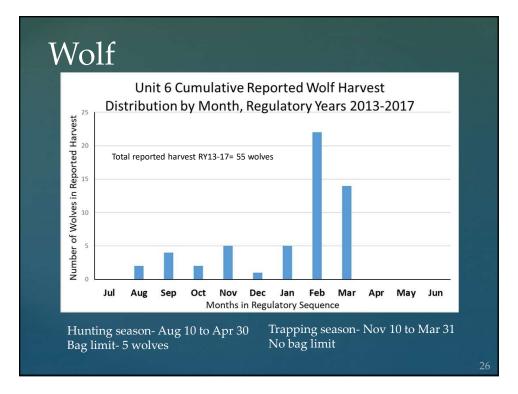
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Analysis- So far. . .

- k Examining collected data for differences in habitat use by:
 - ø Sex
 - ଟ୍ଟ Season
 - ø Winter severity
 - ø Year







Other species of interest

- & River Otters
- & Marten
- & Beaver
- & Wolverine
- & Lynx
- & Coyotes
- & Porcupines
- & Snowshoe Hares
- k Ptarmigan and grouse
- & Muskrats
- & Marmots
- & Weasels

- Dusky Canada Geese ADFG Waterfowl program involved in cooperative research and management programs
- Mink- USFWS predator control program in place on Naked Island to protect Pigeon Guillemot rookeries



27

Outreach

& Community presentations

- ø Research updates
- ø Newcomer's meeting
- ø Coast Guard Spouse's Association

& School outreach

- ø Hunter education
- ø Science Fair mentorship
- σ Applied science and statistics

& Bear awareness

- ø Public Service Announcements
- σ Cordova Times articles
- ø Electric fence loan program
- σ Fisherman contacts
- σ Classroom visits and presentations



