Selkirk and Cabinet-Yaak Grizzly Bear Monitoring
Wayne Kasworm, Thomas Radandt, Justin Teisberg, USFWS
Michael Proctor, Birchdale Ecological

- 2022 Recovery Plan Metrics, Females with young and Mortality
- Population trend
- 2023 Fieldwork Plans
Recovery plan demographic targets

- Average 6 females with cubs (FWC) for last 6 years
- Females with young occupy 18 of 22 CY BMUs or 7 of 10 US Selkirk BMUs or in last 6 years
- 4% Mortality limit based on last 3 years FWC and a minimum population estimate (female sublimit 30% of total)
- Demographic targets based on populations with gene flow (not isolated)
- There is no recovery plan target for a specific population size
- Based on the female with cub target the expected population about 90-100 bears
2022 Cabinet-Yaak
Females with cubs of the year (COY)

- Three unduplicated females with COY
- 3.3 females with cubs as 6-year average
  Recovery Goal = 6.0
- 16 of 22 BMUs occupied (Goal 18 of 22)
- Annual growth rate from radio collared bears = 1.8% (70% probability stable to increasing)
Cabinet-Yaak Human Caused Grizzly Bear Mortality

- 2017-22 = 9 (4M:5F) Human Caused (1.5 per year)
  3.2% total mortality (Recovery Goal ≤ 4%)
- 2017-22 = 5 Female Mortalities (0.8 per year)
  1.7% Female mortality (Recovery Goal ≤ 1.2%)
2022 Selkirk Females with cubs of the year (COY)

- Four unduplicated females with COY
- 3.7 females with cubs as 6-year average Recovery Goal = 6.0
- 9 of 10 BMUs occupied (Goal 7 of 10)
- Annual growth rate from radio collared bears = 2.6% (78% probability stable to increasing)
Selkirk Human Caused Grizzly Bear Mortality

- 2017-22 = 14 (9M:5F) Human Caused (2.7 per year) 5.3% total mortality (Recovery Goal ≤ 4%)
- 2017-22 = 5 Female Mortalities (0.8 per year) 1.6% Female mortality (Recovery Goal ≤ 1.2%)
2023 Field work Plans

• Four trap teams: Yaak, Cabinets, WA June-July, ID July-August, Bog –Boundary in ID
• Four DNA teams: Yaak, Cabinets, Priest Lake, West Cabinets/East Selkirks
CYE Genetic Sampling Goals

- Reproductive success
- Distribution of adult females
- Gene flow into the CYE
- Augmentation success
- Genetic health database
- Future trapping reconnaissance
- Not currently analyzed for a population estimate or trend because effort and area of sampling has varied. We report the number of bears identified and call it the “minimum”
- Known fate monitoring to determine trend and apply to the 2012 estimate for current estimate
Thank you. Questions???