Nevada Department of Wildlife
Predator Management Plan
Fiscal Year 2024

Summary on Plans and Reports

- Just reported on FY 2022
- Currently in FY 2023
- Presenting on FY 2024
- All available at website. Email pjackson@ndow.org for immediate request

NRS 502.253 (predator fee)

- ~$900,000 generated annually
- $14,000 admin support Dept. of Agriculture
- Predator plan projects
- Staff salary
- Reserve remains available for future years

NRS 502.253

1. Management of predatory wildlife
2. Research on lethal control techniques of predatory wildlife
3. Protection of sensitive species

NRS 502.253

- Mandates that 80% of revenues from most recent fiscal year from which we have complete accounting to be spent on lethal removal
- Includes monitoring of effects from lethal removal efforts

Budget Summary

- $911,013 revenues from FY 2022 (last year with complete accounting, still receiving revenue in FY 2023)
- $911,013 x 0.8 = $728,810 (80% mandate)
- $934,000 allocated to lethal removal in FY 2024 plan

Project Types and Monitoring

Project Type	**Monitoring**
1. Implementation	1. Standard Monitoring
2. Experimentation	2. Intermediate Monitoring
3. Experimental Management	3. Rigorous Monitoring

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Project Type: Implementation

- Where the rubber meets the road

Project Type: Experimental Management

- Involves management and experimentation

Project Type: Experimentation

- Experiments to increase understanding of predators and their management

Stacking Assumptions

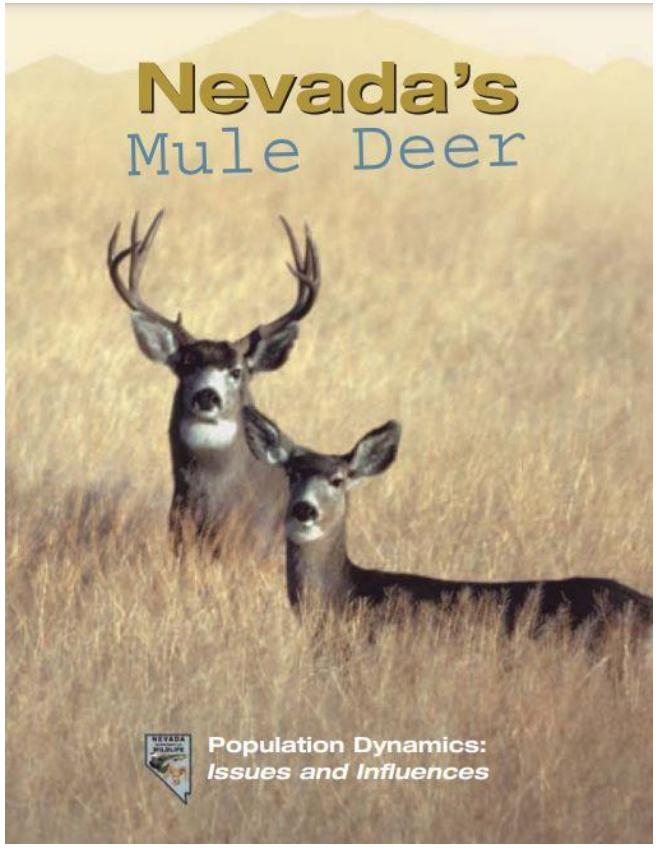
3 Questions

1. When did I come to this conclusion?
2. What did I base this conclusion off of?
3. What would change my conclusion?

Raven Management

- Drastic increase in raven population
- Responsible for the majority of sage-grouse nest failures
- Lethal removal does increase sage grouse nest success

Population Dynamics



SCAN ME

Projects Recommended for Continuation

Project 21: Greater Sage-Grouse Protection (Common Raven Removal)

Project Type: Implementation and Experimental Management

Project 21: Greater Sage-Grouse Protection (Common Raven Removal)

- Protect greater sage-grouse populations
- Lethally remove common ravens
- Determine what level of raven control is needed

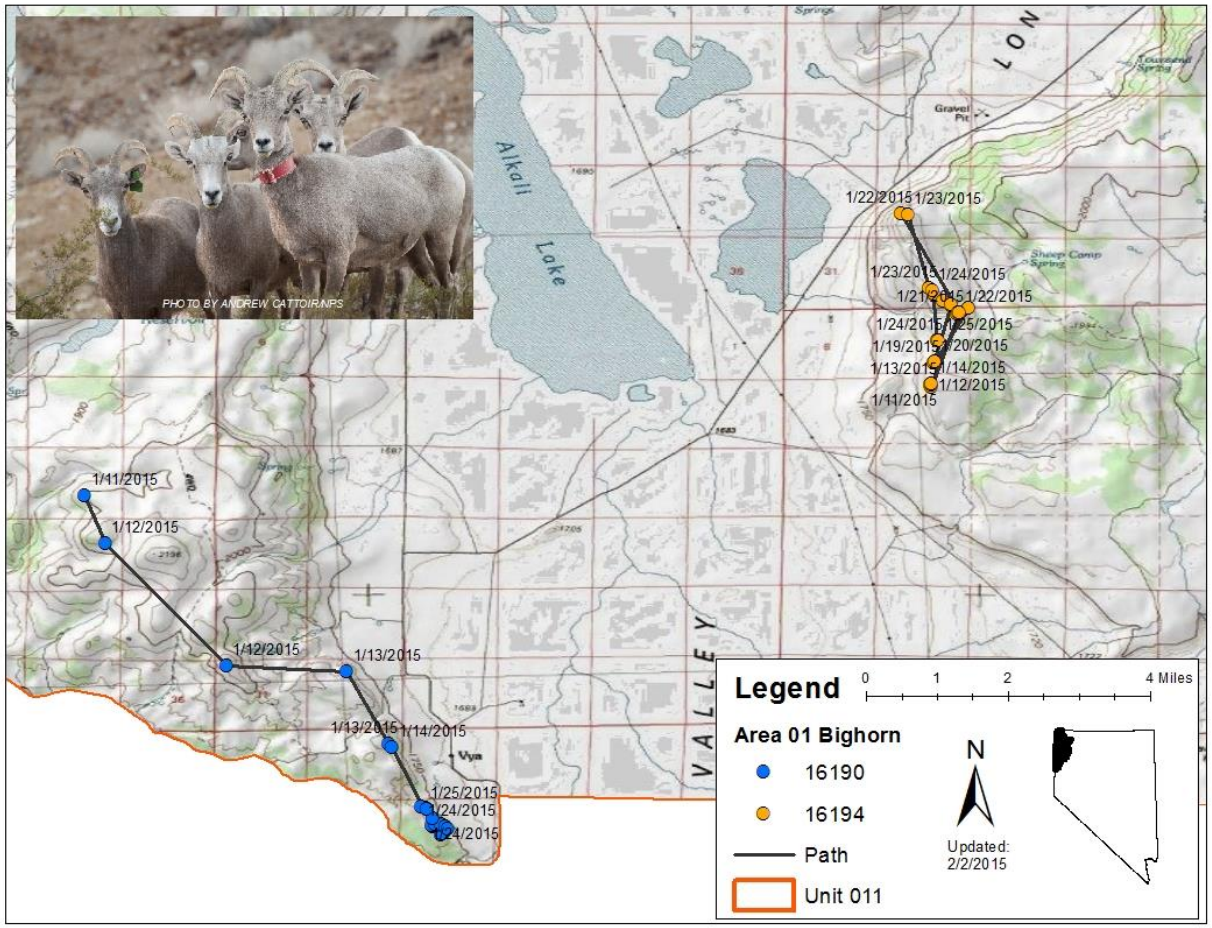
Project 21: Greater Sage-Grouse Protection (Common Raven Removal)

Budget:$175,000

- Wildlife Services administers corvicide (DRC-1339)
- Surveys and models to determine common raven densities across Nevada

Project 22-01: Mountain Lion Removal to Protect California Bighorn Sheep

Project Type: Implementation



Project 22-01: Mountain Lion Removal to Protect California Bighorn Sheep

Budget: $100,000

- Establish self-sustaining population of bighorn sheep, subset of population is currently collared
- Wildlife Services and private contractors are proactively removing lions entering area
- Wildlife Services or others may respond reactively with dogs after a sheep mortality

Population Dynamics

- Populations estimated at approximately 50 individuals in 011 and 013

Action	Bighorn Sheep Population
Monitor bighorn population, conduct removal on case by case basis	> 80
Remove lions that consume bighorn sheep*	60 - 80
Remove all lions in area	< 60

Project 22-074: Monitor Rocky Mountain Bighorn Sheep for Mountain Lion Predation

Project Type: Implementation and Experimental Management

Project 22-074: Monitor Rocky Mountain Bighorn Sheep for Mountain Lion Predation

Budget: $20,000

- Establish self-sustaining population of bighorn sheep
- Monitor bighorn sheep populations with GPS collars
- Remove mountain lions consuming bighorn sheep

Population Dynamics

- The population estimate is 35-40 individuals in area 074

Action	Bighorn Sheep Population
Monitor bighorn population, conduct removal on case by case basis	> 15
Remove lions that consume bighorn sheep*	10 - 15
Remove all lions in area	< 10

Project 37: Big Game Protection- Mountain Lions

Project Type: Implementation

Predator Removal Indices

Species	Annual Adult Survival Rates	Fall Young: Female Ratios	Spring Young: Female Ratios	Adult Female Annual Survival Rates
California Bighorn Sheep	< 90%	< 40:100	--	--
Rocky Mountain Bighorn Sheep	< 90%	< 40:100	--	--
Desert Bighorn Sheep	< 90%	< 30:100	--	--
Mule Deer	--	--	< 35:100	< 80%
Pronghorn	< 90%	< 40:100	--	--

Project 37: Big Game Protection- Mountain Lions

Budget: $100,000

- Addressing population limiting predation by mountain lions
- Work will be conducted by Wildlife Services, private houndsmen, and/or private trappers
- Problematic mountain lions will be identified through GPS collar locations, trail cameras, and kill sites

Project 38: Big Game Protection- Coyotes

Project Type: Implementation

Project 38: Big Game Protection-Coyotes

Budget: $100,000

- Addressing coyote predation that has a negative influence on game populations
- Removal of coyotes in pronghorn and deer winter range and fawning areas in certain situations
- Work will be conducted by Wildlife Services and private contractors

Project 40: Coyote and Mountain Lion Removal to Complement Multi-faceted Management in Eureka County

Project Type: Implementation

Project 40: Coyote and Mountain Lion Removal to Complement Multi-faceted Management in Eureka County

Budget: $150,000

- Coyote removal will complement previously conducted feral horse removal, habitat improvement, and past predator removal efforts

Project 41: Common Raven Management and Experimentation

Project Type: Experimentation

Project 41: Common Raven Experimentation

Budget: $300,000 (25% from $3 predator fee)

- Develop a protocol to estimate common raven populations
- Increase the understanding of common raven density and distribution
- Increase the understanding of how human subsidies affect common raven movements and space use

Project 42: Assessing Mountain Lion Harvest in Nevada

Project Type: Experimentation

Project 42: Assessing Mountain Lion Harvest in Nevada

Budget: $20,000 (25% from $3 predator fee)

- Refine existing model
- Develop R-Shiny tool
- Publish existing model

Project 43: Mesopredator removal to protect waterfowl, turkeys, and pheasants on Wildlife Management Areas

Project Type: Implementation

Project 43: Mesopredator removal to protect waterfowl, turkeys, and pheasants on Wildlife Management Areas

Budget: $50,000

- To occur on Overton and Mason Valley WMAs

- Coyotes, striped skunks, and raccoons will be lethally removed

Project 44: Lethal Removal and Monitoring of Mountain Lions in Area 24

Project Type: Experimental Management

Project 44: Lethal Removal and Monitoring of Mountain Lions in Areas 23 and 24

Budget: $125,000

- To occur primarily in areas 23 and 24
- Mountain lions in collar area will be captured and collared. Any collared lion killing bighorn sheep will be lethally removed
- Increase understanding of lion and horse interaction

Project 45: Passive Survey Estimate of Black Bears in Nevada

Project Type: Experimentation

Project 45: Passive Survey Estimate of Black Bears in Nevada

Budget: $20,000 (25% from $3 predator fee)

- To occur primarily in areas inhabited by black bears

Project 45: Passive Survey Estimate of Black Bears in Nevada

- Collaboration with Oxford and University of Montana
- Postdoctoral researcher from University of Montana
- Trail cameras main focus of field work

Project 46: Investigating Potential Limiting Factors Impacting Mule Deer in Northwest Nevada

Project Type: Experimentation

Project 46: Investigating Potential Limiting Factors Impacting Mule Deer in Northwest Nevada

Budget: $160,000 (25% from $3 predator fee)

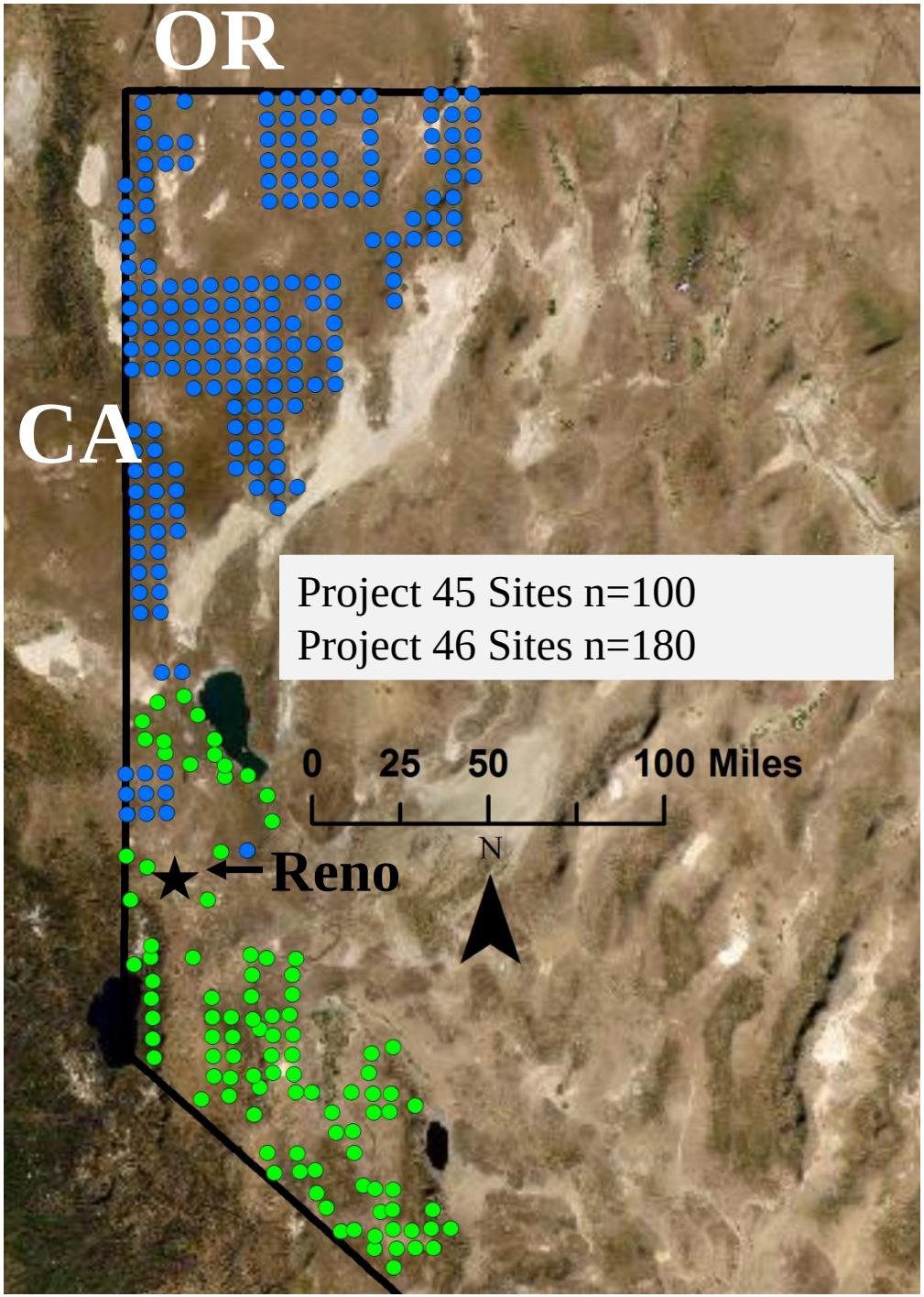
- To occur in northwest Nevada

Project 46: Investigating Potential Limiting Factors Impacting Mule Deer in Northwest Nevada

1. Accurately estimate mountain lion, feral horse, mule deer and/or pronghorn densities in specified areas
2. Increase understanding of how mountain lion, feral horse, mule deer and/or pronghorn densities changes throughout the course of a year

Project 46: Investigating Potential Limiting Factors Impacting Mule Deer in Northwest Nevada

- Collaboration with Oxford and University of Montana
- Series of trail camera grids throughout study area
- Year long monitoring
- Collar lions on Sheldon NWR


OR
CA
Project 45 Sites n=100
Project 46 Sites n=180
0 25 50 100 Miles
N
Reno

DAVIS

Project 47: Mule Deer Enhancement Program Mule Deer Protection and Assessment

Project Type: Implementation or Experimental Management

Project 46: Investigating Potential Limiting Factors Impacting Mule Deer in Northwest Nevada

Budget: $100,000

- Statewide

Project 46: Investigating Potential Limiting Factors Impacting Mule Deer in Northwest Nevada

1. Identify predation as a limiting factor for mule deer
2. Build model to direct predator control temporarily and spatially

Questions?