#### Predators, Prey, and Landscape Scale Changes Driving Populations

Oregon Fish and Wildlife Commission December 11, 2025





## Changing Predator Management



**Oregon's Carnivores** 

#### **Classifications**

Big Game Furbearer Unprotected Predatory



## Major Shifts & Actions





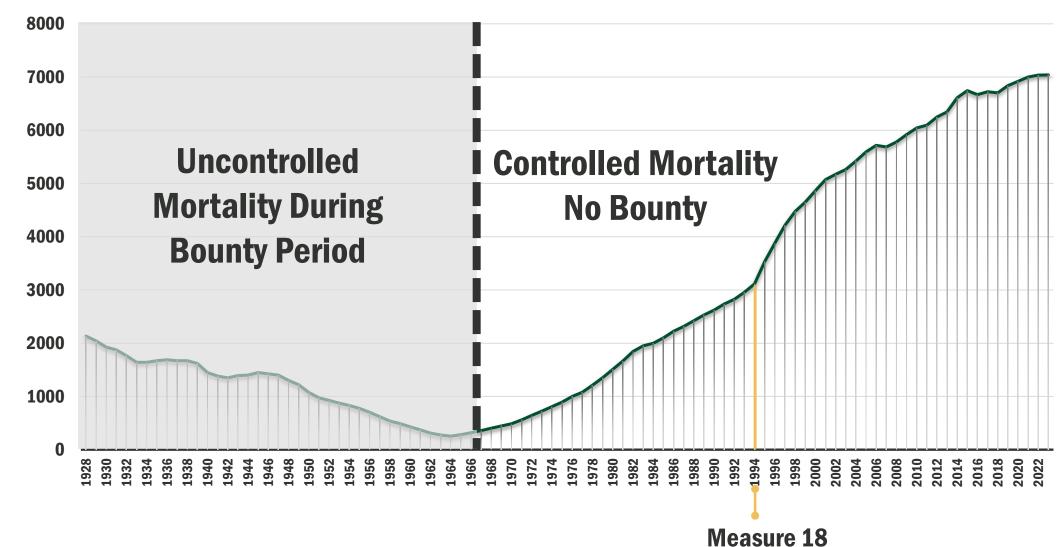
# Populations have generally increased since the 1970's





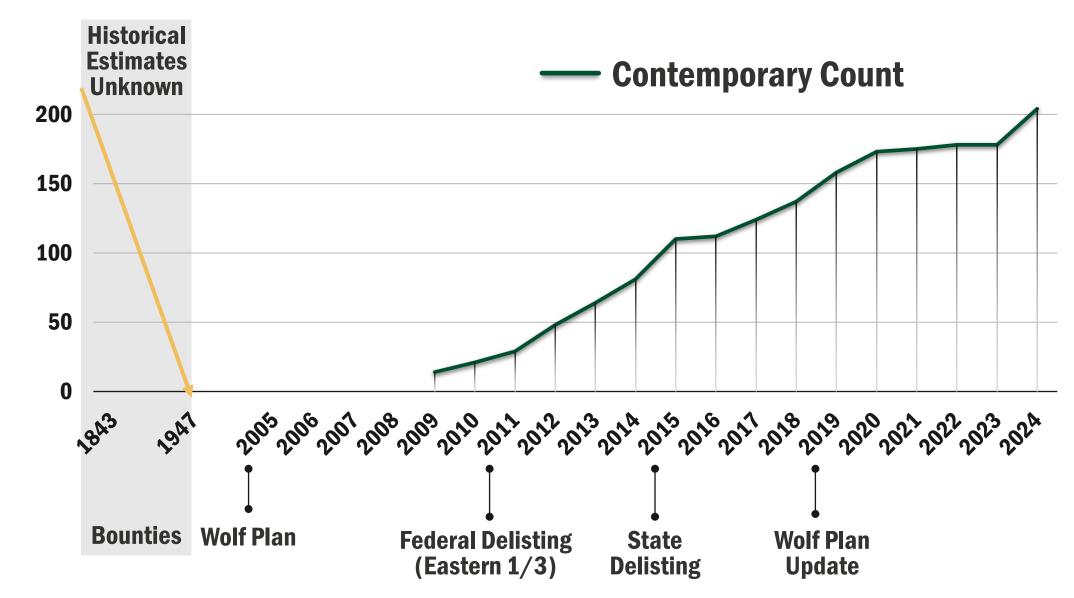
#### Cougars







#### **Gray Wolves**





#### **Management Framework**







The changes in policy management since the 1970's have resulted in predator populations that are generally resilient in Oregon.





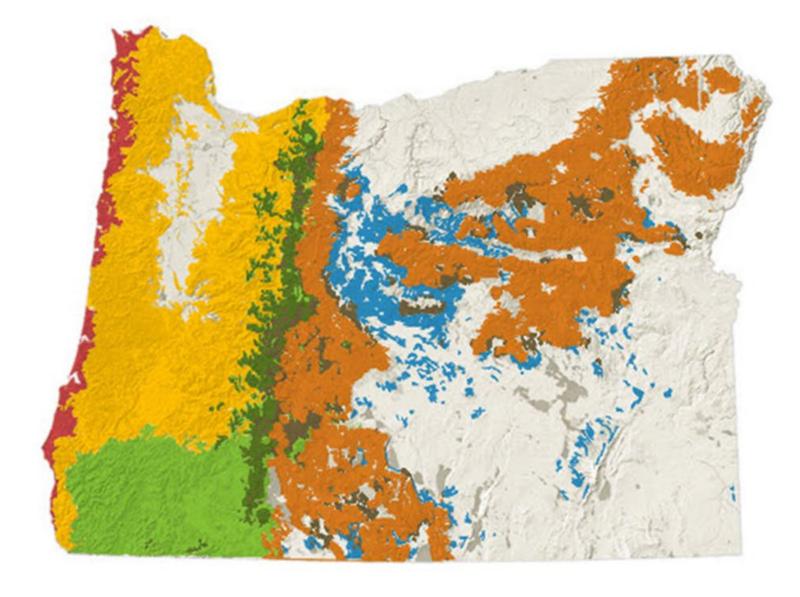


## **Changing Forest Management**



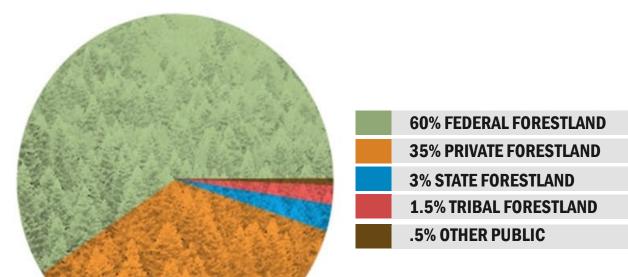
## Nearly half of Oregon is forestland







#### **Who owns Oregon's Forests?**







#### Federal forests management changes



1976

National Forest Management Act



1994

#### **Northwest Forest Plan**

- Focus on conserving late successional habitat
- Protection for early successional

#### Malheur, Umatilla & Wallowa-Whitman

(Blue Mountains plan undergoing revision since early 2000s)



#### **Eastside Screens**

- Focus on late successional habitat
- "21" rule"



1990



1994

Forests managed for less harvest, fire suppression, & increased recreation

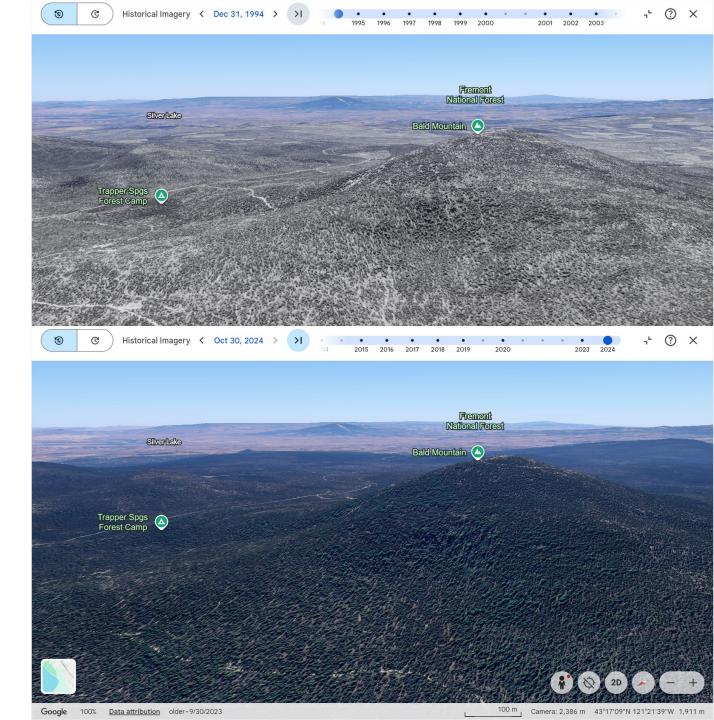




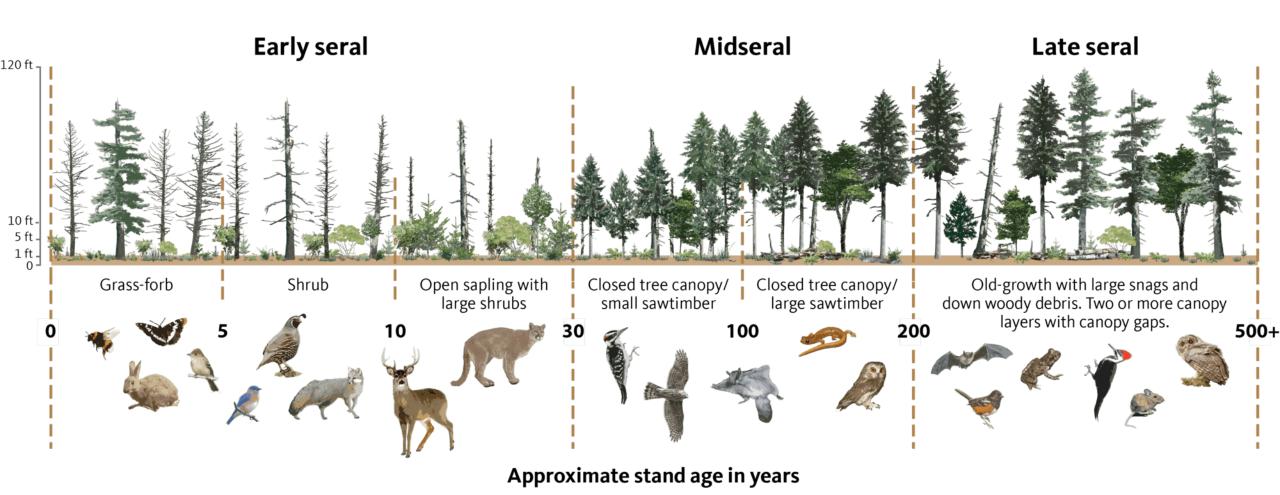
### **Example: increase in stand density**

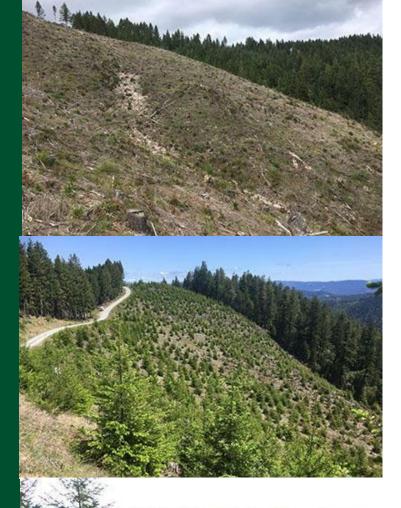
**Bald Mountain** (Fremont-Winema)





#### Habitat opportunity for ungulates depends on forest structure





**2** - **5** years

6 - 9 years

Example of forest maturation in the 20 years post-clearcutting

e.g. Klamath Mountains





#### **Restoration Opportunities**

**Open canopy** 

**Thinned vs Unthinned** 





#### Forest Management: A Long-Term Experiment

#### **Key Changes:**

- Shrinking early seral habitat
- Closure of mid-seral canopy
- Ongoing fire suppression

#### Impact on Wildlife:

 Less forage (abundance and productivity) in summer and winter/transitional ranges



Consider with climate change and increased recreational pressure on federal public lands





#### A Changing Climate

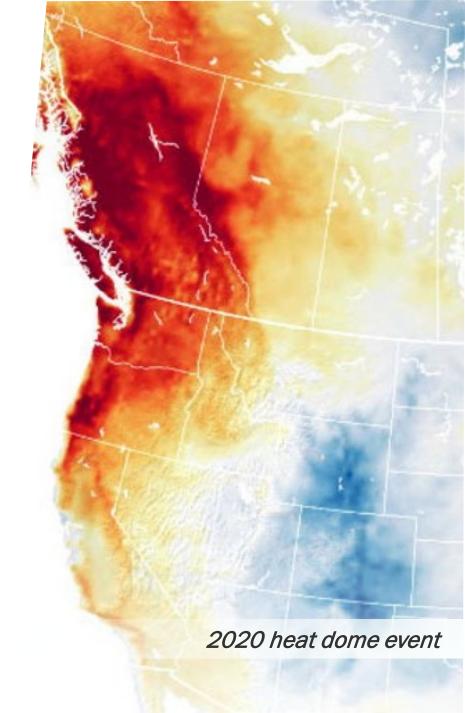


#### **Trends**

Rising Air Temperature
Changing Precipitation patterns
More extreme weather events

The annual average temperature in Bend has increased by 4.1° since 1970





# These changes are impacting ungulate habitat





Plants greenup sooner, flower earlier, and dry out earlier

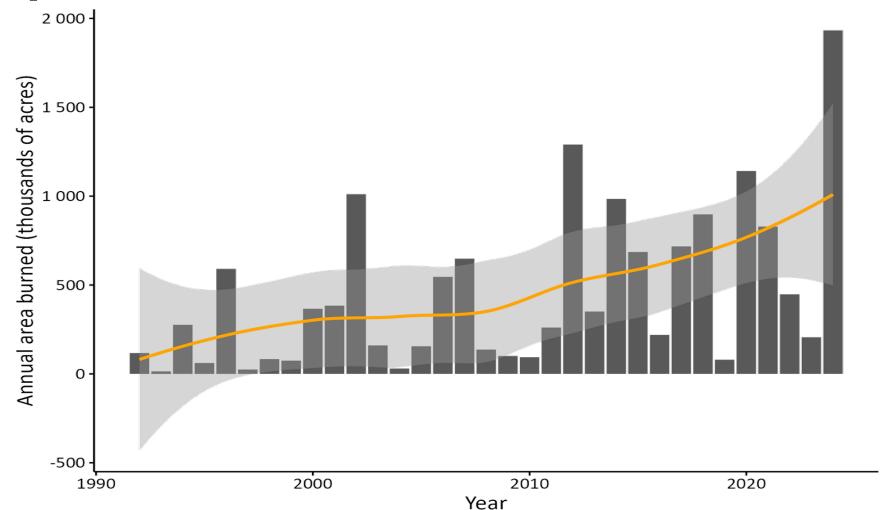
Lost two weeks of spring forage availability since 1990







### 156% increase in acres burned per decade since 1990's







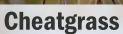


#### Fires create opportunity for invasive grasses



## Invasive grasses have a negative impact on ungulate forage.







Medusahead



Ventenata





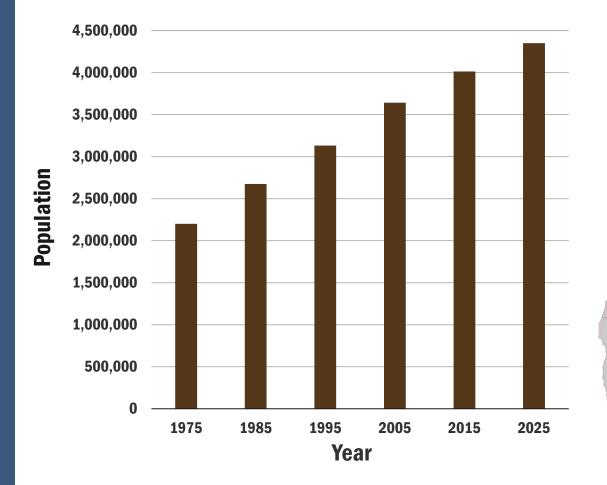


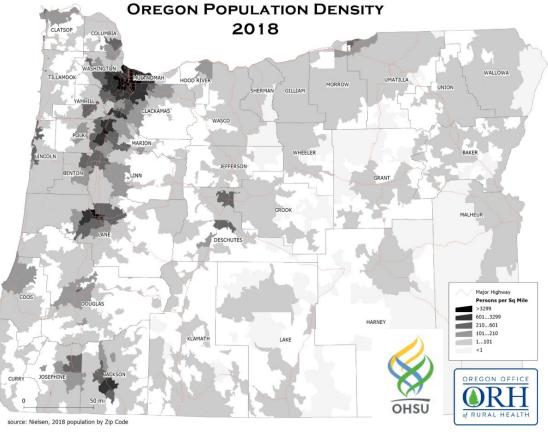
## **Changing Recreation Pressure**

Increased Disturbance From More Visitors to Public Lands



#### **Oregon's Human Population Doubled in 50 Years**







#### **Oregonians Love to be Outdoors**



## Massive investment in roads and trails to accommodate access since the 1970s



#### **Willamette National Forest**

- Largest of our 11 National Forests
- 6,550 miles of USFS maintained roads
- Stretched end to end reach from Salem to New York City and back





#### **Even Wilderness Gets Crowded**

#### **Central Cascades Wilderness Permit System**

- Three Sisters Wilderness
  - 46,999 visitors in 2011
  - 132,118 visitors in 2016
- Implemented permit system 2021





Year-round human activity on public lands leaves wildlife with far fewer places to rest, feed, and roam undisturbed than in the past.



