

Greater Sage-Grouse Management in Oregon

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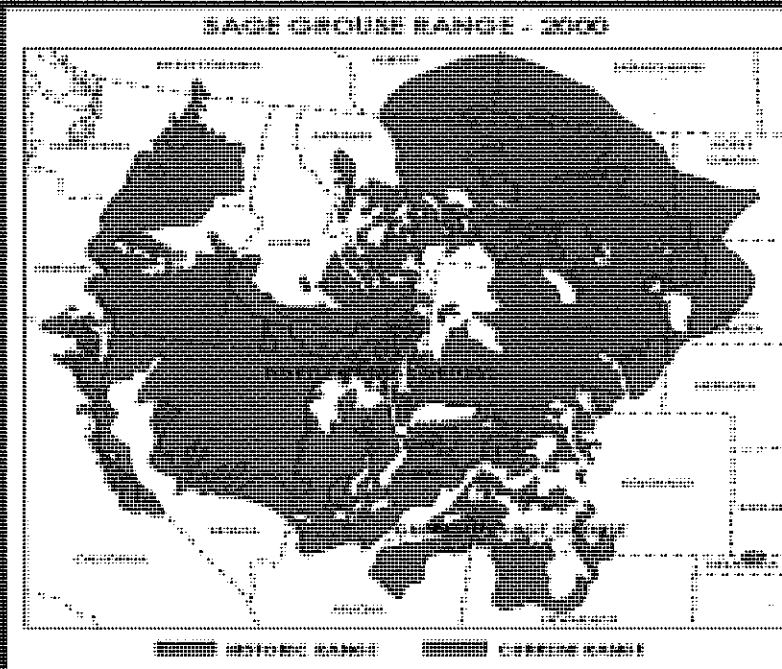


"Sage hens are getting scarcer each year, and their complete extinction can not be a matter of more than a few years"

Report from the Game and Forestry
Warden to the Governor of Oregon

1901

Range-wide Distribution

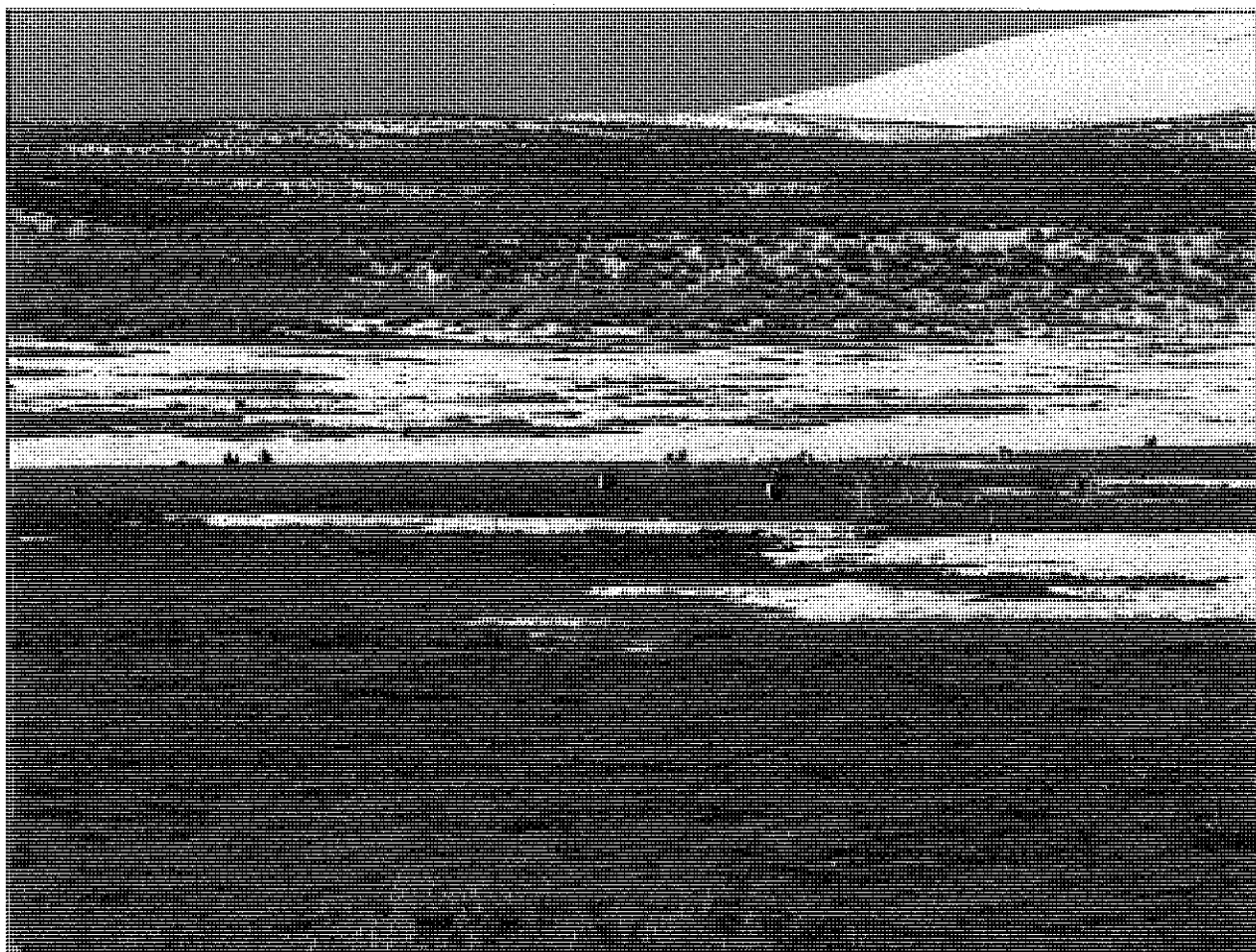


Sage-Grouse and the ESA

- March 2010, USFWS decision to list SG as "Warranted but Precluded"
 - Habitat loss and degradation
 - Eastern (CO, WY, MT, UT) – Oil/gas development
 - Western (OR, NV, ID) – Wildfire, Invasive grasses
 - Lack of regulatory mechanisms
- Court settlement in 2011 requires USFWS to revisit the issue by Sept. 2015
 - Warranted or not Warranted finding

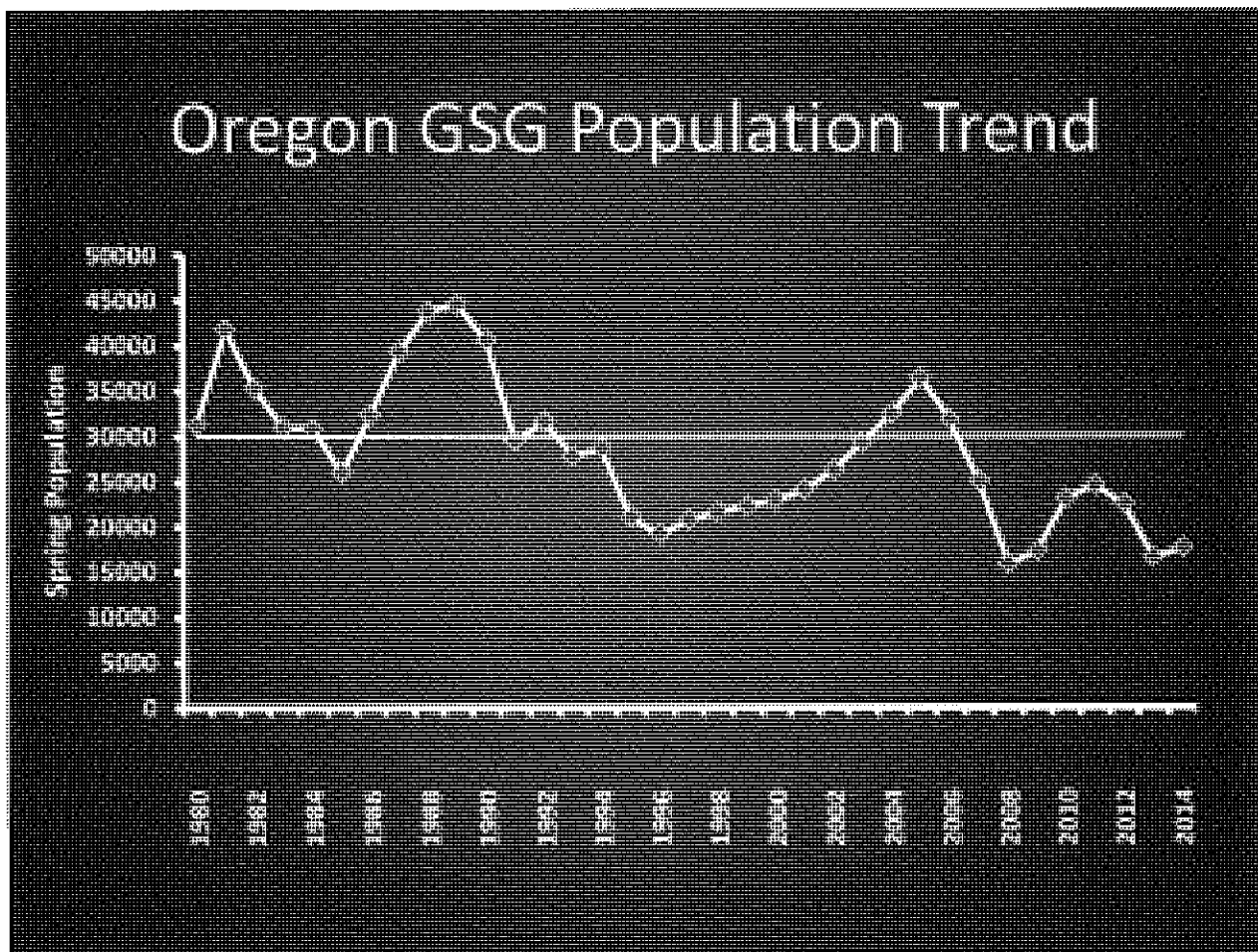
Sage-Grouse Ecology

- Sagebrush obligate
 - Need vast expanses for nesting, brood rearing, winter
 - sole winter food source
- Relatively long-lived — 3-6 years
 - 55%-80% annual survival
- Low productivity
 - < 10 eggs/ clutch; < 2 chicks/hen survive to fall
- Exhibit strong fidelity to breeding areas (leks, nesting)
- Sensitive to disturbance, habitat loss
- *Populations have slow recovery rates after disturbance to their habitats*



Population Monitoring

- 1941 - ODFW biologist Wes Batterson begins monitoring leks in Baker County
- 1980's - Counting of leks expands across their range in Oregon
- ~650 active leks in Oregon, close to 300 are counted each year
 - Multiple counts during March -May
- Brood routes conducted during the summer
 - Provides a snapshot of production (chicks/female)



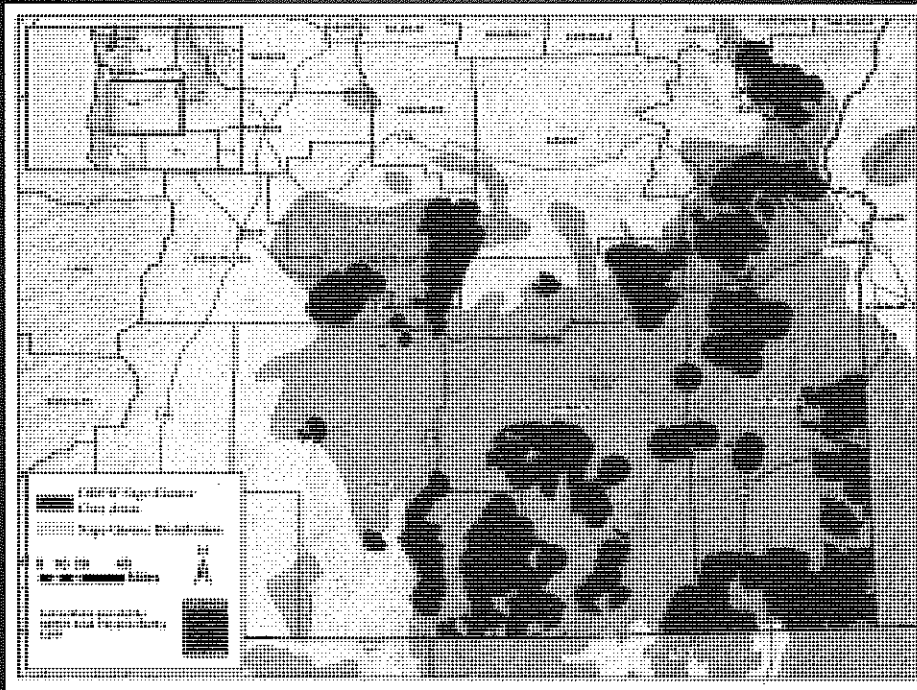
Conservation Approach

- 2005 - First SG plan for Oregon is adopted
 - Avoid impacts within 5 miles of all occupied sagebrush habitats
- 2009 – ODFW White Paper
 - Avoid impacts within 3 miles of all occupied leks (n=672)
- 2011 – SG plan is revised based on Core Area approach
 - Avoid impacts within all Core Areas

Core Area Approach

- Modeling approach (Deherty et al. 2011)
 - Lek densities, connectivity corridors, winter habitat
- Identifies priority populations
- 90% of breeding population
- 37% of the range (6.5 million acres)
- Avoid Impacts in Core Areas
- Identifies areas to focus conservation actions

Sage-Grouse Core Areas



So why another plan?

- ODFW plan considered too restrictive
 - Avoiding all impacts in Core Areas limits economic development opportunities
- ODFW Plan implementation is voluntary
 - Except for EFSC; lacks regulatory mechanisms to satisfy USFWS criteria
- ODFW Plan has a strong biological foundation
 - Identified strongholds with long term monitoring
 - Used as biological reference for State and Federal planning efforts

Wildfires in Oregon

- 2012 – 10 fires on BLM (Miller Homestead, Holloway, and Long Draw) burn ~ 1 million ac.
 - 632,842 ac. (10% of Core habitat)
- 2013 – 115,641 ac. of SG habitat
- 2014 – ~ 455,020 ac. burn
 - 161,458 ac. - Core habitat
- Research on Trout Creeks to determine SG response to fire impacted habitats

Knick et al. 2013

Developed Land Area and Active Leaks

