SAGECON SUMMIT 2019

Oregon Sagebrush: Status, Trends and Ongoing Efforts



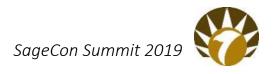
SAGECON SUMMIT 2019

Oregon Sagebrush: Status, Trends and Ongoing Efforts

The following slides present the status, trends and ongoing efforts related to sagebrush and sage-grouse conservation in Oregon, from the SageCon Partnership Annual Summit, October 3-4, 2019.

The SageCon Partnership is developing a SageCon Dashboard, which will provide this information and more in 2020. These slides preview the information that will be available in the dashboard. Some data shown here is preliminary.

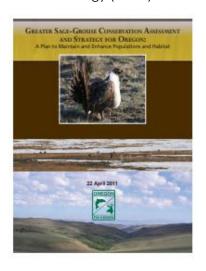
More information about SageCon: https://oregonexplorer.info/topics/sage-grouse



"numerous federal agencies, the 11 states in the range, and dozens of public and private partners [undertook] an extraordinary campaign to protect, restore and enhance important sage-grouse habitat to preclude the need to list the species"

DOI news release Sep 22, 2015

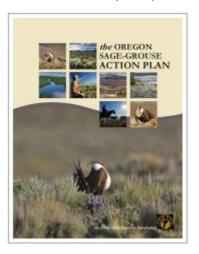
ODFW Sage-Grouse Conservation Strategy (2011)





Oregon Greater Sage-Grouse BLM Resource Management Plan (2015, amended 2019)

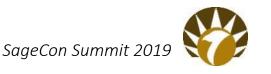
Oregon State Sage-Grouse Action Plan (2015)



Where does Oregon stand four years after implementing these plans?

- ✓ Sagebrush habitat
- ✓ Sage-grouse populations
- ✓ Human development
- ✓ Conservation actions

- ✓ Monitoring and research
- ✓ Technical resources
- Local capacity building

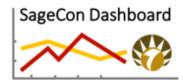


The Challenges and Threats

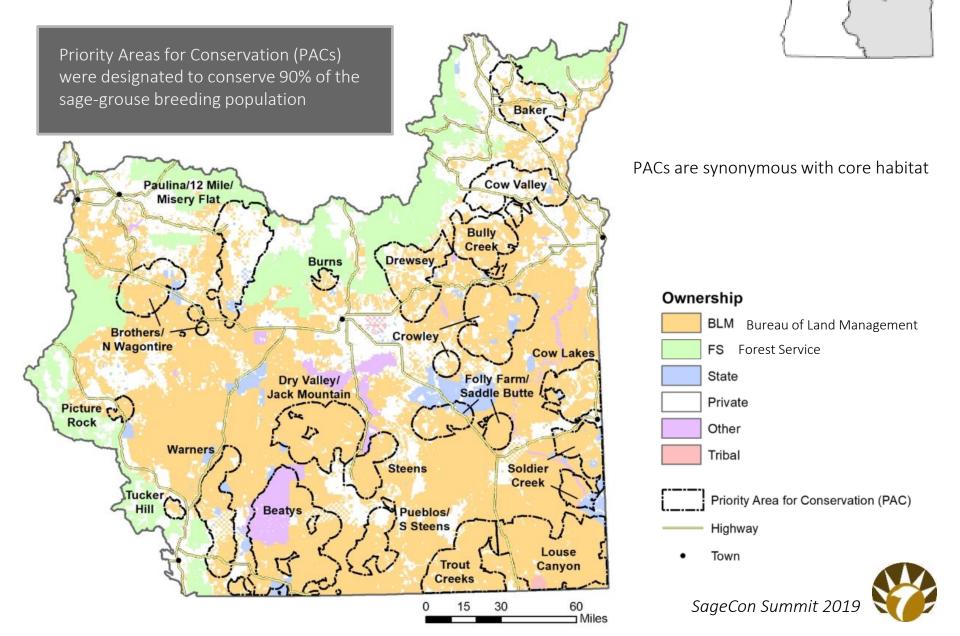
- Sagebrush habitat condition has declined in Oregon and throughout much of the western US.
- **Sage-grouse populations** have been in decline as a result of habitat loss and other threats.
- Human development poses a threat to sage-grouse range-wide.

The Efforts and Opportunities

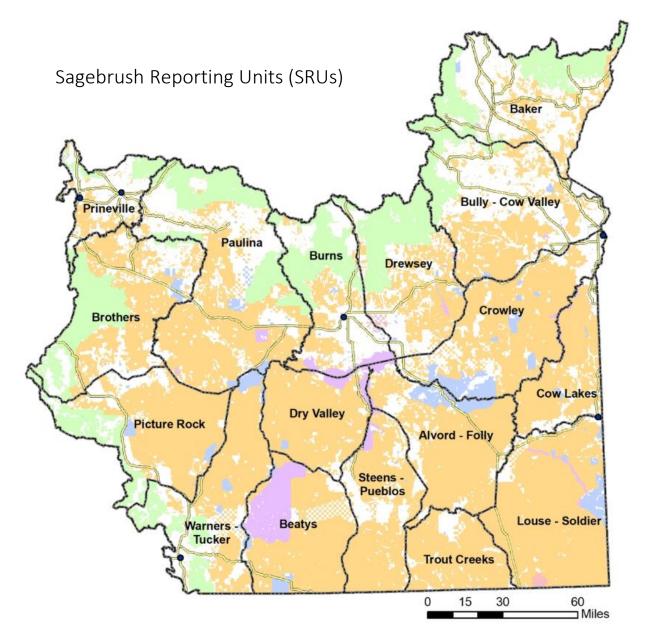
- In response to these threats, the SageCon Partnership was formed as a collaborative group to address issues affecting sagebrush ecosystems.
- **Conservation actions** are occurring at an unprecedented level across federal, state and private lands to address threats.
- New rules to steer **development** away from priority sage-grouse habitat and **mitigate** impacts have resulted in no new habitat loss due to development.
- New tools and resources aid in planning and conservation of sagebrush habitat.

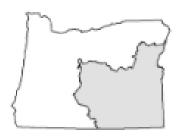


Sagebrush and Sage-Grouse Habitat in Oregon



Sagebrush and Sage-Grouse Habitat in Oregon





Purpose of SRUs

- Cover all lands
- Contain one or two sagegrouse PACs
- Large enough to protect landowner privacy

Ownership

BLM Bureau of Land Management

FS Forest Service

State

Private

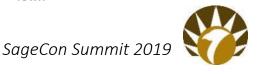
Other

Tribal

Sagebrush Reporting Unit (SRU)

---- Highway

Town



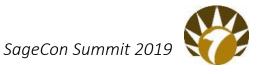




The Challenges and Threats









5.5 million acres of "state A" functioning sagebrush habitat





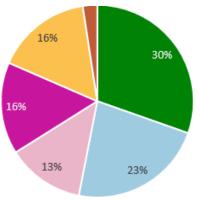
5.1 million acres impaired by invasive grasses



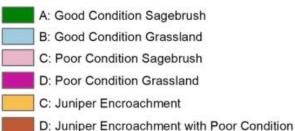
3.3 million acres impaired by juniper encroachment

Habitat condition summary based on threat-based model "ecostates"

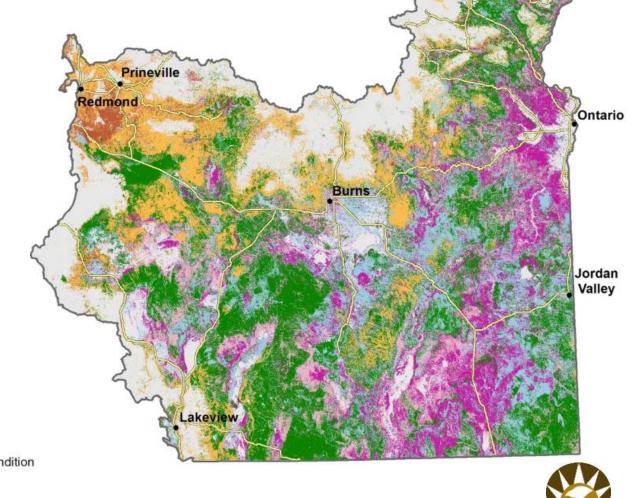
All sagebrush rangelands







Non-Rangeland





2.8 million acres of "state A" functioning sagebrush habitat*

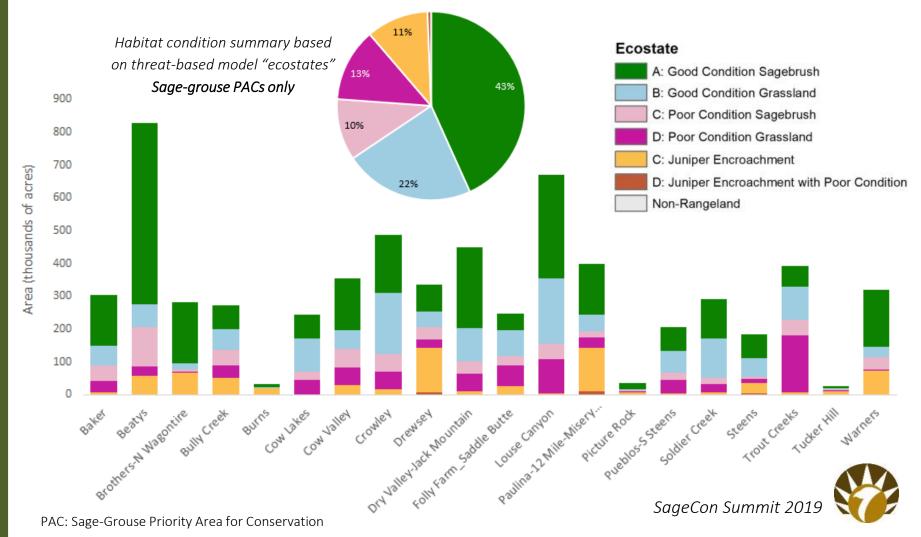


1.5 million acres impaired by invasive grasses*



700,000 acres impaired by juniper encroachment*

*in sagegrouse priority habitat (PACs)

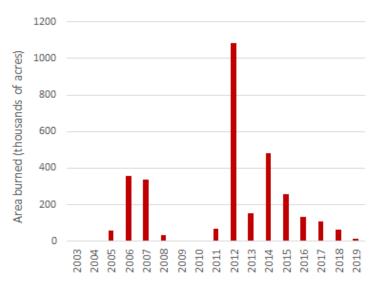




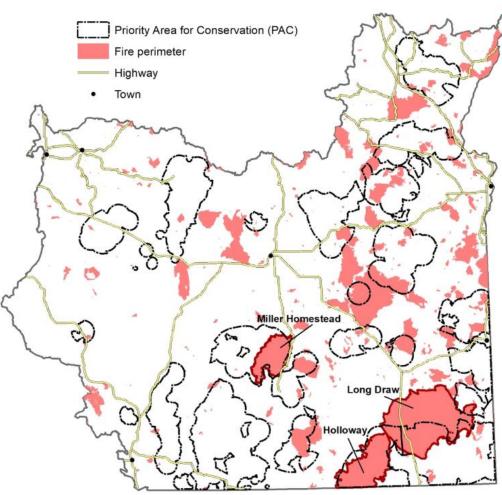
3.1 million acres of rangelands burned in Oregon (2003-2019*)



*2019 acres reported here are incomplete



- 1.3 million acres burned in PACs
- 277,000 acres have burned multiple times
- Largest fires occurred in 2012

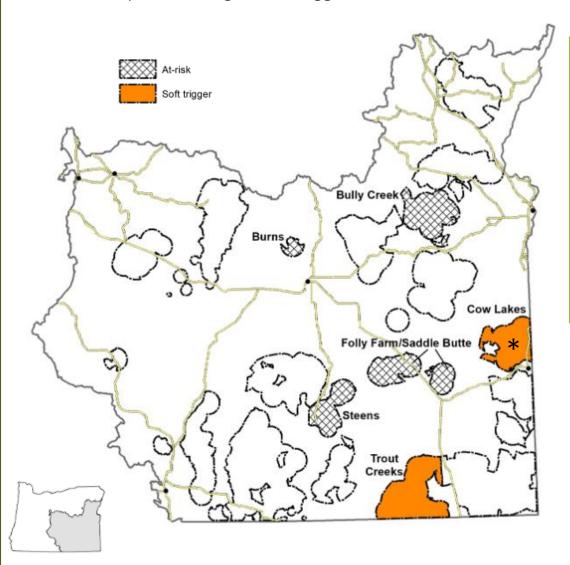






2 PACs tripped BLM adaptive management triggers due to sagebrush habitat loss

2018 adaptive management triggers (2019 data available in early 2020)



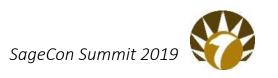
BLM soft habitat triggers

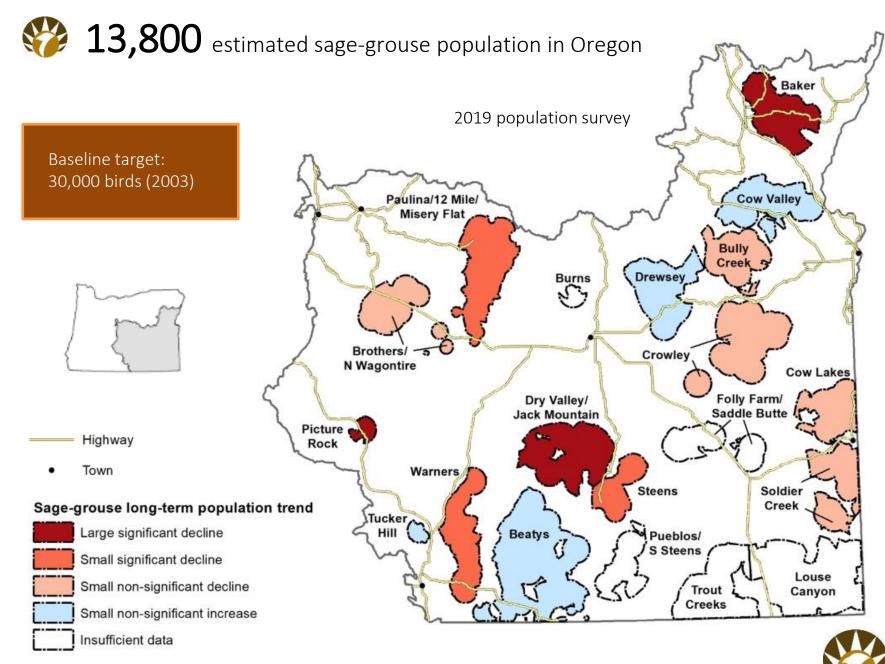
Sagebrush habitat (>5% sagebrush,
 <5% trees) drops below 65% of
 sagebrush capable area in a PAC

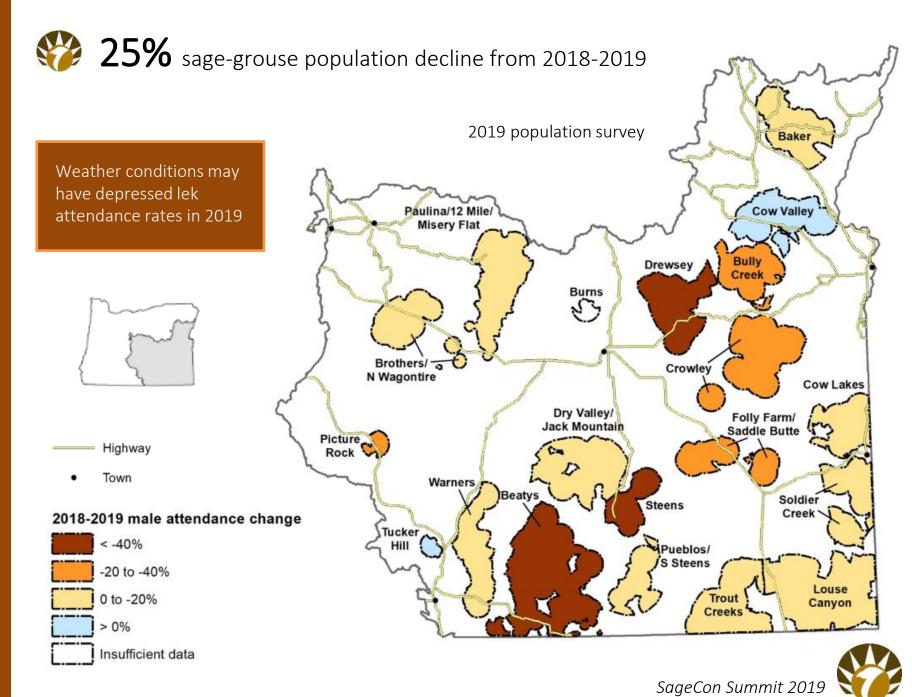
BLM hard habitat triggers

- Sagebrush habitat drops below 30% of sagebrush capable area in a PAC
- >5% decline in sagebrush habitat in one year in a PAC

* Cow Lakes PAC has tripped both habitat and population triggers



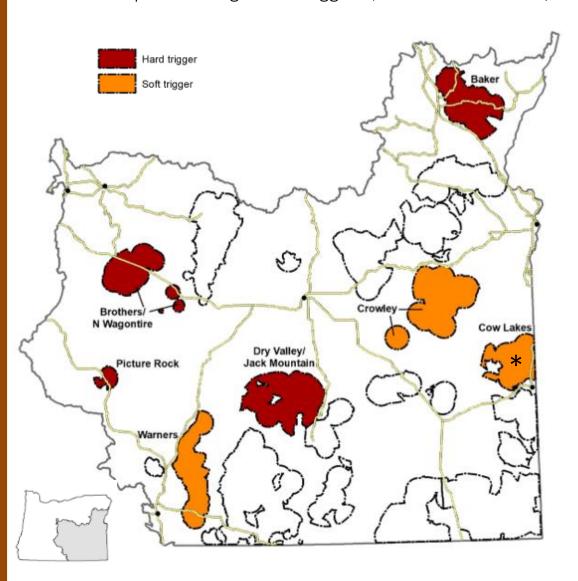






7 PACs tripped BLM adaptive management triggers due to population decline

2018 adaptive management triggers (2019 data available in early 2020)



BLM soft population triggers

- Annual population drops by ≥40% in a single year
- Annual population drops by ≥10% for 3 consecutive years
- 5-yr running mean population drops below the lower 95% C.I.

BLM hard population triggers

- 5-yr running mean population drops below lower standard deviation (for PACs with adequate data)
- Annual population declines by a total of 60% or more over 2 consecutive years (for PACs with inadequate data)
- Soft trigger for habitat and population within the same PAC

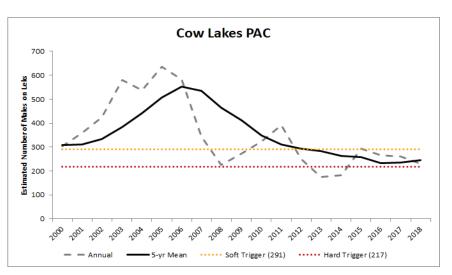
^{*} Cow Lakes PAC has tripped both habitat and population triggers

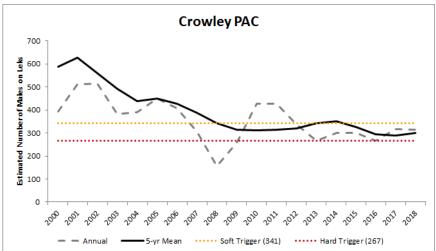


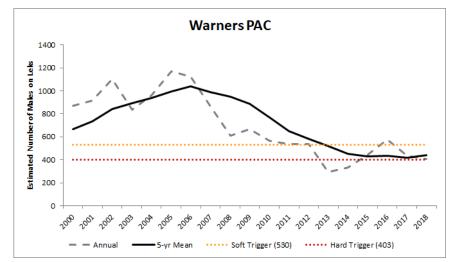


PACs tripped BLM adaptive management population soft triggers

2018 adaptive management triggers (2019 data available in early 2020)





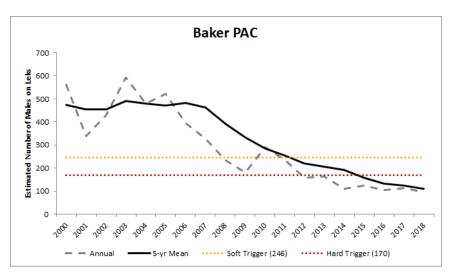


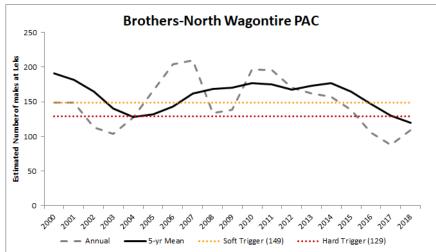


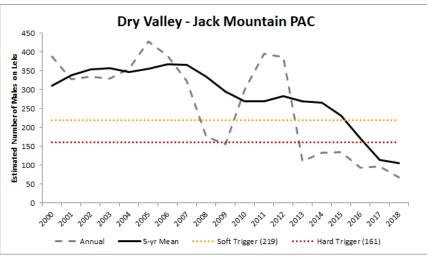


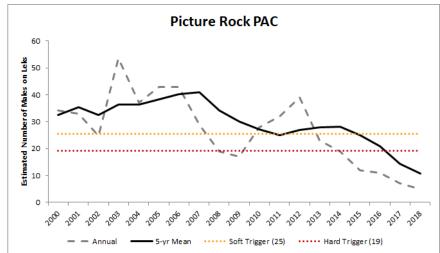
4 PACs tripped BLM adaptive management population hard triggers

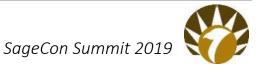
2018 adaptive management triggers (2019 data available in early 2020)











What happens when a hard adaptive management trigger is tripped?

Required responses take effect on BLM-administered lands within affected PAC and remain in effect until the habitat or population levels rise above the trigger threshold.

Minimize sagebrush loss

- Limit prescribed fire to treat sagebrush in areas <12 inch precipitation
- No mechanical sagebrush treatments in winter habitat
- Limit broadcast burning of juniper

Limit new ROW disturbance

- No new geophysical exploration permits
- Exclusion of new ROW authorizations

Prohibit road

construction within 4 miles of active leks

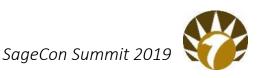
Reduce impacts of recreation

- Restrict OHV use to areas >2 miles from leks during breeding season
- Prohibit construction of recreational facilities within 2 miles of leks

Emphasize use of natives

When reseeding closed roads, primitive roads, and trails, use appropriate native seed and transplanted sagebrush

In 2018, there were no existing projects or pending authorizations where mandatory hard trigger responses were necessary.

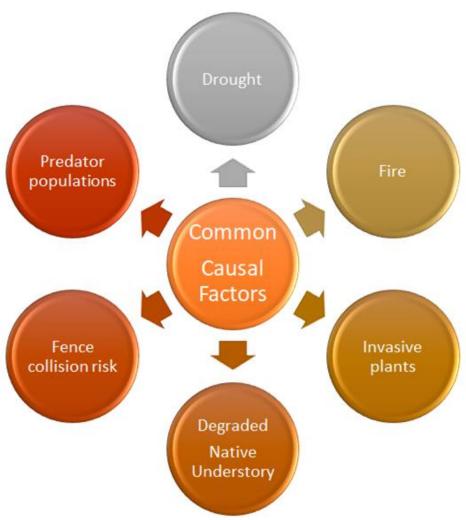


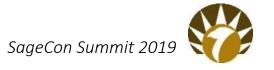


8 BLM adaptive management trigger causal factor analyses conducted

- ✓ Baker
- ✓ Brothers North Wagontire
- ✓ Crowley
- ✓ Cow Lakes
- ✓ Dry Valley / Jack Mountain (draft)
- ✓ Picture Rock
- ✓ Trout Creeks
- ✓ Warners









 $oldsymbol{0}$ development projects approved since 2015 requiring mitigation





Development thresholds: Development is limited to 3% of the area in each PAC, up to a 1% increase per decade





Mitigation hierarchy

- Avoidance
- Minimization
- 3. Compensatory mitigation

Proposed development projects by County*:

- Baker Pleasant Valley ODOT quarry, Boardman to Hemingway transmission line
- Malheur Calico gold mine, Eco-Site/T-Mobile communication tower
- Harney Natures Advocate Road Expansion
- Lake Hunter Communications fiber optic line
- Deschutes Spencer Wells quarry, Millican Valley solar,
 Fox Butte Road solar

* list current as of September 2019. May be subject to change.









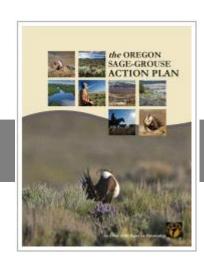
The Efforts and Opportunities



SageCon provides a forum for coordination across stakeholders in Oregon interested in sagebrush, sage-grouse and rural communities in sagebrush country.

The Efforts and Opportunities

- Local capacity building
- Monitoring and research
- Conservation actions
 - Fire protection
 - Voluntary conservation agreements
 - Restoration treatments across the state
- Rolling up and interpreting monitoring information: Dry Valley and Drewsey
- Technical resources





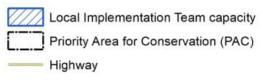


3 Local Implementation Team (LITs) coordination capacity

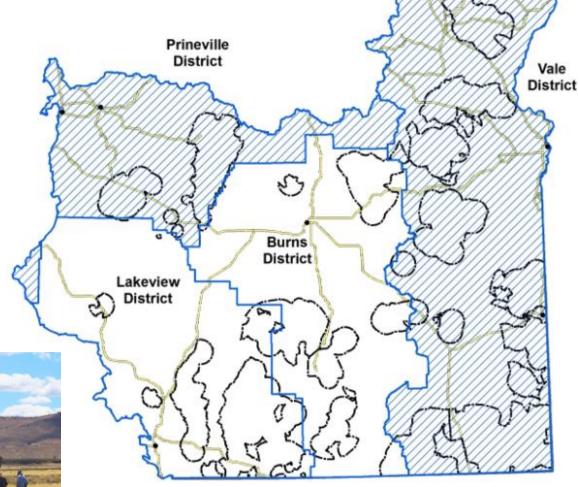


2 LIT coordinator positions

- Vale & Prineville
- Baker



Town

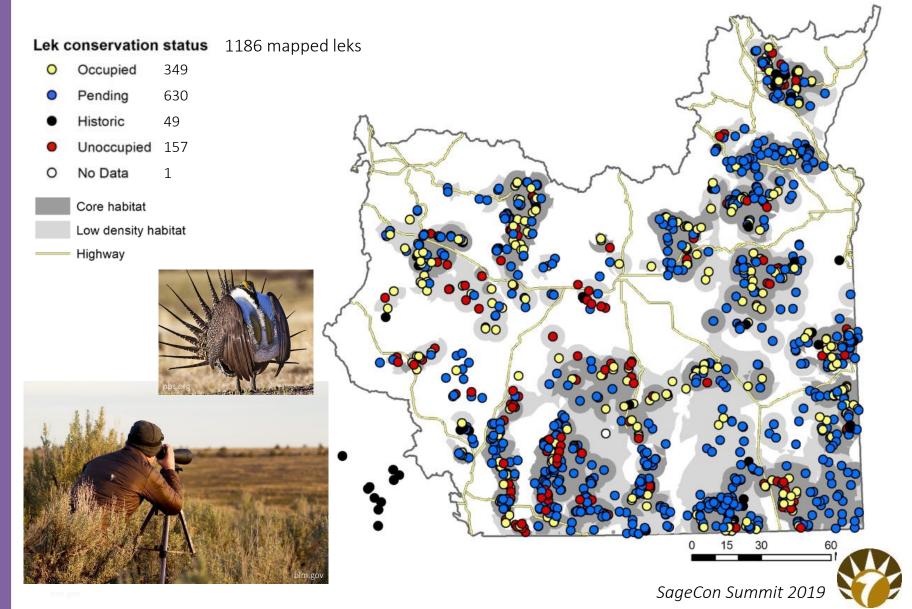






$489\,$ lek complexes monitored in 2018 (~50% active)





SageCon Summit 2019

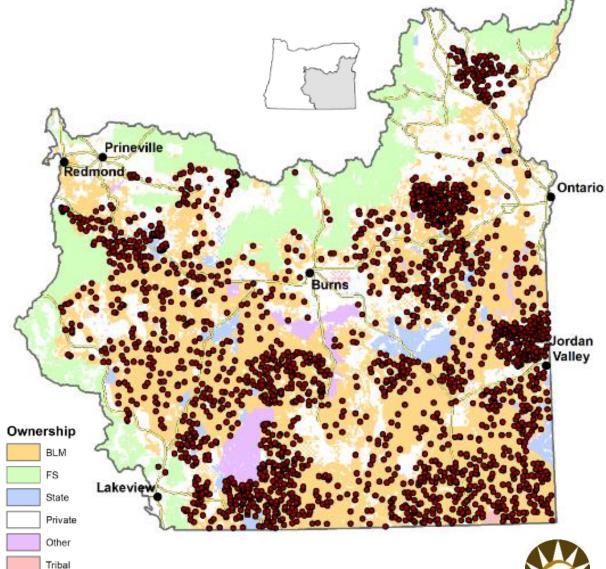


2290 inventory plots established on BLM rangelands

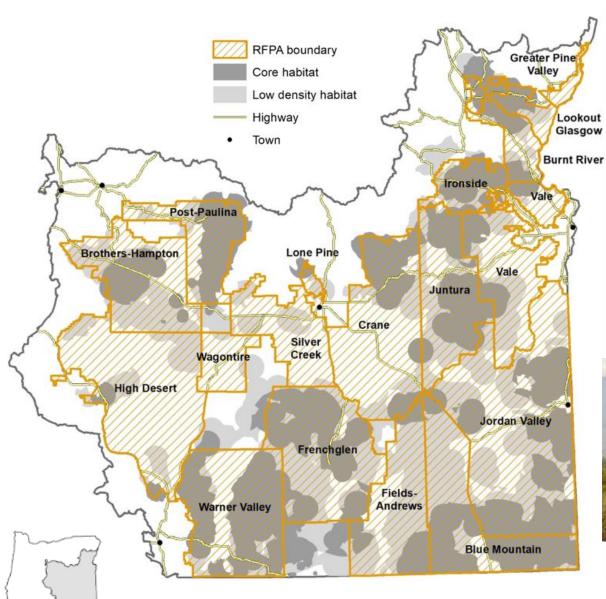
Assessment Inventory and Monitoring (AIM) data

- Public data on status and trends
- Inform assessments
- Used to build remotely sensed maps
- Evaluate treatments





RFPAs: Rural Fire Protection Associations



24 total RFPAs

- **Training**
- Prevention
- Prescribed fire
- Rural fire readiness



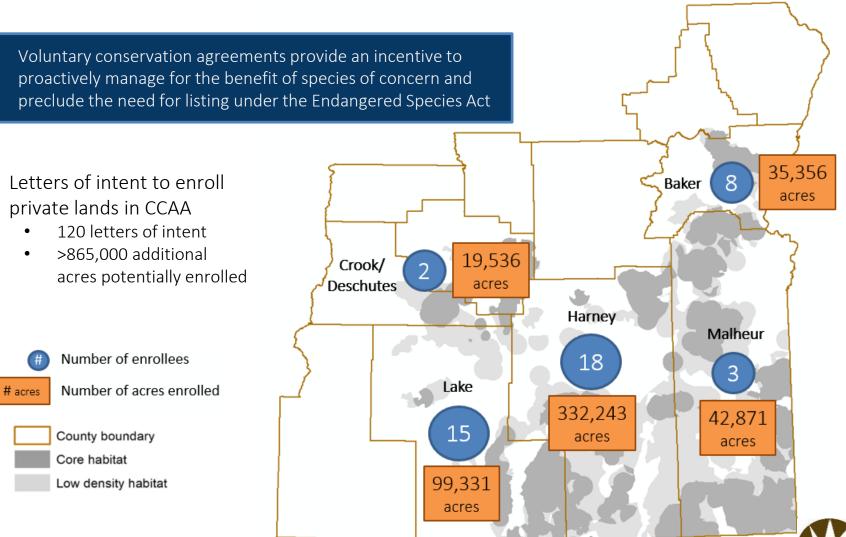




529,000 acres of private lands enrolled in CCAAs



46 private land enrollees



SageCon Summit 2019

CCA: Candidate Conservation Agreement

CCAA: Candidate Conservation Agreement with Assurances



713,000 acres of state lands enrolled in CCAAs



\$\frac{1}{2}\$ \$\

CCA: Candidate Conservation Agreement

CCAA: Candidate Conservation Agreement with Assurances











??????? acres treated to address invasive species*

*Actual numbers available in early 2020!



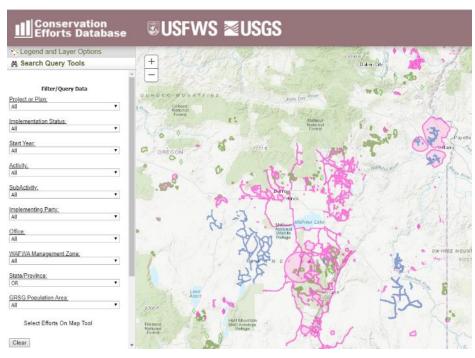
??????? acres treated to address juniper*



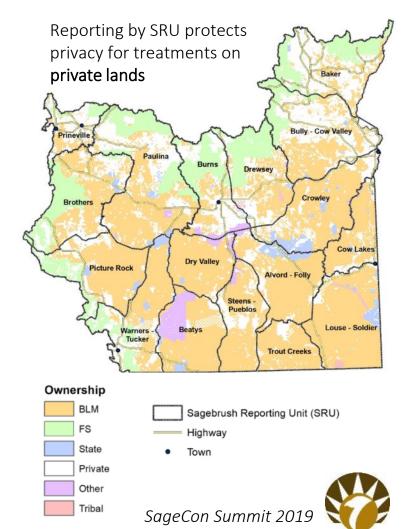
??????? acres treated to address other threats*



Conservation actions on public lands will be accessible through the SageCon Landscape Planning Tool



https://conservationefforts.org/





??????? acres treated to address invasive species*



??????? acres treated to address juniper*

*All numbers on this slide are preliminary



??????? acres treated to address other threats*



BLM (2015- spring 2019) Bureau of Land Management

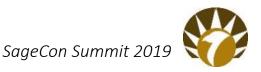
- 1.1 million acres inventoried or treated for invasive grasses and noxious weeds
- **128,000** acres seeded
- 185,000 acres of juniper removal
- **1,500** acres of riparian restoration
- 36,000 acres of fuel breaks

OWEB (2014-2018) Oregon Watershed Enhancement Board

- 75,000 acres treated for invasive grasses and noxious weeds
- 6,700 acres seeded
- 40,000 acres of juniper removal
- **2,400** acres of riparian restoration

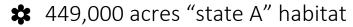


(Private lands only, excludes portions funded by NRCS)



DRY VALLEY SAGEBRUSH REPORTING UNIT

Dry Valley SRU: 970,000 acres Dry Valley-Jack Mountain PAC: 449,410 acres



224,000 acres of invasive annual grass

\$\\ 168,000 acres burned (87% in 2012)

large long-term population decline (-12% in 2019)

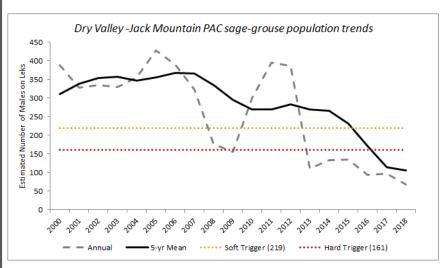
30 leks (4 confirmed active in PAC)

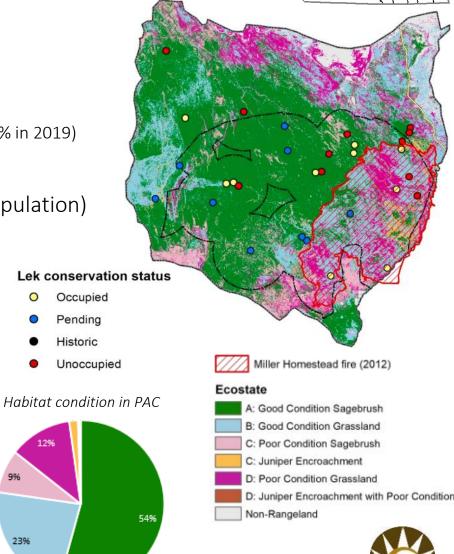
⚠ BLM adaptive management trigger (population)

low chick production (<1.5 chicks per hen)</p>

post-fire rehabilitation and fuel breaks

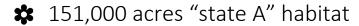
□ 157 vegetation monitoring plots





SageCon Summit 2019

DREWSEY SAGEBRUSH REPORTING UNIT



175,000 acres of invasive annual grass

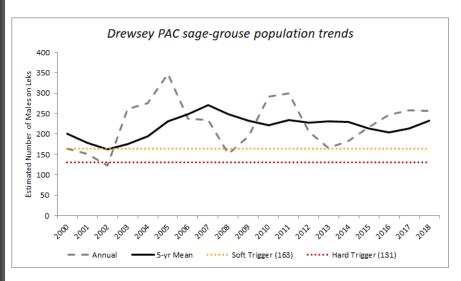
329,000 acres of juniper encroachment

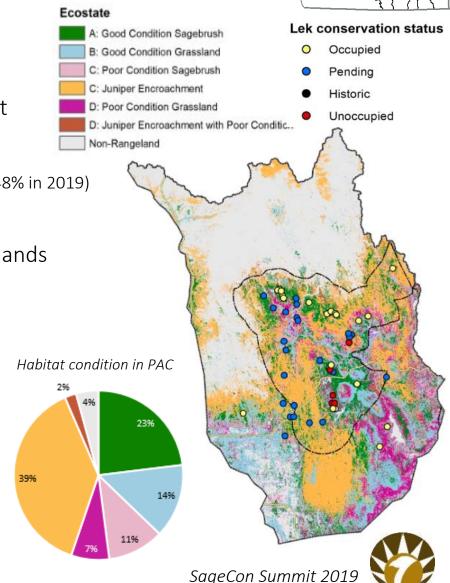
\$\\ 139,000 acres burned (2003-2018)

🐺 small long-term population increase (-48% in 2019)

50 leks (19 confirmed active in PAC)

Conifer removal on public and private lands







SageCon website with information, technical resources, and more!

Sage-Grouse

INTRO ARTICLES & STORIES MAPS & TOOLS REPORTS & PUBS DATA PHOTOS & VIDEOS MORE



Eastern Oregon is home to over 15 million acres of sage-grouse habitat. The SageCon Partnership advances policies and actions that reduce threats to sage-grouse, sagebrush ecosystems and Oregon's rural communities.

Browse content



Source: Collage from the Oregon Sage-Grouse Action Plan

1.



SageCon Dashboard

Preliminary information on status, trends, and efforts to address threats to the sagebrush ecosystem and sage-grouse populations in Oregon.

EXPLORE RELATED:

- SageCon news and updates
- > 2016-2018 State Action Report
- Sage-Grouse FAQs and Resources

2.



SageCon Tools Navigator

Use the SageCon Tools Navigator to find SageCon web tools and technical resources for planning in Oregon's sagebrush country.

EXPLORE RELATED:

- SageCon Landscape Planning Tool
- ▶ Sage-Grouse Development Siting Tool
- Rangeland Vegetation Maps

3.



The Oregon SageCon Partnership

The SageCon Partnership provides coordination across a broad-base of stakeholders in Oregon with an interest in sagebrush conservation.

EXPLORE RELATED:

- Oregon Sage-Grouse Action Plan
- ▶ Plans, Policies and Programs
- ▶ BLM Sage-Grouse Planning

Featured Content

1. SageCon Dashboard

(These slides are linked from here until full dashboard is ready)

2. SageCon Tools Navigator

Tools and Technical Resources

3. Other SageCon information





SageCon Tools Navigator

SageCon Web Tools



View, download, and query data related to sagebrush in Oregon using a web-based interactive map



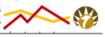
Get information about siting development in southeastern Oregon and mitigation for sage-grouse



Track current levels of human development in mapped sage-grouse habitat in Oregon

More Tools and Resources





Status, trends and ongoing work under the Oregon Sage-Grouse Action Plan



Resources for finding and using remotely sensed rangeland maps



Access Oregon wildlife data through the ODFW Compass web tool



Find out more information about the SageCon Partnership

Regional Tools and Resources



A collaborative platform to promote sharing of data and tools



Access to BLM data, resources and web tools, including AIM monitoring data



Captures conservation actions to address threats to the sagebrush ecosystem



Resources and tools for monitoring rangeland ecosystems across the West



Tool for planning restoration and rehabilitation actions on public lands

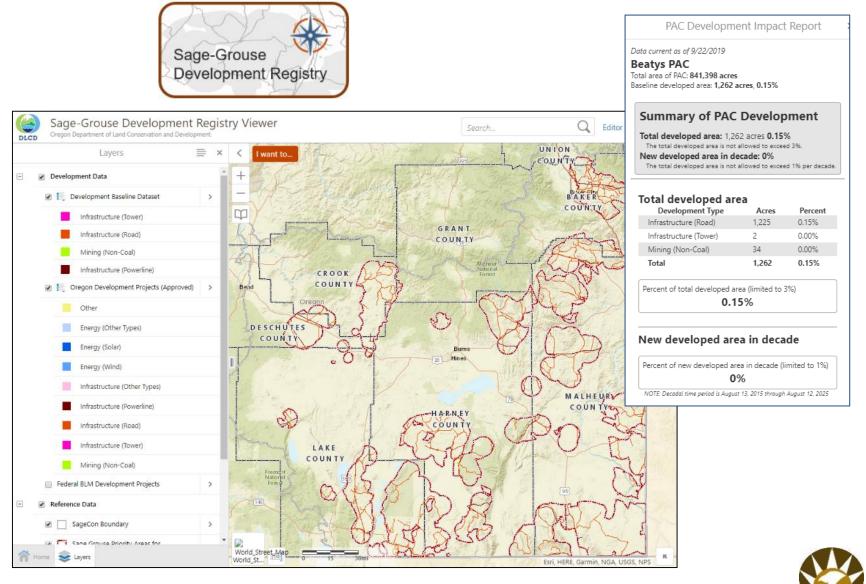


An interactive map to explore regional vegetation and wildlife habitat maps





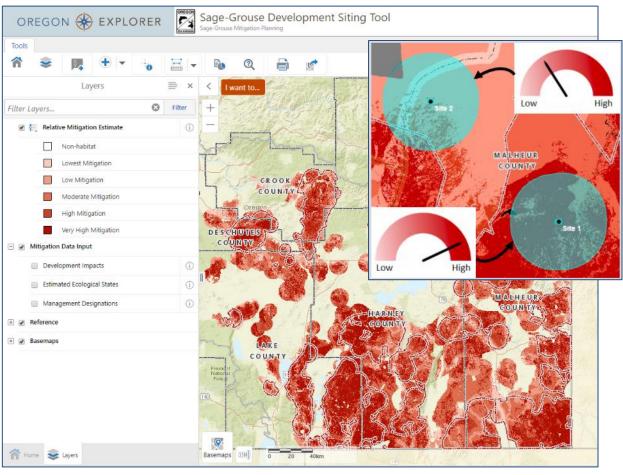
Sage-Grouse Development Registry

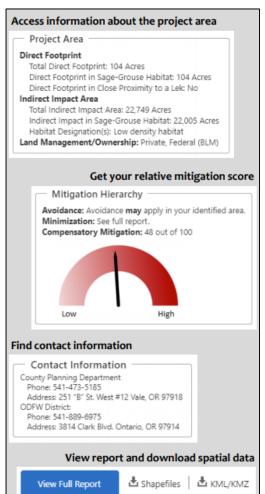




Sage-Grouse Development Siting Tool











SageCon Landscape Planning Tool



SageCon Landscape Planning Tool

35 data layers

Layers Filter Layers... Existing Condition Restoration Potential Wildfire Development Potential Management Boundaries Basemaps



OREGON REXPLORER

Home

The SageCon Landscape Planning Tool allows users to view, download and query the most up-to-date geospatial data on sagebrush habitat in Oregon.

> To download data for an area of interest, use the Download Data tool under the menu in the upper left corner of the map.

To view data, click the Layers button. The data viewer contains over 30 datasets relevant to the sagebrush ecosystem and sage-grouse habitat in Oregon.



To query data through the web interface, use the Query Data tool under the menu. Specify the datasets you want to query and view the results in real time. When you have found your priority areas, download the shapefile and generate a report.

Help and tips for navigating the site.

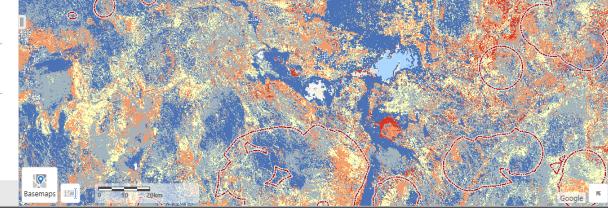


The Oregon SageCon Partnership has developed a suite of tools and resources for partners planning activities in sagebrush habitat in Oregon, accessible from the SageCon Tools Navigator.

This tool incorporates numerous data layers designed to offer guidance about sage-grouse habitat condition and threats within a landscape context. Data layers contain errors and vary in their accuracy and appropriate scales for use, and should not replace on-the-ground siting decisions. Data are provided as-is, and the entities in the SageCon Partnership are not liable for data errors or improper









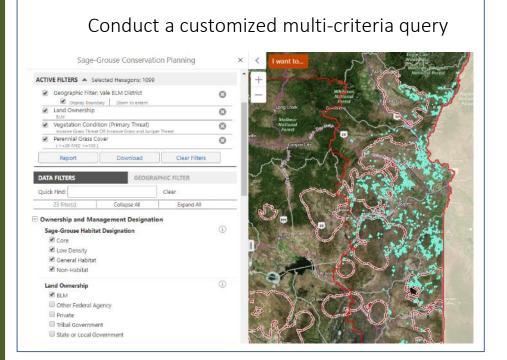
SageCon Landscape Planning Tool

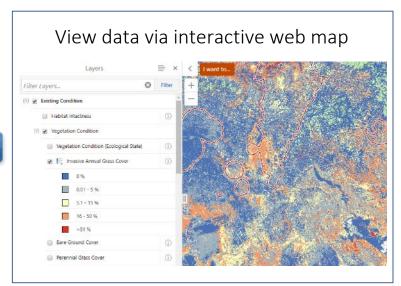


1.

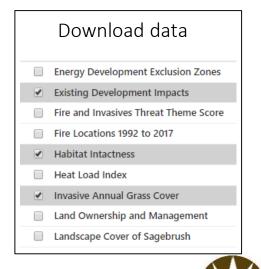
Go To Layers ->

3. Query Data





2. <u>♣</u> Download Data





SageCon website with information, technical resources, and more!

Sage-Grouse

INTRO ARTICLES & STORIES MAPS & TOOLS REPORTS & PUBS DATA PHOTOS & VIDEOS MORE



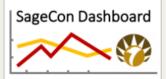
Eastern Oregon is home to over 15 million acres of sage-grouse habitat. The SageCon Partnership advances policies and actions that reduce threats to sage-grouse, sagebrush ecosystems and Oregon's rural communities.

Browse content



Source: Collage from the Oregon Sage-Grouse Action Plan

1.



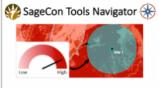
SageCon Dashboard

Preliminary information on status, trends, and efforts to address threats to the sagebrush ecosystem and sage-grouse populations in Oregon.

EXPLORE RELATED:

- SageCon news and updates
- > 2016-2018 State Action Report
- Sage-Grouse FAQs and Resources

2.



SageCon Tools Navigator

Use the SageCon Tools Navigator to find SageCon web tools and technical resources for planning in Oregon's sagebrush country.

EXPLORE RELATED:

- SageCon Landscape Planning Tool
- ▶ Sage-Grouse Development Siting Tool
- Rangeland Vegetation Maps

3.



The Oregon SageCon Partnership

The SageCon Partnership provides coordination across a broad-base of stakeholders in Oregon with an interest in sagebrush conservation.

EXPLORE RELATED:

- Oregon Sage-Grouse Action Plan
- ▶ Plans, Policies and Programs
- ▶ BLM Sage-Grouse Planning

Featured Content

1. SageCon Dashboard

(These slides are linked from here until full dashboard is ready)

2. SageCon Tools Navigator

Tools and Technical Resources

3. Other SageCon information

