

Natural Heritage Ranking Form - Oregon State Rank

Oregon Ranking Form Greater sage-grouse (*Centrocercus urophasianus*)

Oregon Biodiversity Information Center

SPECIES ASSESSED

Scientific Name *Centrocercus urophasianus*

ELCODE ABNLC12010

Common Name Greater sage-grouse

Element ID 6420

Species Concept Reference Citation

American Ornithologists' Union (AOU). 1998. Check-list of North American birds. Seventh edition. American Ornithologists' Union, Washington, D.C. [as modified by subsequent supplements and corrections published in *The Auk*]. Also available online: <http://www.aou.org/>.

CONSERVATION STATUS RANK

Assigned Rank **S2**

Rank Assignment Author E. Gaines Rank Review Date 4/18/2019

Rank Factors Author E. Gaines Rank Factors Date 01/31/2019

Calculated Rank S2 Rank Change Date 05/03/2019

Rank Methodology Used Biotics calculation v1 2011-2015 rank factors

Assigned Rank Reasons

Relatively widespread, with large area of habitat in OR, but populations have declined and are threatened by habitat loss due to invasive species, wildfire, drought. Populations exhibit large fluctuations, which may increase possibility of local extirpations.

RANGE/DISTRIBUTION

Range Extent

Rating 20,000-200,000 square km (about 8000-80,000 square miles)

Comments 108,816 Sq km

Area of Occupancy

Grid Cell Size

Rating (as Number of 4 km² Grid Cells) G = 501-2,500

Comments All EOs with Lastobs 2000 or greater, buffered to 2km. 2420 4km² grid cells. This is likely a high estimate of area of occupancy. 16014 4km² cells when known leks are buffered to 5km. ODFW occupied habitat = 59,980 sq km, or 17592 4km² grid cells.

ABUNDANCE AND CONDITION

Number of Occurrences

Rating

Comments

Population Size

Rating 10,000 - 100,000 individuals

Comments

ODFW 10 year average estimates between 15,803 and 31,840 individuals between 2006 and 2015.

Good Viability/Ecological Integrity

Number of Occurrences with Good Viability/Ecological Integrity

Rating Unknown

THREATS

Calculated Overall Threat Impact**Assigned Overall Threat Impact** A = Very high**Overall Threat Impact Comments**

Habitat loss, Drought, large population swings.

TRENDS

Short-Term Trend**Rating** F = Decline of 10-30%**Comments**

Estimated 27% population decline from 2010 to 2014.

Long-Term Trend**Rating** E = Decline of 30-50%**Comments**

Snake River Plain management zone is in long term decline. Northern Great Basin management zone appears to be stable.

ADDITIONAL SPECIES INFORMATION

Oregon Habitat Comments

Display leks are bare grassy swales, best surrounded by sagebrush cover.

RANKING REFERENCES

<u>Short Citation</u>	<u>Author</u>	<u>Year</u>	<u>Full Citation</u>
Foster		2018	Foster, L. 2018. Oregon Sage-grouse population monitoring: 2018 annual monitoring report. Report for Oregon Department of Fish and Wildlife. https://www.dfw.state.or.us/wildlife/sagegrouse/docs/ODFW_2018_Sage-Grouse_Population_Report.pdf
ODFW		2018	Oregon Department of Fish and Wildlife. 2018. Greater Sage-Grouse occupied habitat GIS layer. Available at: http://oregonexplorer.info/content/sagecon-data?topic=203&ptopic=179
ORBIC		2019	Oregon Biodiversity Information Center. 2019. Oregon Biotics Rare Species Database. Maintained by ORBIC at Portland State University, Portland, OR.
Sage-Grouse Conservation Partnership		2015	Sage-Grouse Conservation Partnership. 2015. The Oregon Sage-Grouse Action Plan. Governor's Natural Resources Office. Salem, Oregon. http://oregonexplorer.info/content/oregon-sage-grouse-action-plan?topic=203&ptopic=179

RESOURCES

Oregon Biodiversity Information Center, Institute for Natural Resources
Portland State University, Mail Stop: INR, PO Box 751, Portland, OR 97207-0751 Phone: 503-725-9950

Additional ORBIC species ranking forms posted at
<https://inr.oregonstate.edu/orbic/rare-species/ranking-documentation>

Information on Natural Heritage ranking methodology is available at
<http://www.natureserve.org/biodiversity-science/publications/natureserve-conservation-status-assessments-methodology-assigning>

The Conservation Rank Calculator is developed and maintained by NatureServe and is available from
<http://www.natureserve.org/conservation-tools/conservation-rank-calculator>

ASSESSMENT CITATION

Oregon Biodiversity Information Center. 2019. Oregon state rank assessment for Greater sage-grouse (*Centrocercus urophasianus*). Institute for Natural Resources, Portland State University, Portland, OR.