

6-23-2022

Oregon State Rank Assessment for Moose (*Alces alces*)

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Citation Details

Gaines, Eleanor P., "Oregon State Rank Assessment for Moose (*Alces alces*)" (2022). *Institute for Natural Resources Publications*. 46.

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Natural Heritage Ranking Form - Oregon State Rank

Oregon Ranking Form Moose (*Alces alces*)

Oregon Biodiversity Information Center

SPECIES ASSESSED

Scientific Name *Alces alces*

ELCODE AMALC03020

Common Name **Moose**

Element ID 402329

Wilson, D. E., and D. M. Reeder (editors). 1993. Mammal species of the world: a taxonomic and geographic reference. Second edition. Smithsonian Institution Press, Washington, DC. xviii + 1206 pp. Available online at: <http://www.nmnh.si.edu/msw/>.

CONSERVATION STATUS RANK

Assigned Rank

SNR

Rank Assignment Author E. Gaines

Rank Review Date

Rank Factors Author E. Gaines

Rank Factors Date 06/23/2022

Calculated Rank S3

Rank Change Date

Rank Methodology Used Rank calculation - Biotics v2

Assigned Rank Reasons

Small population size with limited range. However, population has naturally increased in Oregon and is part of larger populations in Idaho and Washington.

RANGE/DISTRIBUTION

Range Extent

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

Estimate 62,000

Unit Used for Estimate Square
Kilometers

Comments Blue Mountains

Grid Cell Size

Rating (as Number of 4 km² Grid Cells)

Comments

ABUNDANCE AND CONDITION

Number of Occurrences

Rating 1 - 20

Comments

Few occurrences

Rating 50 - 1000 individuals

Estimate 60-70

Comments

ODFW estimates 60 individuals in Oregon in 2012 (Matthews 2012). Nadeau et al. (2017) report 70 individuals in Oregon. But individuals in Oregon are part of larger populations in Washington and Idaho.

Number of Occurrences with Good Viability/Ecological Integrity

Rating**Percent of Area with Good Viability/Ecological Integrity****Rating** Excellent percentage (>40%) of area with excellent or good viability**THREATS**

<u>Threat Category Code</u>	<u>Threat Category</u>	<u>Calculated Impact</u>	<u>Scope</u>	<u>Severity</u>	<u>Timing</u>	<u>Comments</u>
8	Invasive & other problematic species, genes & diseases	Unknown	Small: Affects a small proportion (1-10%) of the total population or occurrences or extent	Unknown	Unknown	Carotid worm documented in at least one individual (Matthews 2012); other parasites (Nadeau et al. 2017).

Calculated Overall Threat Impact D = Low**Assigned Overall Threat Impact** D = Low**Overall Threat Impact Comments**

Overall threats appear to be low, but little is known.

TRENDS**Short-Term Trend****Rating** H = Increase of 10-25%**Long-Term Trend****Rating** I = Increase of >25%**Comments**

Moose naturally expanded their range into Oregon from either WA or ID in the late 20th century (Matthews 2012).

RANKING REFERENCES

<u>Short Citation</u>	<u>Author</u>	<u>Year</u>	<u>Full Citation</u>
Matthews		2012	Matthews, P. E. 2012. History and status of moose in Oregon. Alces 48:63-66.

RESOURCESOregon Biodiversity Information Center, Institute for Natural Resources
Portland State University, Mail Stop: INR, PO Box 751, Portland, OR 97207-0751 Phone: 503-725-9950Additional 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**Gaines, Eleanor P. 2022. "Oregon State Rank Assessment for Moose (Alces alces)".
Institute for Natural Resources Publications. Portland State University, Portland, OR.