

Natural Heritage Ranking Form - Oregon State Rank

Oregon Ranking Form Long-eared owl (*Asio otus*)

Oregon Biodiversity Information Center

SPECIES ASSESSED

Scientific Name *Asio otus* ELCODE ABNSB13010
Common Name Long-eared owl Element ID 6546

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 **S3S4**

Rank Assignment Author	E. Gaines	Rank Review Date	3/12/2019
Rank Factors Author	E. Gaines	Rank Factors Date	03/11/2019
Calculated Rank	S3S4	Rank Change Date	03/12/2019
Rank Methodology Used	Rank calculator v.3.1x - 2011-2015 rank factors		

Assigned Rank Reasons

Wide distribution in OR, but according to PIF this species is declining. Relatively low population estimate.

RANGE/DISTRIBUTION

Range Extent

Rating 200,000-2,500,000 square km (about 80,000-1,000,000 square miles)

Comments Occurs almost statewide

Area of Occupancy

Grid Cell Size

Rating (as Number of 4 km² Grid Cells) F = 126-500

Comments Little information on occupancy available. 250 HUCs with confirmed PODs (post-2000) records. This is likely an underestimate.

ABUNDANCE AND CONDITION

Number of Occurrences

Rating Unknown

Comments

Not currently tracked.

Population Size

Rating 250 - 1000 individuals

Comments

PIF (using BBS data) estimates OR population at approx 660 individuals (range 0 -3200).

Good Viability/Ecological Integrity

Number of Occurrences with Good Viability/Ecological Integrity

Rating Unknown

THREATS

Calculated Overall Threat Impact

Assigned Overall Threat Impact CD = Medium - low
Overall Threat Impact Comments

PIF reports moderate threats, but does not specify. Possible threats from pesticide residue

TRENDS

Short-Term Trend

Rating U = Unknown

Comments

PIF reports significant negative population trend, but does not quantify. Declining trends in other states (particularly CA), but no information for OR.

Long-Term Trend

Rating

ADDITIONAL SPECIES INFORMATION

Oregon Habitat Comments

Roost in willow-thickets in fall and winter, often amidst sage-covered slopes in eastern Oregon.

RANKING REFERENCES

<u>Short Citation Author</u>	<u>Year</u>	<u>Full Citation</u>
Bull	2003	Bull, E. 2003. Long-eared Owl (<i>Asio otus</i>). pp 324-326 in <i>Birds of Oregon: A General Reference</i> . D.B. Marshall, M.G. Hunter, and A. L. Contreras, eds. Oregon State University Press, Corvallis, OR.
Marks, Evans, and Holt	1994	Marks, J. S., D. L. Evans, and D. W. Holt. 1994. Long-eared Owl (<i>Asio otus</i>), version 2.0. In <i>The Birds of North America</i> (A. F. Poole and F. B. Gill, Editors). Cornell Lab of Ornithology, Ithaca, NY, USA. https://doi.org/10.2173/bna.133
Partners In Flight	2019	Partners in Flight. 2019. Avian Conservation Assessment Database, version 2019. Available at http://pif.birdconservancy.org/ACAD . Accessed on 03/05/19.
Partners In Flight	2019	Partners in Flight. 2019. Population Estimates Database, version 3.0. Available at http://pif.birdconservancy.org/PopEstimates . Accessed on 05/07/2019.

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 Long-eared owl (*Asio otus*). Institute for Natural Resources, Portland State University, Portland, OR.