

Natural Heritage Ranking Form - Oregon State Rank

Oregon Ranking Form Loggerhead shrike (*Lanius ludovicianus*)

Oregon Biodiversity Information Center

SPECIES ASSESSED

Scientific Name *Lanius ludovicianus*

ELCODE ABPBR01030

Common Name Loggerhead shrike

Element ID 6660

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 **S3B,S2N**

Rank Assignment Author Gaines, Eleanor

Rank Review Date 10/05/2012

Rank Factors Author Gaines, Eleanor

Rank Factors Date 10/05/2012

Calculated Rank S3

Rank Change Date 12/12/2003

Rank Methodology Used Rank calculator v.3.1x - 2011-2015 rank factors

Assigned Rank Reasons

Declines likely associated with loss of shrub-steppe habitat. Uncommon in OR. Susceptable to exposure to pesticides via prey. Range still relatively large.

RANGE/DISTRIBUTION

Range Extent

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

Comments Range = 177,207 sq km via convex hull method

Area of Occupancy

Grid Cell Size

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

Comments Area of occupancy = 262 4-km² grid cells.

ABUNDANCE AND CONDITION

Number of Occurrences

Rating 81 - 300

Comments

Approximately 134 likely EOs based on 5km separation distance and PODs data, less BBA possible records. Not currently tracked.

Population Size

Rating 10,000 - 100,000 individuals

Comments

Population estimate: 40,000 in OR, based on PID landbird population estimator.

Good Viability/Ecological Integrity

Number of Occurrences with Good Viability/Ecological Integrity

Rating Unknown

THREATS

<u>Threat Category</u>						
<u>Code</u>	<u>Threat Category</u>	<u>Calculated Impact</u>	<u>Scope</u>	<u>Severity</u>	<u>Timing</u>	<u>Comments</u>
9	Pollution	CD = Medium - low	Restricted - small	Serious: Likely to seriously degrade/reduce affected occurrences or habitat, or reduce population 31-70%		
2.1	Annual & perennial non-timber crops	D = Low	Restricted: Affects some (11-30%) of the total population or occurrences or extent	Moderate: Likely to moderately degrade/reduce affected occurrences or habitat, or reduce population 11-30%		Loss of shrubby habitat to agriculture
2	Agriculture & aquaculture	D = Low	Restricted: Affects some (11-30%) of the total population or occurrences or extent	Moderate: Likely to moderately degrade/reduce affected occurrences or habitat, or reduce population 11-30%		

Calculated Overall Threat Impact CD = Medium - low

Assigned Overall Threat Impact C = Medium

Overall Threat Impact Comments

Habitat loss to agriculture/annual grasses; susceptible to pesticides from prey.

TRENDS

Short-Term Trend

Rating F = Decline of 10-30%

Comments

BBS data indicate continuing significant declines

Long-Term Trend

Rating EF = Decline of 10-50%

Comments

BBS survey and CBC indicates significant declines throughout range. Significant decline in OR breeding populations. PID species assessment database indicates moderate decrease in population.

ADDITIONAL SPECIES INFORMATION

Oregon Habitat Comments

Juniper and sagebrush steppe; farm lands, uses telephone/power lines as perches.

RANKING REFERENCES

<u>Short Citation Author</u>	<u>Year</u>	<u>Full Citation</u>
Holmes	2003	Holmes, A.L. 2003. Loggerhead Shrike (<i>Lanius ludovicianus</i>). 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. pp 399-400.
NatureServe	2013	NatureServe. 2013. NatureServe Explorer: An online encyclopedia of life [web application]. Version 7.1. NatureServe, Arlington, Virginia. Available http://www.natureserve.org/explorer .
Partners In Flight	2007	Partners In Flight. 2007. Landbird Population Estimates Database. http://rmbo.org/pif_db/laped/default.aspx
Partners In Flight	2012	Partners in Flight. 2012. Species Assessment Database.
Yosef	1996	Yosef, Reuven. 1996. Loggerhead Shrike (<i>Lanius ludovicianus</i>). <i>The Birds of North America Online</i> (A. Poole, Ed.). Ithaca: Cornell Lab of Ornithology; Retrieved from the Birds of North America Online: http://bna.birds.cornell.edu/bna/species/231

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. 2012. Oregon state rank assessment for Loggerhead shrike (*Lanius ludovicianus*).
Institute for Natural Resources, Portland State University, Portland, OR.