Oregon Status Factors

Elcode AMAFF23022

Gname ARBORIMUS LONGICAUDUS SILVICOLA

Gcomname NW RED TREE VOLE

Number of Occurrences

B = 6 - 20C = 21 - 80

Comments An unknown number of occurrences. It has not been seen by the USFS or BLM in Survey and

Manage Species inventories over the last 3 years.

Number of Occurrences with Good Viability

U = Unknown what number of occurrences with good viability

Comments

Population Size

U = Unknown

Comments Total adult population size is unknown.

Range Extent

C = 250-1,000 km2 (about 100-400 square miles)

Comments Extreme northwestern Oregon, in Clatsop, Lincoln and Tillamook Counties.

Area of Occupancy

C = 4-20 km2 (about 1,000-5,000 acres) D = 20-100 km2 (about 5,000-25,000 acres)

LC = 40-200 km (about 25-125 miles) LD = 200-1,000 km (about 125-620 miles)

Comments Distribution is increasingly patchy, with fragmentation of forest habitats.

Long-term Trend in Population Size, Extent of Occurrence, Area of Occupancy, and/or Number or Condition of Occurrences

C = Substantial Decline (decline of 50-75%)

Comments Population trend unknown, but distribution has been reduced because much of its preferred

habitat has been lost and continues to decline due to logging (Corn and Bury 1988, Verts and

Carraway 1998). Localized extirpations are known.

Short-term Trend in Population Size, Extent of Occurrence, Area of Occupancy, and/or Number or Condition of Occurrences

U = Unknown. Short-term trend in population, range, area occupied, and number and condition of occurrences unknown.

Comments

Northwestern extent of range may be exhibiting declines, but area has not been included in recent intensive survey efforts. Habitat is becoming increasingly fragmented rangewide.

Threats

A = Substantial, imminent threat. Threat is moderate to severe and imminent for most (> 60%) of the population, occurrences, or area. Ecological community occurrences are directly impacted over a widespread area, either causing irreversible damage or requiring long term recovery

Scope High Severity Moderate Immediacy High

Comments

Threats include loss of preferred old-growth forest habitat and forest fragmentation by clear-cutting practices (Verts and Carraway 1998, Thomas et al. 1993). Habitat is becoming increasingly fragmented rangewide.

Number of Appropriately Protected and Managed Occurrences

U = Unknown whether any occurrences are appropriately protected and managed

Comments Basic life history information and habitat requirements, including minimum patch size of suitable habitat to maintain colony, are not currently known (Verts and Carraway 1998).

Intrinsic Vulnerability

B = Moderately Vulnerable. Species exhibits moderate age of maturity, frequency of reproduction, and/or fecundity such that populations generally tend to recover from decreases in abundance over a period of several years (on the order of 5-20 years or 2-5 generations); or species has moderate dispersal capability such that extirpated populations generally become reestablished through natural recolonization (unaided by humans). Ecological community occurrences may be susceptible to changes in composition and structure but tend to recover through natural processes given reasonable time (10-100 years).

Comments

Species disperses slowly and with limited capabilities; low reproductive rate (C. Maser personal commication). Early seral stage forests may be a barrier to dispersal.

Environmental Specificity

B = Narrow. Specialist or community with key requirements common.

Comments Optimum habitat is wet and mesic old-growth Douglas-fir forest.

Other Considerations

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Greasons

Restricted distribution; prefers old-growth forest habitats that are being eliminated and fragmented by large scale timber harvesting.

BCD Sources

Hayes, J. P. 1996. ARBORIMUS LONGICAUDUS. Mammalian Species 532:1-5.

Thomas, J. W., et al. 1993. Viability assessments and management considerations for species associated with late-successional and old-growth forests of the Pacific Northwest. The report of the Scientific Analysis Team. USDA Forest Service, Spotted Owl EIS Team, Portland Oregon. 530 pp.

Verts, B. J., and L. N. Carraway. 1998. Land mammals of Oregon. University of California Press, Berkeley. xvi +

668 pp.

New Sources

Corn, P. S., and R. B. Bury. 1988. Distribution of the voles ARBORIMUS LONGICAUDUS and PHENACOMYS INTERMEDIUS in the central Oregon Cascades. J. Mamm. 69:427-29.

Jones, C., et al. 1997. Revised checklist of North American mammals north of Mexico, 1997. Occasional Papers, Museum of Texas Tech University (173):1-19.