

Heritage Ranking Form - Global Rank

Scientific Name: Astragalus applegatei

Common Name: Applegate's Milkvetch

Classification: Vascular Plant

Range Extent: B = 100-250 sq km (~40-100 sq mi)

Found only in Lower Klamath Basin, e.g., near the city of Klamath Falls, in Klamath County, Oregon. Perhaps in adjacent Siskiyou County, California ('to be sought', Barneby 1964). 135 sq m calculated by convex hull.

Population Size: F = 10,000 - 100,000 individuals

Comments: From surveys in 2000s, population is about 33,000 but this number may not be stable.

Number of

Occurrences: B = 6 - 20

Comments: 7 extant populations using 1 km separation distance.

Area of Occupancy: D = 6-25 4-km² grid cells

Comments: 11 4km² grid cells occupied with extant populations.

Good Viability: B = Very few (1-3) occurrences with excellent or good viability or ecological integrity

Comments: 2 populations with good/excellent viability using 1 km separation distance.

Environmental

Specificity: Not Evaluated

Comments: None

Short Term Trends: U = Unknown

Comments: Population counts seem to fluctuate widely.

Long Term Trends: DF = Decline of 10 - 70%

Comments: The range of this species has been heavily impacted by habitat change due to rural development and agriculture.

Threat Impact: A = Very High

Comments: Habitat altered by agriculture and urban development; rabbit grazing; invasive exotic plants; insect usage; lack of flooding. Calculated as highly vulnerable to climate change.

Intrinsic Vulnerability: Not Evaluated

Comments: Unknown.

Heritage Rank: G1

Comments: Limited range with a small number of extant populations. Threatened from fragmentation and loss of habitat, potential development and road construction, elimination of the natural seasonal flooding regime along the floodplains supporting the species, suppression of fire, invasive exotic plants, and insect usage. Two sites are threatened by rabbit grazing.

Rank Notes: None

Reference: None

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