

Oregon Status Factors

Elcode PDASTEC0A0
Gname EUCEPHALUS VIALIS
Gcomname Wayside aster

Number of Occurrences

C = 21 - 80
D = 81 - 300

Comments There are 76 known occurrences in Oregon. More sites may exist in the Siskiyou Mountains than has been currently reported.

Number of Occurrences with Good Viability

C = Few (4-12) occurrences with good viability

Comments Of the 76 known Oregon occurrences, 7 have plant numbers greater than 300 with one population having over 1200 plants.

Population Size

E = 2,500-10,000 individuals

Comments Total plant number is about 7000.

Range Extent

E = 5,000-20,000 km² (about 2,000-8,000 square miles)

Comments Eucaphalus vialis is found in western Oregon, from Linn County south to Jackson County.

Area of Occupancy

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

LC = 40-200 km (about 25-125 miles)

Comments Total occupied acres is estimated at 4500 acres.

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

E = Relatively Stable ($\pm 25\%$ change)

Comments This plant seems to tolerate slight disturbance, and may prefer open to semi-shade. Plants growing under closed canopy appear less vigorous and robust. In areas that have human disturbance, roadsides, gardens etc., populations appear to expand and will probably be shaded out.

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

E = Stable. Population, range, area occupied, and/or number or condition of occurrences unchanged or remaining within $\pm 10\%$ fluctuation

Comments This plant seems to tolerate slight disturbance, and may prefer open to semi-shade. Plants growing under closed canopy appear less vigorous and robust. In areas that have human disturbance, roadsides, gardens etc., populations appear to expand and will probably be shaded out.

Threats

G = Slightly threatened. Threats, while recognizable, are of low severity, or affecting only a small portion of the population, occurrences, or area. Ecological community occurrences may be altered in minor parts of range or degree of alteration falls within the natural variation of the type.

Scope Low **Severity** Low **Immediacy** Low

Comments This species seems to tolerate slight disturbance. It is often found growing along roadsides and quite well in at least one person's backyard. However, it is vulnerable to roadside herbicide use.

Number of Appropriately Protected and Managed Occurrences

B = Few (1-3) occurrences appropriately protected and managed

Comments Three populations are known to occur in protected areas, 1 at a Nature Conservancy Preserve, and 2 in two different Research Natural Areas. None of these populations were large and none of the protected areas are believed to be specifically managed for this species.

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

Environmental Specificity

C = Moderate. Generalist or community with some key requirements scarce.

Comments This aster grows in openings and near edges of mixed forests, usually of Douglas-fir (*Pseudotsuga menziesii*), oak (*Quercus garryana*, *Q. kelloggii*, or *Q. chrysolepis*), madrone (*Arbutus menziesii*), and tanoak (*Lithocarpus densiflora*) in the southern populations. It also appears to be dependent on small disturbances, either natural or man-made (Gamon 1986).

Other Considerations

ORNHIC List 1

Edition 11/19/2002 **Edauthor** Vrilakas, Sue

Grank S3 **Grank Date** 11/19/2002

Reasons

This species' range is limited to southwestern Oregon. There are 77 known occurrences, with an approximate total of 7000 plants. Three small populations are located in protected areas, but none are specifically managed for this species. It is on ORNHIC's List 1 (2001), taxa considered endangered or threatened throughout range.

BCD Sources

New Sources

Gamon, John. 1986. Status report for *Aster vialis*. Draft report written by Oregon Natural Heritage Data Base [Oregon Natural Heritage Information Center] for U.S. Fish and Wildlife Service. 37 pp.

Oregon Natural Heritage Program [Information Center]. 2001. Rare, threatened and endangered plants and animals of Oregon. Oregon Natural Heritage Program, Portland, OR. 94 pp.