

Heritage Ranking Form - Global Rank

Scientific Name: *Colias christina sullivan*

Common Name: Sullivan's sulphur

Classification: Invertebrate Animal

Range Extent: F = 20,000-200,000 sq km (~8,000-80,000 sq mi)

Comments: Range extent = approx 23,500 sq km based on records from OR, Northern Washoe Co NV, and Payette and Gem Cos ID.

Area of Occupancy: F = 126-500 4-km² grid cells

Comments: Most occurrences in OR; 1 isolated population in Washoe Co NV. Also found in foothill canyons of Payette and Gem Cos ID. Approx 200 4km² sq grid cells rangewide.

Number of Occurrences: B = 6 - 20

Comments: Approx 9 EOs (exact number of EOs in ID unknown).

Population Size: EF = 2500 - 100,000 individuals

Comments: Population size outside OR unknown. Several thousand at type locality, at other OR sites it is moderately abundant to rare.

Good Viability: BC = Very few to few (1-12) occurrences with good viability

Comments: Only one population in OR with good viability. Threatened by grazing at most sites. Status of sites in ID unknown, but likely threatened by grazing.

Environmental Specificity: BC = Narrow to moderate

Comments: Restricted to *Lathyrus rigidus* for larval foodplant. *L. rigidus* has a local and narrowly restricted distribution, but can be abundant, esp in areas with past fires.

Short Term Trends: U = Unknown

Comments: None

Long Term Trends: U = Unknown

Comments: Only recently described (2003), so long term trend unknown.

Threat Impact: B = High

Comments: grazing, fire suppression

**Intrinsic
Vulnerability:** Not Evaluated

Comments: None

Heritage Rank: T2T3

Comments: All indicators are at low end of range. Requires a narrowly distributed food plant that is vulnerable to grazing. Limited distribution. Very limited information available for populations outside OR.

Rank Notes: None

Reference or Notes: Hammond P. and D.V. McCorkle. 2003. A new desert subspecies of *Colias occidentalis* (Pieridae) from southeastern Oregon. *Journal of the Lepidopterists' Society*. 57(4): 274-278. | Paul Hammond, Dana Ross, David McCorkle, pers com. See emails in ORBIC element file.

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Rank Author: E Gaines

Oregon Biodiversity Information Center
Institute for Natural Resources
Portland State University
Mail Stop: INR, PO Box 751
Portland, OR 97201-0751
503-725-9950
www.orbic.pdx.edu