

Heritage Ranking Form - State Rank

Scientific Name: *Colias christina sullivan*

Common Name: Sullivan's sulphur

Classification: Invertebrate Animal

Range Extent: DE = 1000-20,000 sq km (~400-8000 sq miles)

Comments: 4586 sq km in OR. Per Hammond, has not been found elsewhere in OR (searches conducted in Grant, Union, Baker Cos.

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

Comments: 150 4km sq grid cells .

Number of Occurrences: B = 6 - 20

Comments: 6 known occurrences

Population Size: E = 2,500 - 10,000 individuals

Comments: 2002: several thousand at type locality. At other sites, butterflies were moderately abundant to very rare. Hammond & McCorkle 2003.

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

Comments: Abundant at type locality. All other known sites are moderately abundant to quite rare. . Hammond & McCorkle 2003.

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, so long term trend unknown.

Threat Impact: B = High

Comments: grazing, fire suppression

**Intrinsic
Vulnerability:** Not Evaluated

Comments: None

Heritage Rank: S2

Comments: All indicators are at low end of range. Requires a narrowly distributed food plant that is vulnerable to grazing. Limited distribution.

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 element file.

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