

Level 4 Potential Conservation Area (PCA) Report

Name Redcloud Peak

Site Code S.USCOHP*131

IDENTIFIERS

Site ID 291 Site Class PCA
Site Alias None

Network of Conservation Areas (NCA)

| <u>NCA Site ID</u> | <u>NCA Site Code</u> | <u>NCA Site Name</u> |
|--------------------|----------------------|----------------------|
| - | | No Data |

LOCATORS

Nation United States Latitude 375647N
State Colorado Longitude 1072440W

Quad Code Quad Name
37107-H4 Redcloud Peak

County
Hinsdale (CO)

Watershed Code Watershed Name
14020002 Upper Gunnison

SITE DESCRIPTION

| | | |
|-------------------|----------------|-----------------|
| Minimum Elevation | 12,000.00 Feet | 3,658.00 Meters |
| Maximum Elevation | 13,800.00 Feet | 4,206.00 Meters |

Site Description

This site contains two Uncompahgre fritillary (*Boloria improba acrocneuma*) colonies (Redcloud and Alpine Gulch) which are separated by a high alpine ridge and a distance of about 1.25 miles (two adjacent alpine bowls comprise this site). This site has minimum elevation of 12,000 ft, and tops out at approximately 13,800 ft. The boundary encompasses all north through east aspects above 12,000 feet found within each of the bowls mentioned above. Vegetation is of varying composition, with large patches of *Salix nivalis* present on coarse, rocky soils. Other plants species of concern with regard to the butterfly found in the site: *Trifolium* spp., *Silene acaulis*, and *Geum rosii*. To date, the site contains the largest known colony of *B. improba acrocneuma*.

Key Environmental Factors

No Data

Climate Description

No Data

Land Use History

No Data

Cultural Features

No Data

SITE DESIGN

Site Map Y - Yes Mapped Date 06/25/1991
Designer Ellingson, A.R.

Boundary Justification

The boundary is intended to adequately protect areas currently occupied by *Boloria improba acrocneuma* as well as immediately adjacent areas of suitable habitat which have potential for colonization. The boundary encompasses all north through east aspects above 3,658 m (12,000 ft.) found within each of the bowls mentioned above. The long-term persistence of the Redcloud and AG2 populations will be favored by the protection of an area larger than that which is occupied by the colonies in any one year. Thus, this boundary encompasses an area that includes both colonies as well as the points of individual sightings outside of known colonies and in suitable habitat. Observations of *B. improba acrocneuma* on other habitat patches (Brussard and Britten 1989, Gall 1984) suggest that dispersal, and potentially colonization, may be a process important to the population's viability. Habitat heterogeneity (a habitat component enhanced by a large protected area) may also be related to long-term persistence in butterflies (Ehrlich and Murphy 1987).

Primary Area 2,628.21 Acres 1,063.60 Hectares

SITE SIGNIFICANCE

Biodiversity Significance Rank B2: Very High Biodiversity Significance

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Biodiversity Significance Comments

This site contains an excellent (A-ranked) occurrence of the globally critically imperiled (G5T1/S1) Uncompahgre fritillary (*Boloria improba acrocneuma*). The occurrence includes two colonies of the Uncompahgre fritillary which are separated by a high alpine ridge and an airline distance of about 2.1km (1.25 miles).

Other Values Rank No Data

Other Values Comments

No Data

LAND MANAGEMENT ISSUES

Land Use Comments

No Data

Natural Hazard Comments

No Data

Exotics Comments

No Data

Offsite

No Data

Information Needs

No Data

ASSOCIATED ELEMENTS OF BIODIVERSITY

| <u>Element</u> | | | <u>Global</u> | <u>State</u> | <u>Driving</u> |
|-----------------|-----------------------------------|--------------------------|---------------|--------------|------------------|
| <u>State ID</u> | <u>State Scientific Name</u> | <u>State Common Name</u> | <u>Rank</u> | <u>Rank</u> | <u>Site Rank</u> |
| 18698 | <i>Boloria improba acrocneuma</i> | Uncompahgre Fritillary | G5T1 | S1 | Yes |

REFERENCES

| <u>Reference ID</u> | <u>Full Citation</u> |
|---------------------|--|
| 168096 | Brussard, P. F. and H. Britten. 1989. The Status of the Uncompahgre Fritillary BOLORIA ACROCNEMA. Final Report. Department of Biology, Montana State University, Bozeman, Montana. |
| 158500 | Gall, L.F. 1984. Population structure and recommendations for conservation of the narrowly endemic alpine butterfly BOLORIA ACROCNEMA (Lepidoptera:Nymphalidae). Biological Conservation 2:(1984) 111-138. |

ADDITIONAL TOPICS

Additional Topics

No Data

VERSION

Version Date 06/25/1991
Version Author Ellingson, A.R.

Disclaimer

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