

Level 4 Potential Conservation Area (PCA) Report

Name Boss Lake Reservoir

Site Code S.USCOHP*27557

IDENTIFIERS

Site ID 2566 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 383327N
State Colorado Longitude 1061923W

Quad Code Quad Name

38106-E3 Garfield

County

Chaffee (CO)

Watershed Code Watershed Name

11020001 Arkansas Headwaters

SITE DESCRIPTION

Minimum Elevation	10,000.00 Feet	3,048.00 Meters
Maximum Elevation	11,400.00 Feet	3,474.72 Meters

Site Description

Boss Lake Reservoir is located at the base of Bald Mountain (12,856 ft.) and forms the headwaters of the South Arkansas River. The earthen dam was completed in 1894. The reservoir is in a basin surrounded by Banana Mountain (12,329 ft.) and Syncline Hill (11,404 ft.) to the south and Clover Mountain (12,955 ft.) to the north. The upland vegetation is dominated by Engelmann spruce (*Picea engelmannii*), lodgepole pine (*Pinus contorta*), and narrowleaf cottonwood (*Populus angustifolia*) around the reservoir. The soils are gravelly and are derived from granite.

Key Environmental Factors

No Data

Climate Description

The site receives an average of 300 days of sunshine each year. A typical summer day is sunny, in the high 70's to low 80's with evening temperatures in the high 40's and low 50's. Annual rainfall is 10.15" and annual snowfall is 30.4" with most snow occurring from the end of October through April.

Land Use History

Recreational fishing for brook and cutthroat trout in Boss Lake Reservoir.

Cultural Features

No Data

SITE DESIGN

Site Map Y - Yes Mapped Date 01/16/2009

Designer Culver, D.R.

Boundary Justification

The boundary encompasses the immediate watershed of Boss Lake Reservoir up to the Continental Divide including Hunt Lake and several unnamed lakes. This boundary is drawn to protect the hydrology of the site and potential habitat for the rare elements.

Primary Area 293.16 Acres 118.64 Hectares

SITE SIGNIFICANCE

Biodiversity Significance Rank B3: High Biodiversity Significance

Biodiversity Significance Comments

This site supports a good (B-ranked) occurrence of the globally vulnerable (G3/S3) reflected moonwort (*Botrychium echo*) and an extant occurrence of the state imperiled (G5/S2) least moonwort (*Botrychium simplex*).

Other Values Rank No Data

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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>
20475	<i>Botrychium echo</i>	reflected moonwort	G3	S3	Yes
22022	<i>Botrychium simplex</i>	least moonwort	G5	S2	No

REFERENCES

<u>Reference ID</u>	<u>Full Citation</u>
198290	Culver, D.R., D. Malone, S.L. Neid, and J. Handwerk. 2009. Final Report: Survey of Critical Biological Resources in Chaffee County. Colorado Natural Heritage Program, Fort Collins, CO.

ADDITIONAL TOPICS

Additional Topics

No Data

VERSION

Version Date	01/16/2009
Version Author	Culver, D.R.

Disclaimer

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