

CNHP Tools and Resources

Jessica Smith

Colorado Natural Heritage Program

20th Annual Rare Plant Symposium

Adams State University, Alamosa, CO

September 22, 2023



CNHP Online Rare Plant Guide



COLORADO RARE
PLANT GUIDE

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Close up of *Astragalus deterior* by Lynn Moore.

Collaborations & Partnerships



Environmental Protection Agency



Colorado Parks & Wildlife



CDOT



NatureServe



U.S. Forest Service



Bureau of Land Management



Colorado Natural Areas Program

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<https://cnhp.colostate.edu/rareplant/>



CNHP Online Rare Plant Guide



CNHP Tracked Vascular Plant Species

[Click Here](#) to see the online document that explains the ranking criteria as found in the table below. Last updated October, 2022.

Filters:

Major Group: 1 selected | Global Rank: --All-- | State Rank: --All--

Status: --All-- | CNHP Tracking Status: --All--

Wetland-related only Colorado Endemic CNHP Sensitive Element

Elements with State Profile

The spatial filters below are based on current and historical CNHP element occurrence and observation locations, and not known distributions documented in the literature.

Major River Basin: --All-- | River Subbasin: --All-- | County: --All--

Elements without Spatial Information

Filter Tracking List Clear Filter Download

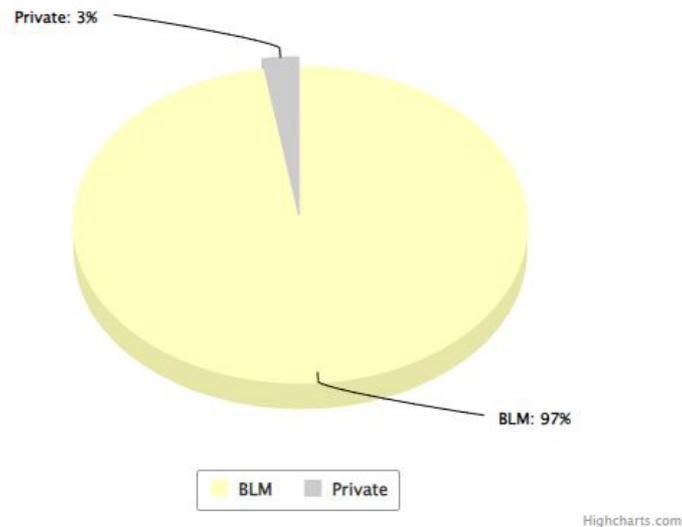
(You are viewing 619 of 1894 Elements)

Show 10 entries Search: Aletes

Major Group	State Scientific Name	Common Name	Global Rank	State Rank	ESA Status	CO Status	Other Status	CNHP Tracking Status
Vascular Plants	<i>Aletes anisatus</i>	Rocky Mountain Aletes	G3G4	S354	-	-	-	Watchlisted Only
Vascular Plants	<i>Aletes humilis</i>	Larimer Aletes	G2G3	S253	-	-	SWAP Tier 2	Fully Tracked
Vascular Plants	<i>Aletes macdougalli</i> ssp. <i>breviradiatus</i>	Mesa Verde Aletes	G3T2T3	S1	-	-	SWAP Tier 2	Fully Tracked

Rare plant guide

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Distribution in Colorado by land status (COMaP v20211005)

Threats and Management Issues

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Parts of one occurrence are within a BLM Special Management Area. Livestock grazing impacts have altered vegetation and soil hydrology at another site. Another occurrence mentions roads, some in potential oil and gas development areas. Rangeland motorized recreation and livestock grazing are a concern, as is competition from invasive plant species such as *Bromus tectorum* and *Eremopyrum triticeum* (CNHP 2022). This species is also considered to be extremely vulnerable to climate change (Handwerk et al. 2015).

4,000 - 5,088 feet (1,420 - 1,551 meters)



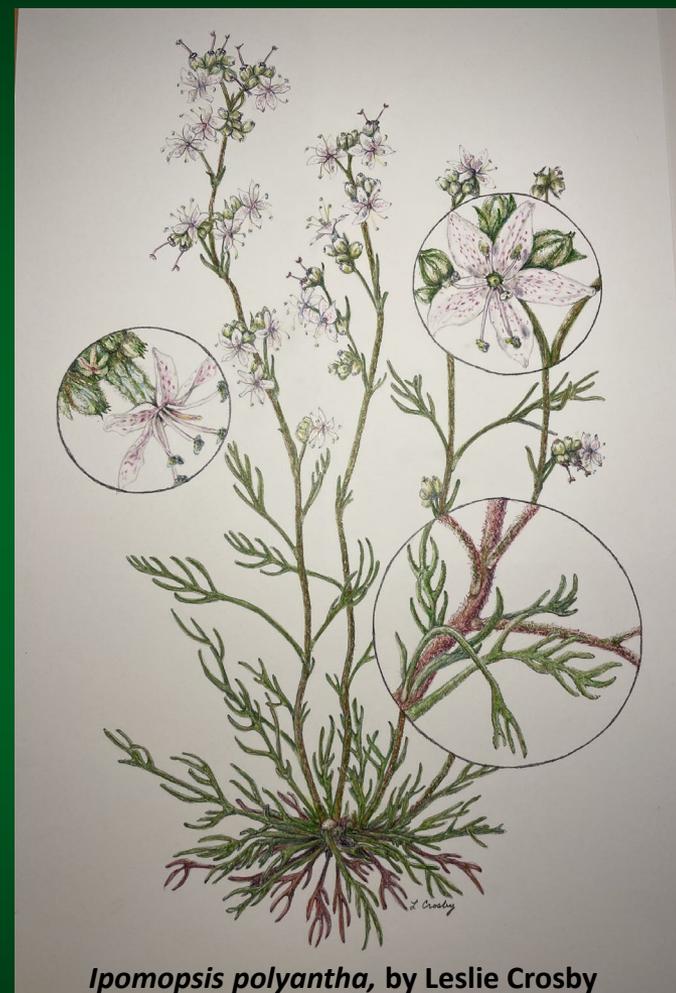
CNHP Online Rare Plant Guide

- 171 species with new format profiles
- 87 species with 1997 format profile only
- * Ultimate Goal: All tracked vascular plants

- Coming this fall: G1 – G3 species of interest
 - *Erigeron abajoensis*
 - *Hackelia besseyi*
 - *Hoffmannseggia repens*
 - *Mentzelia lagarosa*
 - *Senecio inexpectatus*
 - *Solidago capulinensis*

- All maps refreshed
- 50 new photographs & new illustrations

- We would love to add your photo to the guide!



Ipomopsis polyantha, by Leslie Crosby



CNHP Online Rare Plant Guide - Research Login



COLORADO RARE
PLANT GUIDE

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Research information

[Add new](#)

Show entries

Search:

Org.	Research Need	DateUpdated
 CNHP	Rare Plant Symposium 2019 - Allison Vendramel, USFWS: Western State is still doing surveys but nothing new so far. This listing package is sitting in our HQ office in DC going through surname process with an anticipated publish date of December 2019. Robin Bingham, Western State: In 2019, we started a project (looked at 7 populations?); populations had 500 - up to 1000 individuals at the sites; Good year, young plants, plants flowered; they collected some seed and hope to do a seed bank study. Tom Grant has encouraged us to donate seed to state germplasm repository. Rebecca Hufft, DBG: Continuing 24 years of demographic study. Germination studies to understand longevity of seeds; collected tissue for genetic work; good year for species; revisited one private land population, between Cebolla Creek and South Beaver Creek, and it looked good.	01-04-2023
 CNHP	Rare Plant Symposium 2018 - Jill Handwerk: Undergoing SSA, which should be done this fall, and due for listing decision 2019 at earliest, maybe 2020; DBG is doing monitoring on this species, results presented later today. Brian Elliot: One of the populations is bisected by transmission line and that should be added to EO. Carol Dawson: SSA hopefully peer-reviewed soon.	12-30-2022
 CNHP	Rare Plant Symposium 2017 - Jill Handwerk: DBG and BLM have been monitoring it. Michelle DePregner-Levin: Lots of new juveniles and robust plants. Population looks to be picking back up from past downward trends; not a lot of browsing. Susan Spackman-Panjabi: Was <i>P. rollinsii</i> there, too? Michelle DePrenger-Levin: In past years we have seen it. Susan Spackman-Panjabi: We would like to document that.	05-01-2018
 CNHP	Rare Plant Symposium 2016 - Michelle DePrenger-Levin: We've been monitoring 6 sites in South Beaver Creek and Cebolla Creek. Populations are recovering but are still greatly diminished from the 2013 drought conditions. Gay Austin: We found a new EO at Hartman Rocks where we helped to avoid harming individuals with a trail reroute. Delia Malone: I looked for new populations but did not find any. I updated known sites.	04-05-2017
 CNHP	Rare Plant Symposium 2015 - Michelle DePrenger-Levin: I've been visiting often this year for monitoring. We have seen the spindly plants resprout throughout the summer after browsing. There are two new populations on BLM land that Gay found this year. We have been monitoring this species for 20 years. We took down fencing around our plots.	04-04-2017

Location of collection: N/A

Where collection is held/deposited : NCGRP #461471

<https://cnhp.colostate.edu/rareplant/>

CODEX

- Colorado Conservation Data Explorer

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Switch Basemap | Add Resources | Create Project | ROI Report

Find address or place

Layers | Make a Map | Feature Search

Reference Layers

- Parcels by County
- Cities and Counties
- Transportation
- Trails
- Public Land Survey System (GCDB)

Species and Habitats

- CNHP Rare Species & Communities (Private)
- CNHP Rare Species & Communities (Public)
- CNHP Species Range Maps (Public)
- CNHP Models (Partner)
- Larimer Aletes (*Aletes humilis*)
- Canyonlands Aletes (*Aletes latilobus* (Lomatium))
- Mesa Verde Aletes (*Aletes maccougallii* ssp. b.)
- Stonecrop Gillia (*Aliciella sedifolia*)
- Alcove Death Camas (*Anticlea vaginatus* (Zigadenaceae))
- Dwarf Milkweed (*Asclepias uncialis*)
- Gunnison Milkvetch (*Astragalus anisus*)
- Cronquist's Milkvetch (*Astragalus cronquistii*)
- DeBeque Milkvetch (*Astragalus debequaeus*)
- Horseshoe Milkvetch (*Astragalus desperatus*)

Scale: 1:2,311,162
Latitude: 41.3538, Longitude: 103.6844

Esri, USGS | Esri, HERE, Garmin, FAO, NOAA, USGS, EPA, NPS

<https://codex.cnhp.colostate.edu/>



Models in CODEX

- PGCN Models in CODEX
 - Viewable with signed data sharing agreement
 - Returned in Environmental Review
- Full probability models
 - Available with signed data sharing agreement
- Request for your negative survey data using models
- <https://cnhp.colostate.edu/library/reports/>



Floristic Quality Assessment Species List



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site. Generally, 1–19 is low quality, 20–35 is high quality, and above 35 is exceptional.

How to use the Floristic Quality Assessment

Anyone can use the FQA method. The method is more commonly used in wetland environments, but it is equally applicable across all ecosystems. C-values for Colorado species were assigned by a panel of botanical experts in 2006 and updated in 2020. CNHP has developed an FQA Calculator that can be used to calculate FQA indices from any plant list. See links below to read the FQA reports, download the Colorado FQA database, or use the [Colorado FQA Calculator](#). The Colorado FQA database is also available on the [Universal FQA Calculator](#), an open-source web tool that includes FQA databases from across the United States.

i Read the Colorado FQA Reports and access the Colorado FQA Database

- ✔ [Revision of Colorado's Floristic Quality Assessment Indices \(2020\)](#)
- ✔ [Floristic Quality Assessment Indices for Colorado Plant Communities \(2007\)](#)
- ✔ [Description and calculation of Floristic Quality Assessment indices](#)
- ✔ [Download the Colorado FQA Database](#)
- ✔ [Access the Colorado FQA Calculator](#)

[https://cnhp.colostate.edu/cwic/condition/ecological/
#Level3Assessment](https://cnhp.colostate.edu/cwic/condition/ecological/#Level3Assessment)





Floristic Quality Assessment Species List

C = coefficient of conservatism

USDA Symbol

Family

Scientific Name

C Value

Native Status

Noxious Status

Wetland Indicator Status

CNHP Tracking Status (out of date)

USDA Major Group and Category

USDA Growth Habitat and Duration

USDA Drought Tolerance

USDA Shade Tolerance

Bloom Period

Ackerfield and Weber Synonym





Thank you!

Jessica Smith

jp.smith@colostate.edu

