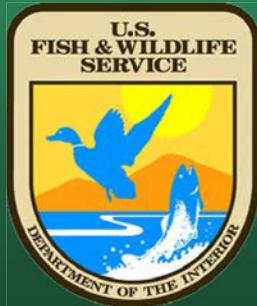
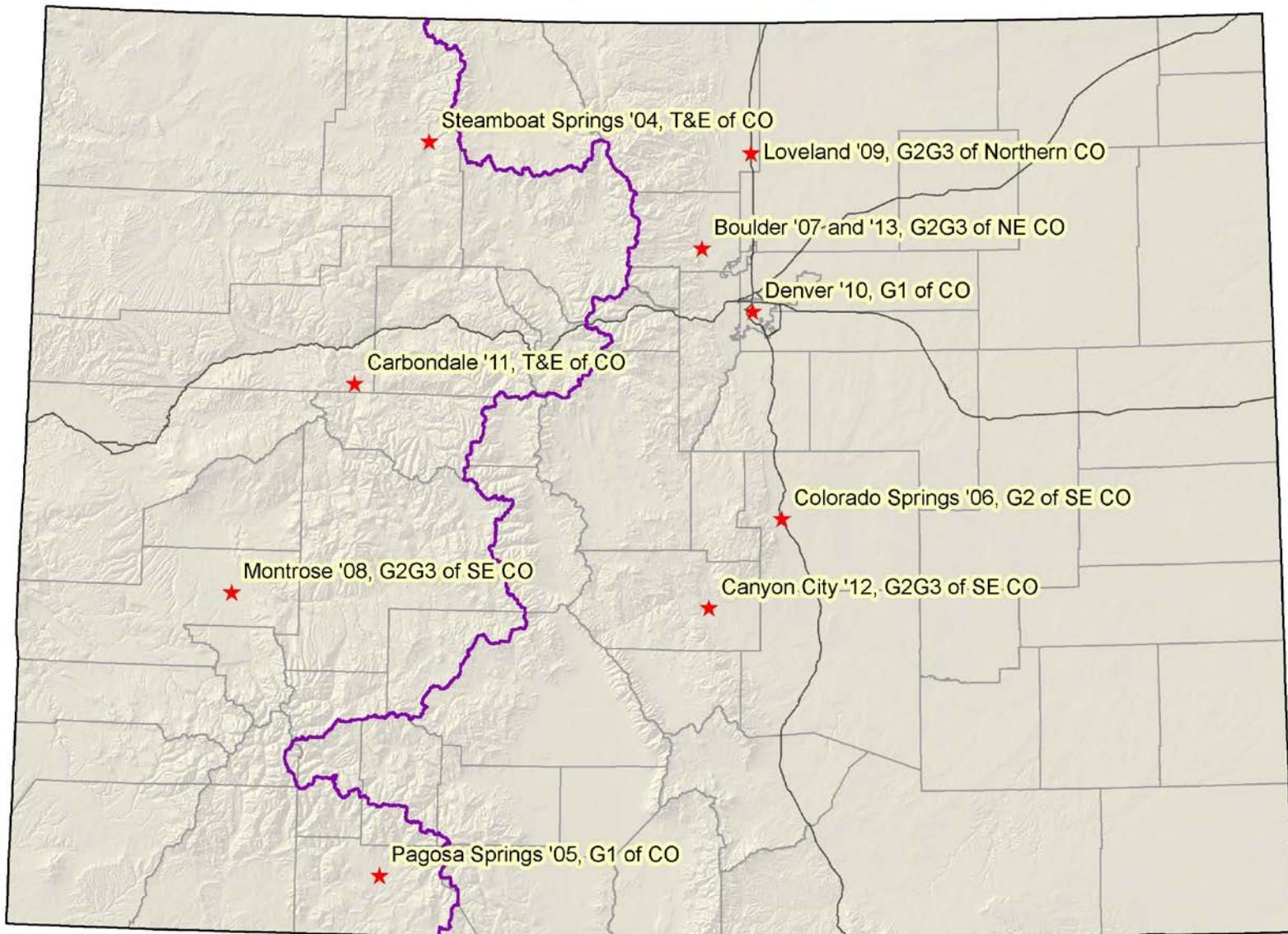


The Colorado Rare Plant Technical Committee presents:
10th Annual
Colorado Rare Plant Symposium
September 27, 2013
Boulder, Colorado

Sponsored by:
Colorado Native Plant Society
US Fish and Wildlife Service
Colorado Natural Heritage Program
USDA Forest Service
University of Colorado Herbarium





Species lists from current and previous years

2004/2011 - T & E Species Statewide

Astragalus humillimus
Astragalus osterhoutii
Astragalus tortipes
*Botrychium lineare**
Eriogonum pelinophilum
Eutrema edwardsii ssp *penlandii*
Ipomopsis polyantha
Lesquerella congesta
Oenothera coloradensis ssp *coloradensis*
Pediocactus knowltonii
Penstemon debilis
*Penstemon grahamii**
Penstemon penlandii
Penstemon scariosus var *albifluvis*
Phacelia formosula
Phacelia submutica
Physaria obcordata
Sclerocactus glaucus
Sclerocactus mesae-verdae
Spiranthes diluvialis

2005/2010 - G1 Species Statewide

Aletes latilobus
Aliciella sedifolia
Astragalus deterior
Astragalus lonchocarpus var. *hamiltonii*
*Astragalus microcymbus**
*Astragalus schmolliae**
Boechera glareosa
Botrychium tax. nov. “*furcatum*”
Cirsium scapanolepis
Corispermum navicula
Cryptantha gypsophila
Descurainia kenhei
Draba malpighiacea
Draba weberi
Erigeron wilkenii
Eriogonum brandegeei
Gutierrezia elegans
Hackelia gracilenta
Lygodesmia doloresensis
Mimulus gemmiparus

Oreoxis humilis
Penstemon gibbensii
Physaria pulvinata
Physaria scrotiformis

**2006/2012 - G2 Species
SE Colo**

Asclepias uncialis ssp. *uncialis*

Cleome multicaulis

Delphinium ramosum var. *alpestre*

Delphinium robustum

Draba exunguiculata

Draba grayana

Draba smithii

Grindelia inornata

Herrickia horrida

Lesquerella calcicola

Nuttallia chrysantha

Nuttallia densa

Oenothera harringtonii

Oonopsis foliosa var. *monocephala*

Oonopsis pueblosensis

Oxybaphus rotundifolius

Penstemon degeneri

Ptilagrostis porteri

Telesonix jamesii

**2007/2013 - G2G3 Species
NE Colo**

Aletes humilis

Aletes nuttallii

Aquilegia saximontana

Astragalus sparsiflorus

Bolophyta alpina

Carex oreocharis

Draba crassa

Draba globosa

Draba streptobrachia

Eriogonum exilifolium

Heuchera hallii

Nuttallia sinuata

Nuttallia speciosa

Oonopsis wardii

Phacelia denticulata

Physaria bellii

Potentilla ambigens

Potentilla rupincola

Sisyrinchium pallidum

**2008 - G2G3 Species
SW Colo**

Astragalus anisus
Astragalus cronequistii
Astragalus equisoltensis
Astragalus iodopetalus
Astragalus naturitensis
Astragalus piscator
Astragalus rafaelensis
Boechera crandallii
Camissonia eastwoodiae
Castilleja puberula
Cirsium perplexans
Draba graminea
Erigeron kachinensis
Eriogonum clavellatum
Eriogonum coloradense
Lepidium crenatum
Lesquerella pruinosa
Lesquerella vicina
Lomatium concinnum

Lupinus crassus
Machaeranthera coloradoensis
Oreocarya osterhoutii
Physaria alpina
Physaria rollinsii
Puccinellia parishii
Salix arizonica
Thelypodopsis juniperorum
Townsendia glabella
Townsendia rothrockii

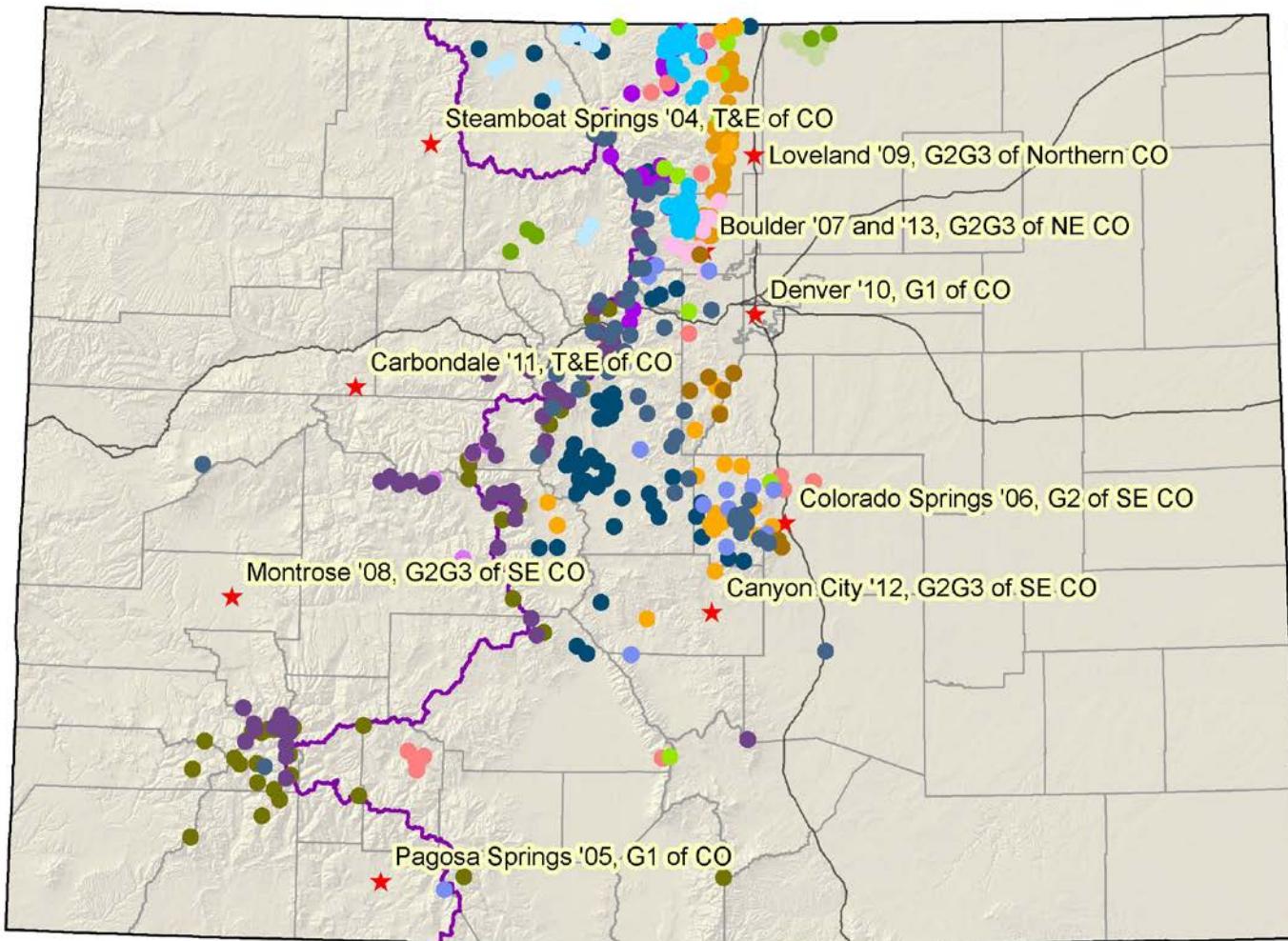
**2009 - G2G3 Species
North & Central Colo**

Anticlea vaginatus
Astragalus debequaeus
Carex stenoptila
Ipomopsis aggregata ssp. *weberi*
Ipomopsis globularis
Lesquerella parviflora
Limnorchis zothecina
Mentzelia rhizomata
Mertensia humilis
Oenothera acutissima
Oxytropis besseyi var. *obnapiformis*
Penstemon fremontii var. *glabrescens*
Penstemon scariosus var.
cyanomontanus
Saussurea weberi
Thalictrum heliophilum
Thelypodium paniculatum

Review of Previous Meetings

Colorado Rare Plant Symposia
NE Colorado G2-G3 (2007)
Statewide T,E&C (2004/2011)





Legend

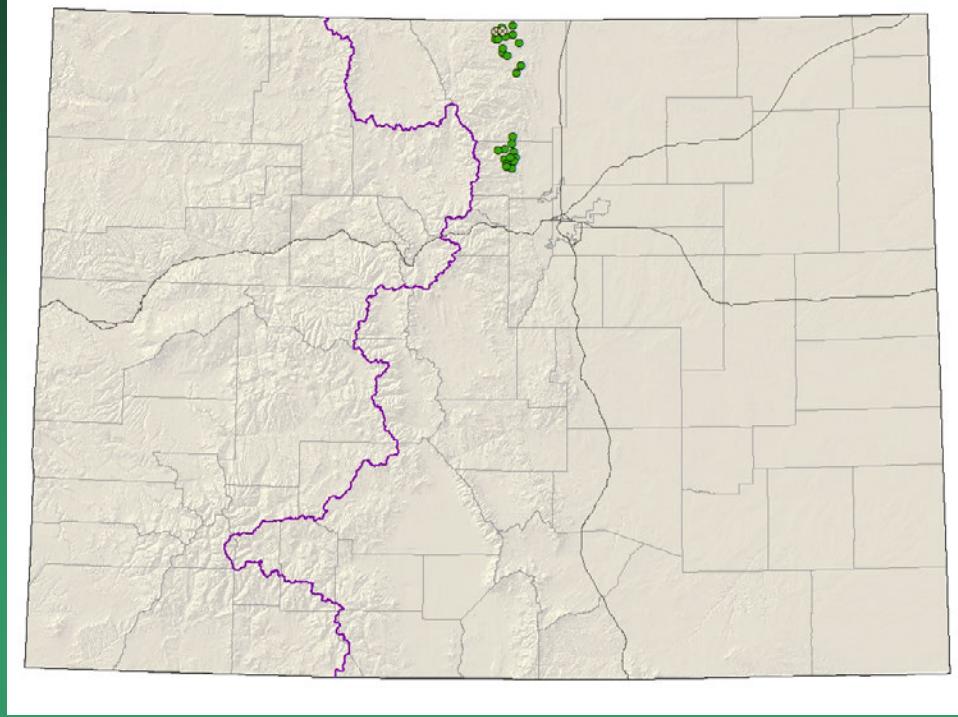
- Aletes humilis
- Aletes nuttallii
- Aquilegia saximontana
- Astragalus sparsiflorus
- Bolophyta alpina
- Carex oreocharis
- Draba crassa
- Draba globosa
- Draba streptobrachia
- Eriogonum exilifolium
- Nuttallia sinuata
- Nuttallia speciosa
- Oonopsis wardii
- Oreoxis humilis
- Phacelia denticulata
- Physaria bellii
- Potentilla ambigens
- Potentilla rupincola
- Sisyrinchium pallidum

2007/2013

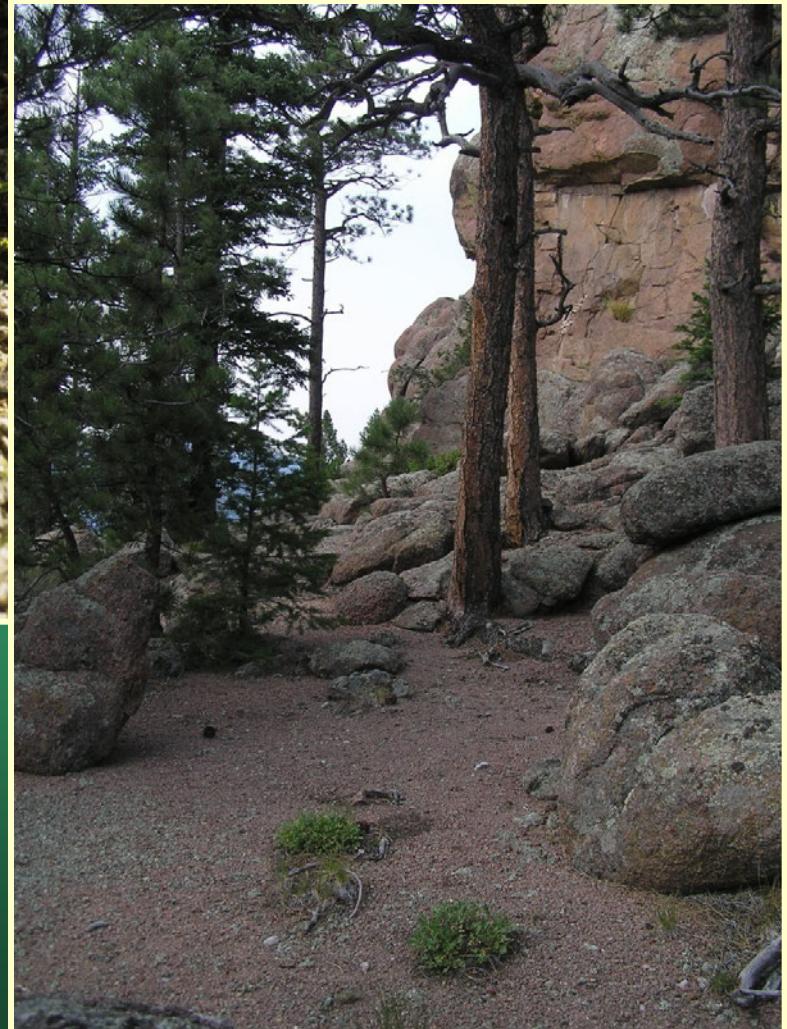
NE Colorado
G2G3 species

Aletes humilis Larimer aletes

- Federal status: None
- Heritage ranks: G2G3/S2S3
- Global distribution: Colorado (Larimer and Boulder counties). Possibly extending into southern Wyoming.
- Elevation range: 6,150 to 8,830 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 27 (**2** are historical)
- Colorado individuals: 15,000+
- Primary threats: Recreational uses are the primary threat.
- Land ownership/management: USFS, private, local government



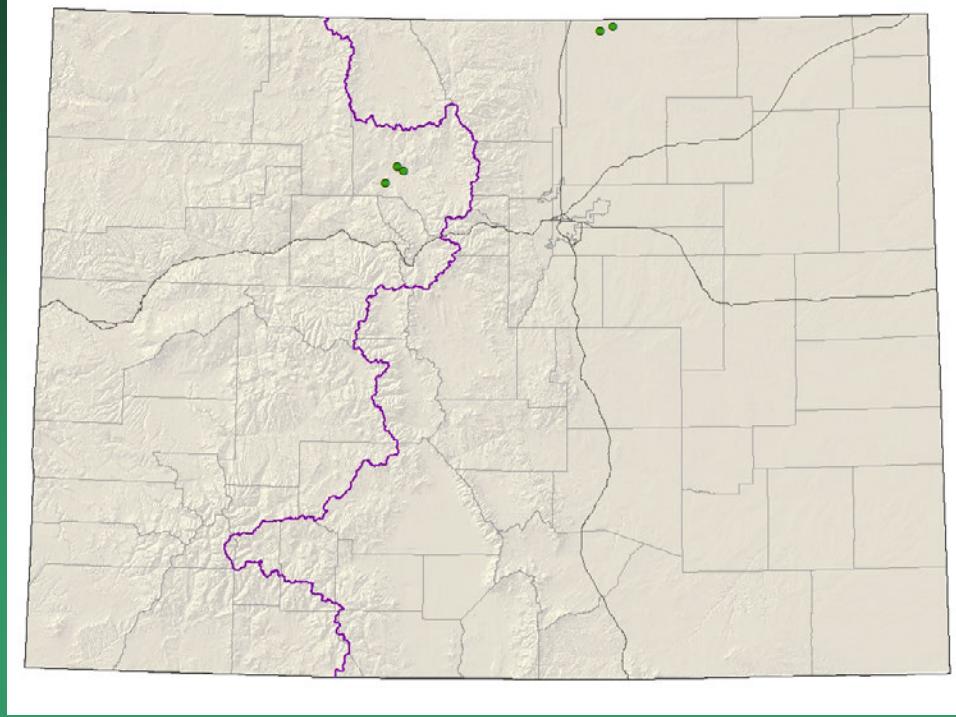
Aletes humilis



Aletes nuttallii = *Lomatium nuttallii*

Nuttall's desert-parsley

- Federal status: None
- Heritage ranks: G3/S1
- Global distribution: Montana, Wyoming, Nebraska, South Dakota (historical), Colorado (Grand and Weld counties).
- Elevation range: 5,590 to 7,800 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 5
- Colorado individuals: 6,500
- Primary threats: ORV use, weeds, cattle trampling
- Land ownership/management: State 50%, Private 50%



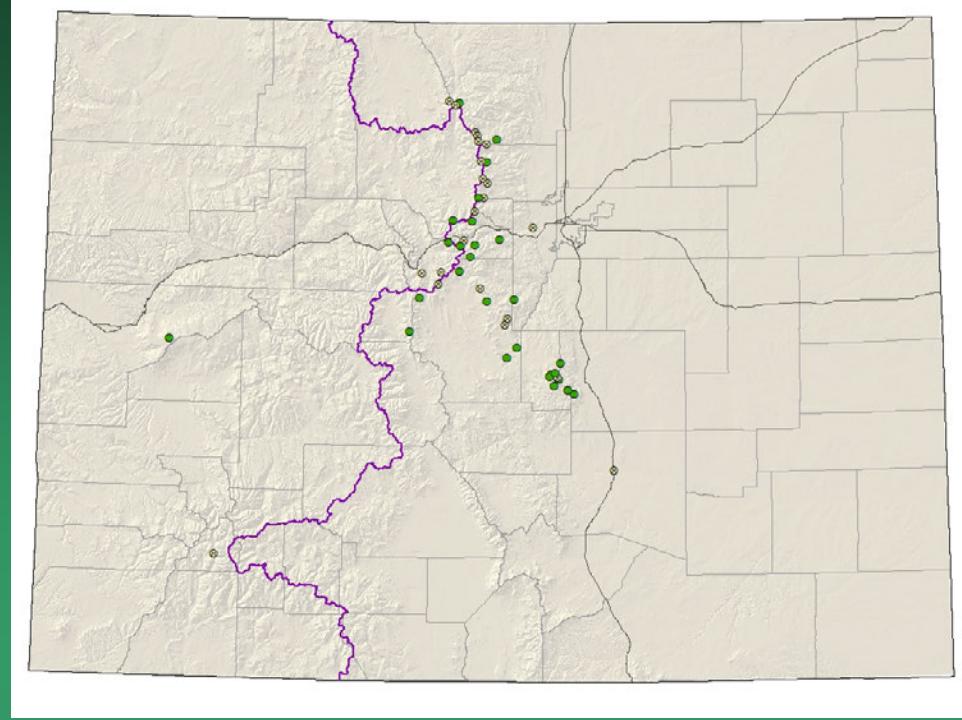
Aletes nuttallii



Aquilegia saximontana

Rocky Mountain columbine

- Federal status: None
- Heritage ranks: G3/S3
- Global distribution: Colorado (Boulder, Clear Creek, El Paso, Gilpin, Jackson, Jefferson, Lake, Larimer, Mesa, Park, Pueblo, San Juan, Summit, and Teller counties).
- Elevation range: 7,620 to 14,260 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 50 (22 are historical)
- Colorado individuals: 1,500
- Primary threats: recreational uses, road work pika grazing, rock garden collecting
- Land ownership/management: USFS 70%, NPS 15%, Private 12%, State 4%

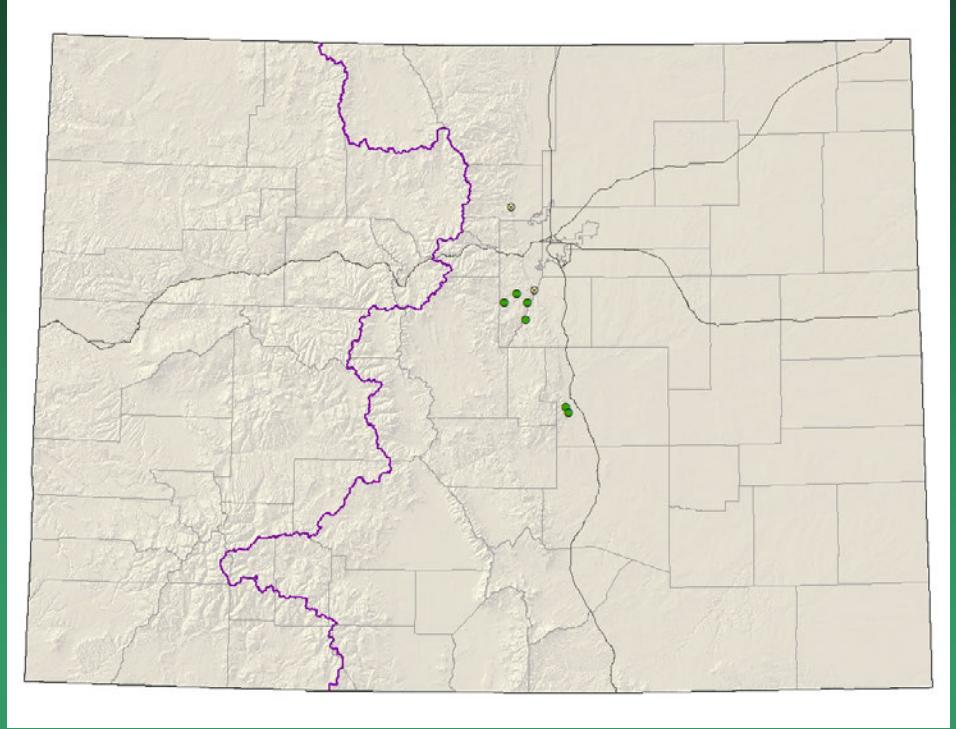


Aquilegia saximontana



Astragalus sparsiflorus Front Range milk-vetch

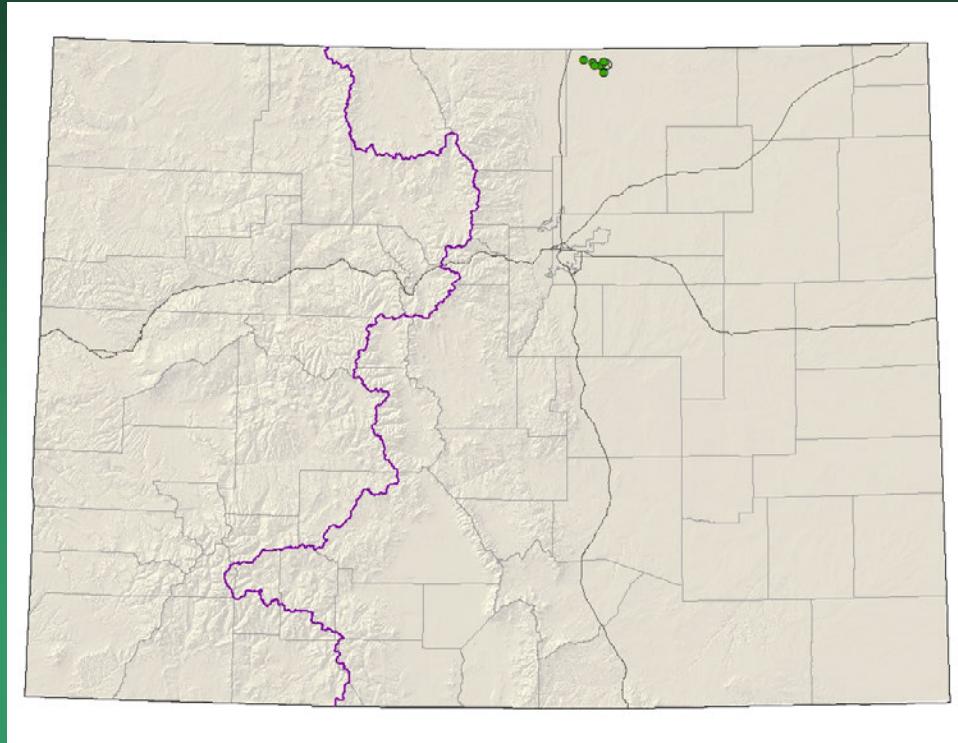
- Federal status: None
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic (Douglas, Denver, El Paso, Park, Fremont, Teller, Boulder, and Jefferson counties).
- Elevation range: 5,510 to 9,220 ft.
- Last observed in Colorado: 2010
- Colorado occurrences: 8 (2 are historical)
- Colorado individuals: 330+
- Primary threats: recreation
- Land ownership/management: Private, local gov., USFS





Bolophyta alpina =
Parthenium alpinum
Alpine feverfew

- Federal status: None
- Heritage ranks: G3/S3
- Global distribution: Wyoming, New Mexico, Colorado (Weld County)
- Elevation range: 5,500 to 5,820 ft.
- Last observed in Colorado: June 2007
- Colorado occurrences: 1 large metapopulation (numerous subpopulations, 1 historical)
- Colorado individuals: 100,000+
- Primary threats: Incidental grazing, hay dumping (State), pipelines
- Land ownership/management: State, Private, USFS/Pawnee NG

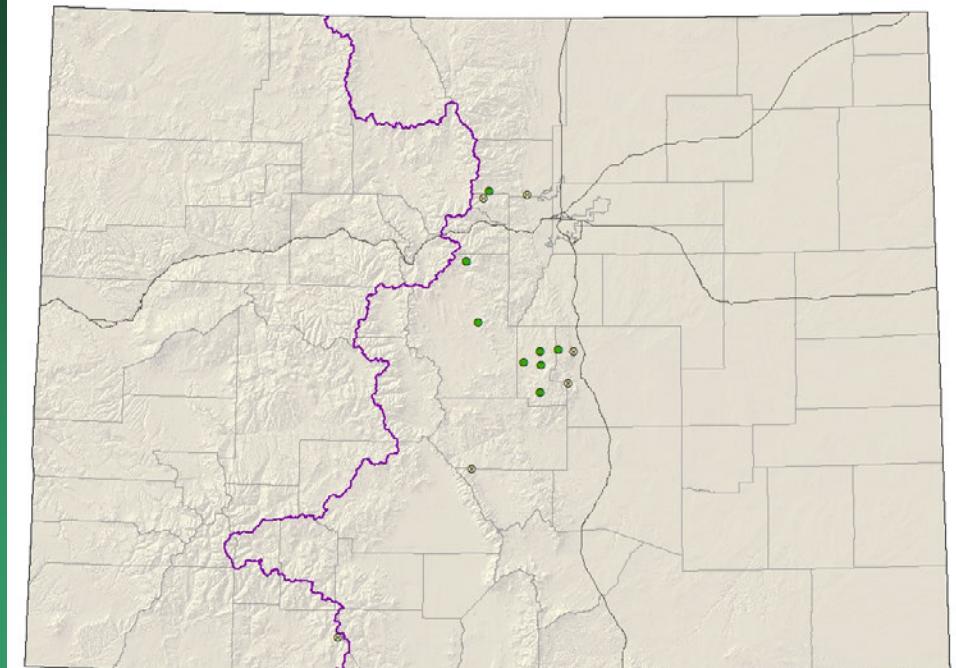


Bolophyta alpina



Carex oreocharis Grassy slope sedge

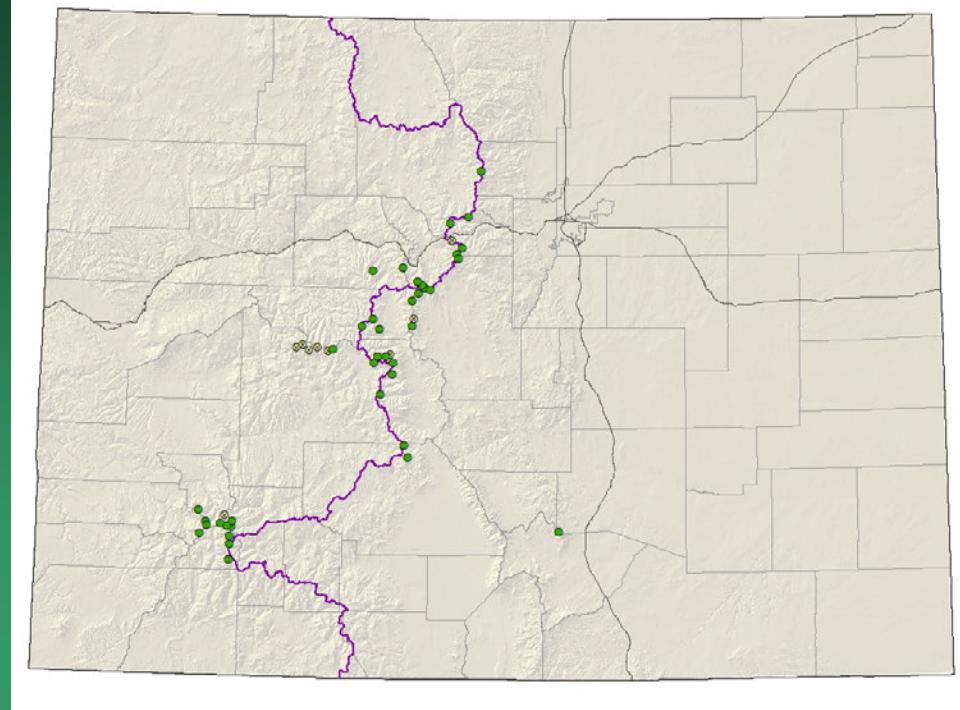
- Federal status: None
- Heritage ranks: G3/S2
- Global distribution: Arizona, New Mexico, Wyoming, Colorado (Boulder, Conejos, Custer, El Paso, **Fremont**, Gilpin, Park, and Teller counties).
- Elevation range: 5,980 to 10,540 ft.
- Last observed in Colorado: 2010
- Colorado occurrences: 14 (6 are historical)
- Colorado individuals: several thousand
- Primary threats: weeds, road construction, grazing
- Land ownership/management: USFS 80%, Private 20%





Draba crassa Thick-leaf whitlow-grass

- Federal status: None
- Heritage ranks: G3G4/S3
Watchlisted
- Global distribution: Montana, Wyoming, Utah, Colorado (Chaffee, Clear Creek, Eagle, Grand, Gunnison, Hinsdale, Huerfano, Lake, Ouray, Park, Pitkin, Pueblo, Saguache, San Juan, San Miguel, and Summit counties).
- Elevation range: 9,870 to 14,140 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 48 (9 are historical)
- Colorado individuals: 2,700 +
- Primary threats: recreational uses
- Land ownership/management: USFS 85%, Private 15%



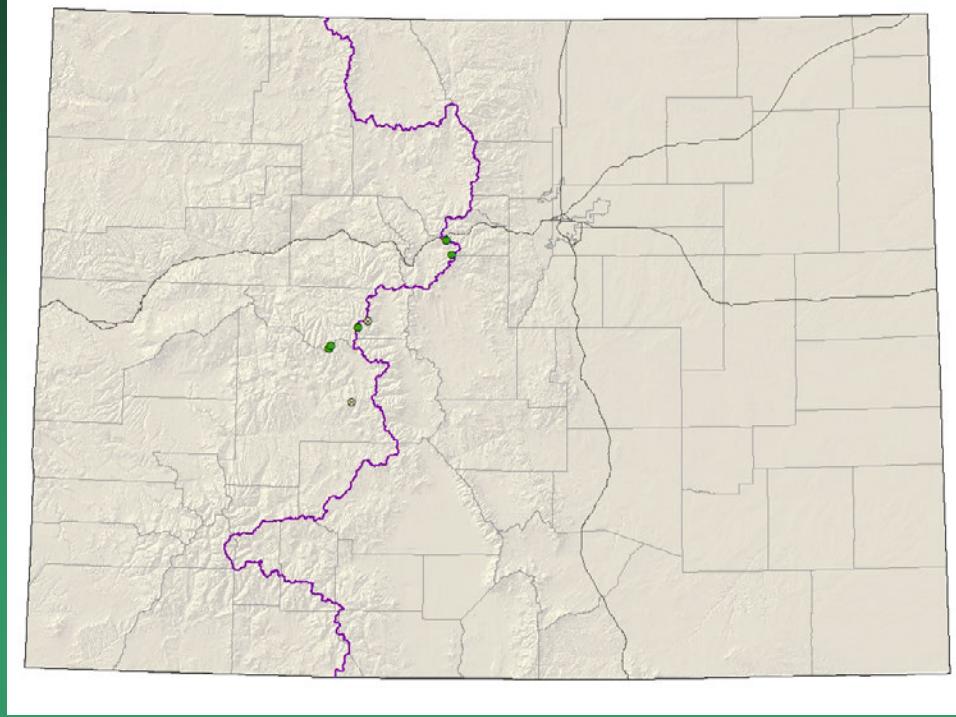


Draba crassa



Draba globosa Rockcress draba

- Federal status: None
- Heritage ranks: G3/S1
- Global distribution: Idaho, Montana, Utah, Wyoming, Colorado (Clear Creek, Gunnison, Lake, Pitkin, and **Summit** counties).
- Elevation range: 10,560 to 13,370 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 7 (**2** are historical)
- Colorado individuals: 150
- Primary threats: recreational use, potential mining
- Land ownership/management: USFS

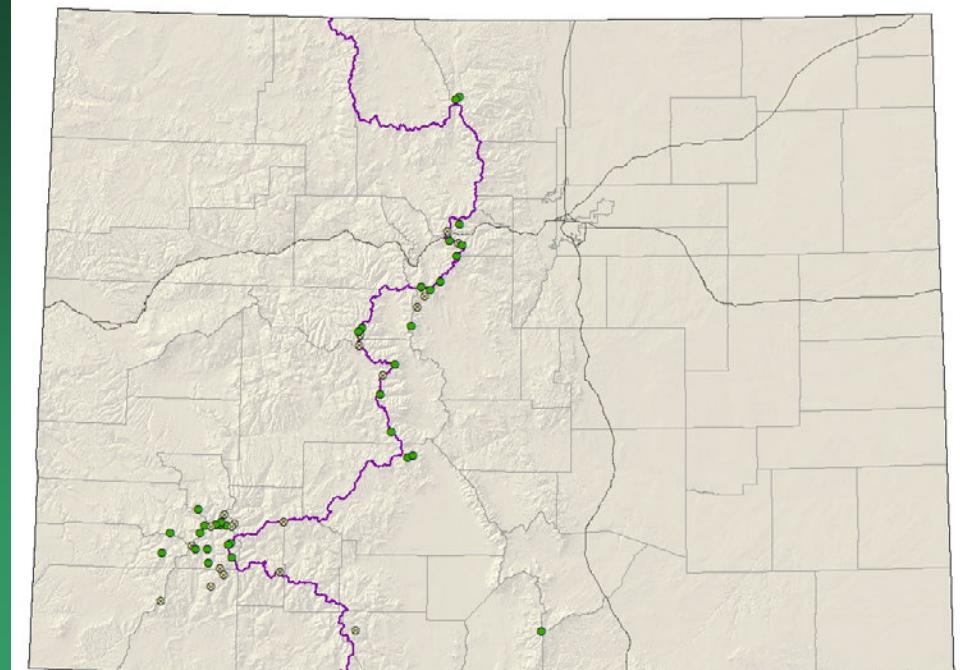


Draba globosa



Draba streptobrachia Colorado Divide whitlow-grass

- Federal status: None
- Heritage ranks: G3/S3
- Global distribution: Colorado endemic (Chaffee, Clear Creek, Conejos, Costilla, Dolores, Gunnison, Hinsdale, Huerfano, La Plata, Lake, Larimer, Mineral, Ouray, Park, Pitkin, Saguache, San Juan, San Miguel, and Summit counties).
- Elevation range: 10,200 to 14,050 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 52 (19 are historical)
- Colorado individuals: unknown
- Primary threats: recreation
- Land ownership/management: USFS 63%, BLM 19%, Private 19%



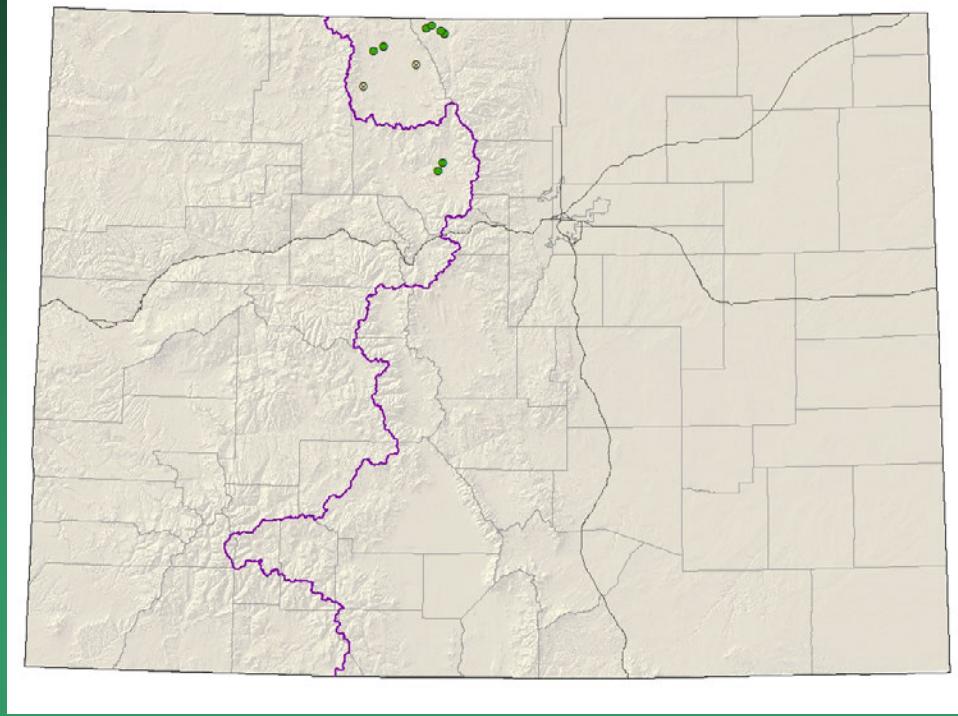


Draba streptobrachia

Eriogonum exilifolium

Dropleaf wild buckwheat

- Federal status: USFS sensitive
- Heritage ranks: G3/S2
- Global distribution: Wyoming, Colorado (Grand, Jackson, and Larimer counties).
- Elevation range: 7,820 to 8,770 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 10 (2 are historical)
- Colorado individuals: greater than 1,000,000
- Primary threats: weeds, incompatible grazing, roads
- Land ownership/management: BLM, state and private



Eriogonum exilifolium



Heuchera hallii

Front Range alum-root

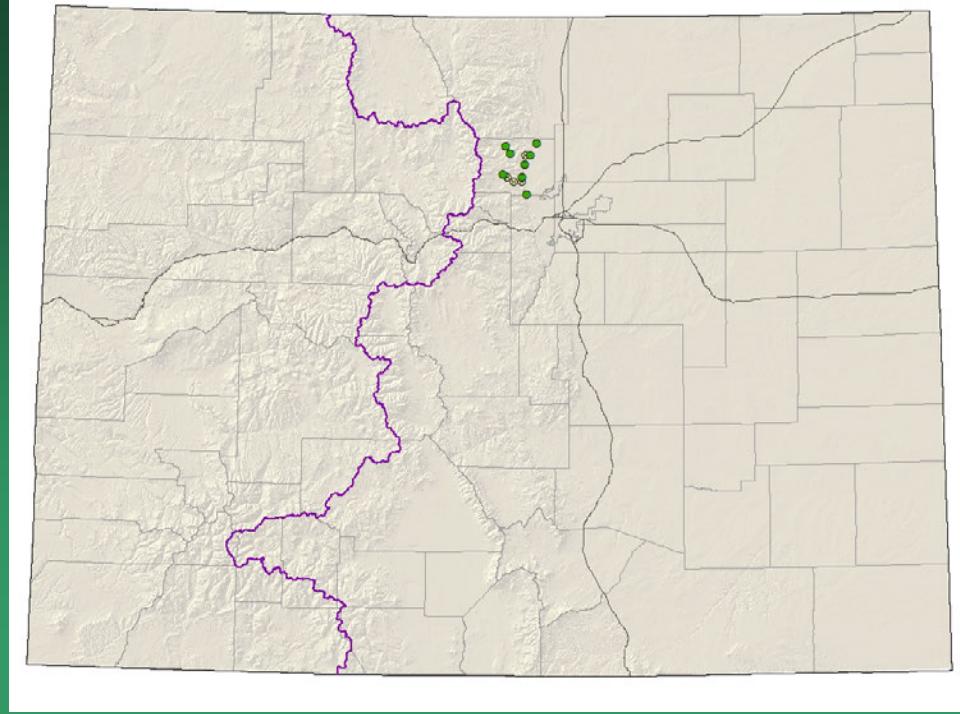
No longer tracked

- Federal status: None
- Heritage ranks: G4/S4
- Global distribution: Colorado endemic (Chaffee, Custer, Douglas, El Paso, Huerfano, Jefferson, Lake, Park, and Teller counties).
- Last observed in Colorado: 2013
- Colorado occurrences: 21+ (4 are historical)
- Colorado individuals: unknown, locally common
- Primary threats: unknown
- Land ownership/management: USFS 100%

Heuchera hallii



Nuttallia (Mentzelia) *sinuata* Wavy-leaf stickleaf



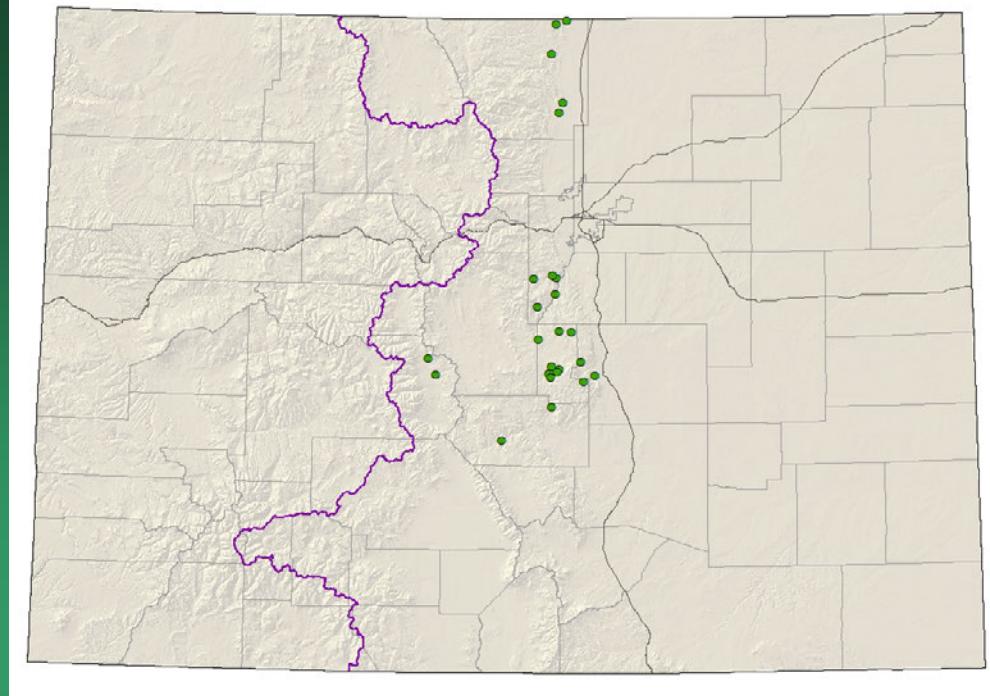
- Federal status: None
- Heritage ranks: G3/S3
- Global distribution: Wyoming and Colorado (Boulder, **Clear Creek**, El Paso, Larimer, **Teller**, and **Weld** counties).
- Elevation range: 5,320 to 8,600 ft.
- Last observed in Colorado: **2008**
- Colorado occurrences: 12 (4 are historical)
- Colorado individuals: hundreds+
- Primary threats: road work, misidentification as weeds
- Land ownership/management: USFS 67%, City 33%

Nuttallia sinuata



Nuttallia (Mentzelia) speciosa Jeweled blazingstar

- Federal status: None
- Heritage ranks: G3/S3
- Global distribution: Wyoming and Colorado (Arapahoe, **Boulder**, Chaffee, Clear Creek, **Denver**, Douglas, El Paso, Fremont, Gilpin, Jefferson, **Larimer**, Mineral, Saguache, and Teller counties).
- Elevation range: 5,390 to 10,850 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 26
- Colorado individuals: ~10,000
- Primary threats: road work, recreation, weeds
- Land ownership/management: BLM, USFS, Private, State



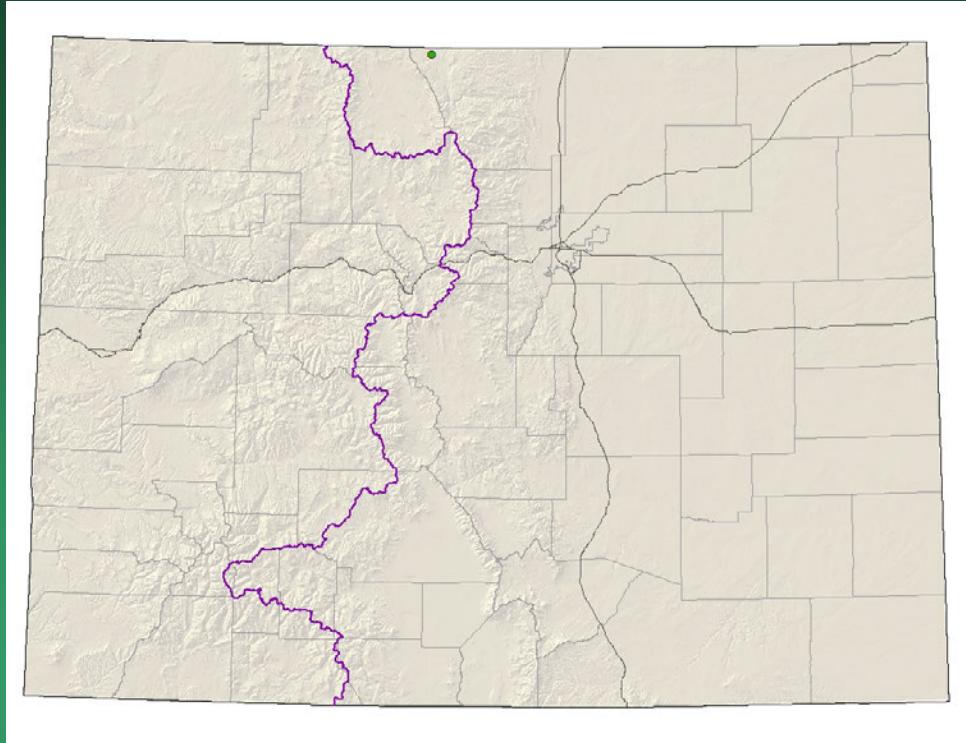
Nuttallia speciosa



Oonopsis wardii

Ward's golden-weed

- Federal status: None
- Heritage ranks: G3/S1
- Global distribution: Wyoming and Colorado (Larimer County).
- Elevation range: 7,830 to 7,850 ft.
- Last observed in Colorado: August 2004
- Colorado occurrences: 1
- Colorado individuals: 300+
- Primary threats: incompatible grazing
- Land ownership/management: BLM



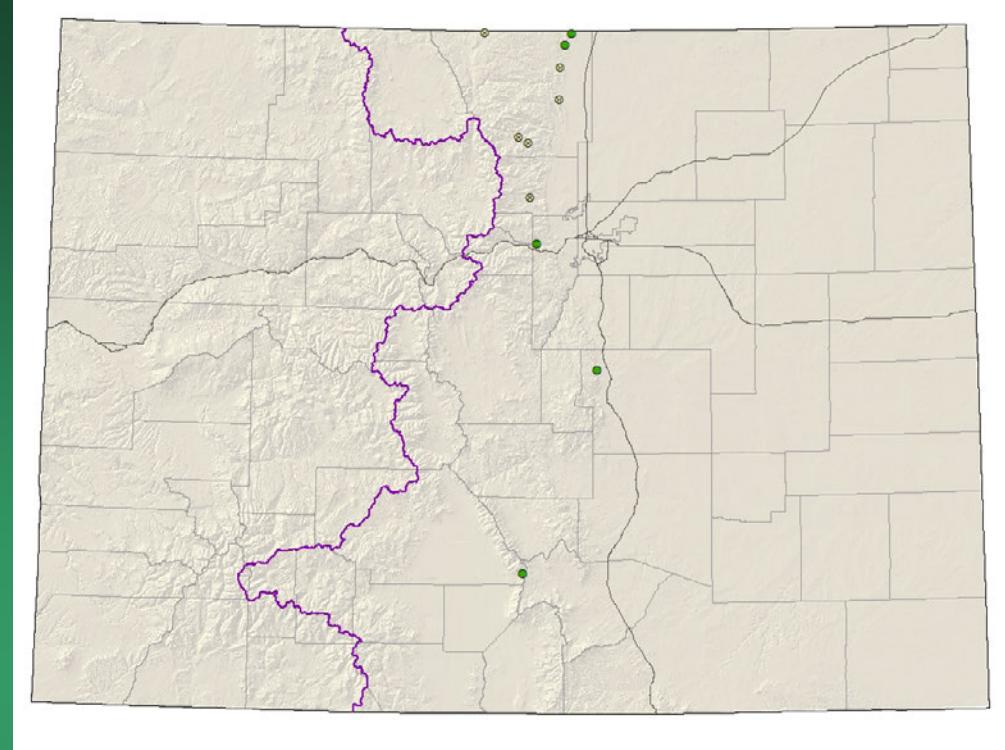
Oönopsis wardii



Phacelia denticulata

Rocky Mountain phacelia

- Federal status: None
- Heritage ranks: G3/SU
- Global distribution: Wyoming, New Mexico, Colorado (Boulder, Clear Creek, Costilla, Douglas, El Paso, Jefferson, Larimer, Las Animas, Park, and Saguache counties).
- Elevation range: 7,470 to 8,720 ft.
- Last observed in Colorado: 2012
- Colorado occurrences: 11 (6 are historical)
- Colorado individuals: unknown
- Primary threats: unknown
- Land ownership/management: USFS, BLM, Private

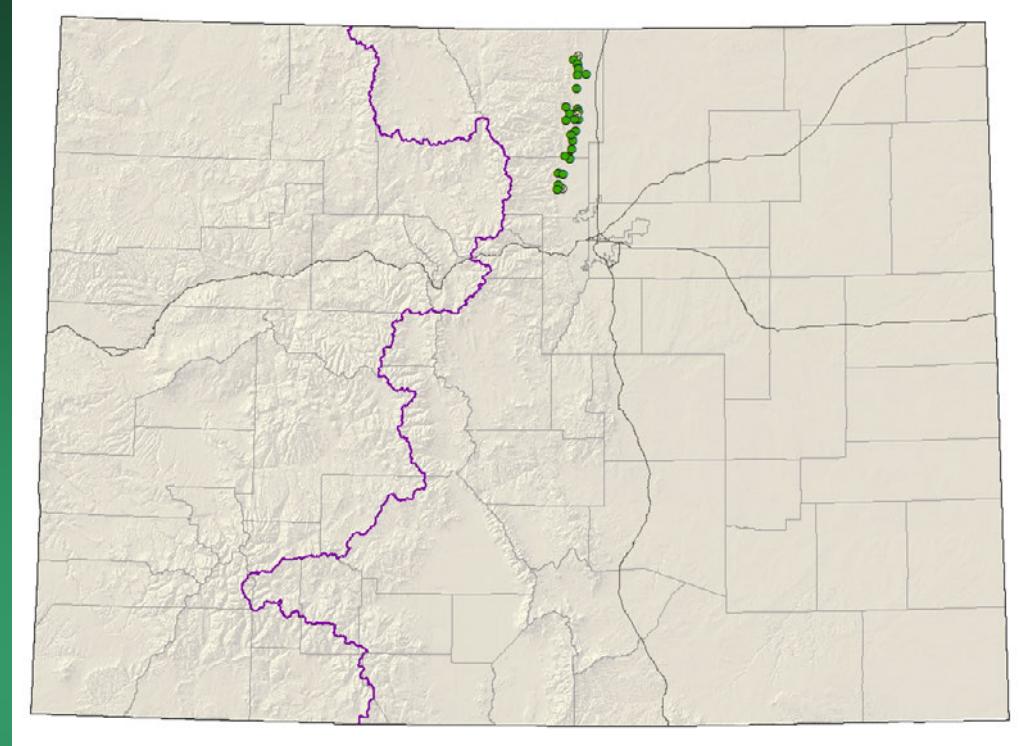




Physaria bellii

Bell's twinpod

- Federal status: None
- Heritage ranks: G2G3/S2S3
- Global distribution: Colorado endemic (Boulder and Larimer counties). Jefferson and El Paso County records annotated to a different species.
- Elevation range: 5,090 to 6,550 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 28 (3 are historical)
- Colorado individuals: Approximately 1 million
- Primary threats: Residential development, limestone mining, road work, weeds
- Land ownership/management: Private 67%, Local government 33%



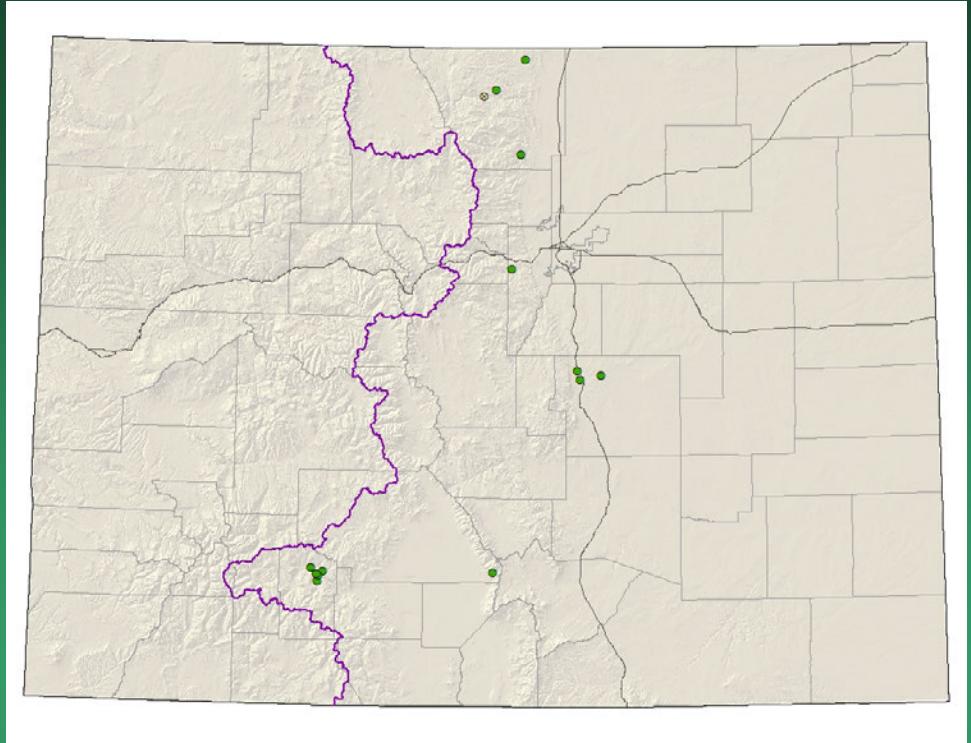
Physaria bellii



Potentilla ambigens

Southern Rocky Mountain cinquefoil

- Federal status: None
- Heritage ranks: G3/S2
- Global distribution: New Mexico, Wyoming (historical), and Colorado (El Paso, Jefferson, Larimer, Mineral, and Saguache counties).
- Elevation range: 6,610 to 9,060 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 15 (1 is historical)
- Colorado individuals: 5,000
- Primary threats: recreation, grazing, weeds
- Land ownership/management: USFS, DoD, local government, state, private

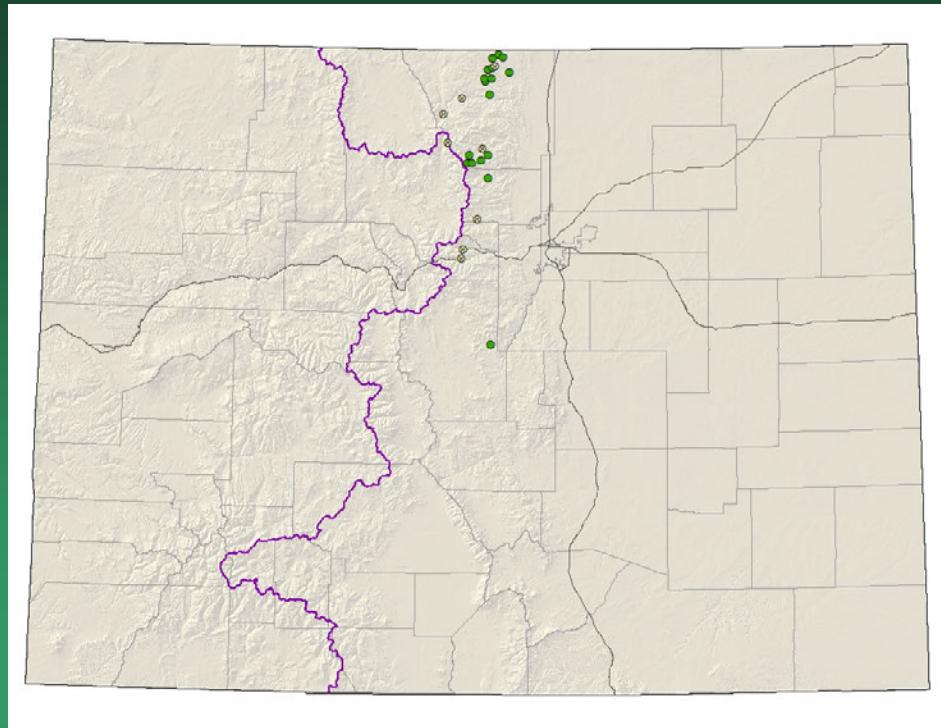


Potentilla ambigens



Potentilla rupincola Rocky Mountain cinquefoil

- Federal status: USFS Sensitive
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic. Boulder, Clear Creek, Larimer, and Park counties. Historically from Gilpin county.
- Elevation range: 6,240 to 10,930 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 25 (8 are historical)
- Colorado individuals: 36,000+
- Primary threats: weeds, residential and commercial development, road work, recreation.
- Land ownership/management: Private, USFS, NPS, State, Local

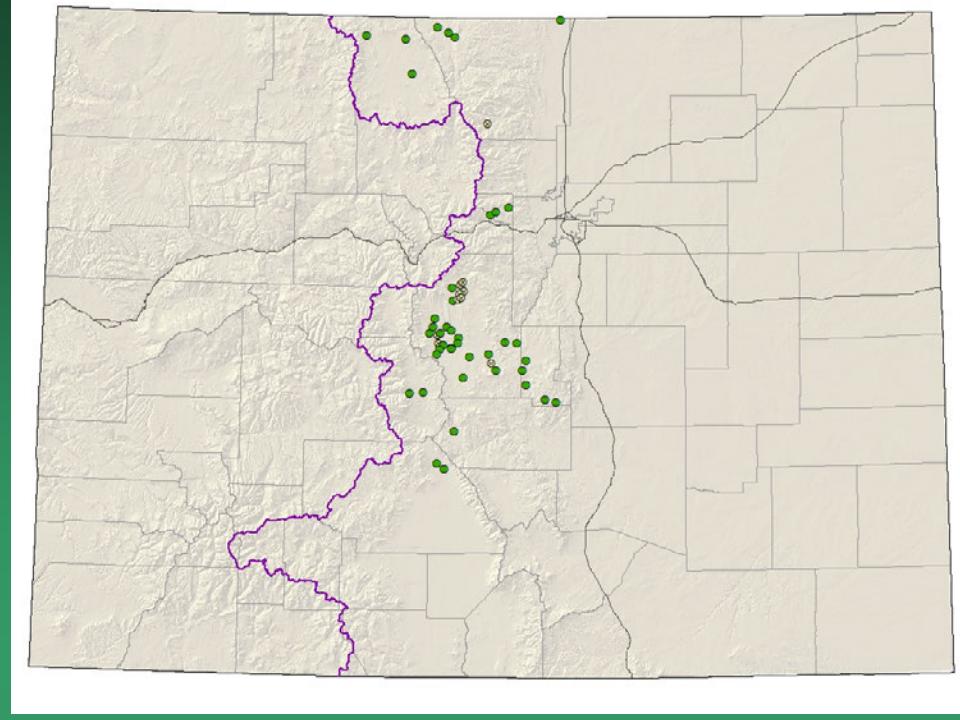


Potentilla rupicola



Sisyrinchium pallidum Pale blue-eyed grass

- Federal status: BLM Sensitive
- Heritage ranks: G3/S2
- Global distribution: Wyoming and Colorado (Chaffee, El Paso, Fremont, Gilpin, Jackson, Larimer, Park, Saguache, and Teller counties).
- Elevation range: 6,320 to 9,710 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 52 (10 are historical)
- Colorado individuals: 11,000
- Primary threats: road work, residential development, grazing, peat mining, and recreational activities.
- Land ownership/management: Private 54%, BLM 23%, State 15%, NGO 8%



Sisyrinchium pallidum

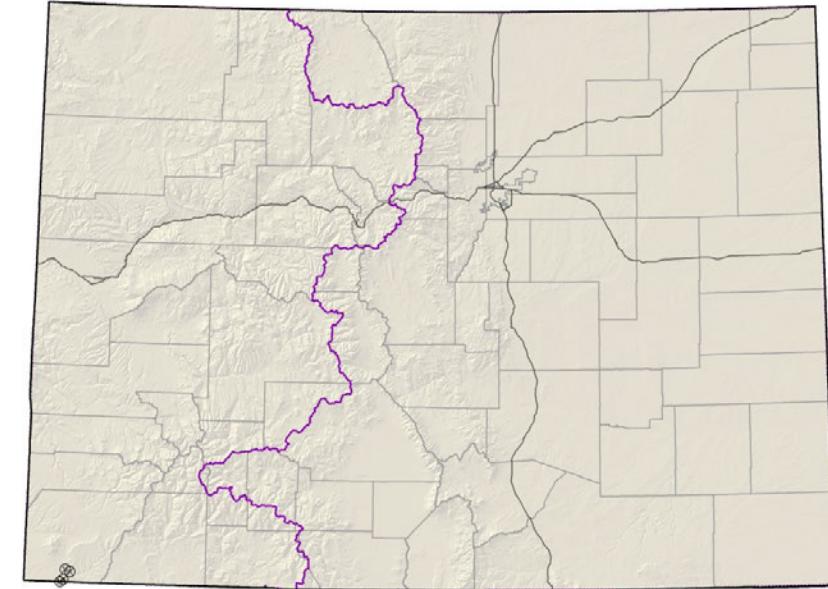


2004/2011
Steamboat Springs/Carbondale
Statewide
T,E & C Species

Astragalus humillimus

Mancos milkvetch

- Federal status: Endangered
- Heritage ranks: G1/S1
- Global distribution: New Mexico and Colorado (Montezuma County); 5200-6100 ft.
- Last observed in Colorado: 1989
- Colorado occurrences: 4 (all are historical)
- Colorado individuals: 25,000
- Primary threats: mineral, oil, and gas development, seismic exploration
- Land ownership/management: Ute Mountain Ute



Astragalus humillimus



Astragalus microcymbus

Skiff milkvetch



- Federal status: Candidate, BLM sensitive
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic, South Beaver Creek, Gunnison and Saguache counties; 7600-8500 ft.
- Last observed: 2013
- Occurrences: 6 (1 is historical)
- Individuals: 17,800
- Primary threats: recreation, grazing by cattle and rabbits, mining, residential development
- Land ownership/management: BLM (most occurrences within a BLM ACEC and South Beaver Creek Natural Area), private

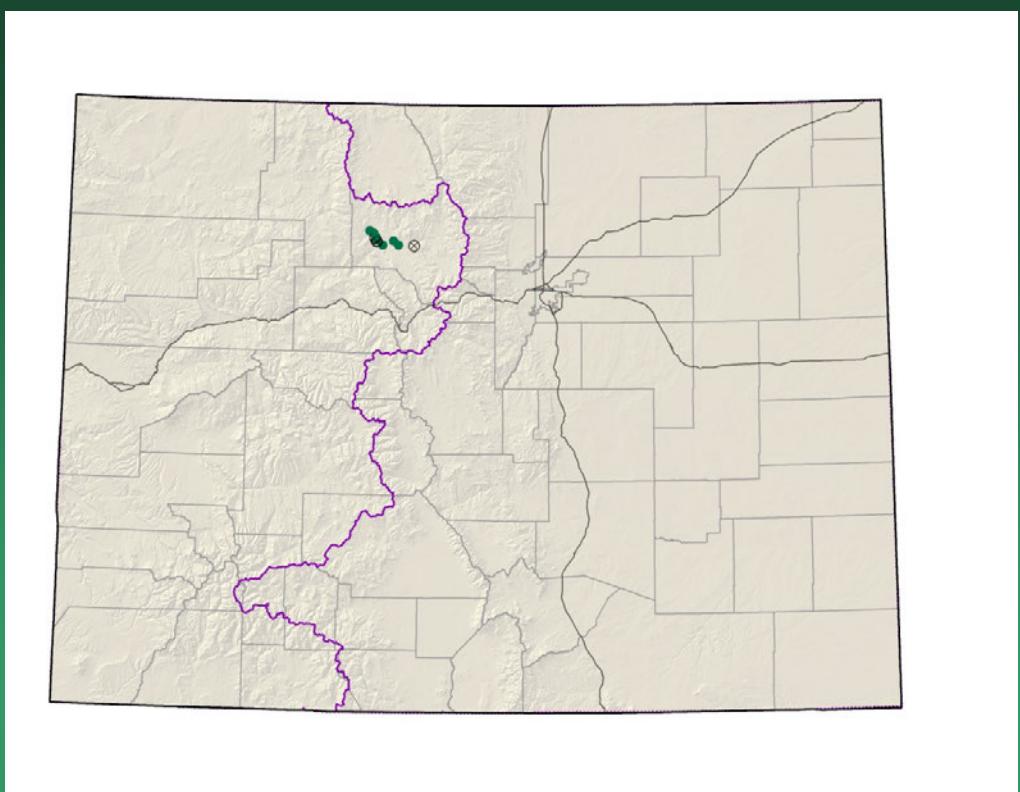
Astragalus microcymbus



Astragalus osterhoutii

Osterhout milkvetch

Conservation Action Plan



- Federal status: Endangered
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Grand County); 7300-8000 ft.
- Last observed: 2013
- Occurrences: 6 (1 is historical)
- Individuals: 10,000-12,000
- Primary threats: recreation, mining, oil and gas development
- Land ownership/management: BLM, private, state

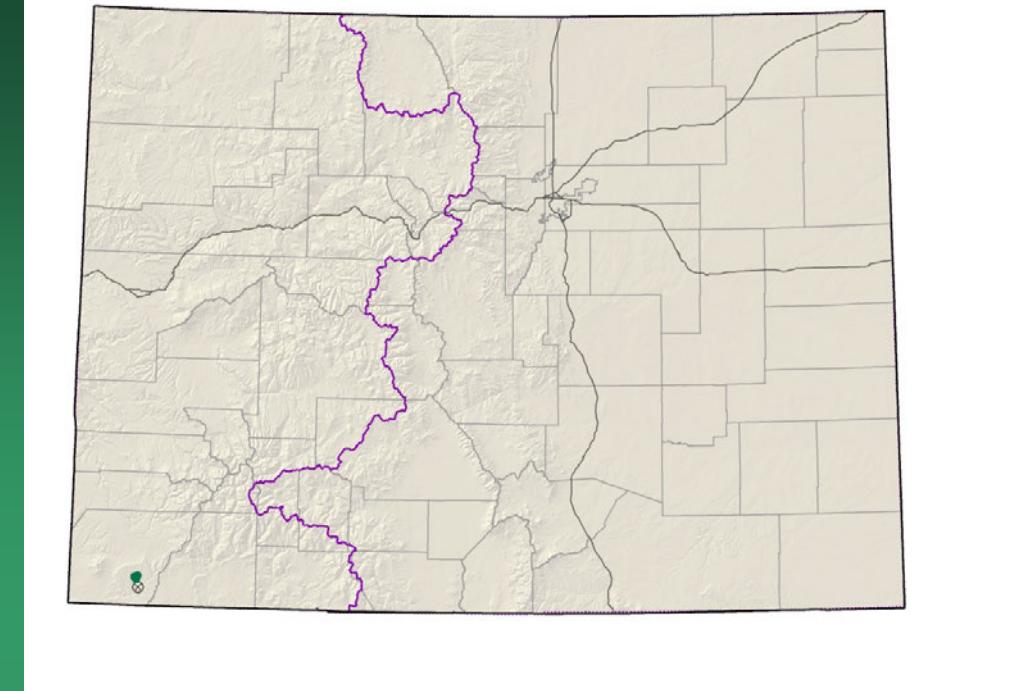


Astragalus osterhoutii

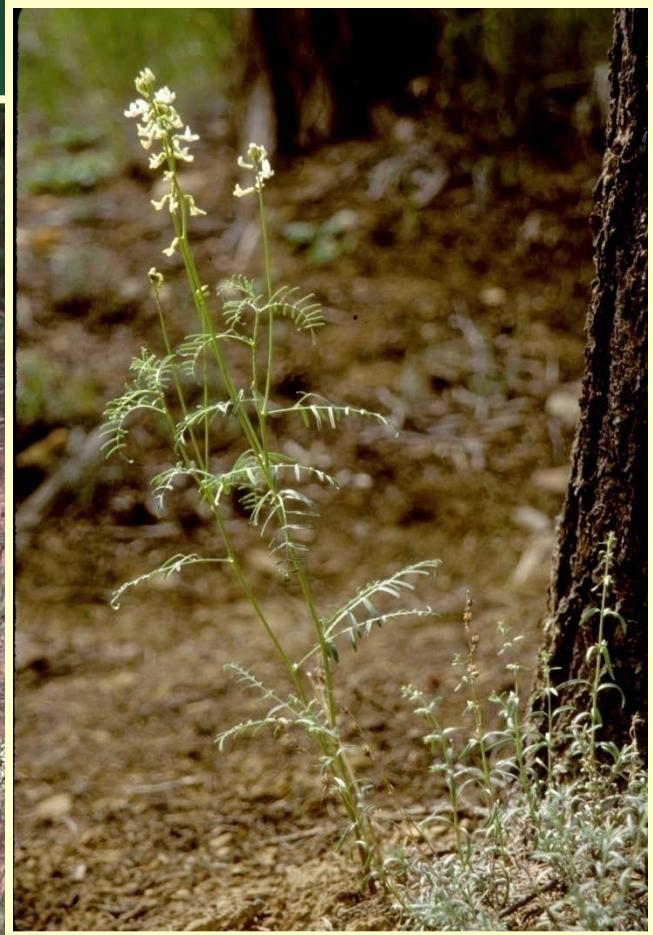


Astragalus schmolliae Schmoll's milkvetch

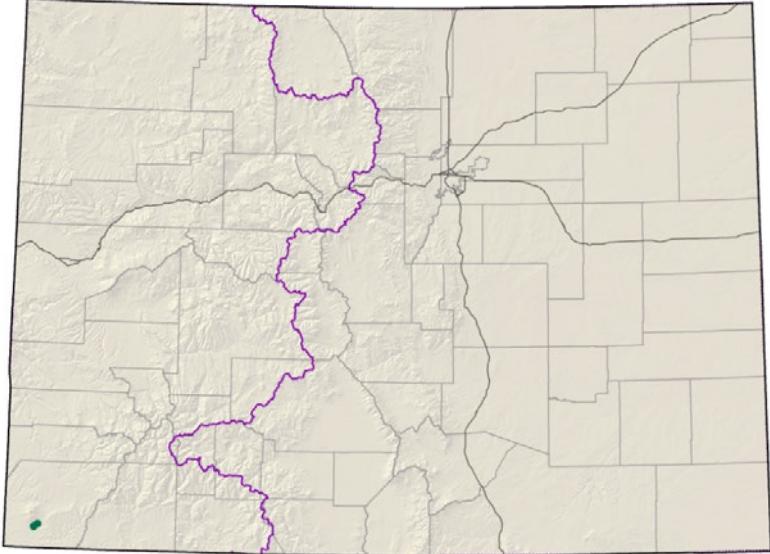
- Federal status: Candidate
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Chapin Mesa - Montezuma County); 5700-7400 ft.
- Last observed: 2012
- Occurrences: 4 (1 is historical)
- Individuals: 294,499 in Mesa Verde, Tribal lands unsurveyed
- Primary threats: Noxious weed invasions, Park developments, grazing and road construction outside NP
- Land ownership/management: Mesa Verde National Park, Ute Mountain Ute Tribal lands



Astragalus schmolliae



Astragalus tortipes Sleeping Ute milkvetch



- Federal status: Candidate, BLM Sensitive
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Montezuma County); 5400-5700 ft.
- Last observed: 2000
- Occurrences: 2
- Individuals: 2,000-3,000
- Primary threats: McPhee Reservoir canals, agricultural development
- Land ownership/management: Ute Mountain Ute

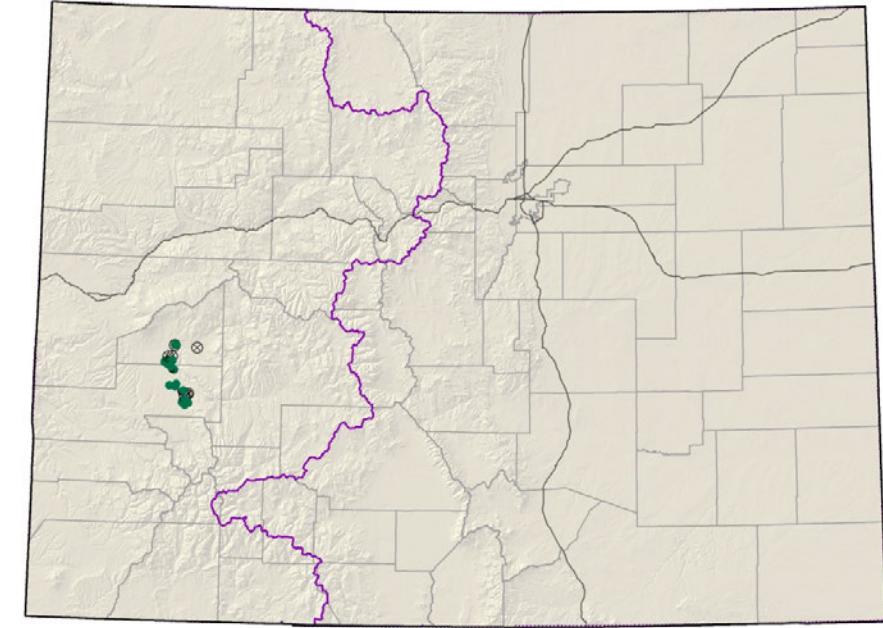
Astragalus tortipes



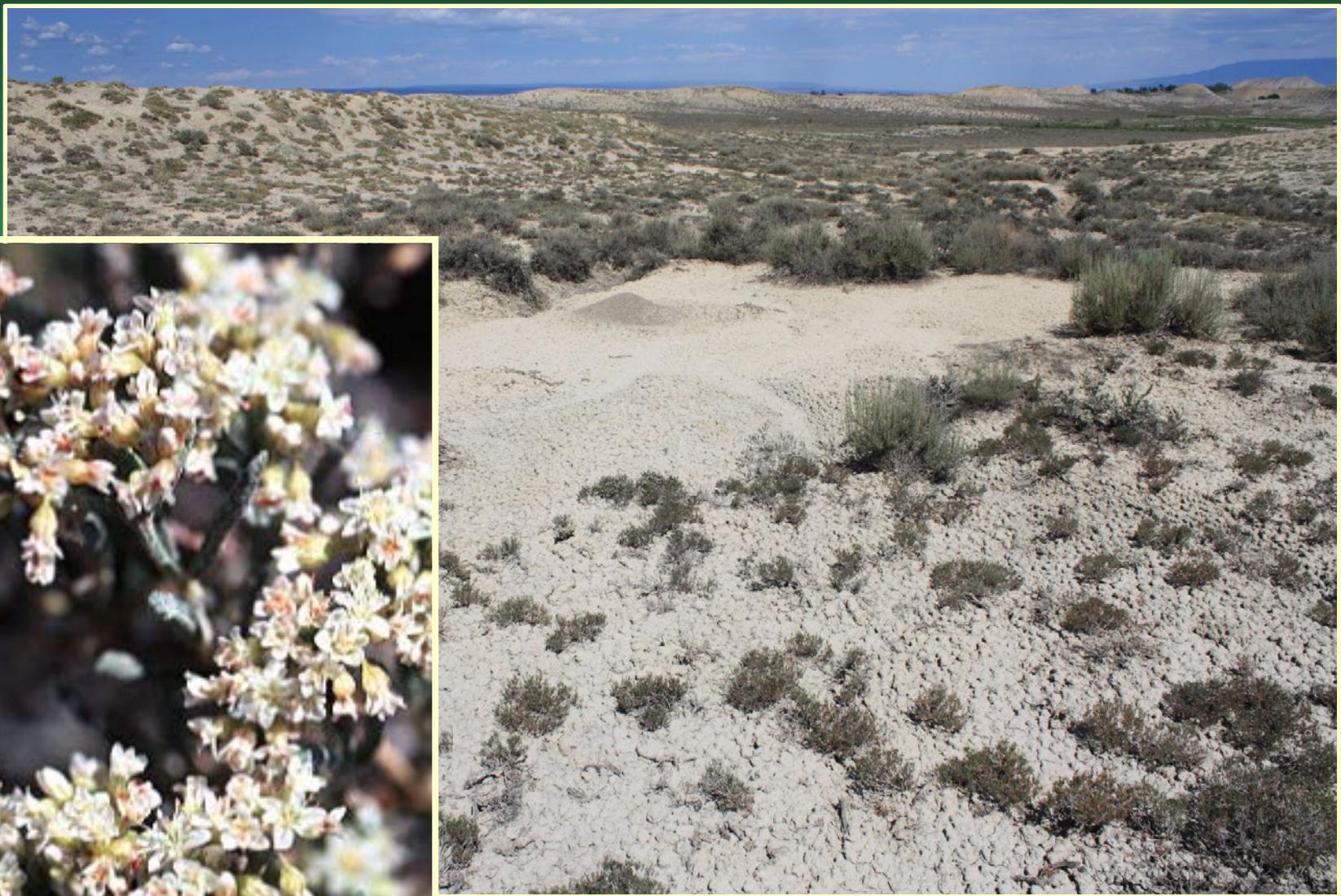
Eriogonum pelinophilum

Clay-loving wild buckwheat

- Federal status: Endangered
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic (Delta and Montrose counties); 5200-6400 ft.
- Last observed: 2013
- Occurrences: 19 (6 are historical)
- Individuals: 280,000
- Primary threats: residential and agricultural developments, ORV use, overgrazing, oil and gas exploration
- Land ownership/management: private, BLM, CPW (purchased Wacker property for conservation easement)



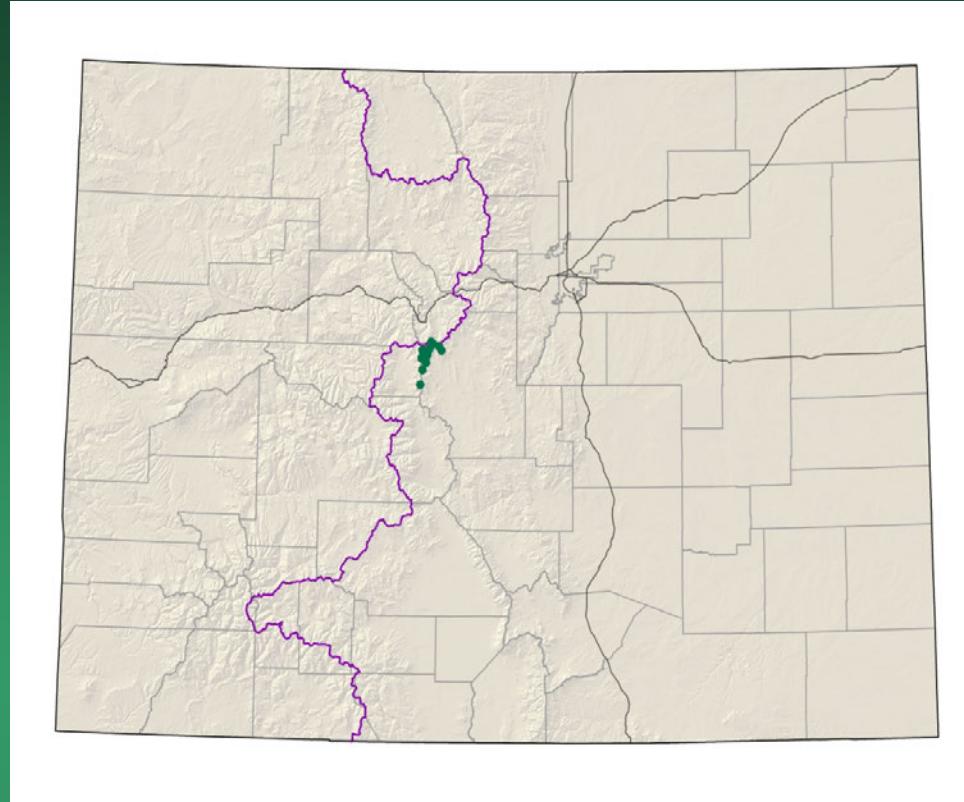
Eriogonum pelinophilum



Eutrema penlandii=
E. edwardsii

Penland alpine fen mustard

- Federal status: Threatened
- Heritage ranks: G1G2/S1S2
- Global distribution: Colorado endemic (Lake, Park, and Summit counties); 11,850-13,320 ft.
- Last observed: 2013
- Occurrences: 13
- Individuals: 20,000
- Primary threats: mining, recreation
- Land ownership/management: private, USFS, BLM



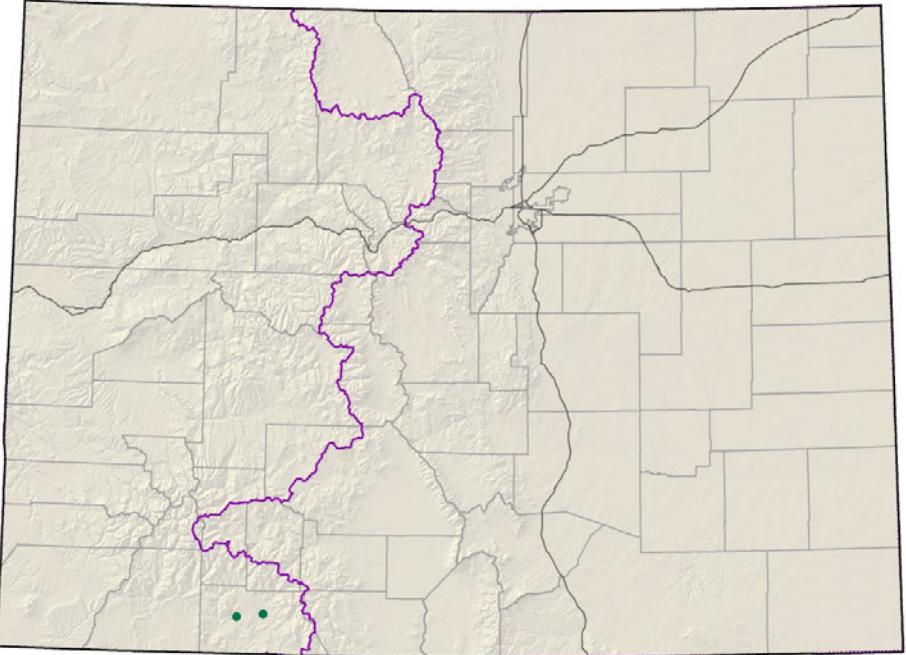
Eutrema penlandii



Ipomopsis polyantha Pagosa gilia

Conservation Action Plan

- Federal status: Endangered
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Archuleta County); 6750-7775 ft.
- Last observed: 2012
- Individuals: ~300,000
- Occurrences: 2
- Primary threats: residential development, road construction and maintenance, overgrazing
- Land ownership/management: BLM, private, highway right of way



Ipomopsis polyantha

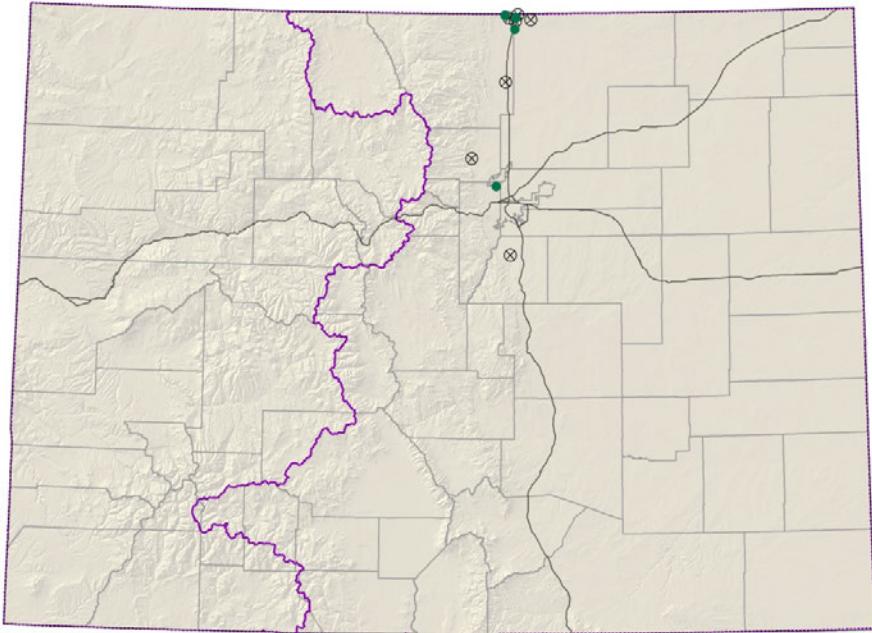


Oenothera coloradensis ssp. *coloradensis*

= *Gaura neomexicana* ssp. *coloradensis*

Colorado butterfly plant

- Federal status: Threatened
- Heritage ranks: G3T2/S1
- Global distribution: Wyoming, Nebraska, and Colorado (Adams, Boulder, Douglas, Jefferson, Larimer and Weld counties); 4800-6300 ft.
- Last observed in Colorado: 2011
- Colorado occurrences: 14 (6 are historical)
- Colorado individuals: 18,000
- Primary threats: grazing, hydrological alterations, weeds, Interstate 25, oil & gas
- Land ownership: City of Fort Collins, private, state





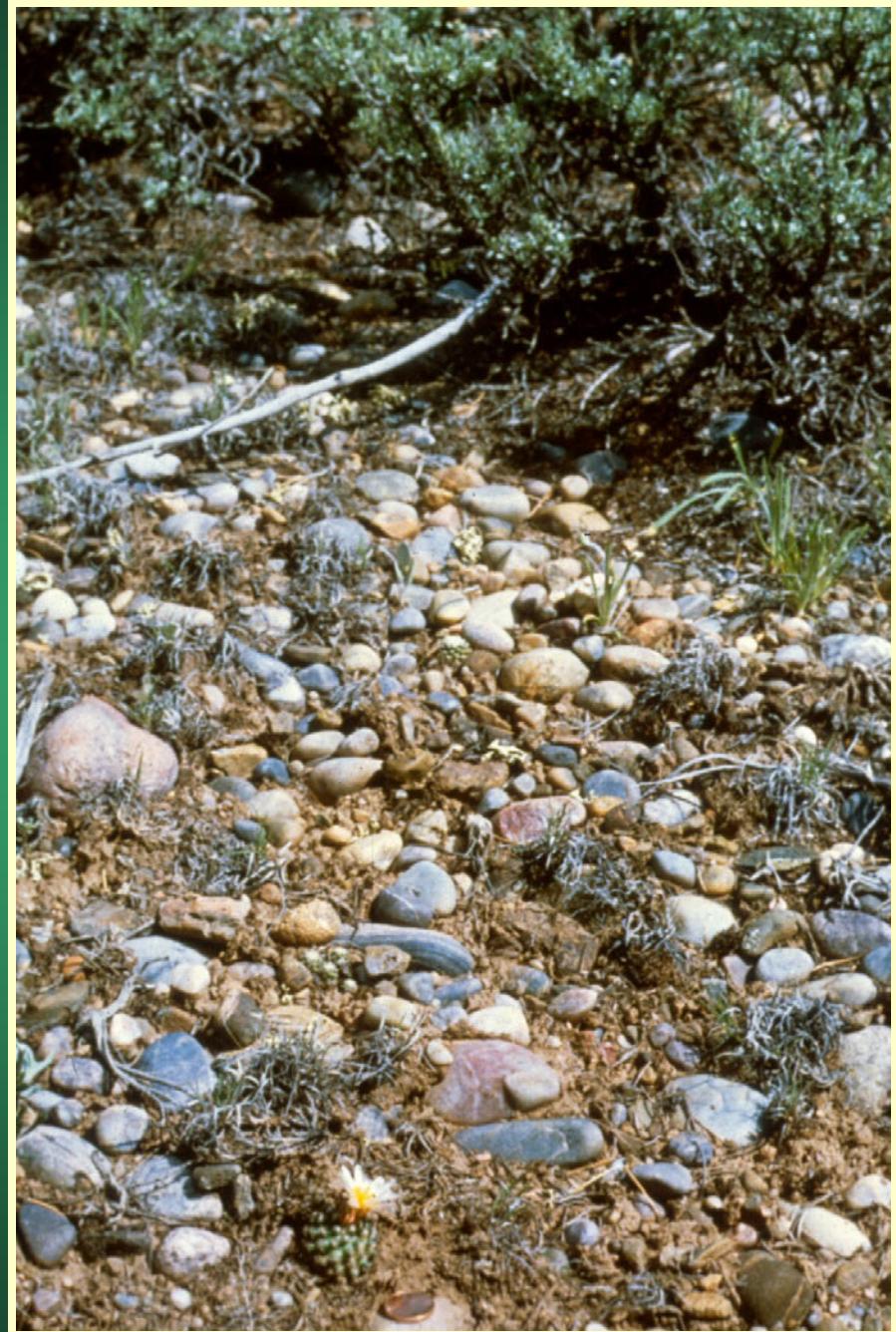
Gaura neomexicana ssp. *coloradensis*

Pediocactus knowltonii

Knowlton's cactus

GIS analysis determined that the species does not actually occur in Colorado.

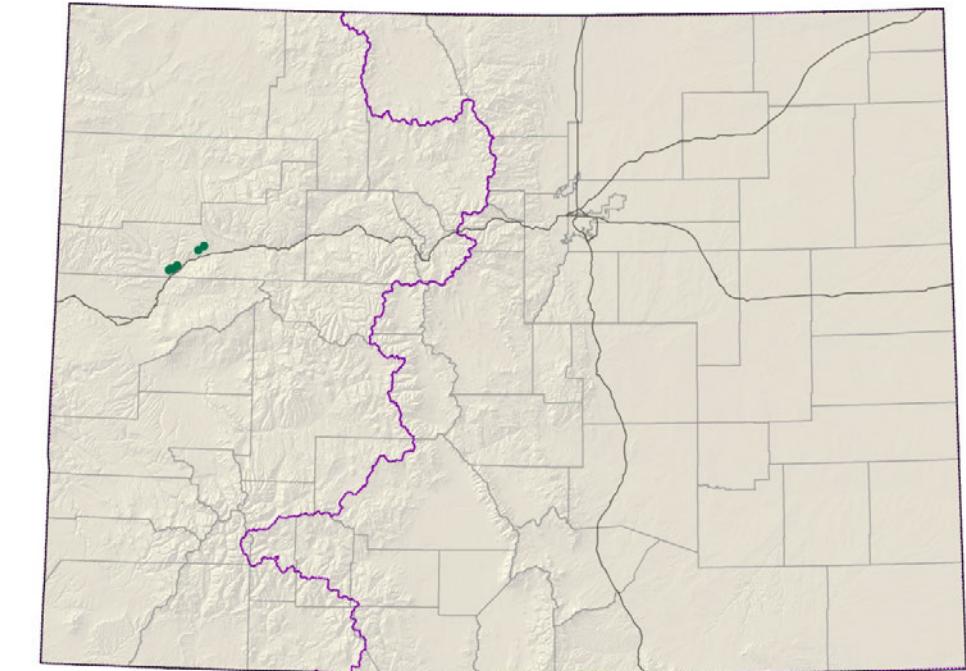
- Federal status: Endangered
- Heritage ranks: G1/SNA
- Global distribution: New Mexico
- Last observed in Colorado:
- Colorado occurrences: 0
- Individuals: 9,000 in NM
- Primary threats: cactus collection
- Land ownership: private, Ute



Penstemon debilis

Parachute penstemom

- Federal status: Threatened
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Garfield County); 5600-9250 ft.
- Last observed: 2011-13
- Occurrences: 6
- Individuals: 4000-6000
- Primary threats: oil and gas development, oil shale development, recreation
- Land ownership/management: private, BLM





Penstemon debilis



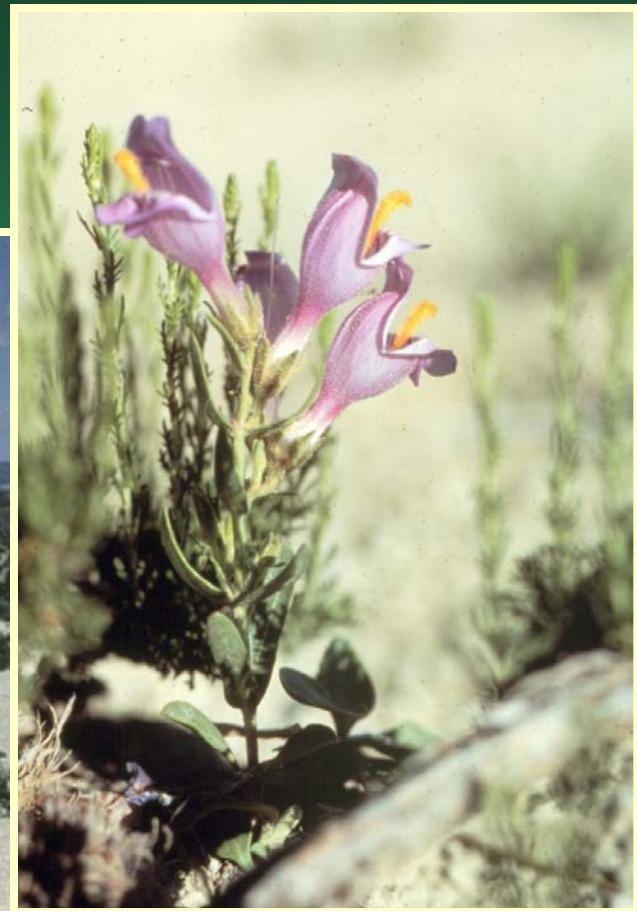
Penstemon grahamii

Graham beardtongue



- Federal status: BLM sensitive, Proposed Threatened
- Heritage ranks: G2/S1
- Global distribution: Utah and Colorado (Rio Blanco County); 5100-6000 ft.
- Last observed in Colorado: 2011-12
- Colorado occurrences: 7 (3 are historical)
- Colorado individuals: 5,000
- Primary threats: oil and gas development, overgrazing
- Land ownership/management: BLM

Penstemon grahamii

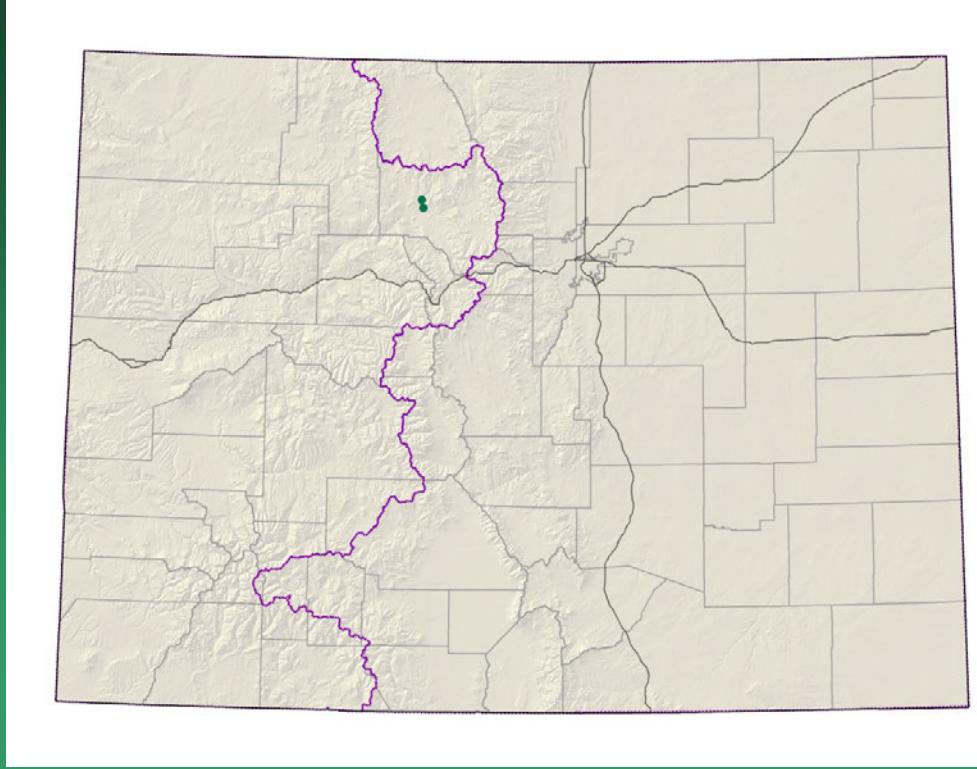


© 2005 J. R. Seaby

Penstemon penlandii

Penland beardtongue

Conservation Action Plan

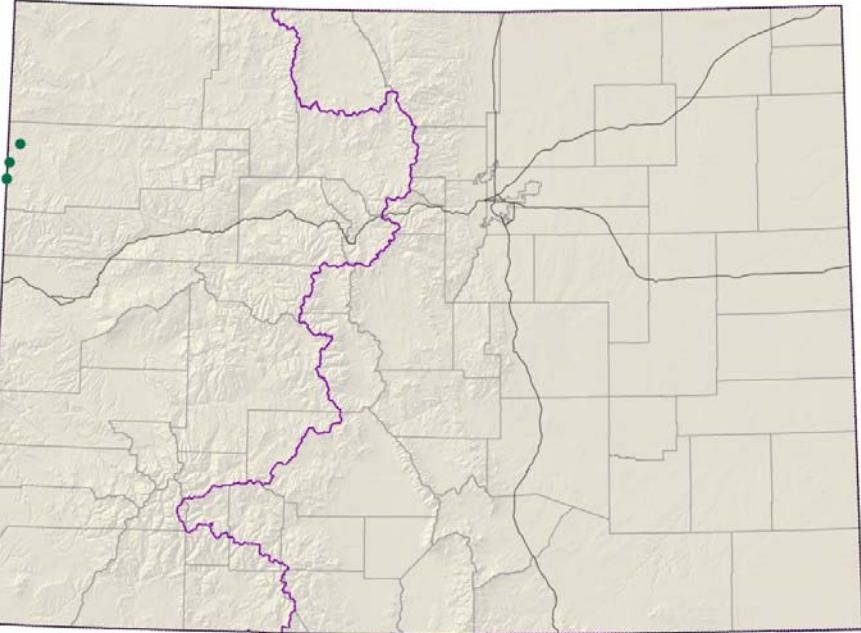


- Federal status: Endangered
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Grand County); 7400-7900 ft.
- Last observed: 2012
- Occurrences: 2
- Individuals: 8600+
- Primary threats: road maintenance (grading, spraying, snow plowing), ORV use
- Land ownership/management: BLM, private

Penstemon penlandii



Penstemon scariosus var.
albifluvis
White River penstemon



- Federal status: Candidate, BLM sensitive
- Heritage ranks: G4T1/S1
- Global distribution: Utah and Colorado (Rio Blanco County); 5700-6700 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 3
- Colorado individuals: 200+
- Primary threats: overgrazing, oil and gas development, ORV use
- Land ownership/management: BLM, private



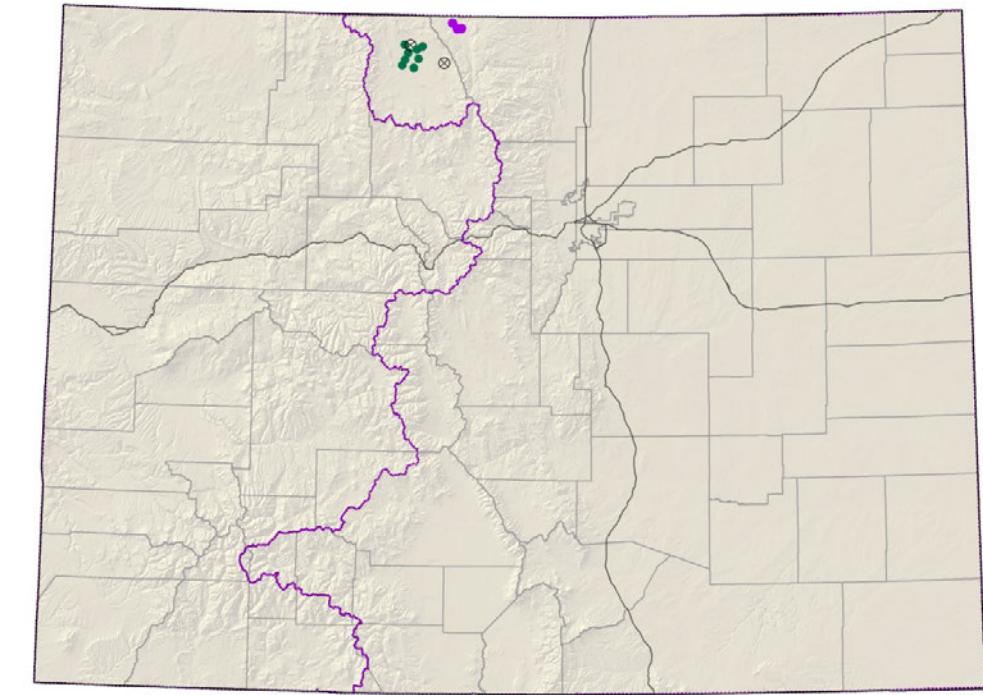
Penstemon scariosus var. *albifluvis*

Phacelia formosula

North Park phacelia

Conservation Action Plan

- Federal status: Endangered
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Jackson and Larimer counties); 7800-8500 ft.
- Last observed: 2013
- Occurrences: 13 (2 are historical)
- Individuals: 18,000-20,000
- Primary threats: ORV use, coal extraction, overgrazing, oil and gas development
- Land ownership/management: BLM, private, USFWS



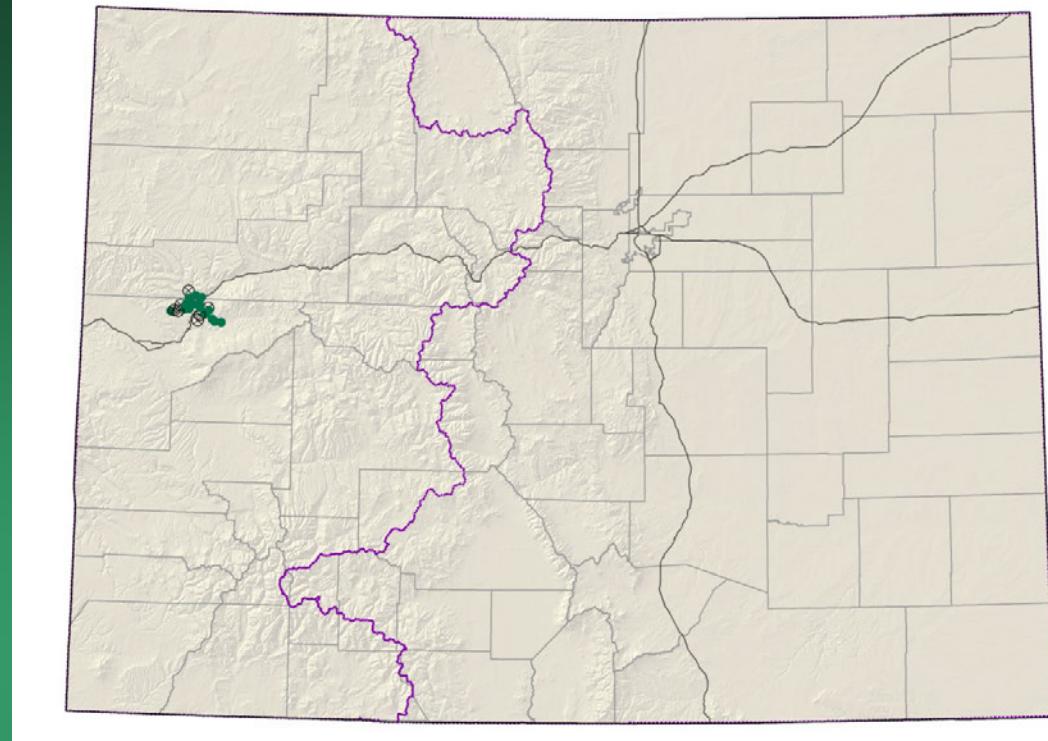


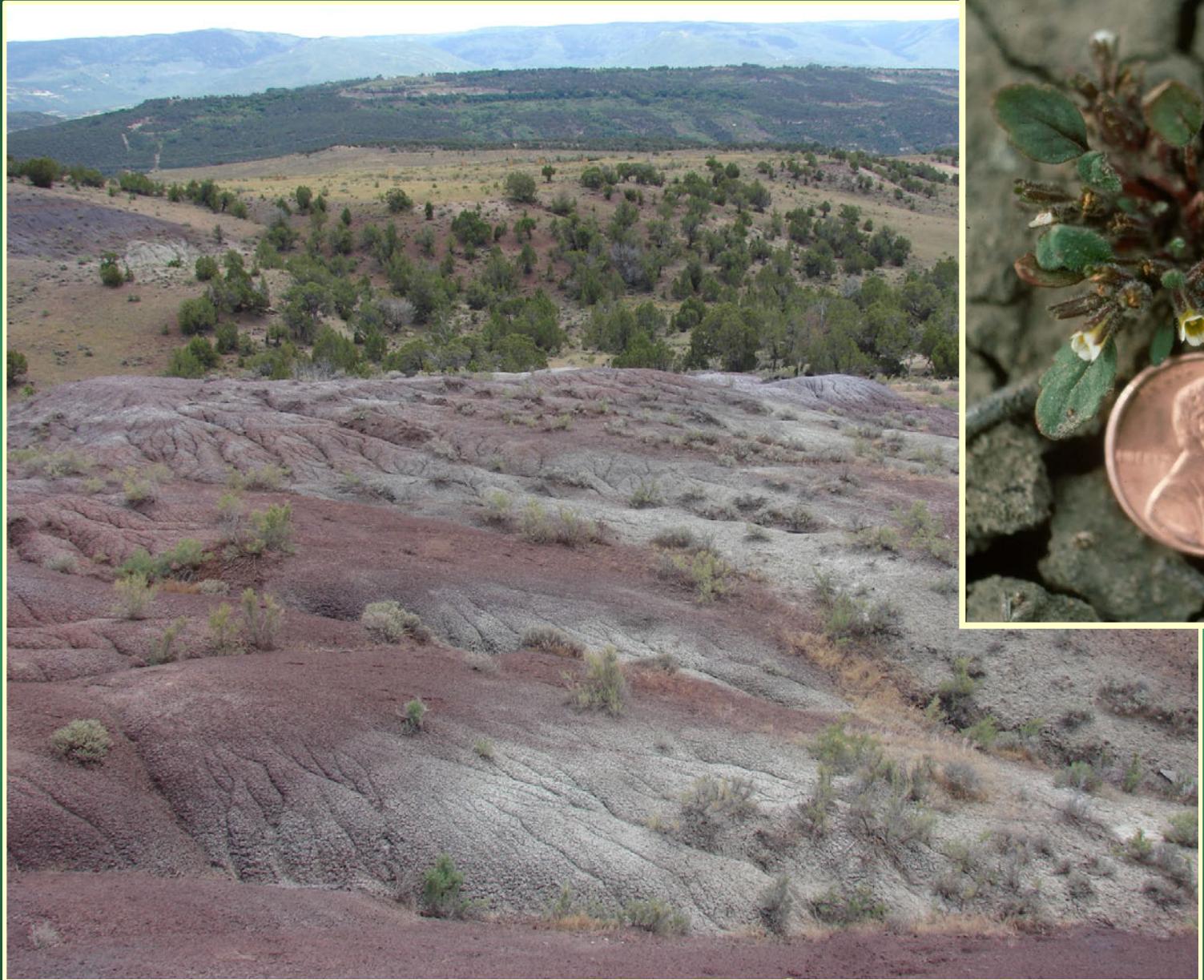
Phacelia formosula

Phacelia submutica

DeBeque phacelia

- Federal status: Threatened
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic (Garfield and Mesa counties); 5000-7100 ft.
- Last observed: 2013
- Occurrences: 22 (6 are historical)
- Individuals: 25,000-68,000
- Primary threats: oil and gas development, ORV use, overgrazing, oil shale mining
- Land ownership/management: BLM, private, USFS



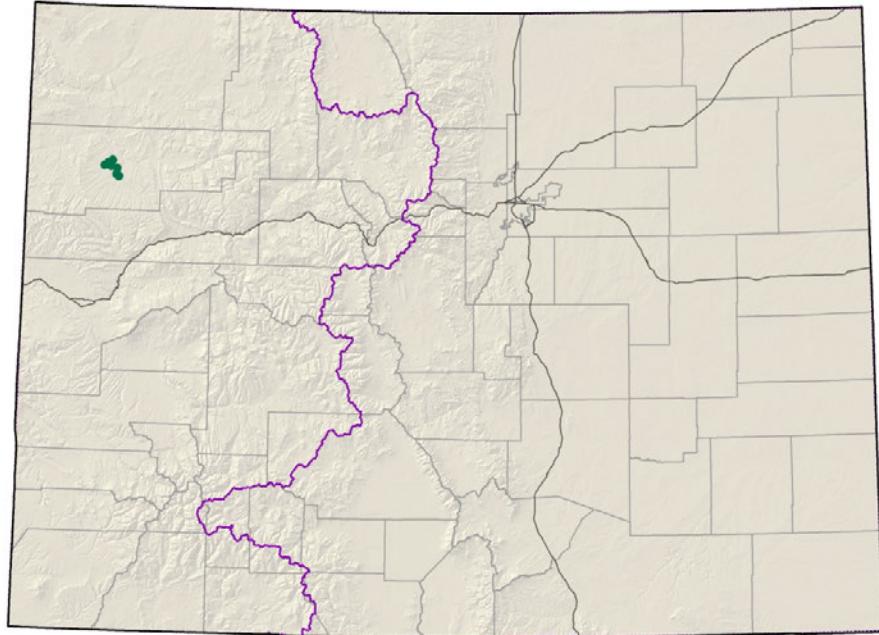


Phacelia submutica

Physaria congesta
= *Lesquerella congesta*
Dudley Bluffs bladderpod

Conservation Action Plan

- Federal status: Threatened
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Rio Blanco County); 6000-6500 ft.
- Last observed: 2012
- Occurrences: 7
- Individuals: 650,000
- Primary threats: oil and gas development, oil shale and nahcolite mining, ORV use, overgrazing, trampling by wild horses
- Land ownership/management: BLM, state, private



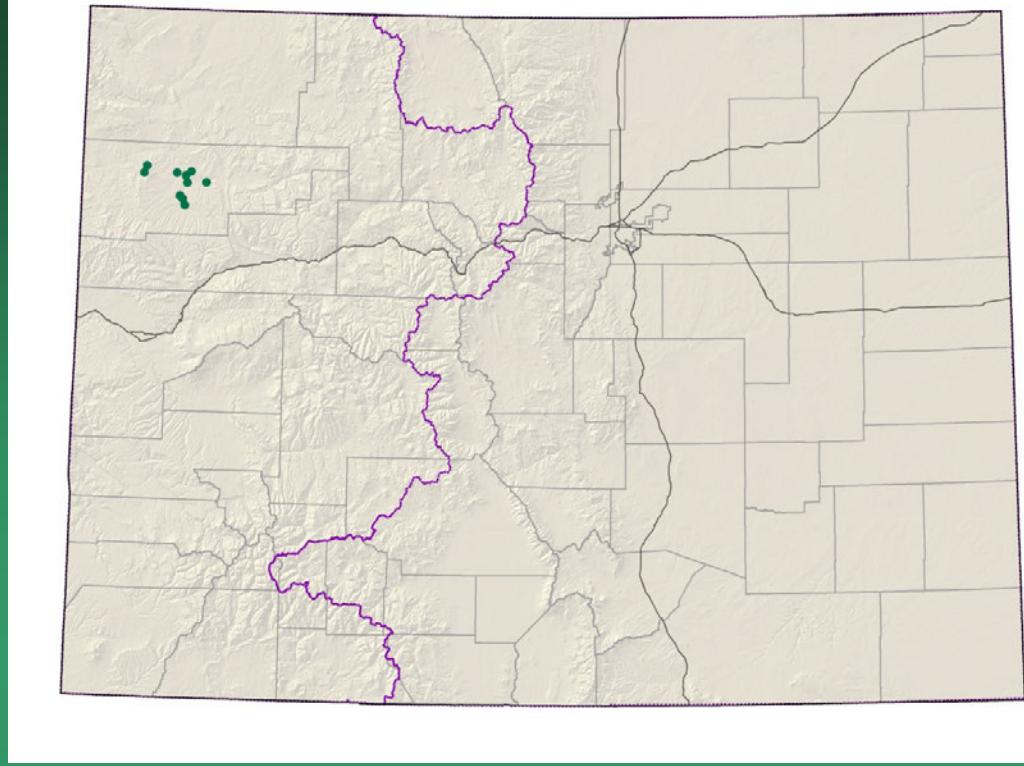
Physaria (Lesquerella) congesta



Physaria obcordata Piceance twinpod

Conservation Action Plan

- Federal status: Threatened
- Heritage ranks: G1G2/S1S2
- Global distribution: Colorado endemic (Rio Blanco County); 5900-7500 ft.
- Last observed: 2012
- Occurrences: 11
- Individuals: 30,000
- Primary threats: oil and gas development, oil shale and nahcolite mining, ORV use, trampling by wild horses
- Land ownership/management: BLM, state, private

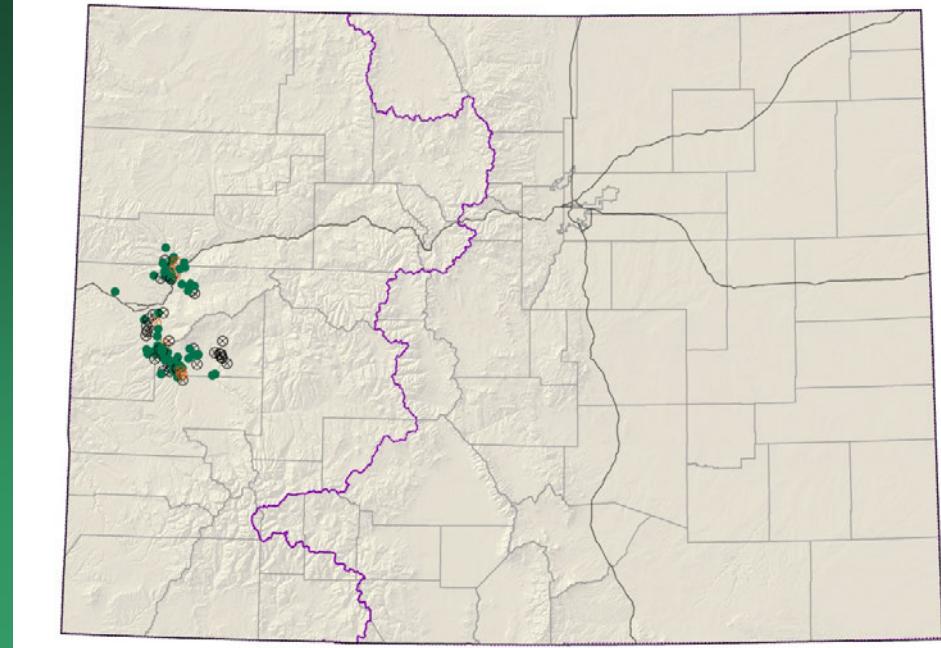




Physaria obcordata



Sclerocactus glaucus Colorado hookless cactus



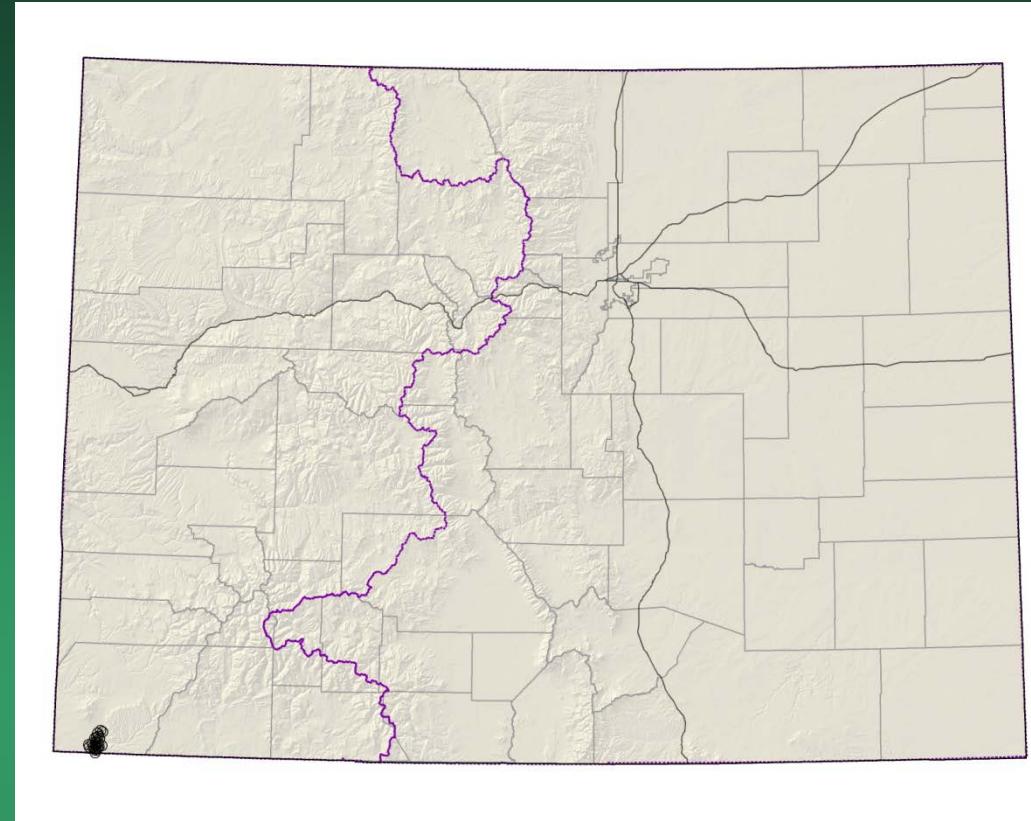
- Federal status: Threatened
- Heritage ranks: G2G3/S2S3
- Global distribution: Colorado (Delta, Garfield, Mesa, and Montrose counties); 4600-7100 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 82 (29 are historical or unrankable)
- Colorado individuals: ~15,000
- Primary threats: oil and gas development, residential development, cactus collecting
- Land ownership/management: BLM, state, private, USFS



Sclerocactus glaucus

Sclerocactus mesae-verdae Mesa Verde cactus

- Federal status: Threatened
- Heritage ranks: G2/S2
- Global distribution: New Mexico and Colorado (Montezuma County); 5000-5800 ft.
- Last observed in Colorado: 2005
- Colorado occurrences: 22 – probably a single large occurrence
- Colorado individuals: 2,000-10,000
- Primary threats: cactus collecting, oil and gas development, ORV use
- Land ownership/management: Ute Mountain Ute



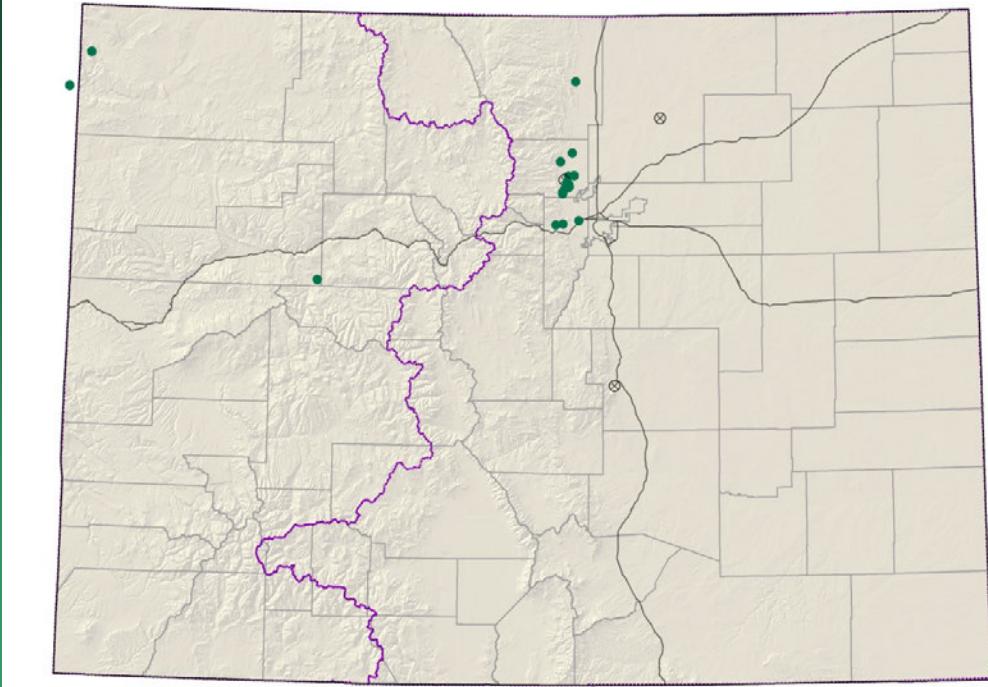


Sclerocactus mesae-verdae

Spiranthes diluvialis

Ute ladies'-tresses

- Federal status: Threatened
- Heritage ranks: G2G3/S2
- Global distribution: Washington, Idaho, Montana, Wyoming, Nevada, Utah, Nebraska, and Colorado (Boulder, El Paso, Garfield, Jefferson, Larimer, Moffat, and Weld counties); 4500-7800 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 17 (3 are historical)
- Colorado individuals: 17,500
- Primary threats: weeds, residential development, hydrological alterations
- Land ownership/management: NPS, City of Fort Collins, City of Boulder, City of Wheat Ridge, Jefferson County, USFWS, Private, BLM, City of Carbondale





Spiranthes diluvialis

