

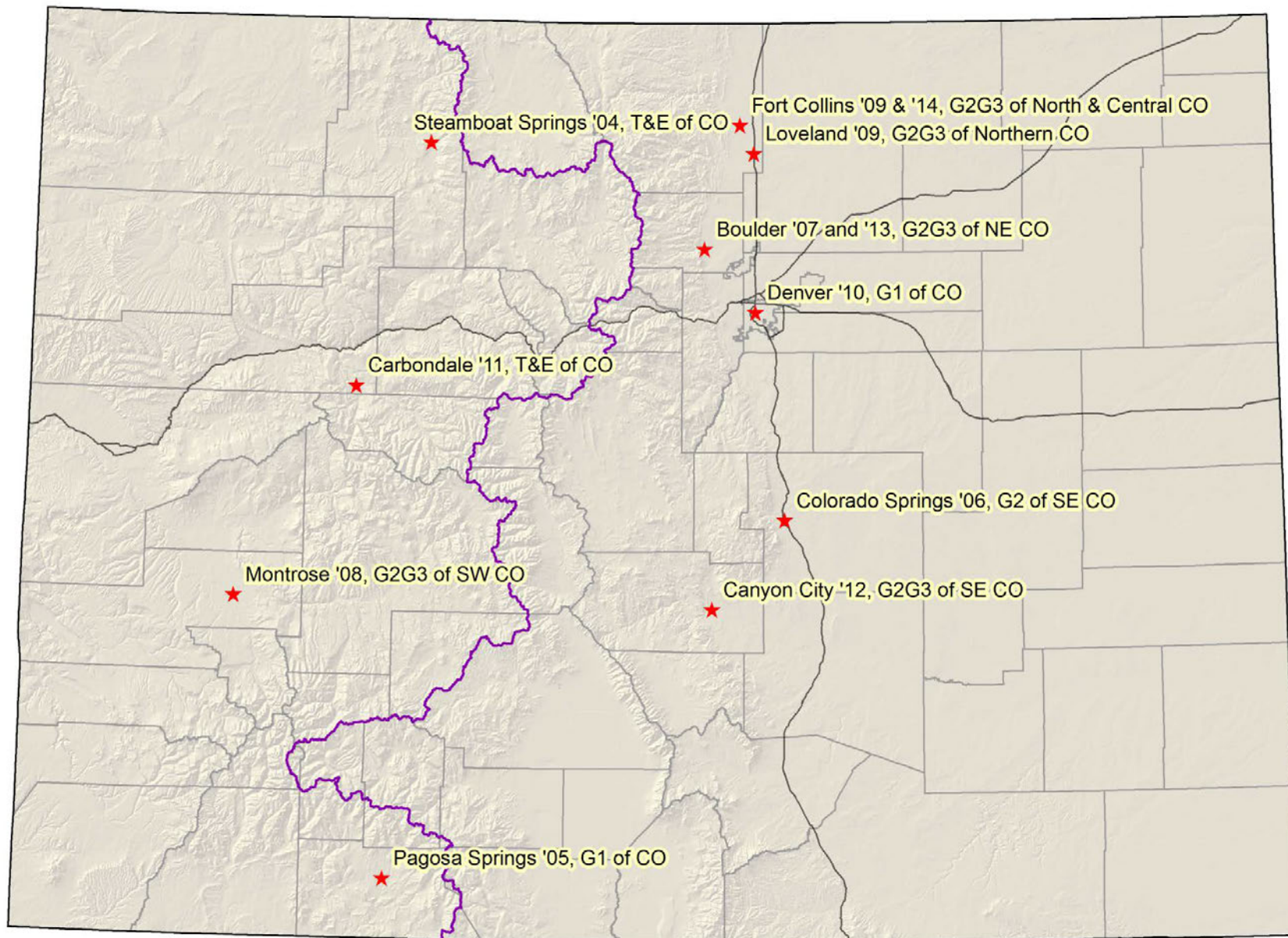
The Colorado Rare Plant Technical Committee presents:

11th Annual Colorado Rare Plant Symposium

October 3, 2014
Fort Collins, Colorado

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





Species lists from current and previous years

2004/2011 - T & E Species Statewide

<i>Astragalus humillimus</i>	<i>Spiranthes diluvialis</i>	<i>Mimulus gemmiparus</i>
<i>Astragalus microcymbus</i>	2005/2010 - G1 Species Statewide	<i>Oreoxis humilis</i>
<i>Astragalus osterhoutii</i>		<i>Penstemon gibbensii</i>
<i>Astragalus schmolliae</i>	<i>Aletes latilobus</i>	<i>Physaria pulvinata</i>
<i>Astragalus tortipes</i>	<i>Aliciella sedifolia</i>	<i>Physaria scrotiformis</i>
<i>Eriogonum pelinophilum</i>	<i>Astragalus deterior</i>	
<i>Eutrema penlandii</i>	<i>Astragalus lonchocarpus</i> var. <i>hamiltonii</i>	
<i>Ipomopsis polyantha</i>	<i>Boechera glareosa</i>	
<i>Oenothera coloradensis</i> ssp. <i>coloradensis</i>	<i>Botrychium lineare</i>	
<i>Pediocactus knowltonii</i>	<i>Botrychium</i> tax. nov. “ <i>furcatum</i> ”	
<i>Penstemon debilis</i>	<i>Corispermum navicula</i>	
<i>Penstemon grahamii</i> *	<i>Cryptantha gypsophila</i> (<i>Oreocarya reavealii</i>)	
<i>Penstemon penlandii</i>	<i>Descurainia kenheilii</i>	
<i>Penstemon scariosus</i> var. <i>albifluvis</i>	<i>Draba malpighiacea</i>	
<i>Phacelia formosula</i>	<i>Draba weberi</i>	
<i>Phacelia submutica</i>	<i>Erigeron wilkenii</i>	
<i>Physaria congesta</i>	<i>Eriogonum brandegeei</i>	
<i>Physaria obcordata</i>	<i>Gutierrezia elegans</i>	
<i>Sclerocactus glaucus</i>	<i>Hackelia gracilentia</i>	
<i>Sclerocactus mesae-verdae</i>	<i>Lygodesmia doloresensis</i>	

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

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

Asclepias uncialis ssp. *uncialis*

Cleome multicaulis

Delphinium ramosum var. *alpestre*

Delphinium robustum

Draba exungiculata

Draba grayana

Draba smithii

Herrickia horrida

Lesquerella (*Physaria*) *calcicola*

Nuttallia chrysantha

Nuttallia densa

Oenothera harringtonii

Oonopsis foliosa var. *monocephala*

Oonopsis puebloensis

Oxybaphus rotundifolius

Penstemon degeneri

Ptilagrostis porteri

Telesonix jamesii

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

2009/2014 - G2G3 Species North & Central Colo

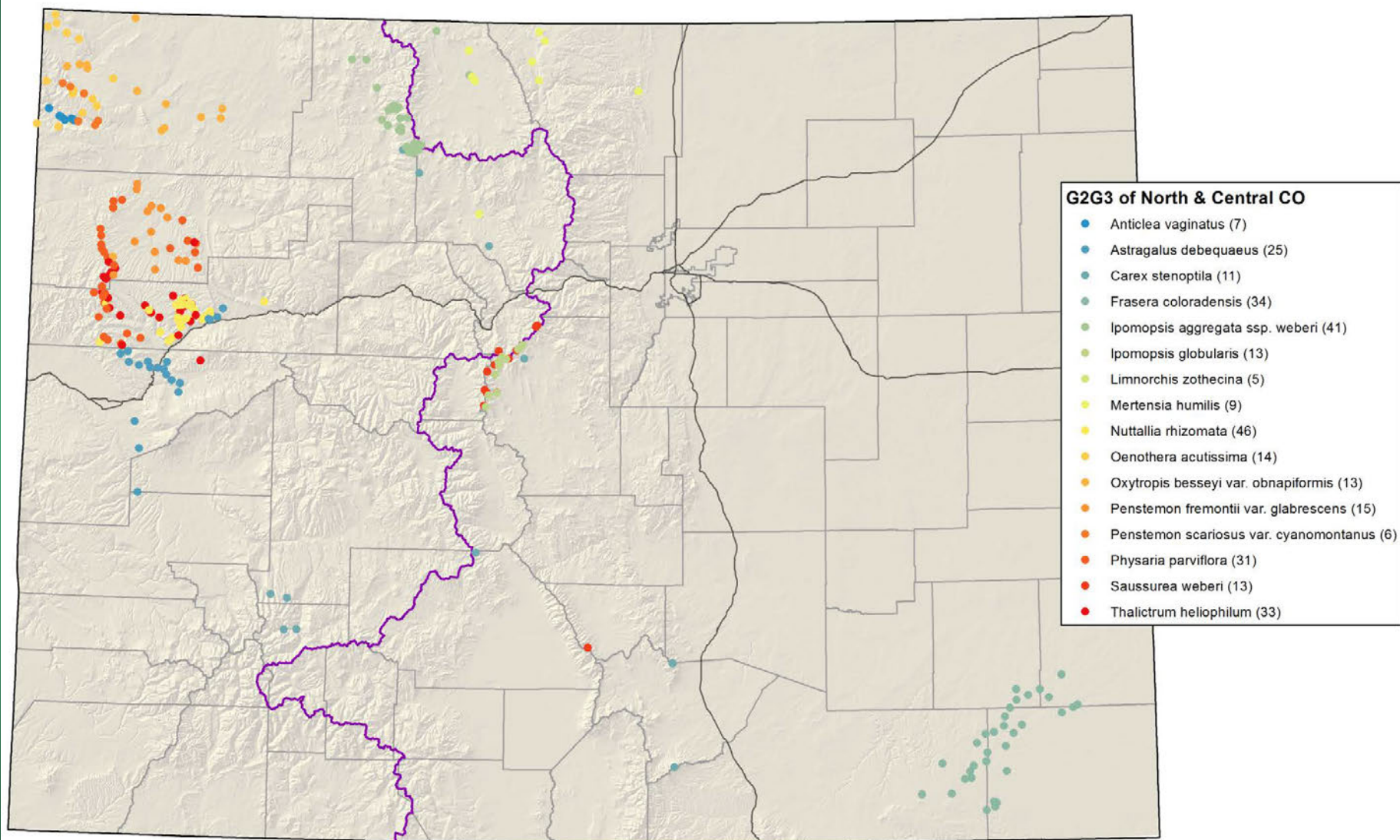
Astragalus anisus
Astragalus cronquistii
Astragalus equisolensis
Astragalus iodopetalus
Astragalus naturitensis
Astragalus piscator
Astragalus rafaensis
Boechera crandallii
Camissonia eastwoodiae
Castilleja puberula
Cirsium perplexans
Draba graminea
Erigeron kachinensis
Eriogonum clavellatum
Eriogonum coloradense
Lepidium crenatum
Lesquerella (Physaria) pruinosa
Lesquerella (Physaria) vicina
Lomatium concinnum

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

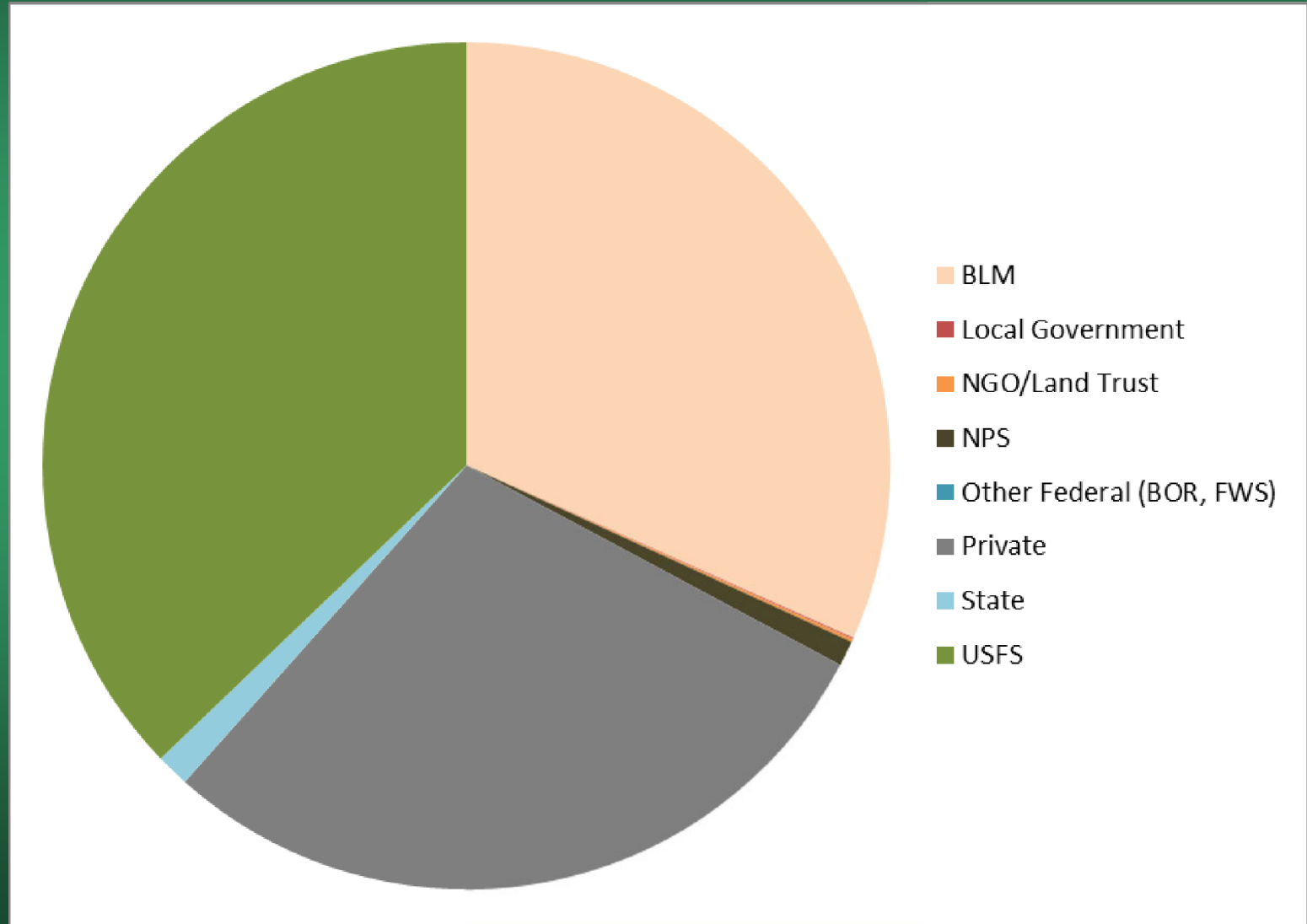
Anticlea vaginatus
Astragalus debequaeus
Carex stenoptila
Ipomopsis aggregata ssp. *weberi*
Ipomopsis globularis
Lesquerella (Physaria) parviflora
Limnorchis zothecina
Mentzelia (Nuttallia) rhizomata
Mertensia humilis
Oenothera acutissima
Oxytropis besseyi var. *obnapiformis*
Penstemon fremontii var.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

2009/2014

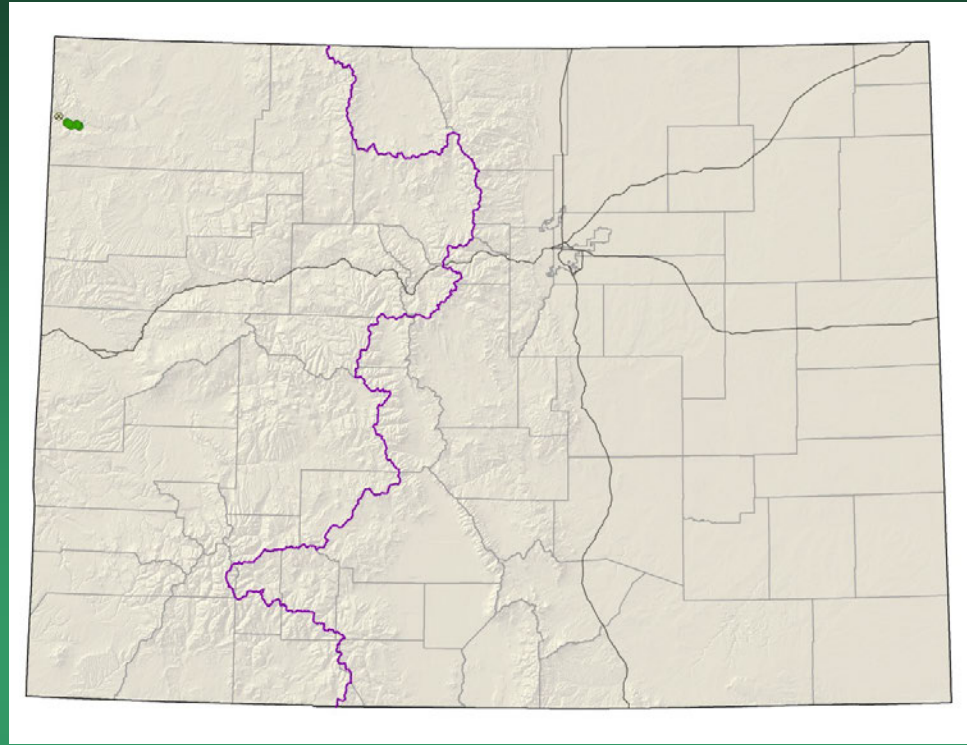
Colorado Rare Plant Symposia
NW & Central Colorado
G2G3 species



Land Ownership of G2G3 Plant Species of NW & Central Colorado



Anticlea vaginatus
=*Zigadenus vaginatus*
sheathed deathcamas



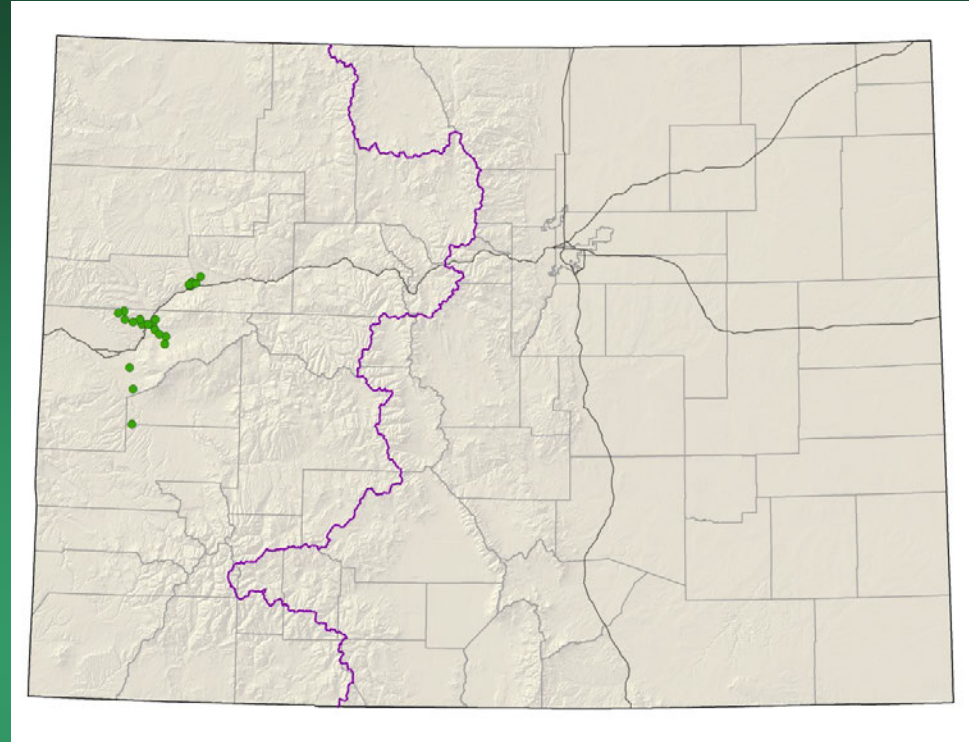
- Federal status: none
- Heritage ranks: G2/S2
- Global distribution: Utah and Colorado (Moffat county)
- Elevation range: 5,220-5,885 ft.
- Last observed in Colorado: 2012
- Colorado occurrences: 7 (1 is historical)
- Colorado individuals: 1100+
- Primary threats: hydrologic alteration
- Land ownership/management: NPS

Anticlea vaginatus



Astragalus debequaeus

Debeque milkvetch

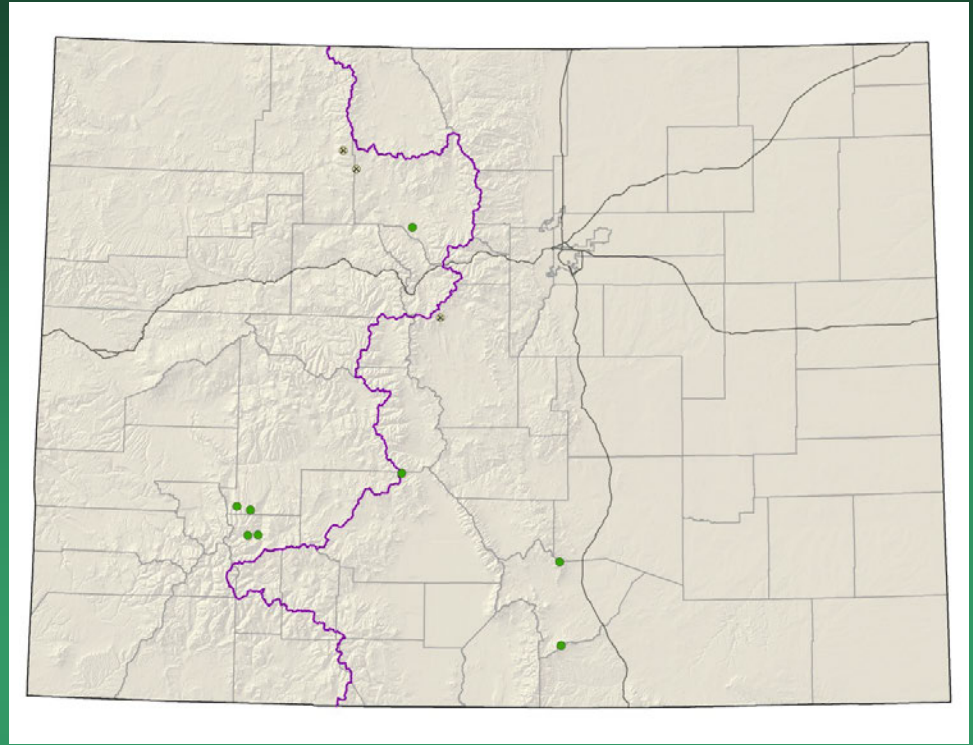


- Federal status: BLM sensitive
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic (Garfield and Mesa counties)
- Elevation range: 4,950-6,680 ft.
- Last observed in Colorado: 2014
- Colorado occurrences: 25
- Colorado individuals: >62,000
- Primary threats: Disturbance by oil and gas development
- Land ownership/management: BLM, private



Astragalus debequaeus

Carex stenoptila small-winged sedge



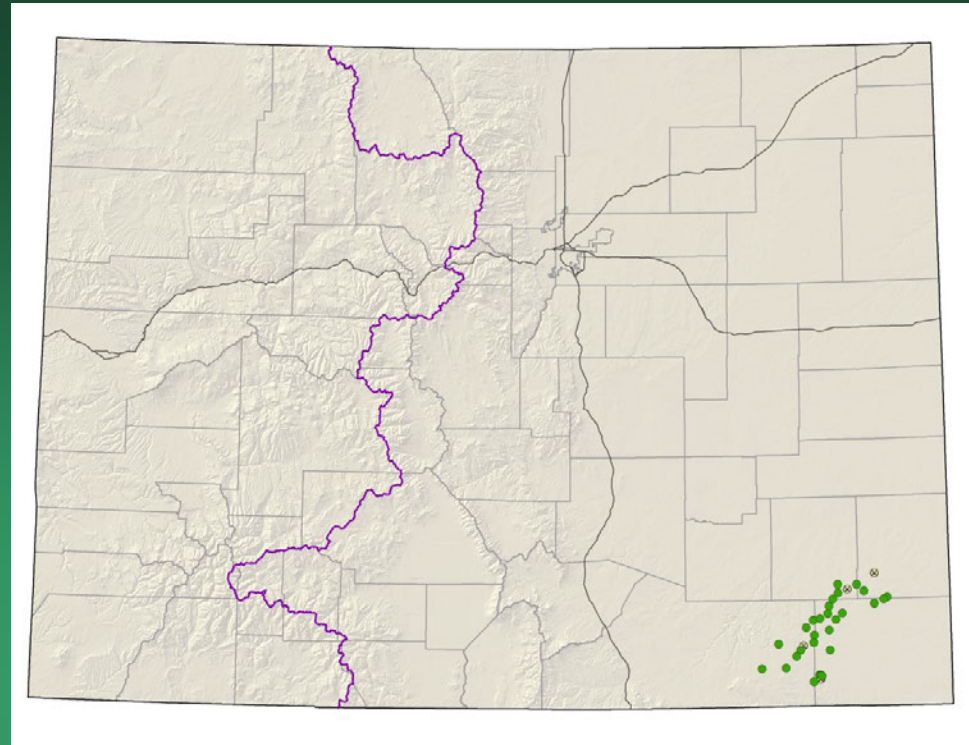
- Federal status: none
- Heritage ranks: G2/S2
- Global distribution: Montana, Wyoming, and Colorado (Park, Routt, Grand, Gunnison, Hinsdale, Saguache, and Huerfano counties)
- Elevation range: 8,555-13,760 ft.
- Last observed in Colorado: 1999
- Colorado occurrences: 11 (3 are historical)
- Colorado individuals: unknown
- Primary threats: none known
- Land ownership/management: BLM, private, USFS

Carex stenoptila



Frasera coloradnesis

Colorado gentian

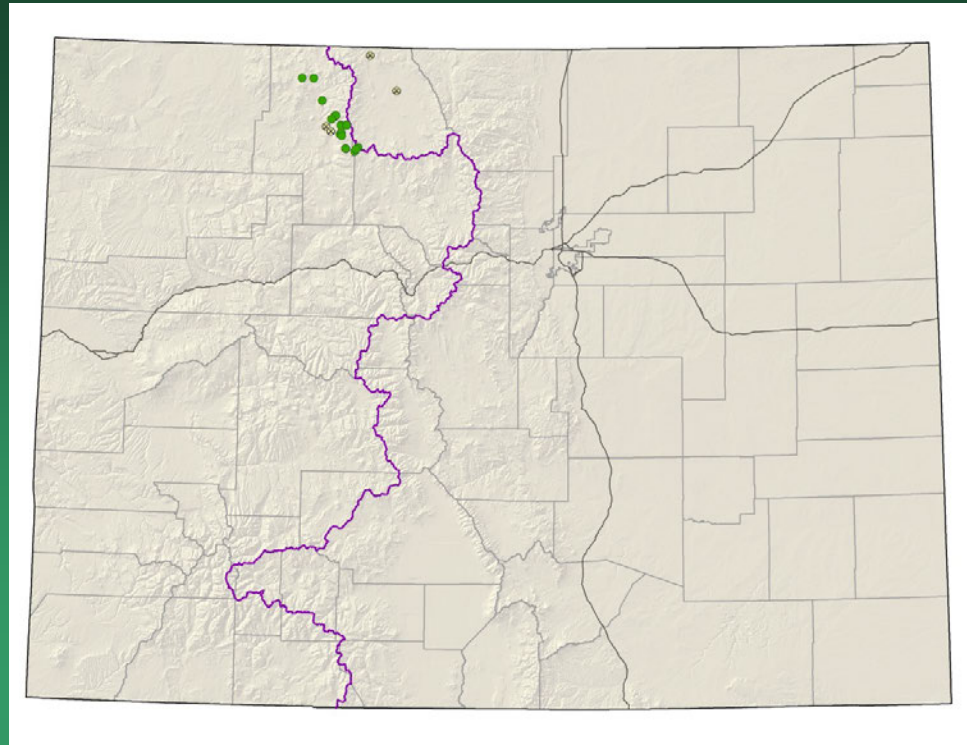


- Federal status: none
- Heritage ranks: **G2G3/S2S3**
- Global distribution: Colorado endemic; (Baca, Bent, Prowers, and Las Animas counties)
- Elevation range: 4070-5800 ft.
- Last observed in Colorado: **2013**
- Colorado occurrences: 30(3 are historical)
- Colorado individuals: **275,000**
- Primary threats: wind energy, agriculture, and road maintenance
- Land ownership/management: NGO/land trust, private, state, USFS



Frasera coloradensis

Ipomopsis aggregata
ssp. weberi
Weber's scarlet gilia

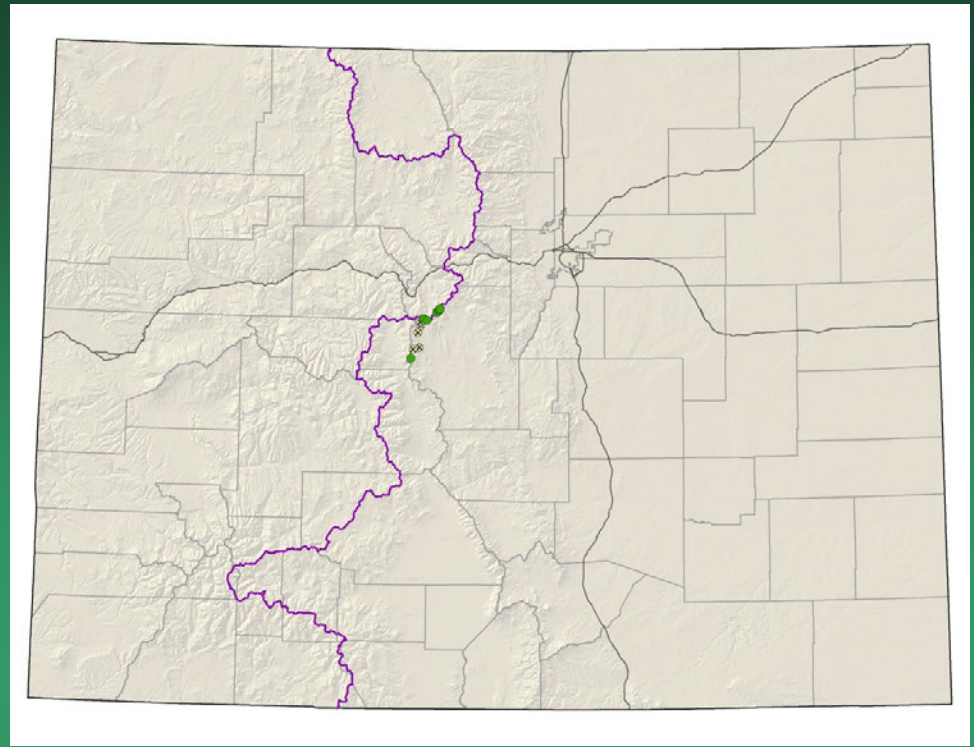


- Federal status: USFS sensitive
- Heritage ranks: G5T2/S2
- Global distribution: Regional endemic of northern Idaho, south-central Wyoming, and north-central Colorado (Grand, Routt and Jackson counties)
- Elevation range: 6,630-10,570 ft.
- Last observed in Colorado: 2009
- Colorado occurrences: 17 (5 are historical)
- Colorado individuals: >5300
- Primary threats: recreational use of habitat
- Land ownership/management: BLM, local government, private, state, USFS

Ipomopsis aggregata ssp. *weberi*



Ipomopsis globularis globe gilia

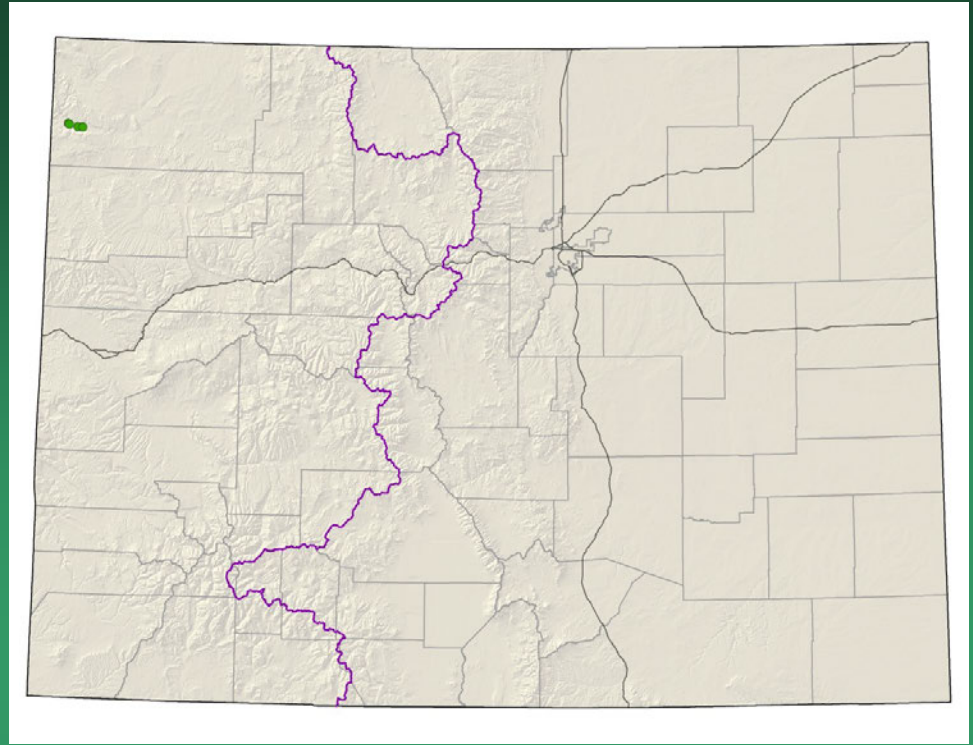


- Federal status: none
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic (Lake, Park, and Summit counties)
- Elevation range: 10,650-13,500 ft.
- Last observed in Colorado: 2014
- Colorado occurrences: 9 (5 are historical)
- Colorado individuals: estimated 6,000 - 11,000
- Primary threats: motorized recreation, mining development
- Land ownership/management: NGO/land trust, private, USFS

Ipomopsis globularis



Limnorchis zothecina
(=*Platanthera zothecina*)
alcove bog orchid



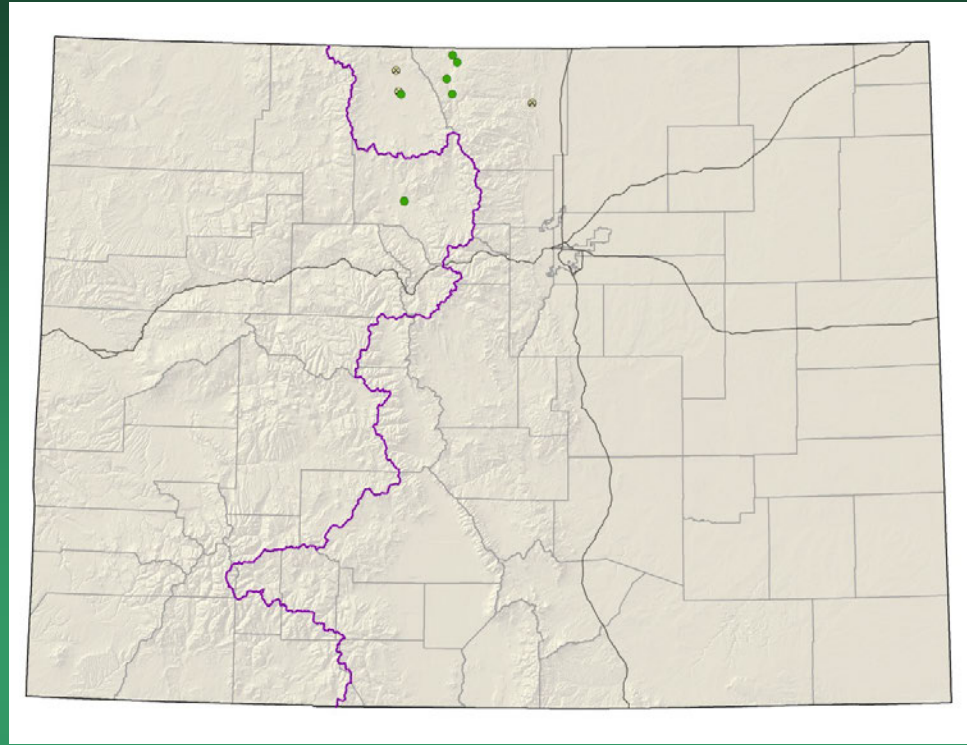
- Federal status: none
- Heritage ranks: G2/S1
- Global distribution: Utah, Arizona, and Colorado (Moffat County)
- Elevation range: 5,220-5,900 ft.
- Last observed in Colorado: 2012
- Colorado occurrences: 5
- Colorado individuals: ~250
- Primary threats: none known
- Land ownership/management: NPS

Limnorchis zothecina



Mertensia humilis

Rocky Mountain bluebells

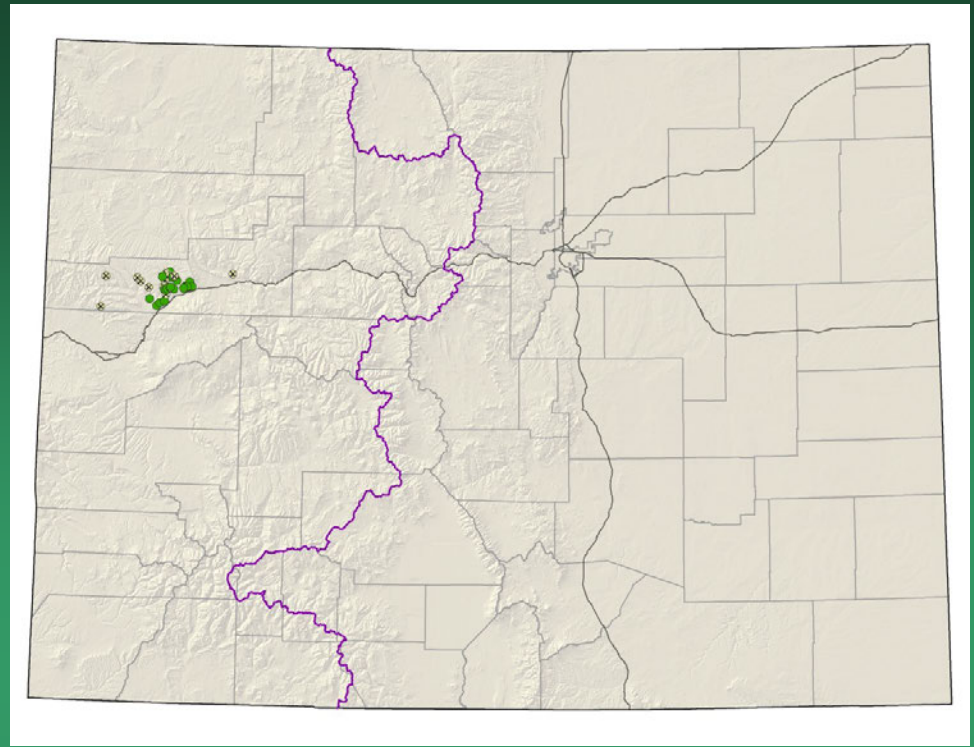


- Federal status: none
- Heritage ranks: G2/S1
- Global distribution: Wyoming and Colorado (Jackson and Larimer counties)
- Elevation range: 5,270-9,560 ft.
- Last observed in Colorado: 2011
- Colorado occurrences: 9 (3 are historical)
- Colorado individuals: unknown
- Primary threats: none known
- Land ownership/management: BLM, federal, state, private, USFS



Mertensia humilis

Nuttallia (Mentzelia)
rhizomata
Roan Cliffs blazing star

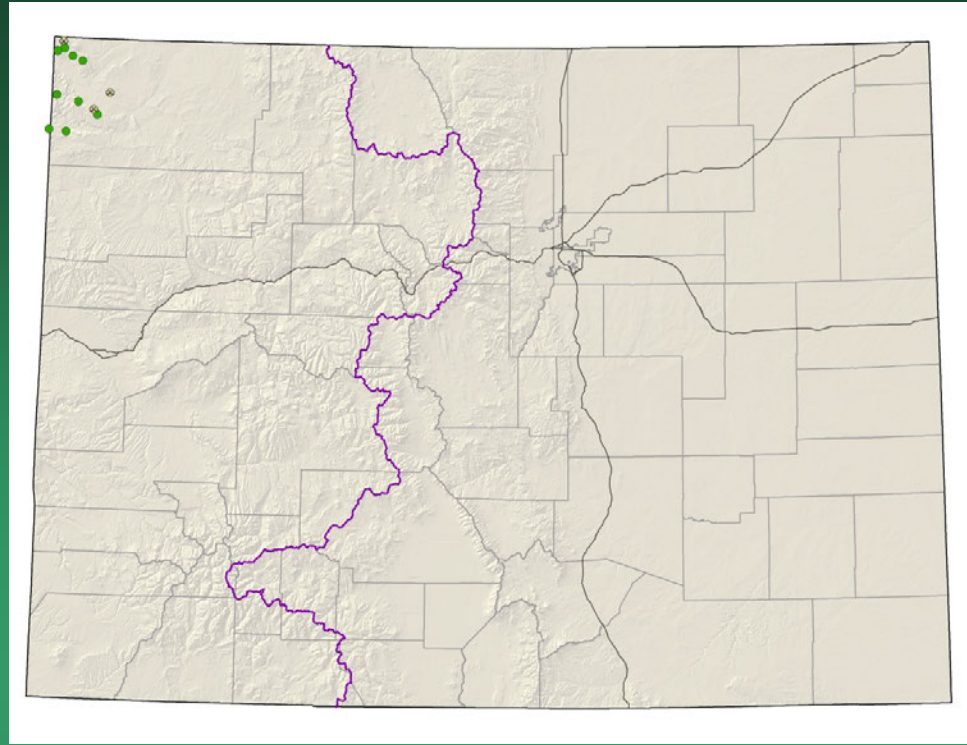


- Federal status: BLM sensitive
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic (Rio Blanco County)
- Elevation range: 5,250-9,190 ft.
- Last observed in Colorado: 2011
- Colorado occurrences: 24 (9 are historical)
- Colorado individuals: >24,500
- Primary threats: Oil shale mining and oil and gas development
- Land ownership/management: BLM, private

Nuttallia rhizomata



Oenothera acutissima
narrow-leaf
evening-primrose

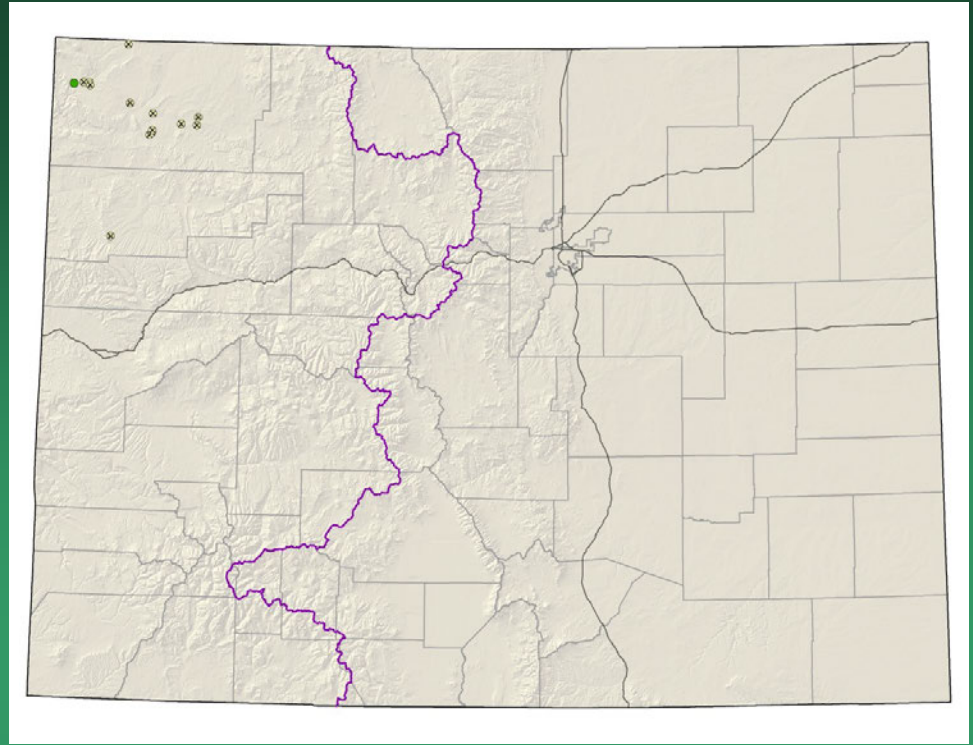


- Federal status: BLM sensitive
- Heritage ranks: G2/S2
- Global distribution: Utah and Colorado (Moffat County)
- Elevation range: 5,300-9,100 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 14 (3 are historical)
- Colorado individuals: >4,000
- Primary threats: hydrologic alteration, habitat degradation from livestock use
- Land ownership/management: BLM, NPS, state, private

Oenothera acutissima



Oxytropis besseyi var.
obnapiformis
Bessey's locoweed

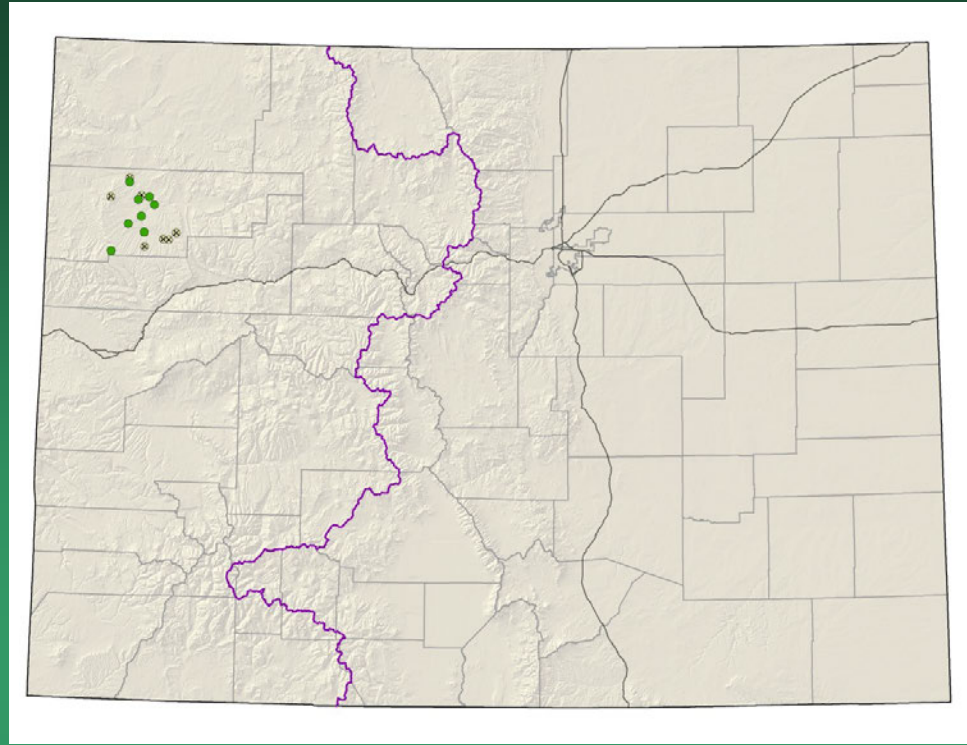


- Federal status: none
- Heritage ranks: G5T2/S2
- Global distribution: Utah, Wyoming, and Colorado (Moffat and Rio Blanco Cos.)
- Elevation range: 5,360-8,430 ft.
- Last observed in Colorado: 2012
- Colorado occurrences: 14 (13 are historical)
- Colorado individuals: unknown, perhaps in the 100s
- Primary threats: oil and gas development
- Land ownership/management: BLM, NPS, state, private

Oxytropis besseyi var. *obnapiformis*



Penstemon fremontii
var. glabrescens
Fremont's beardtongue



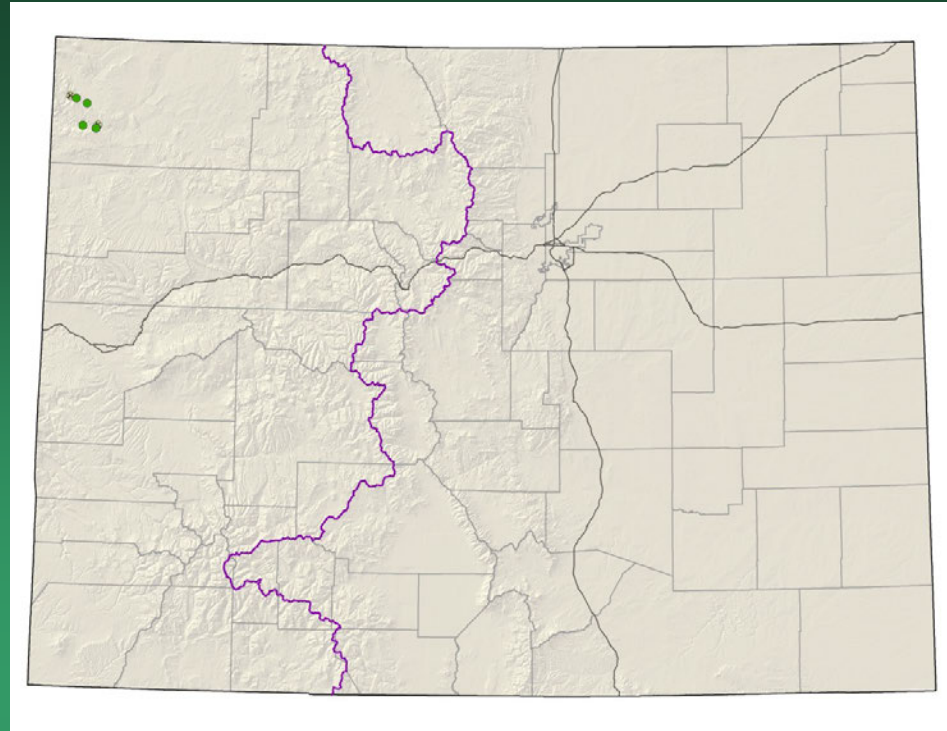
- Federal status: none
- Heritage ranks: G3G4T2/S2
- Global distribution: Colorado endemic (Rio Blanco County)
- Elevation range: 5,515-8,580 ft.
- Last observed in Colorado: 2010
- Colorado occurrences: 15 (7 are historical)
- Colorado individuals: unknown
- Primary threats: oil and gas development
- Land ownership/management: BLM, state, private

Penstemon fremontii var. *glabrescens*



Penstemon scariosus
var. cyanomontanus

Blue Mountain beardtongue



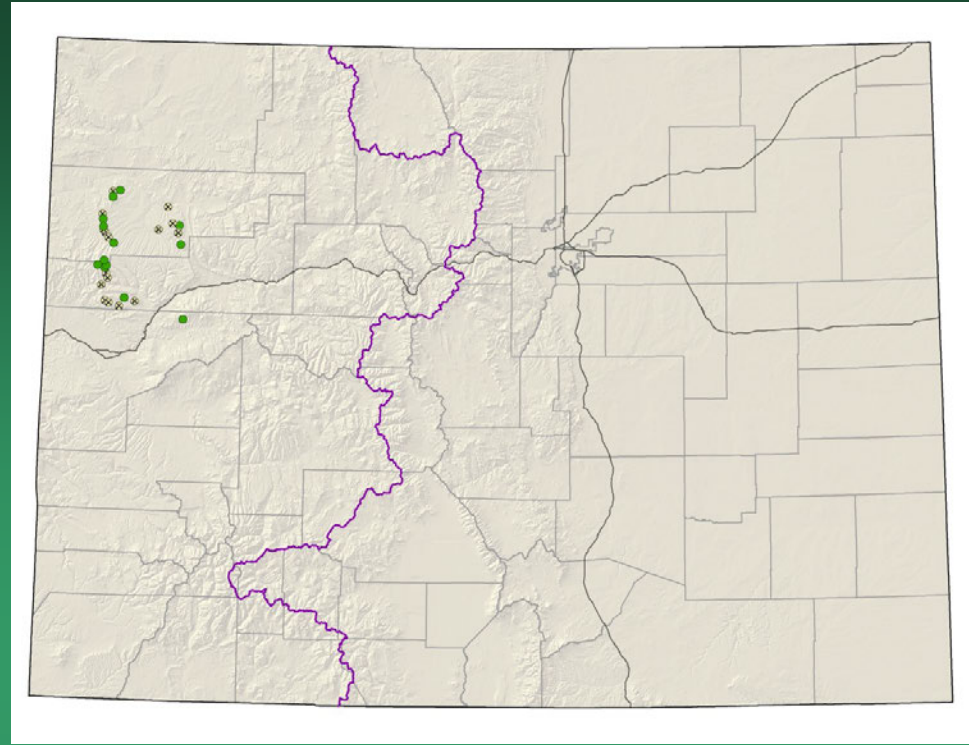
- Federal status: none
- Heritage ranks: G4T2/S2
- Global distribution: Utah and Colorado (Moffat County)
- Elevation range: 5,270-8,790 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 6 (1 historical)
- Colorado individuals: >19,000
- Primary threats: incompatible grazing
- Land ownership/management: NPS, BLM, state



Penstemon scariosus var. *cyanomontanus*



Physaria parviflora=
Lesquerella parviflora
Piceance bladderpod



- Federal status: BLM sensitive
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic (Rio Blanco, Garfield, and Mesa counties)
- Elevation range: 6,115-8,940 ft.
- Last observed in Colorado: 2012
- Colorado occurrences: 28 (16 are historical)
- Colorado individuals: >230,000
- Primary threats: Oil shale mining and oil and gas development
- Land ownership/management: BLM, state, private, USFS

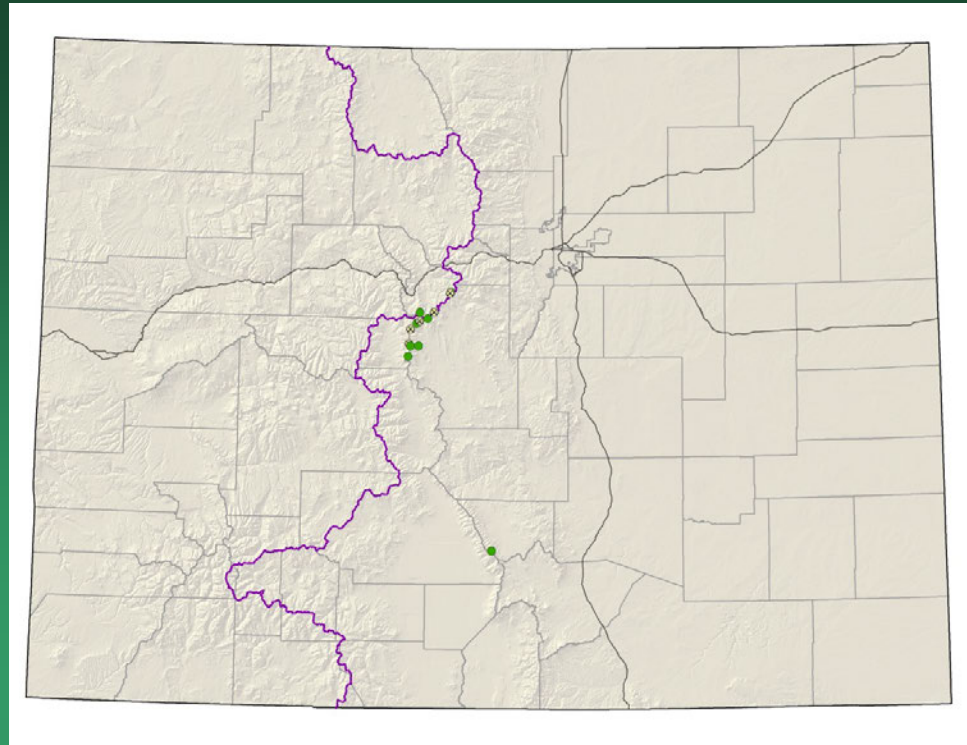


Physaria parviflora



Saussurea weberi

Weber's saw-wort



- Federal status: none
- Heritage ranks: G2G3/S2
- Global distribution: Regional endemic of southwest Montana, northwest Wyoming, and central Colorado (Custer, Fremont, Park and Summit counties)
- Elevation range: 11,630-13,125 ft.
- Last observed in Colorado: 2014
- Colorado occurrences: 13 (5 are historical)
- Colorado individuals: >6300
- Primary threats: may be threatened by mining and alpine grazing
- Land ownership/management: BLM, private, USFS

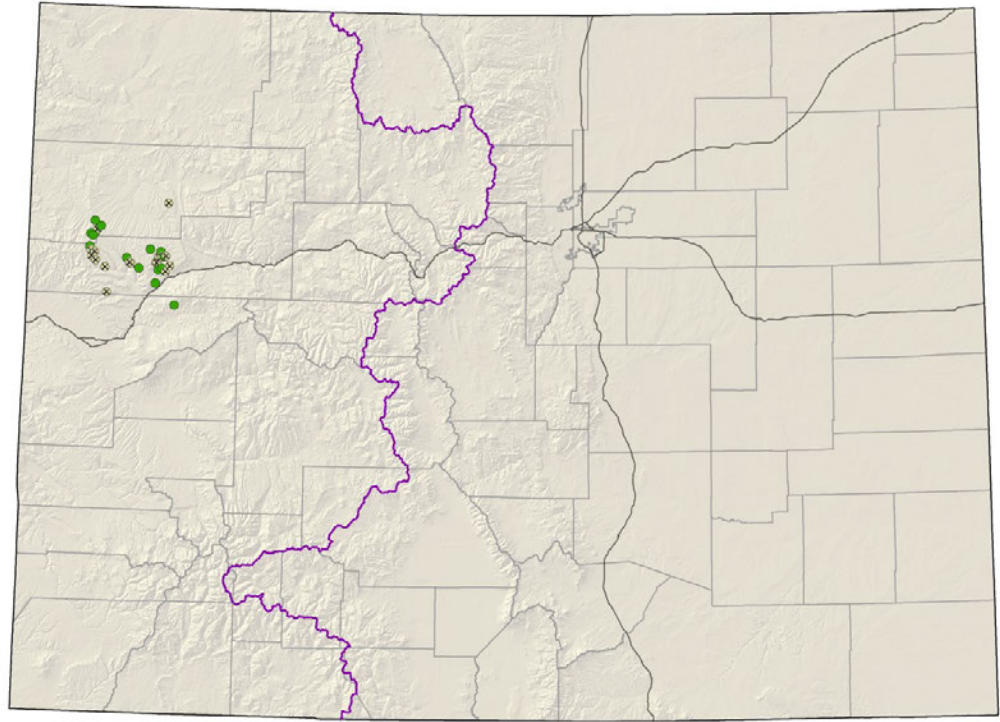
Saussurea weberi



Thalictrum heliophilum

Sun-loving meadowrue

- Federal status: BLM & USFS sensitive
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic (Garfield, Mesa, and Rio Blanco counties)
- Elevation range: 5,950-8,900 ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 33 (18 are historical)
- Colorado individuals: <200,000
- Primary threats: Oil and gas development, grazing, weeds
- Land ownership/management: BLM, state, private, USFS

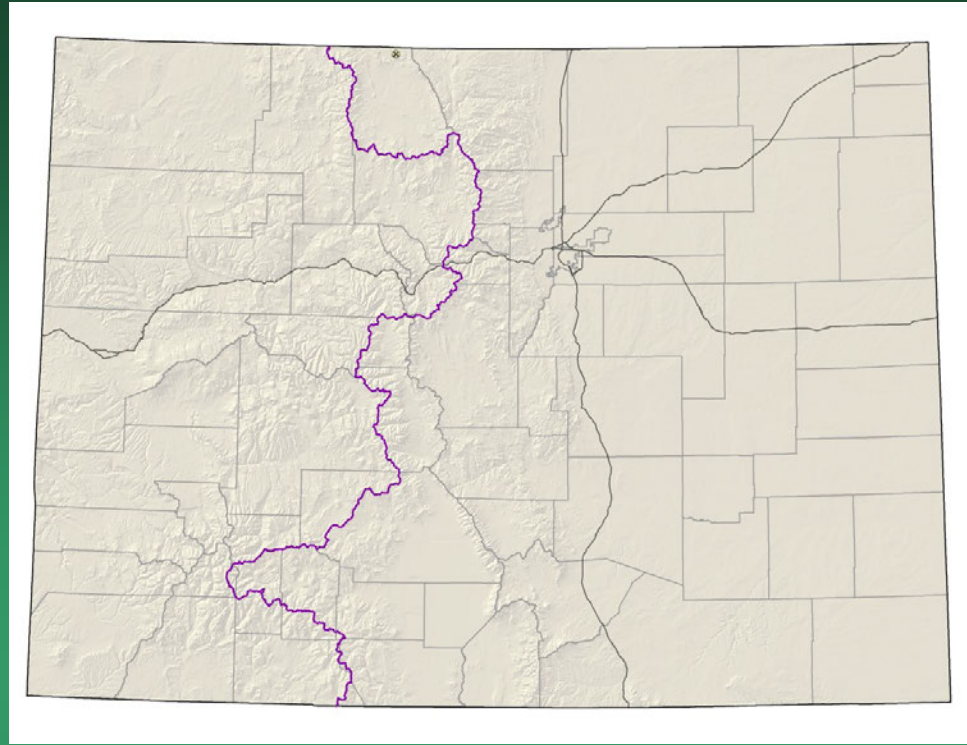


Thalictrum heliophilum



Thelypodium paniculatum

Northwest thelypody

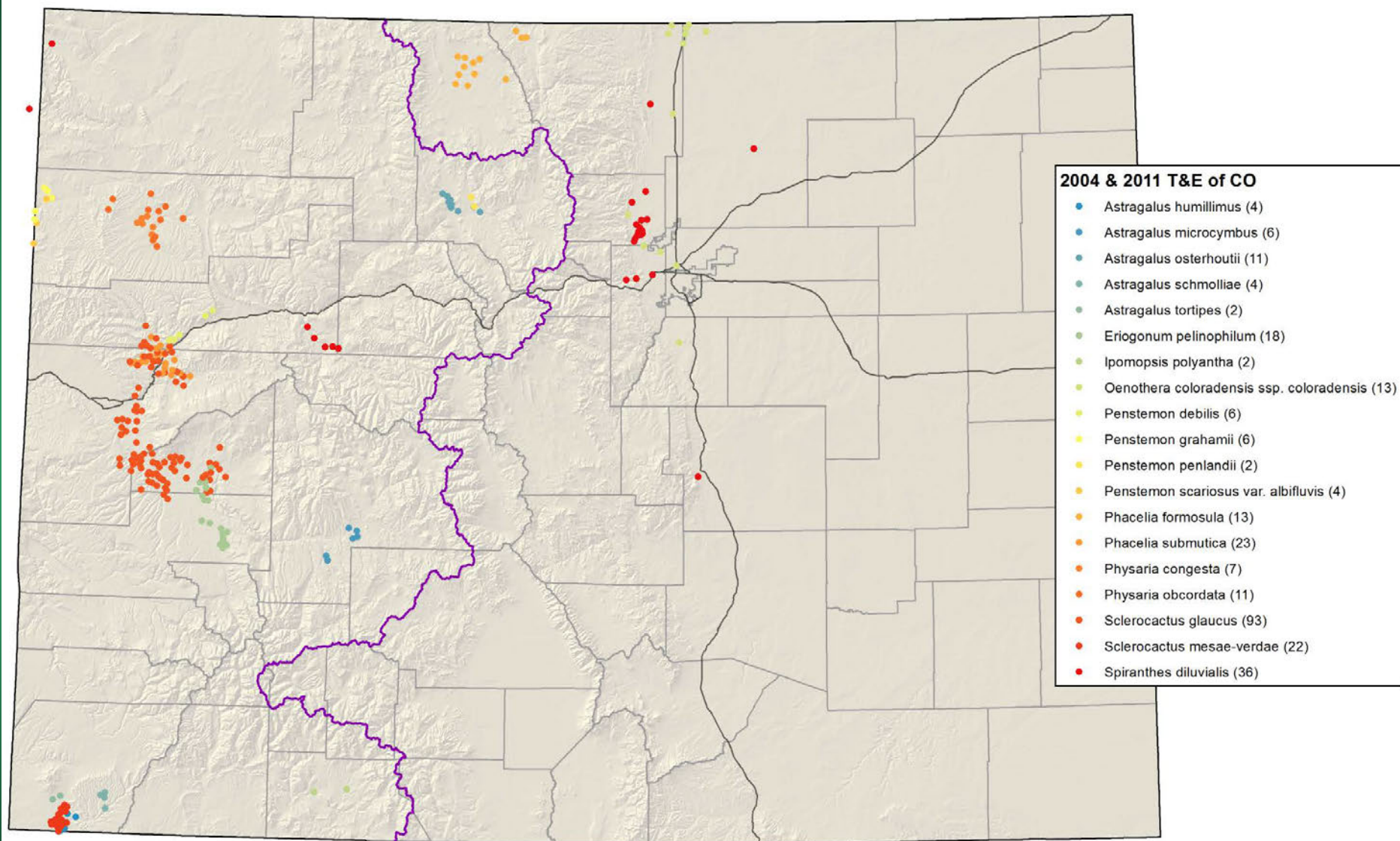


- Federal status: none
- Heritage ranks: G2/SH
- Global distribution: Idaho, Montana, Wyoming, and Colorado (Jackson County)
- Elevation range: 7,000-8,000 ft.
- Last observed in Colorado: 1903
- Colorado occurrences: 1 historical
- Colorado individuals: unknown
- Primary threats: altered hydrology?
- Land ownership/management: BLM, private, USFS

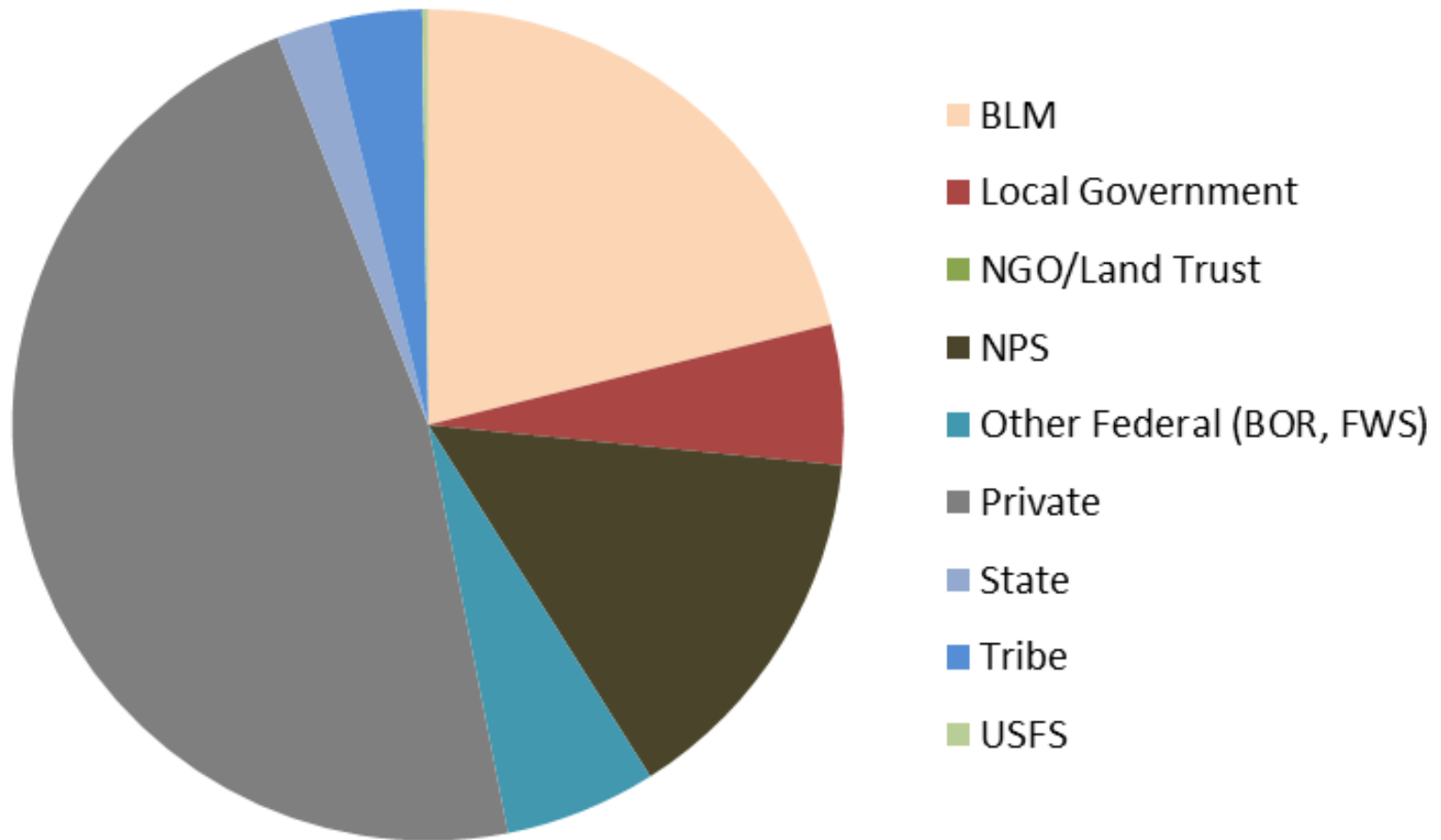
Thelypodium paniculatum



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

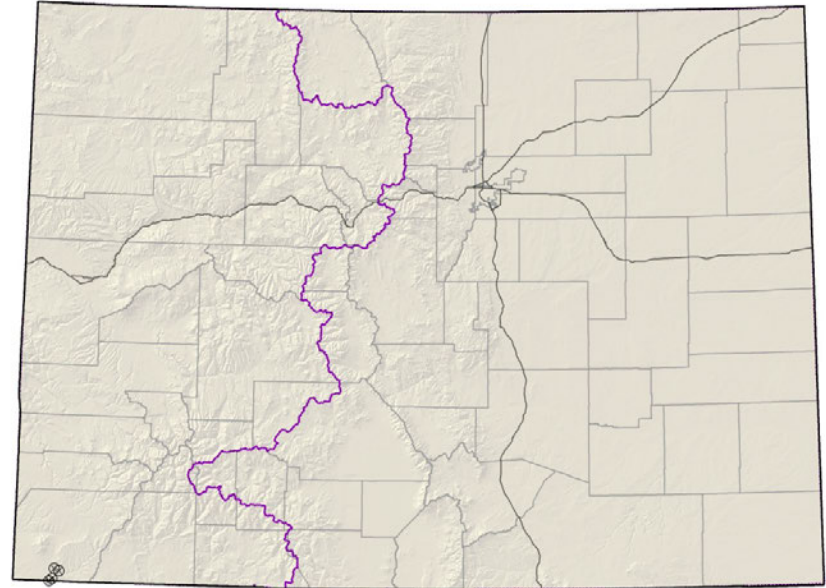


Land Ownership of T&E Plant Species of Colorado



Astragalus humillimus

Mancos milkvetch



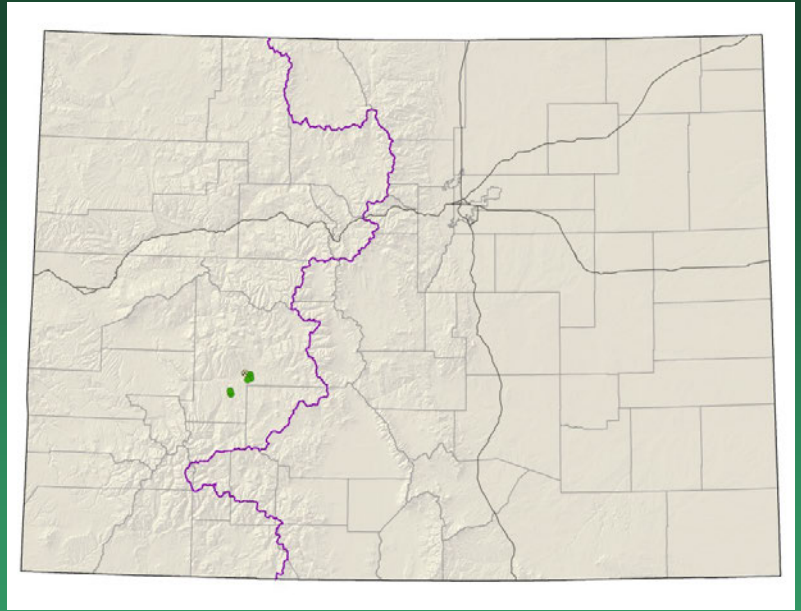
- Federal status: Endangered
- Heritage ranks: G1/S1
- Global distribution: New Mexico and Colorado (Montezuma County)
- Elevation range: 5,240-6160 ft.
- Last observed in Colorado: 1989
- Colorado occurrences: 4 (all are historical)
- Colorado individuals: 25,000
- Primary threats: mineral, oil, and gas development, seismic exploration
- Land ownership/management: tribe

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.
- Elevation range: 7,600-8,500 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, private

Astragalus microcymbus

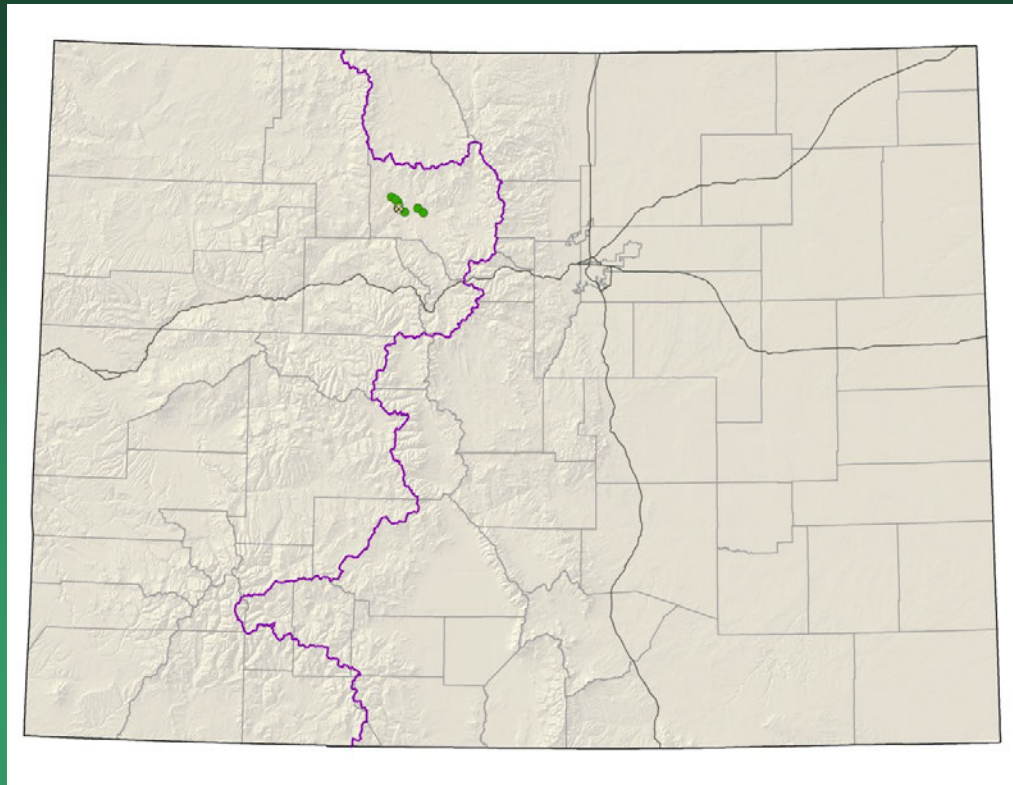


Astragalus osterhoutii

Osterhout milkvetch

Conservation Action Plan

- Federal status: Endangered
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Grand County)
- Elevation range: 7,370-8,000 ft.
- Last observed: 2013
- Occurrences: 6 (1 are historical)
- Individuals: 10,000-12,000
- Primary threats: recreation, mining, oil and gas development
- Land ownership/management: BLM, state, private



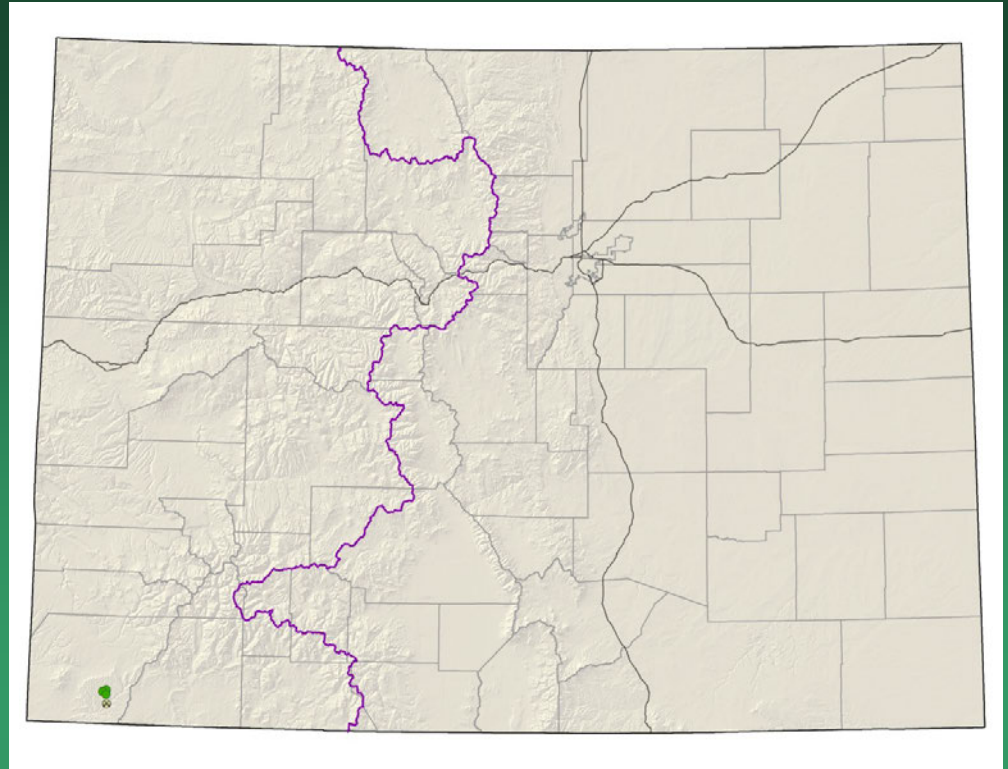
Astragalus osterhoutii



Astragalus schmolliae

Schmoll's milkvetch

- Federal status: Candidate
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Chapin Mesa - Montezuma County)
- Elevation range: 5,760-7,430 ft.
- Last observed: 2014
- 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: NPS, tribe

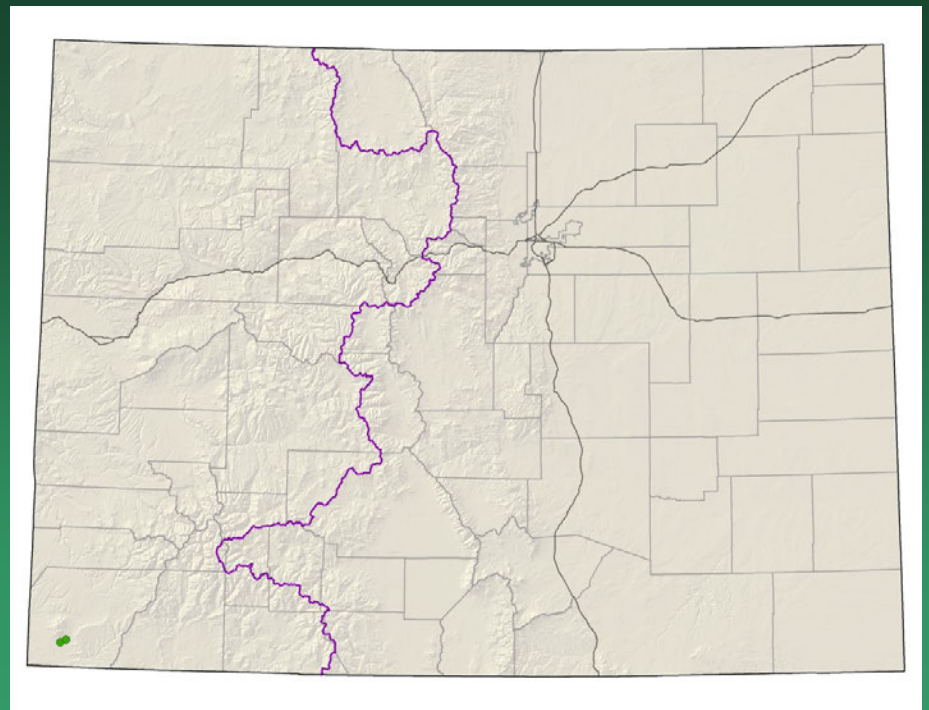


Astragalus schmolliae



Astragalus tortipes

Sleeping Ute milkvetch



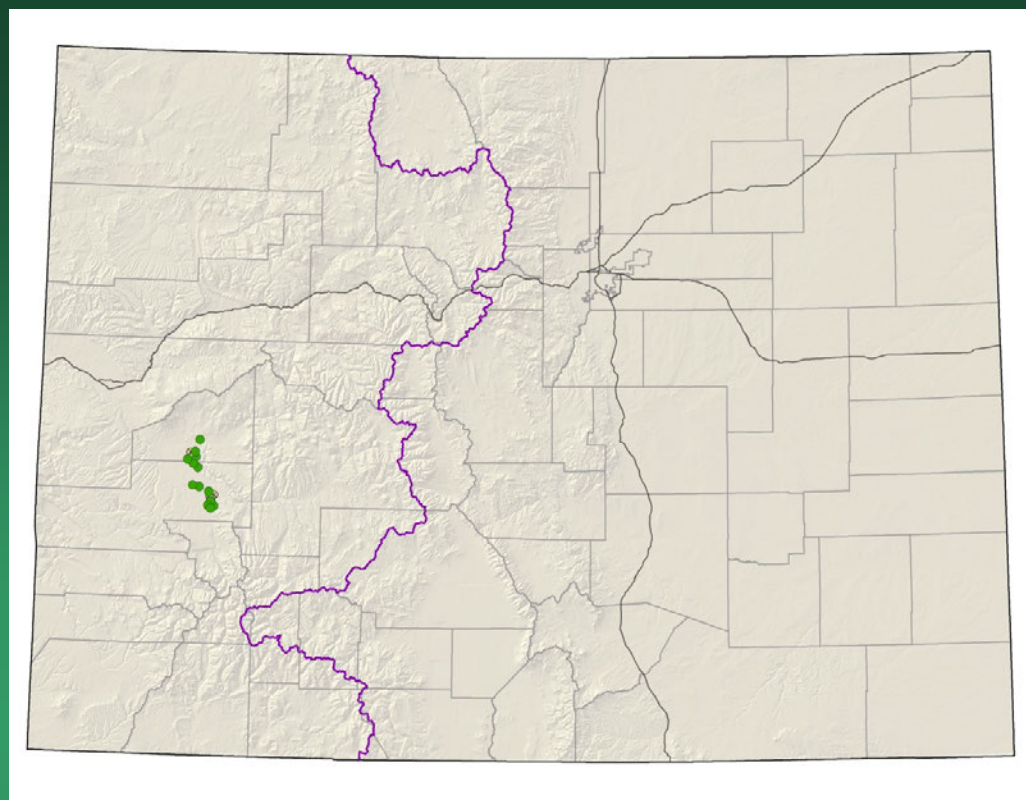
- Federal status: Candidate, BLM Sensitive
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Montezuma County)
- Elevation range: 5,450-5,700 ft.
- Last observed: 2000
- Occurrences: 2
- Individuals: 2,000-3,000
- Primary threats: McPhee Reservoir canals, agricultural development
- Land ownership/management: tribe

Astragalus tortipes



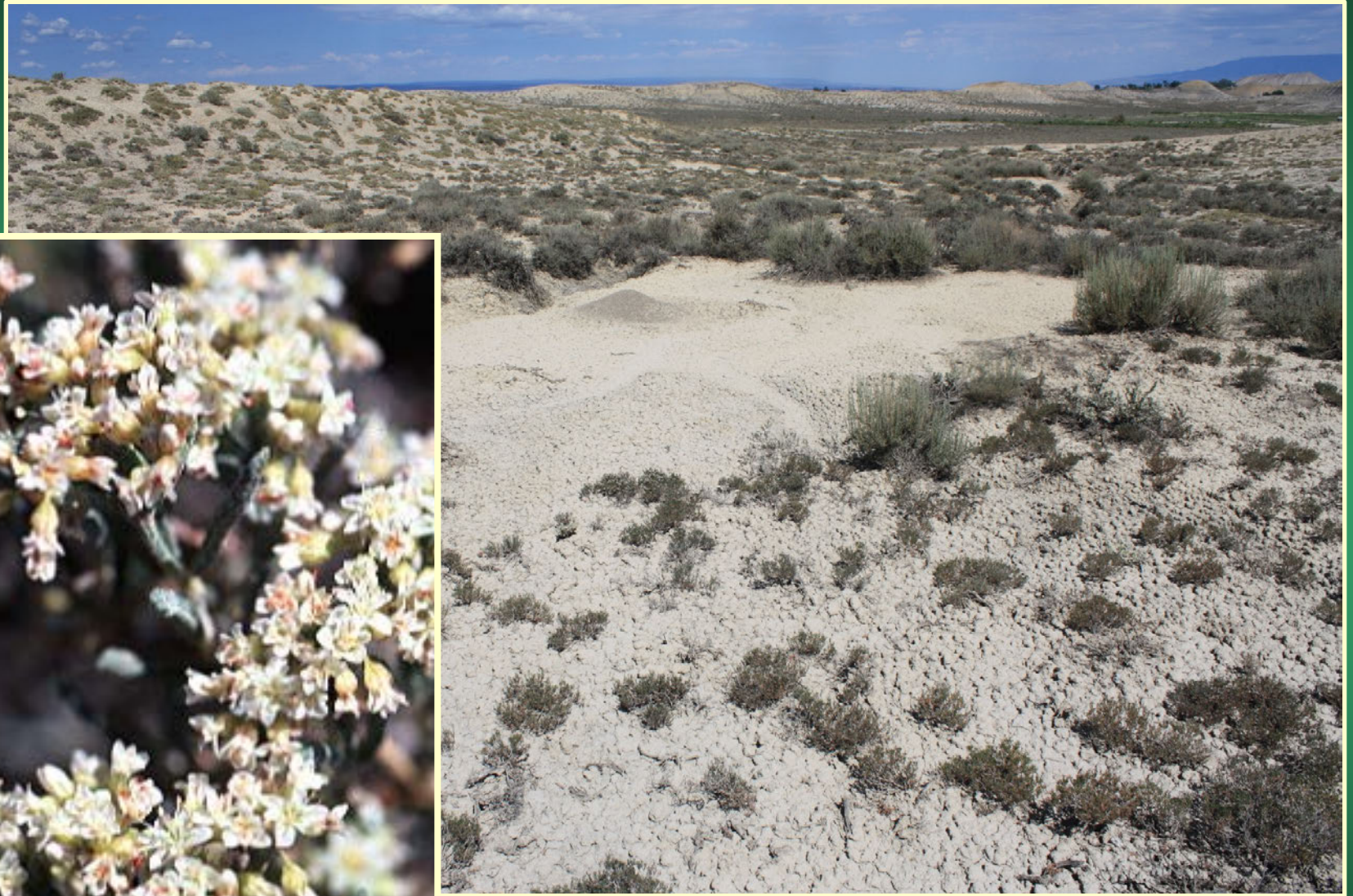
Eriogonum pelinophilum

Clay-loving wild buckwheat



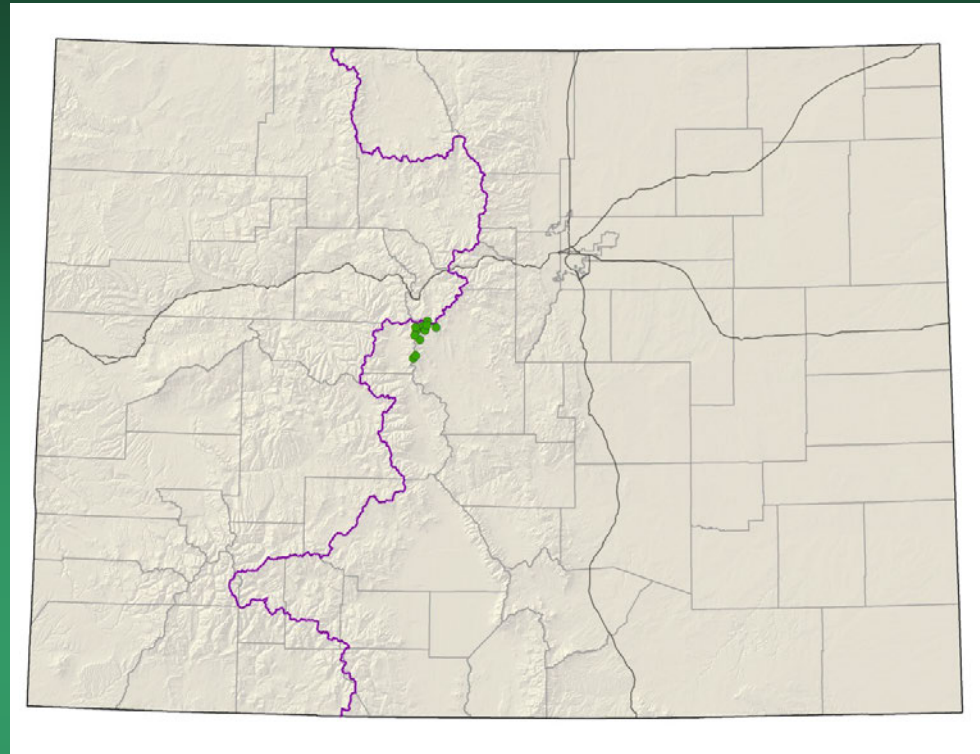
- Federal status: Endangered
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic (Delta and Montrose counties)
- Elevation range: 5,220-6,400 ft.
- Last observed: 2013
- Occurrences: 19 (5 are historical)
- Individuals: 280,000
- Primary threats: residential and agricultural developments, ORV use, overgrazing, oil and gas exploration
- Land ownership/management: BLM, private

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)
- Elevation range: 11,975-13,350 ft.
- Last observed: 2014
- Occurrences: 18
- Individuals: 20,000
- Primary threats: mining, recreation
- Land ownership/management: BLM, private, USFS

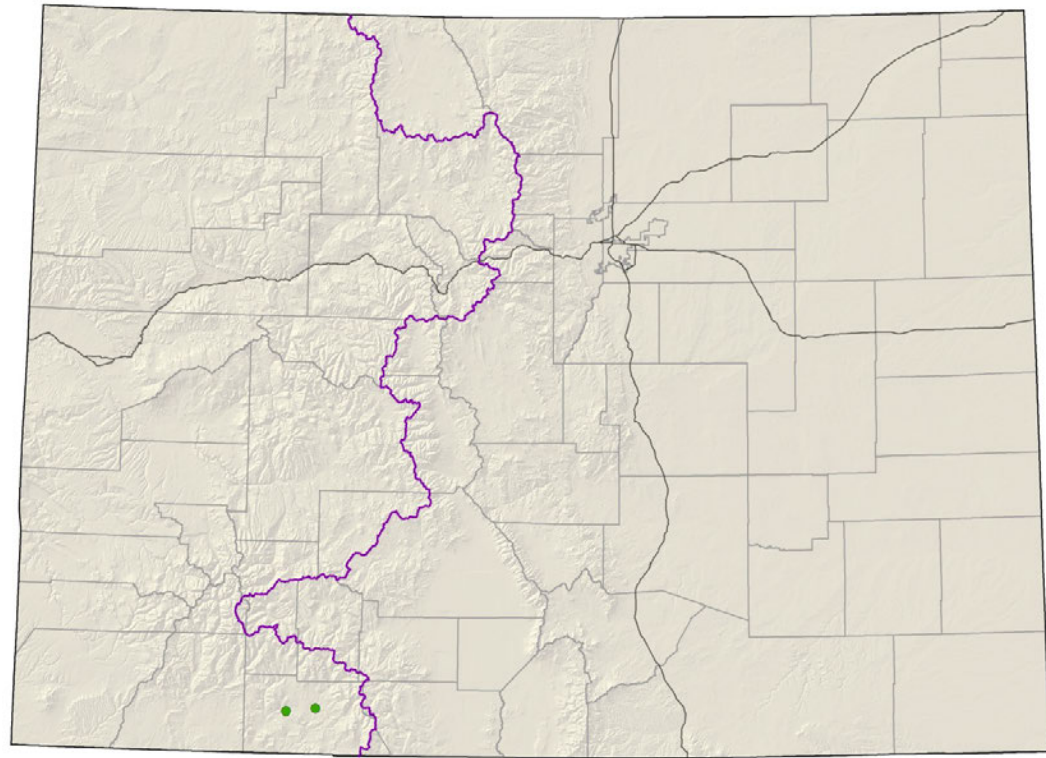
Eutrema penlandii



Ipomopsis polyantha Pagosa gilia

Conservation Action Plan

- Federal status: Endangered
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Archuleta County)
- Elevation range: 6,765-7,360 ft.
- Last observed: 2012
- Individuals: ~300,000
- Occurrences: 2
- Primary threats: residential development, road construction and maintenance, overgrazing
- Land ownership/management: private



Ipomopsis polyantha

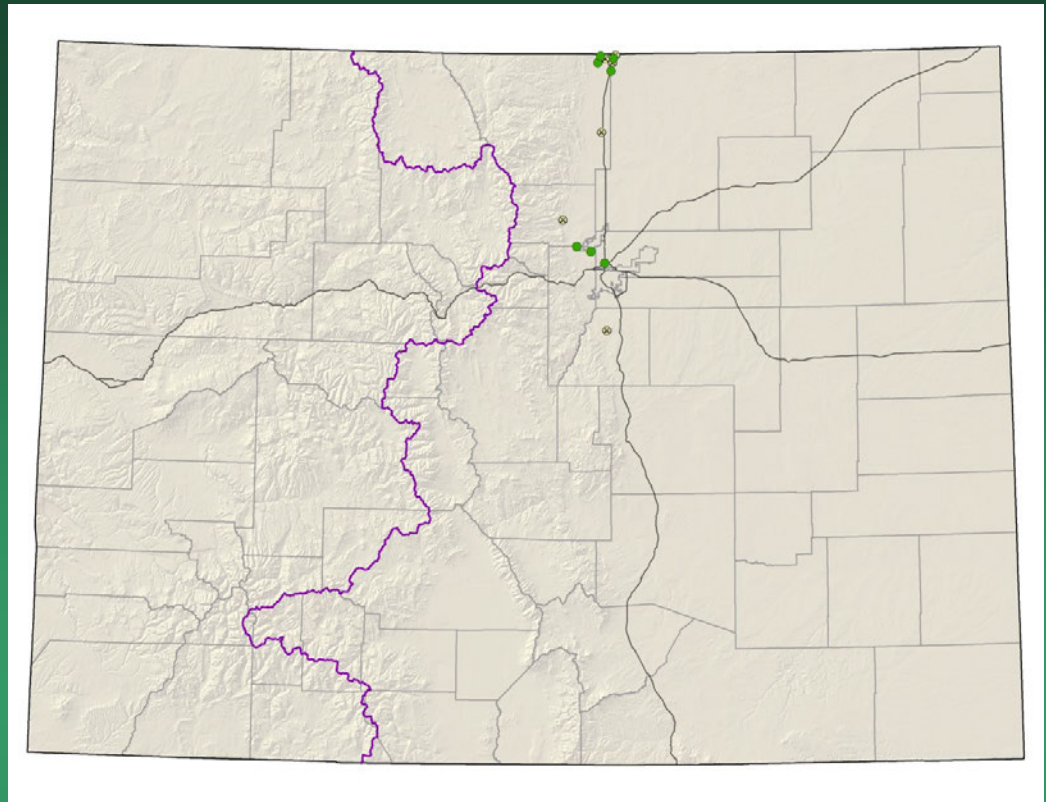


Oenothera coloradensis ssp. *coloradensis*

= *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)
- Elevation range: 4,860-6,380 ft.
- Last observed in Colorado: 2014
- Colorado occurrences: 14 (6 are historical)
- Colorado individuals: 18,000
- Primary threats: grazing, hydrological alterations, weeds, Interstate 25, oil & gas
- Land ownership: local government, NGO/land trust, federal, state, private





Gaura neomexicana ssp. *coloradensis*

Pediocactus knowltonii

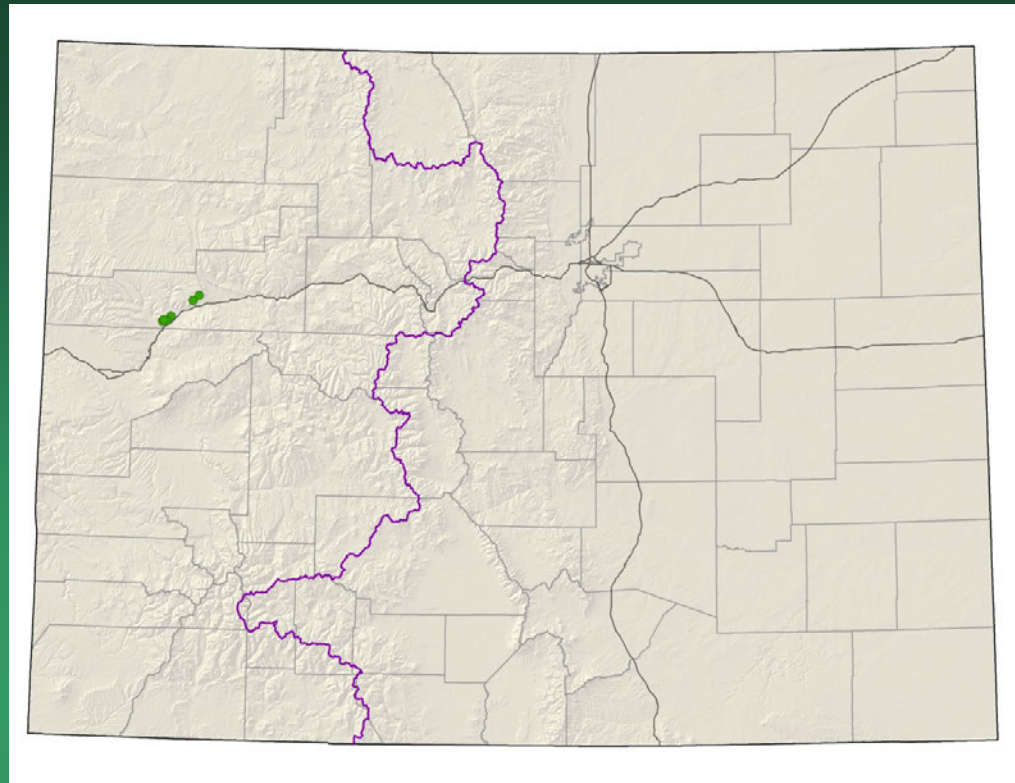
Knowlton's cactus

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 penstemon



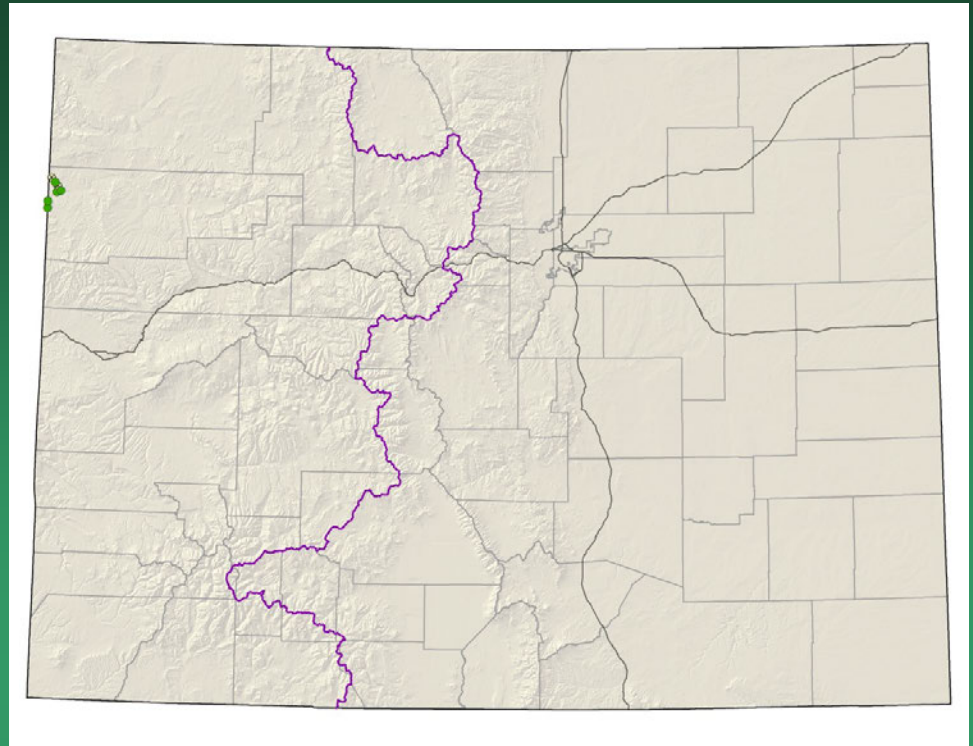
- Federal status: Threatened
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Garfield County)
- Elevation range: 5,600-9,170 ft.
- Last observed: 2014
- Occurrences: 6
- Individuals: 4000-6000
- Primary threats: oil and gas development, oil shale development, recreation
- Land ownership/management: BLM, private

Penstemon debilis



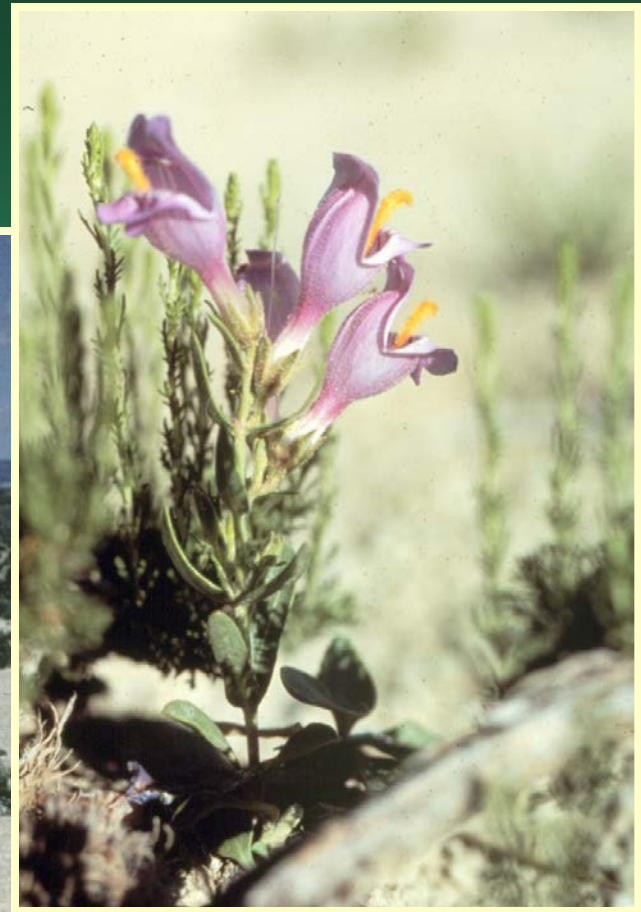
Penstemon grahamii

Graham beardtongue



- Federal status: BLM sensitive
- Heritage ranks: G2/S1
- Global distribution: Utah and Colorado (Rio Blanco County)
- Elevation range: 5,120-6,380ft.
- Last observed in Colorado: 2013
- Colorado occurrences: 7 (2 are historical)
- Colorado individuals: 5,000
- Primary threats: oil and gas development, overgrazing
- Land ownership/management: BLM, private

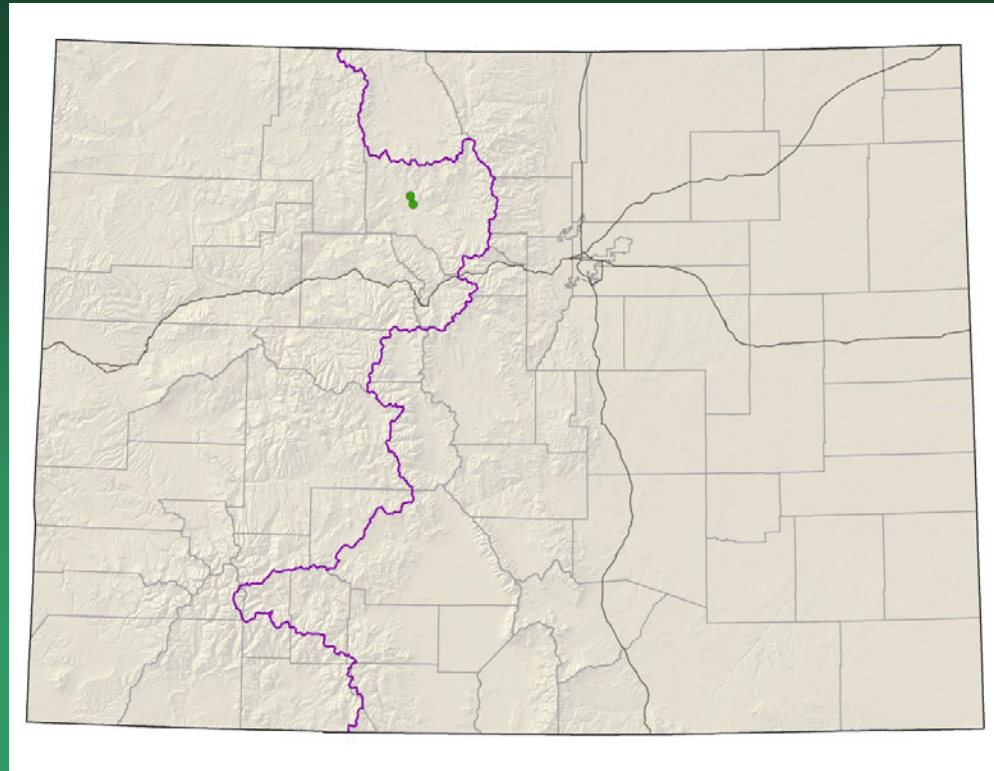
Penstemon grahamii



Penstemon penlandii

Penland beardtongue

Conservation Action Plan

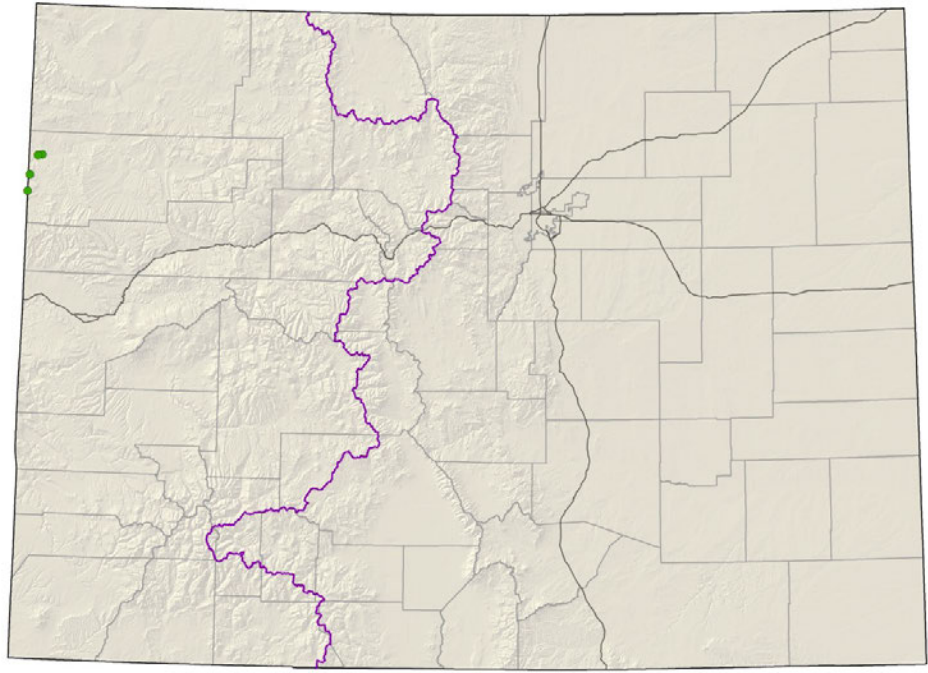


- Federal status: Endangered
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Grand County)
- Elevation range: 7400-7900 ft.
- Last observed: 2012
- Occurrences: 2
- Individuals: 8600+
- Primary threats: road maintenance (grading, spraying, snow plowing), ORV use
- Land ownership/management: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

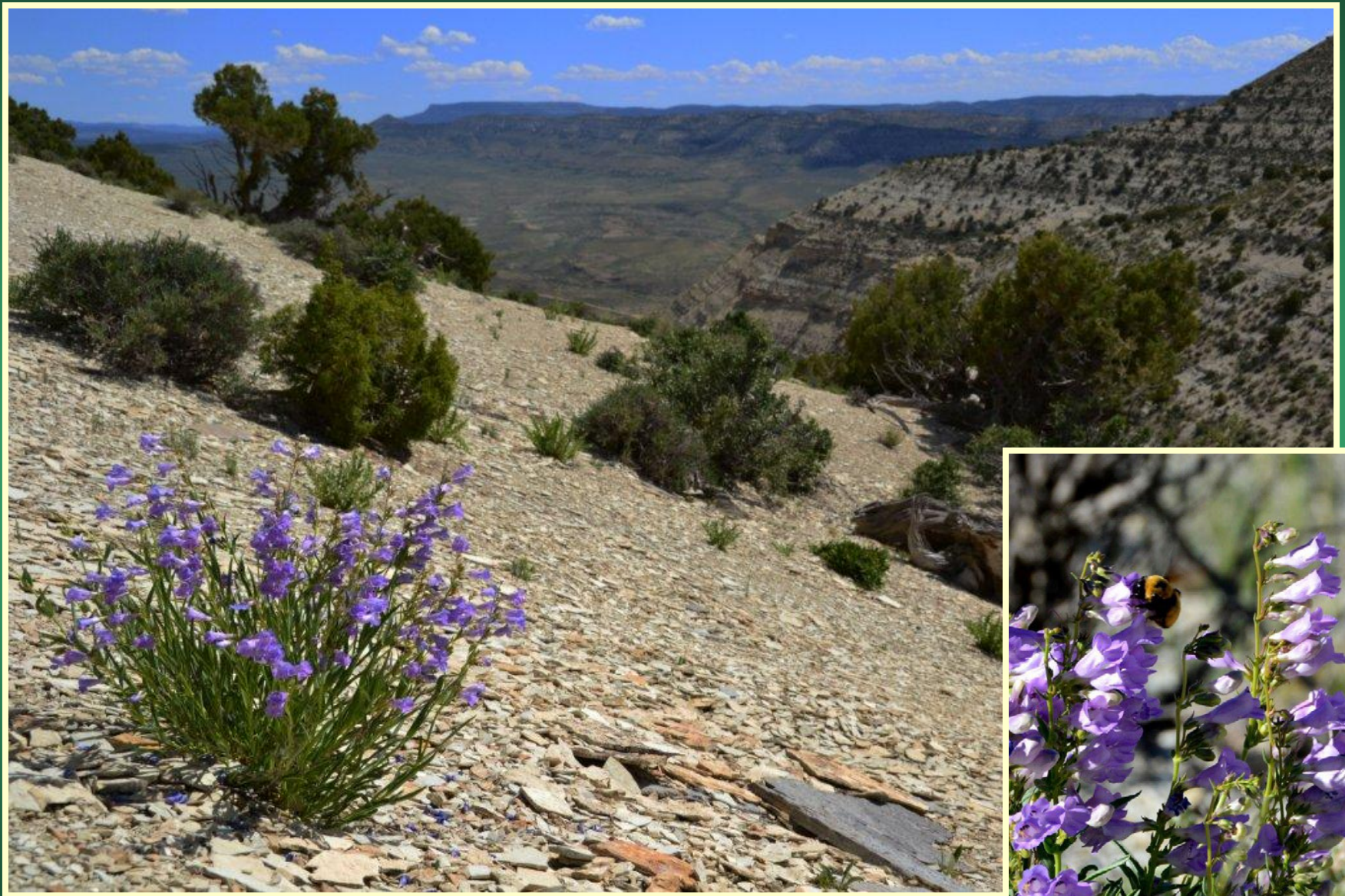
Penstemon penlandii



Penstemon scariosus var.
albifluvis
White River penstemon



- Federal status: **BLM sensitive**
- Heritage ranks: G4T1/S1
- Global distribution: Utah and Colorado (Rio Blanco County)
- Elevation range: 5700-6700 ft.
- Last observed in Colorado: **2014**
- Colorado occurrences: **4**
- Colorado individuals: 200+
- Primary threats: overgrazing, oil and gas development, ORV use
- Land ownership/management: BLM, private



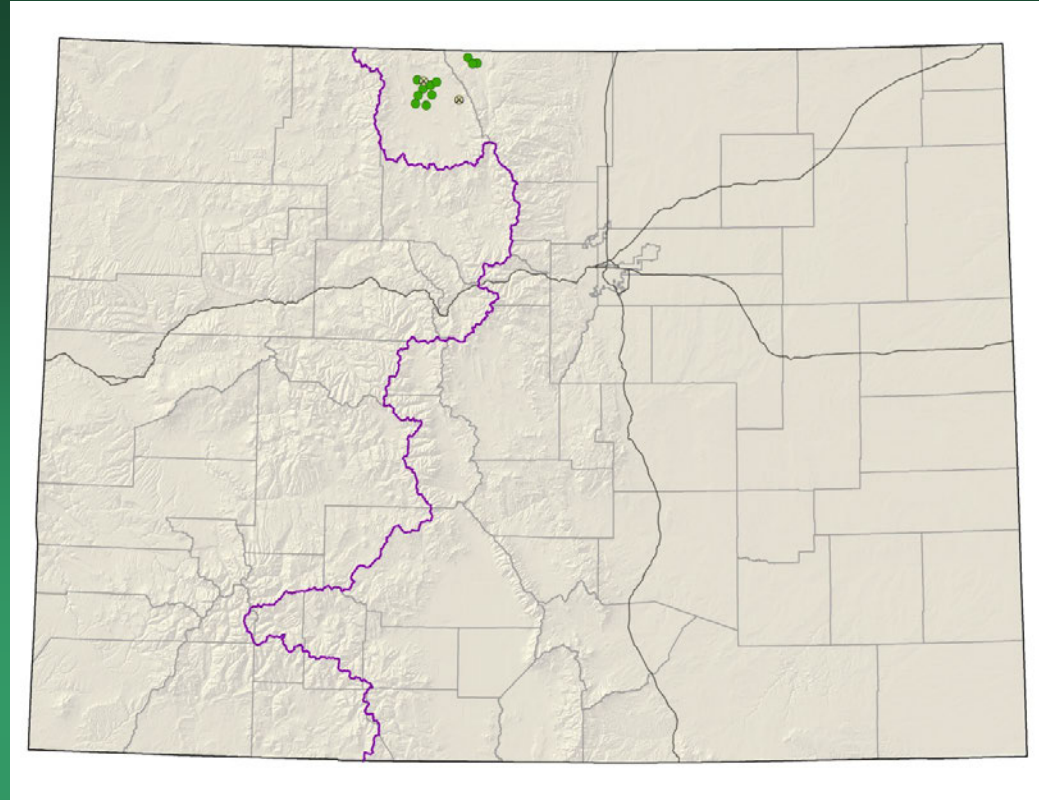
Penstemon scariosus var. *albifluvis*

Phacelia formosula

North Park phacelia

Conservation Action Plan

- Federal status: Endangered
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Jackson and Larimer counties)
- Elevation range: 7,900-8,300 ft.
- Last observed: 2014
- 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, federal, state, private

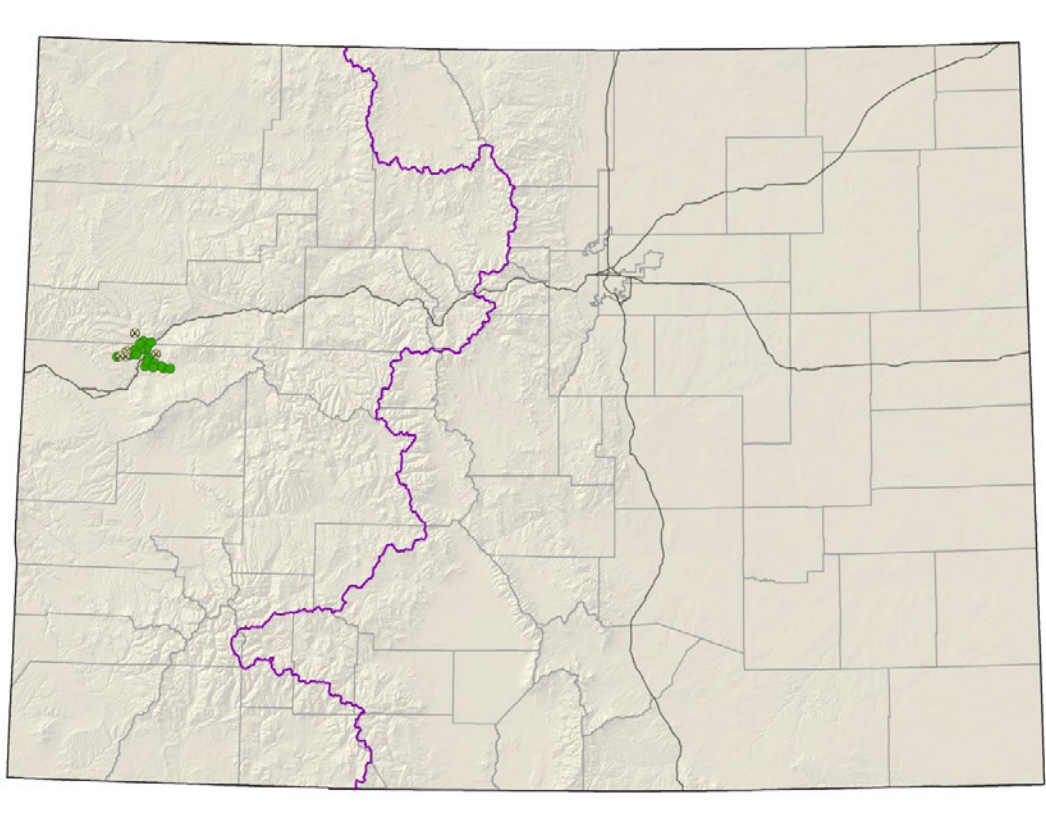




Phacelia formosula

Phacelia submutica

DeBeque phacelia



- Federal status: Threatened
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic (Garfield and Mesa counties)
- Elevation range: 5,000-6,540ft.
- Last observed: 2014
- Occurrences: 23 (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

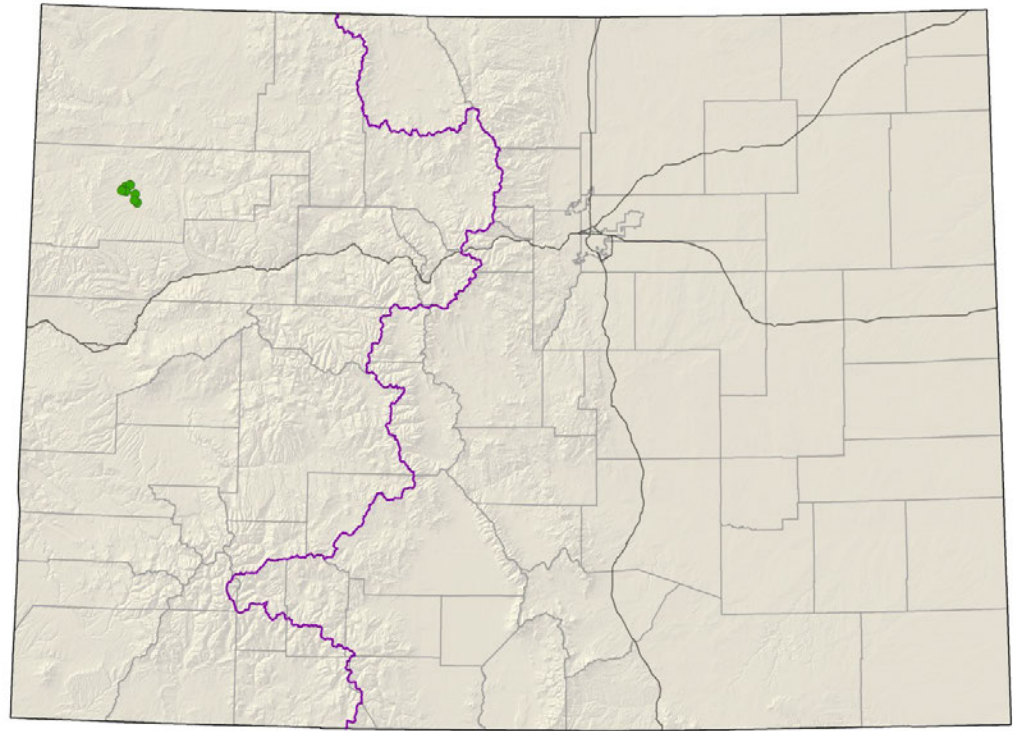


Phacelia submutica

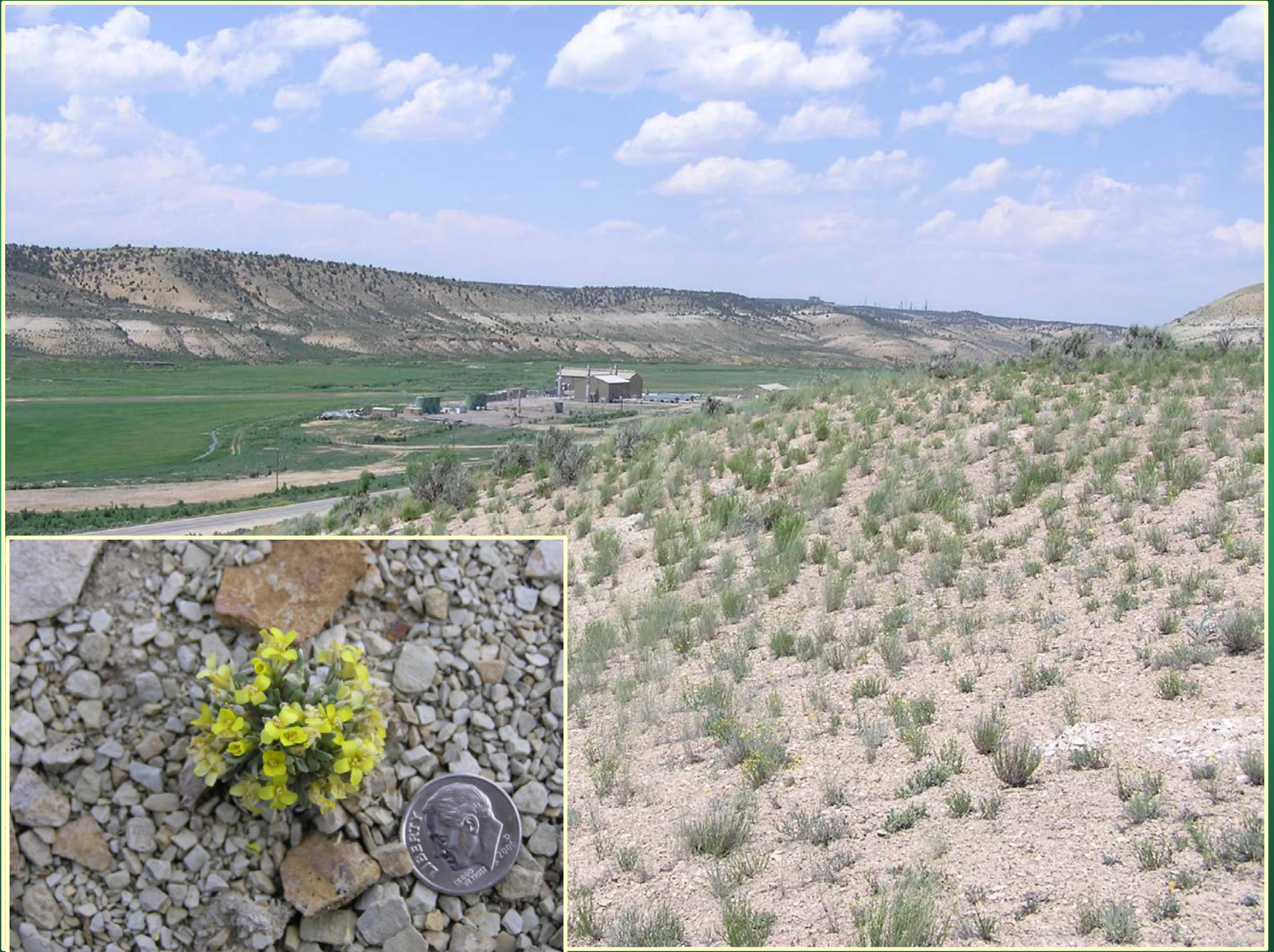
Physaria congesta
= *Lesquerella congesta*
Dudley Bluffs bladderpod

Conservation Action Plan

- Federal status: Threatened
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Rio Blanco County)
- Elevation range: 6,120-6,550 ft.
- Last observed: 2014
- 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

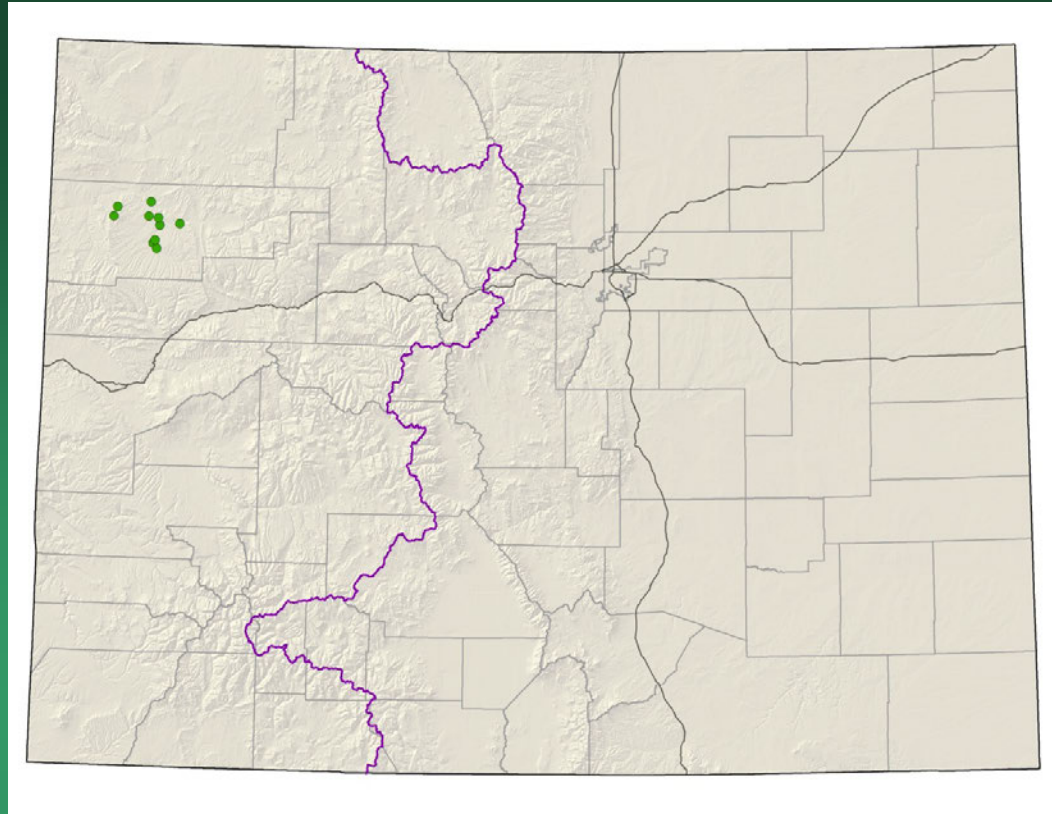


Physaria (Lesquerella) congesta



Physaria obcordata Piceance twinpod

Conservation Action Plan



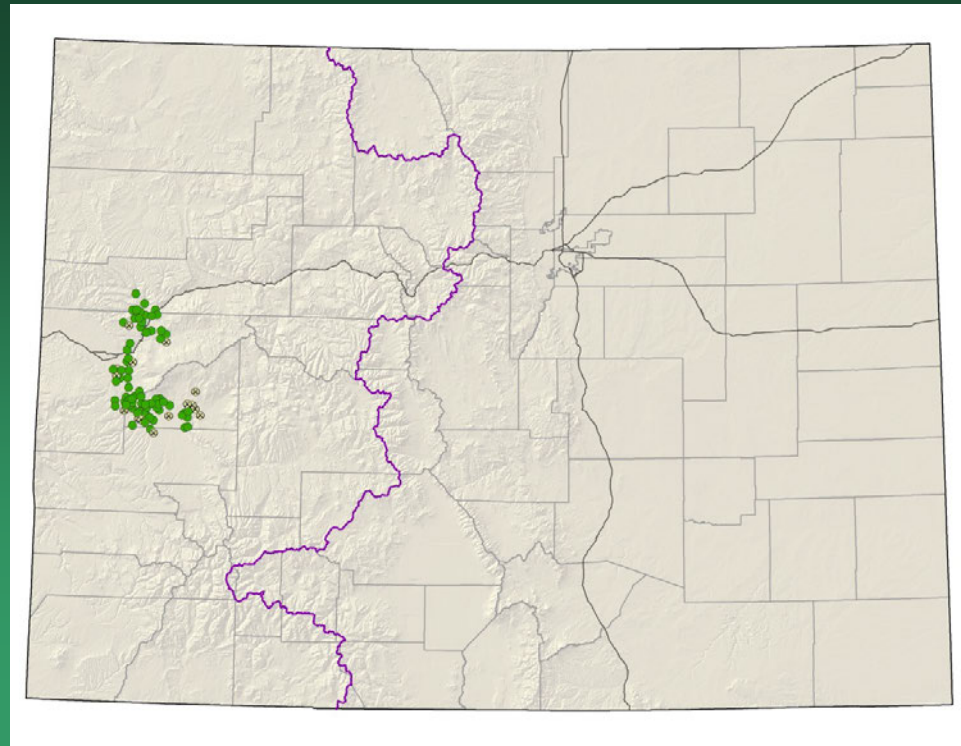
- Federal status: Threatened
- Heritage ranks: G1G2/S1S2
- Global distribution: Colorado endemic (Rio Blanco County)
- Elevation range: 5,930-7,560 ft.
- Last observed: 2014
- Occurrences: 11
- Individuals: 30,000
- Primary threats: oil and gas development, oil shale and nahcolite mining, ORV use, trampling by wild horses
- Land ownership/management: BLM, state, private



Physaria obcordata

Sclerocactus glaucus

Colorado hookless cactus



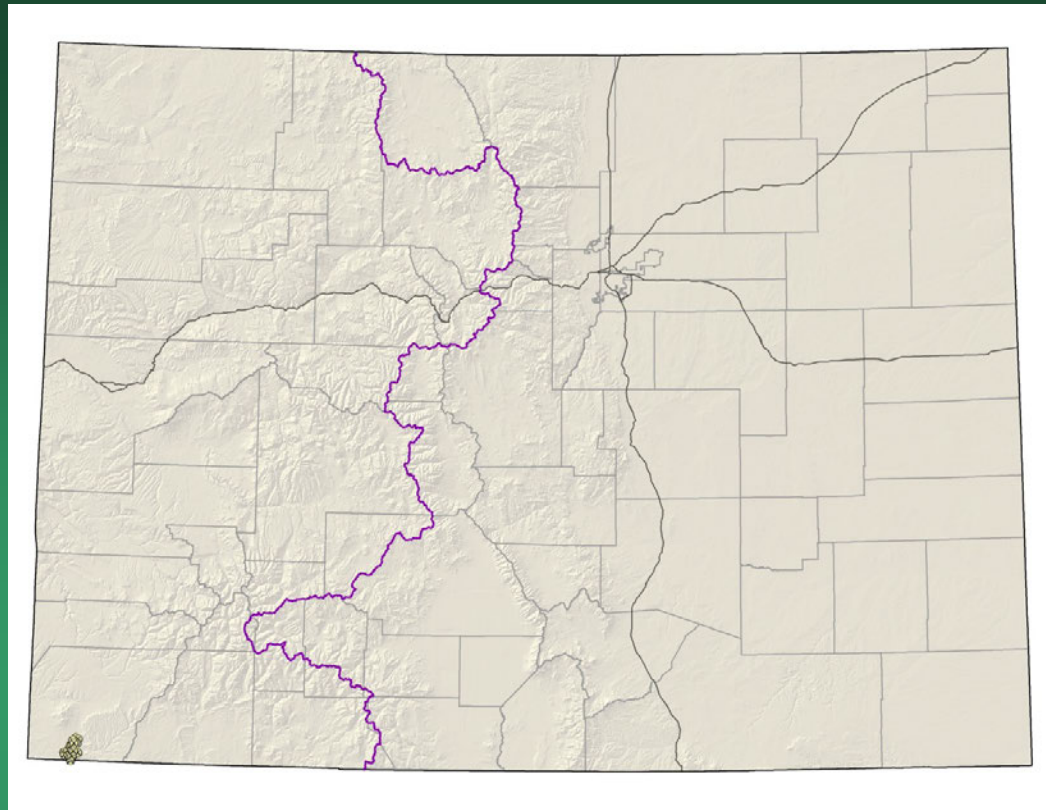
- Federal status: Threatened
- Heritage ranks: G2G3/S2S3
- Global distribution: Colorado (Delta, Garfield, Mesa, and Montrose counties)
- Elevation range: 4,650-7,130 ft.
- Last observed in Colorado: 2014
- Colorado occurrences: 93 (17 are historical or unrankable)
- Colorado individuals: ~15,000
- Primary threats: oil and gas development, residential development, cactus collecting
- Land ownership/management: BLM, federal, state, private, USFS



Sclerocactus glaucus

Sclerocactus mesae-verdae

Mesa Verde cactus



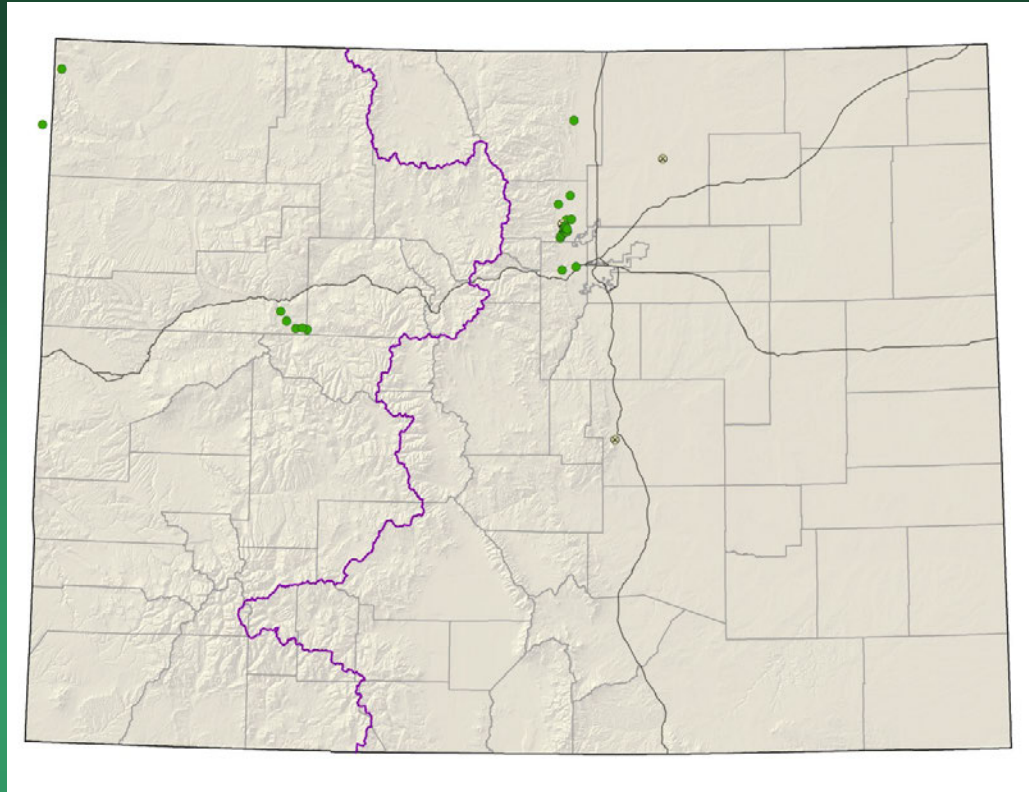
- Federal status: Threatened
- Heritage ranks: G2/S2
- Global distribution: New Mexico and Colorado (Montezuma County)
- Elevation range: 5,050-5,770 ft.
- Last observed in Colorado: 2005
- Colorado occurrences: 22 – probably a single large occurrence, **all historical**
- Colorado individuals: 2,000-10,000
- Primary threats: cactus collecting, oil and gas development, ORV use
- Land ownership/management: tribe



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)
- Elevation range: 4,530-7,750 ft.
- Last observed in Colorado: 2014
- Colorado occurrences: 17 (3 are historical)
- Colorado individuals: 17,500
- Primary threats: weeds, residential development, hydrological alterations
- Land ownership/management: BLM, local government, NPS, federal, state, private

Spiranthes diluvialis

