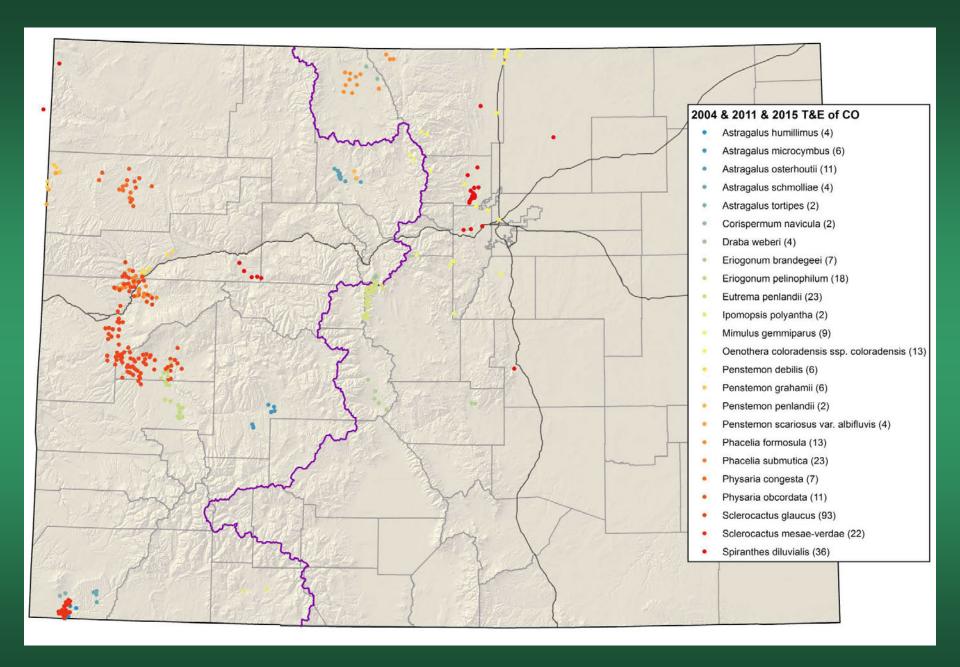
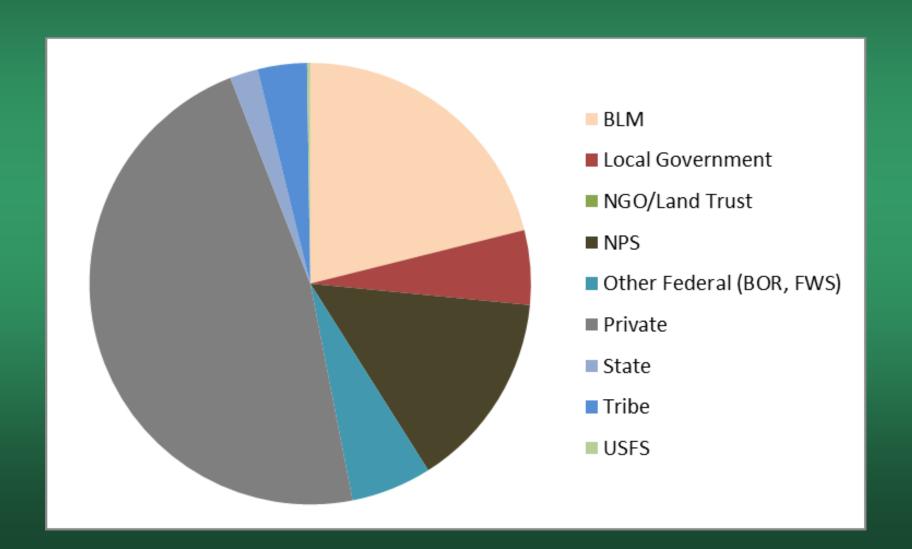
# 2018 Colorado Rare Plant Symposia Colorado T, E & C and Petitioned Plant Species

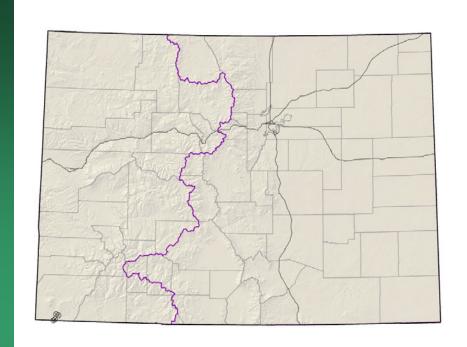


Location of Colorado T, E,C and Petitioned Plant Species

## Land Ownership of T&E Plant Species of Colorado



## Astragalus humillimus Mancos milkvetch

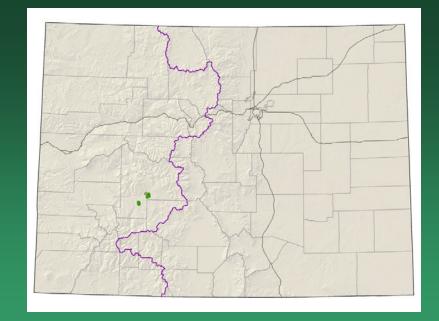


- <u>Federal status</u>: Endangered
- Heritage ranks: G1/S1
- Global distribution: New Mexico and Colorado (Montezuma County)
- <u>Elevation range</u>: 5,240-6160 ft.
- <u>Last observed in Colorado</u>: ??
- <u>Colorado occurrences</u>: 4 (all are historical)
- Colorado individuals: 25,000
- Primary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

#### Astragalus humillimus



## Astragalus microcymbus Skiff milkvetch



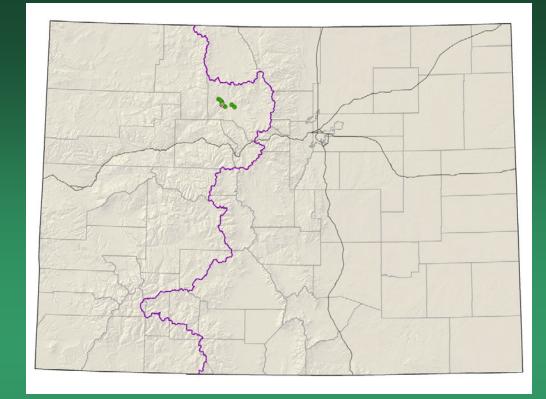
- <u>Federal status</u>: Candidate, BLM sensitive
- Heritage ranks: G1/S1
- <u>Global distribution</u>: Colorado endemic, South Beaver Creek, Gunnison and Saguache counties.
- <u>Elevation range</u>: 7,600-8,500 ft.
- <u>Last observed</u>: 2018
- Occurrences: 8 (1 is historical)
- Individuals: 17,800
- <u>Primary threats</u>: recreation, grazing by cattle and rabbits, mining, residential development
- <u>Land ownership/management</u>: BLM, private, State

#### Astragalus microcymbus



## Astragalus osterhoutii Osterhout milkvetch

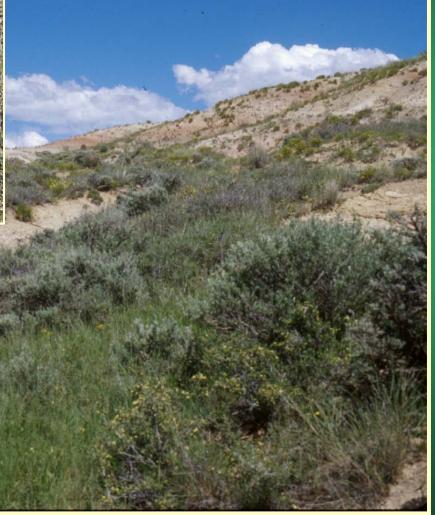
**Conservation Action Plan** 



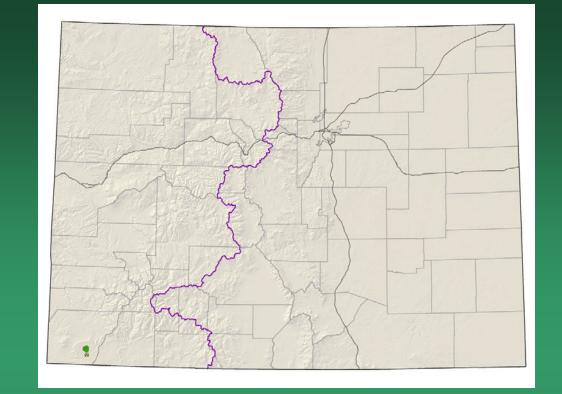
- <u>Federal status</u>: Endangered
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Grand County)
- <u>Elevation range</u>:7,370-8,000 ft.
- Last observed: 2017
- Occurrences: 6 (1 historical)
- <u>Individuals</u>: 10,000-12,000
- <u>Primary threats</u>: recreation, mining, oil and gas development
- <u>Land ownership/management</u>: BLM, state, private



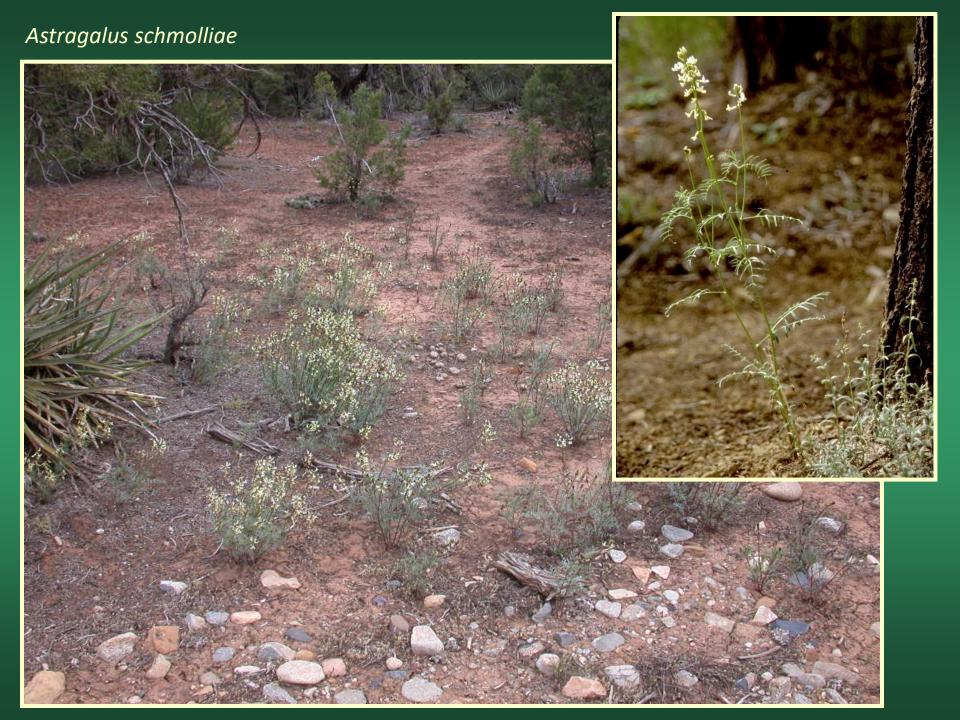
#### Astragalus osterhoutii



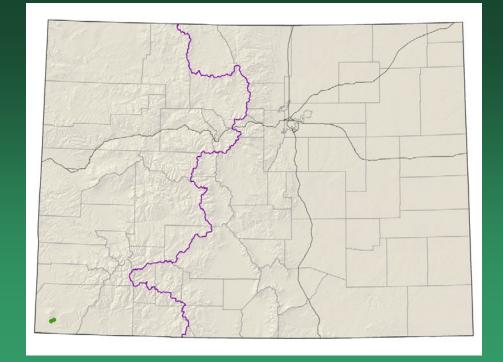
## Astragalus schmolliae Schmoll's milkvetch



- <u>Federal status</u>: Candidate
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Chapin Mesa Montezuma County)
- <u>Elevation range</u>: 5,760-7,430 ft.
- <u>Last observed</u>: 2017
- Occurrences: 4 (1 is historical)
- <u>Individuals</u>: 294,499 in Mesa Verde, Tribal lands unsurveyed
- <u>Primary threats</u>: Noxious weed invasions, Park developments, grazing and road construction outside NP
- Land ownership/management: NPS, tribe



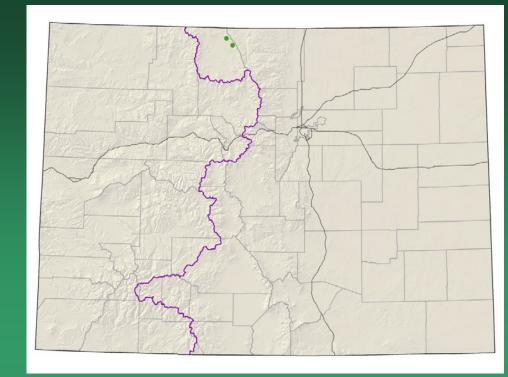
## Astragalus tortipes Sleeping Ute milkvetch



- <u>Federal status</u>: Former Candidate
- Heritage ranks: G1/S1
- <u>Global distribution</u>: Colorado endemic (Montezuma County)
- <u>Elevation range</u>: 5,450-5,700 ft.
- Last observed: 2015
- Occurrences: 2
- <u>Individuals</u>: 2,000-3,000
- <u>Primary threats</u>: McPhee Reservoir canals, agricultural development
- <u>Land ownership/management</u>: tribe



## Corispermum navicula North Park bugseed



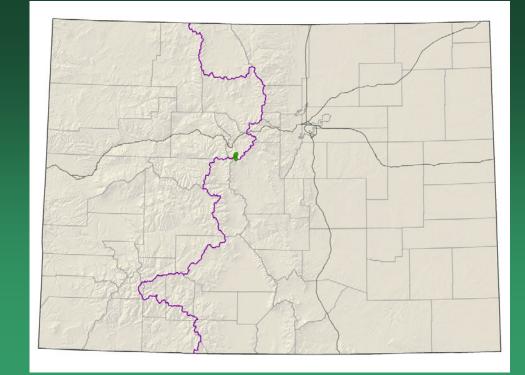
- <u>Federal status</u>: BLM sensitive, and petitioned for federal listing
- Heritage ranks: G1?/S1
- Global distribution: Colorado endemic (Jackson County), possibly Oklahoma?
- <u>Elevation range</u>: 8,230-8,730 ft.
- <u>Last observed</u>: 2018
- Occurrences: 2
- Individuals: common locally
- Primary threats: off-road vehicle use
- <u>Land ownership/management</u>: BLM, state

#### Corispermum navicula





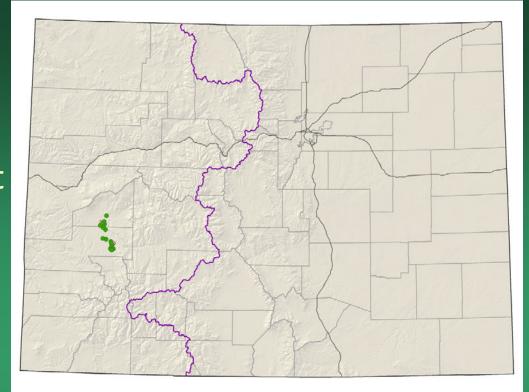
## *Draba weberi*Weber's draba



- <u>Federal status</u>: USFS sensitive, and petitioned for federal listing
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic, Park and Summit counties
- <u>Elevation range</u>: 11,120-11,160 ft.
- <u>Last observed</u>: 2018
- Occurrences: 4
- <u>Individuals</u>: 100
- <u>Primary threats</u>: road and dam construction and maintenance, environmental stochasticity, recreation, mining, noxious weeds, climate change
- <u>Land ownership/management</u>: private, USFS



## Eriogonum pelinophilum Clay-loving wild buckwheat



- <u>Federal status</u>: Endangered
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic (Delta and Montrose counties)
- <u>Elevation range</u>: 5,220-6,400 ft.
- Last observed: 2017
- Occurrences: 20 (4 are historical)
- <u>Individuals</u>: 280,000
- <u>Primary threats</u>: residential and agricultural developments, ORV use, overgrazing, oil and gas exploration
- <u>Land ownership/management</u>: BLM, private, state

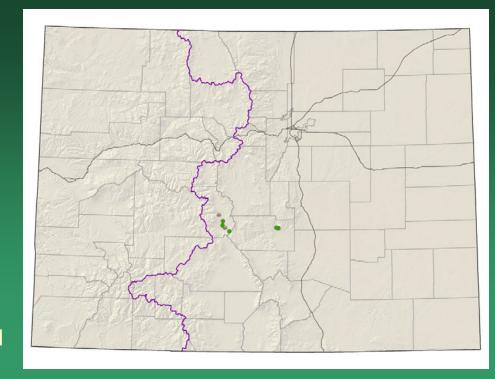
#### Eriogonum pelinophilum

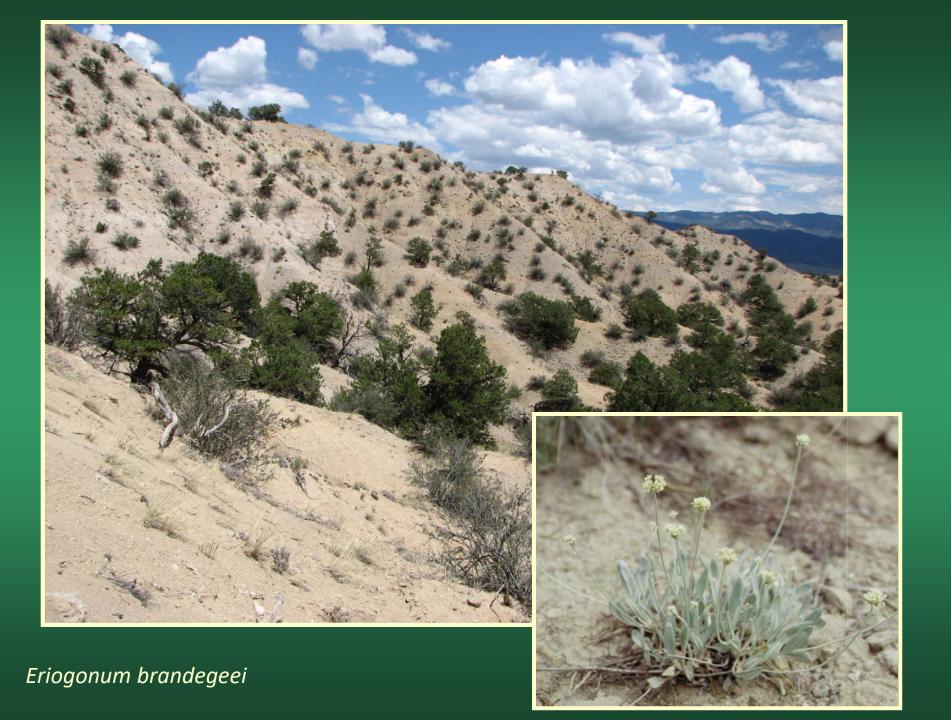


#### Eriogonum brandegeei Brandegee's buckwheat

#### Conservation Action Plan

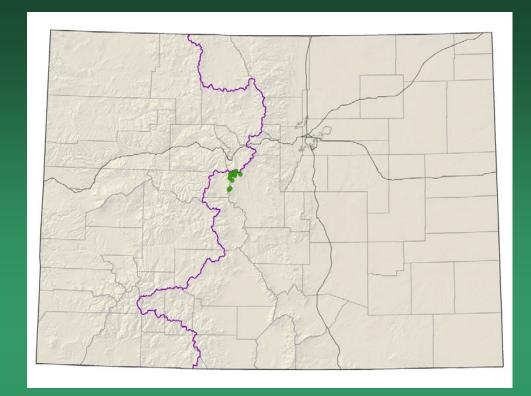
- <u>Federal status</u>: USFS & BLM Sensitive, and petitioned for federal listing
- Heritage ranks: G1G2/S1S2
- Global distribution: Colorado endemic, Chaffee and Fremont counties
- <u>Elevation range</u>: 5,715-8,650 ft.
- Last observed: 2018
- <u>Individuals</u>: 35,000+
- Occurrences: 7 (1 is historical)
- <u>Primary threats</u>: off-road vehicle use and other recreation, residential and commercial development, timbering, mining, highway maintenance, weeds, grazing
- Land ownership/management: BLM, state, private, USFS





#### Eutrema penlandii= E. edwardsii

Mosquito Range mustard



- <u>Federal status</u>: Threatened
- Heritage ranks: G1G2/S1S2
- Global distribution: Colorado endemic (Lake, Park, and Summit counties)
- Elevation range: 11,975-13,350 ft.
- <u>Last observed</u>: 2018
- Occurrences: 23
- <u>Individuals</u>: 20,000+
- Primary threats: mining, recreation
- <u>Land ownership/management</u>: BLM, private, USFS

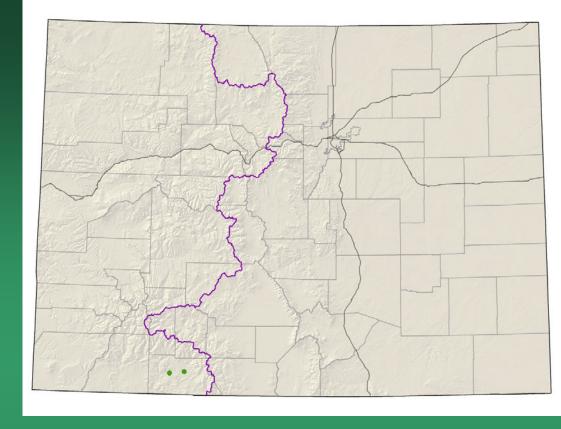
#### Eutrema penlandii



#### Ipomopsis polyantha Pagosa gilia

**Conservation Action Plan** 

- <u>Federal status</u>: Endangered
- Heritage ranks: G1/S1
- <u>Global distribution</u>: Colorado endemic (Archuleta County)
- <u>Elevation range</u>: 6,765-7,360 ft.
- Last observed: 2018
- <u>Individuals</u>: ~300,000
- Occurrences: 2
- <u>Primary threats</u>: residential development, road construction and maintenance, overgrazing
- Land ownership/management: private, state, BLM



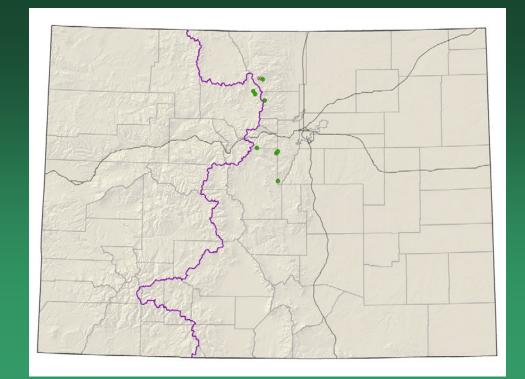




## Mimulus gemmiparus Budding monkeyflower

(Rocky Mnt. monkeyflower)

- <u>Federal status</u>: USFS sensitive, and petitioned for federal listing
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic, Boulder, Clear Creek, Jefferson, Grand, and Larimer counties
- <u>Elevation range</u>: 8,360-11,200 ft.
- <u>Last observed</u>: 2017
- Occurrences: 9 (1 historical)
- Individuals: >125,000
- <u>Primary threats</u>: recreational activities, trampling, competition from other plants, interference with hydrology
- Land ownership/management: NPS, state, USFS



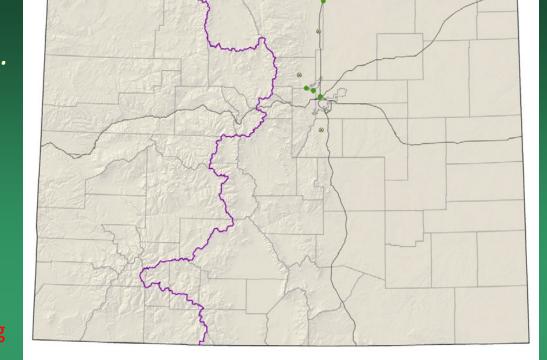


Mimulus gemmiparus

### Oenothera coloradensis ssp. coloradensis

= Gaura neomexicana ssp. coloradensis

#### Colorado butterfly plant



- <u>Federal status</u>: Proposed for delisting
- 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.
- <u>Last observed in Colorado</u>: 2017
- <u>Colorado occurrences</u>: 11 (4 historical)
- <u>Colorado individuals</u>: 18,000
- <u>Primary threats</u>: grazing, hydrological alterations, weeds, Interstate 25, oil & gas
- Land ownership: local government, NGO/land trust, federal, state, private

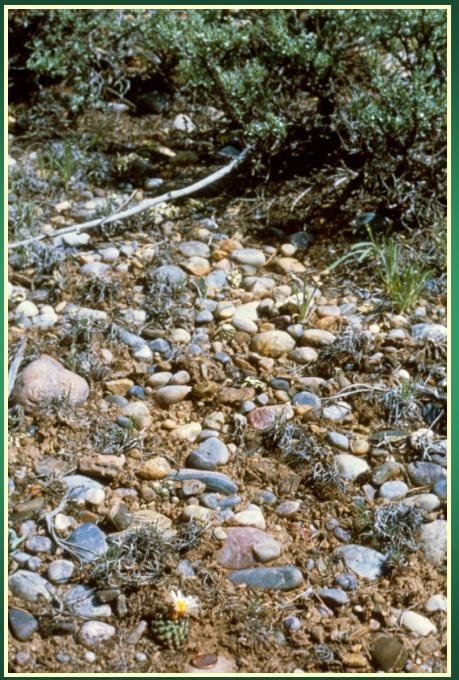


## Pediocactus knowltonii Knowlton's cactus

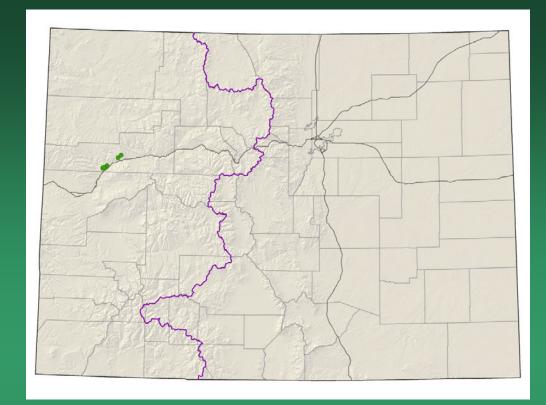
GIS analysis determined that the species does not actually occur in Colorado.

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





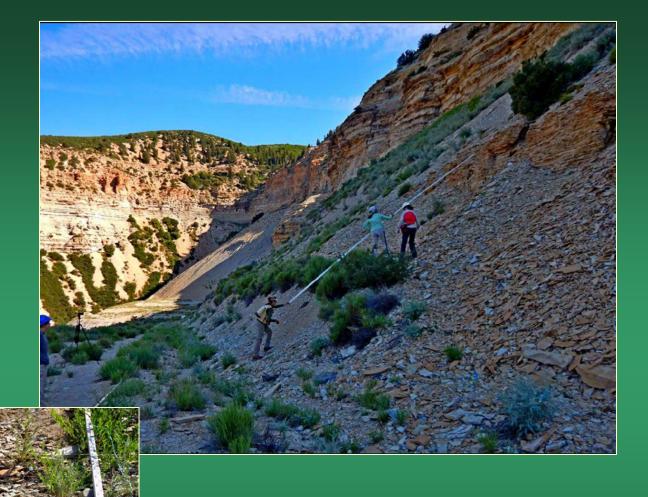
## Penstemon debilis Parachute penstemon



- <u>Federal status</u>: Threatened
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Garfield County)
- <u>Elevation range</u>: 5,600-9,170 ft.
- <u>Last observed</u>: 2018
- Occurrences: 6
- <u>Individuals</u>: 4000-6000
- <u>Primary threats</u>: oil and gas development, oil shale development, recreation
- <u>Land ownership/management</u>: BLM, private

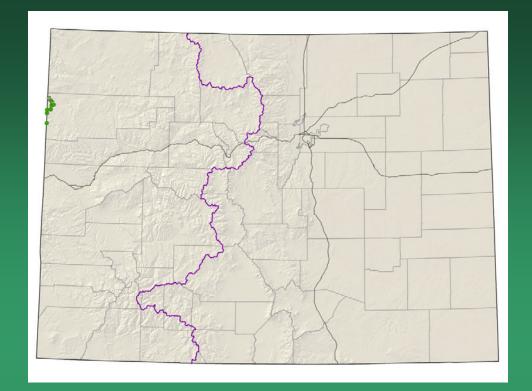


Penstemon debilis



Recent monitoring methods

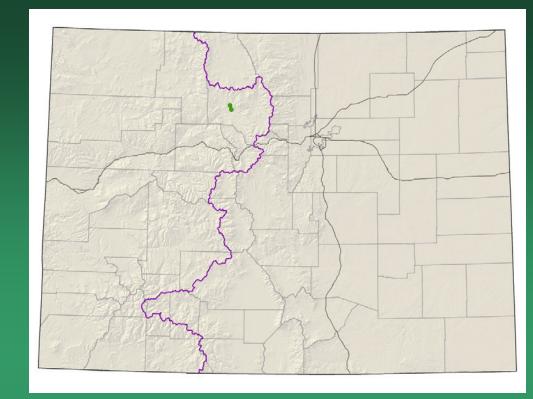
#### Penstemon grahamii Graham beardtongue



- Federal status: BLM sensitive, proposed threatened
- Heritage ranks: G2/S1
- Global distribution: Utah and Colorado (Rio Blanco County)
- Elevation range: 5,120-6,380ft.
- <u>Last observed in Colorado</u>: 2018
- <u>Colorado occurrences</u>: 8 (2 are historical)
- Colorado individuals: 5,000
- Primary threats: oil and gas development, overgrazing
- Land ownership/management: BLM, private

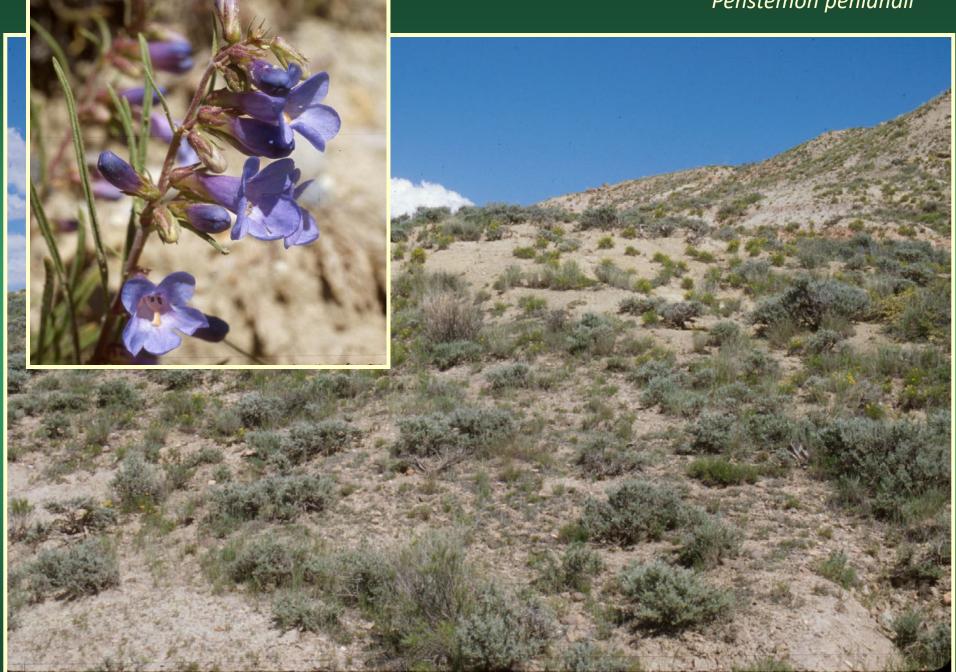


#### Penstemon penlandii Penland beardtongue

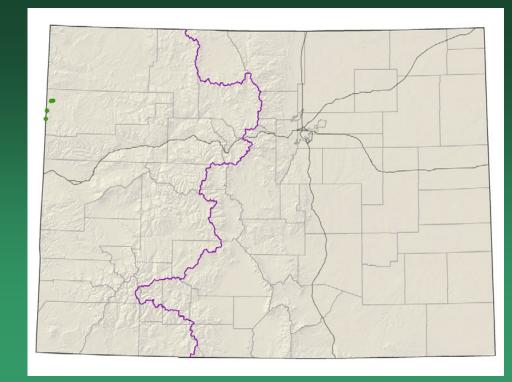


- <u>Federal status</u>: Endangered
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Grand County)
- Elevation range: 7400-7900 ft.
- <u>Last observed</u>: 2018
- Occurrences: 2
- <u>Individuals</u>: 12,800-1,400,000 (5000/acre)
- <u>Primary threats</u>: road maintenance (grading, spraying, snow plowing), ORV use
- <u>Land ownership/management</u>: BLM, private

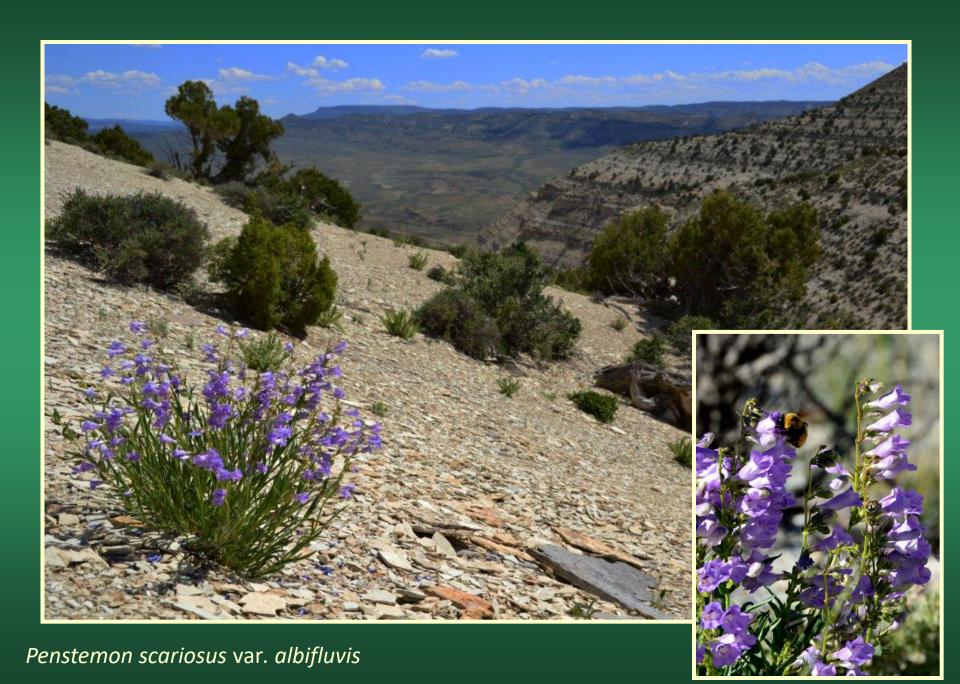




# Penstemon scariosus var. albifluvis White River penstemon

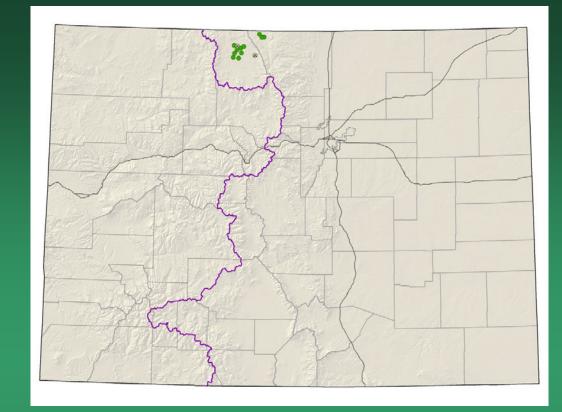


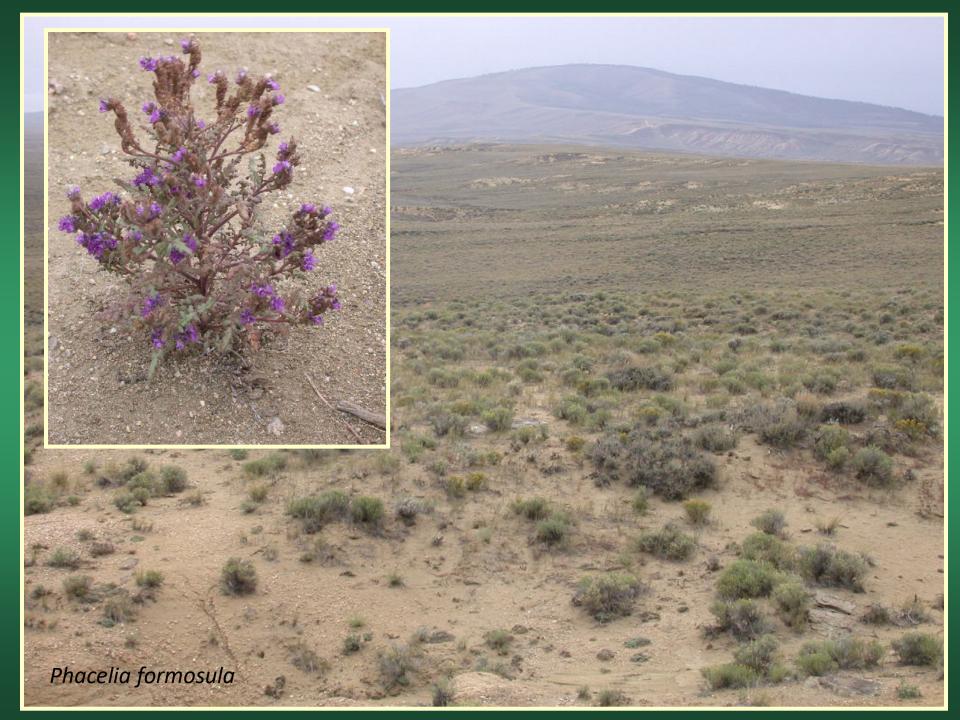
- <u>Federal status</u>: BLM sensitive, former candidate
- Heritage ranks: G4T1/S1
- Global distribution: Utah and Colorado (Rio Blanco County)
- <u>Elevation range</u>: 5700-6700 ft.
- <u>Last observed in Colorado</u>: 2017
- <u>Colorado occurrences</u>: 5
- <u>Colorado individuals</u>: 3400+
- Primary threats: overgrazing, oil and gas development, ORV use
- <u>Land ownership/management</u>: BLM, private



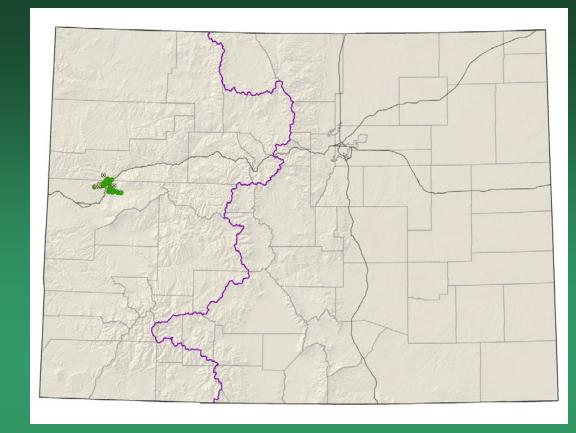
#### Phacelia formosula North Park phacelia

- <u>Federal status</u>: Endangered
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Jackson and Larimer counties)
- <u>Elevation range</u>: 7,900-8,300 ft.
- <u>Last observed</u>: 2018
- Occurrences: 13 (2 are historical)
- <u>Individuals</u>: 18,000-20,000
- <u>Primary threats</u>: ORV use, coal extraction, overgrazing, oil and gas development
- Land ownership/management: BLM, federal, state, private





## Phacelia submutica DeBeque phacelia



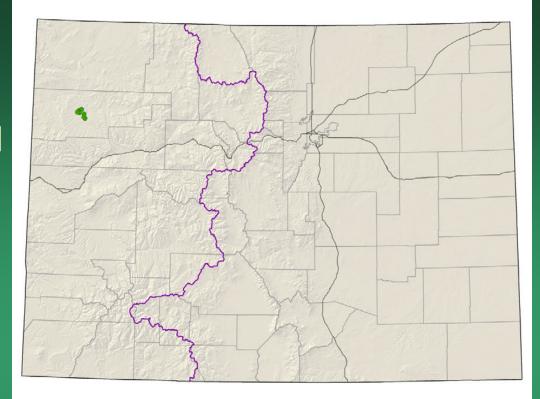
- <u>Federal status</u>: Threatened
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic (Garfield and Mesa counties)
- <u>Elevation range</u>: 5,000-6,540ft.
- <u>Last observed</u>: 2016
- Occurrences: 24 (6 are historical)
- <u>Individuals</u>: 25,000-68,000
- <u>Primary threats</u>: oil and gas development, ORV use, overgrazing, oil shale mining
- <u>Land ownership/management</u>: BLM, private, USFS



Phacelia submutica

## Physaria congesta Dudley Bluffs bladderpod

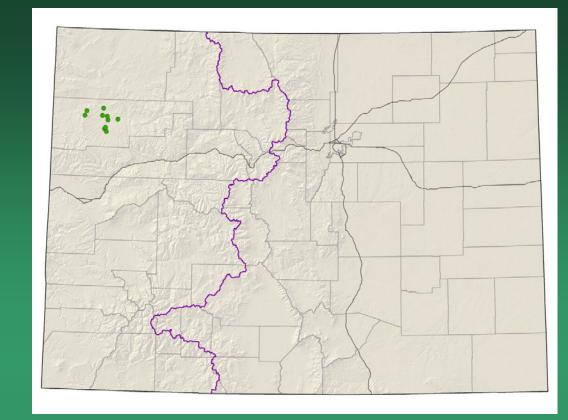
- Federal status: Threatened
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Rio Blanco County)
- <u>Elevation range</u>: 6,120-6,550 ft.
- <u>Last observed</u>: 2018
- Occurrences: 7
- <u>Individuals</u>: 650,000
- <u>Primary threats</u>: oil and gas development, oil shale and nahcolite mining, ORV use, overgrazing, trampling by wild horses
- Land ownership/management: BLM, state, private



Physaria (Lesquerella) congesta



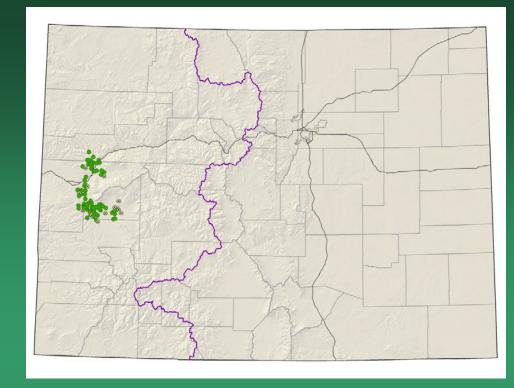
## Physaria obcordata Piceance twinpod



- <u>Federal status</u>: Threatened
- Heritage ranks: G1G2/S1S2
- Global distribution: Colorado endemic (Rio Blanco County)
- <u>Elevation range</u>: 5,930-7,560 ft.
- <u>Last observed</u>: 2017
- Occurrences: 11 (1 possibly extripated)
- <u>Individuals</u>: 30,000
- <u>Primary threats</u>: oil and gas development, oil shale mining, ORV use, trampling by wild horses
- Land ownership/management: BLM, state, private



## Sclerocactus glaucus Colorado hookless cactus

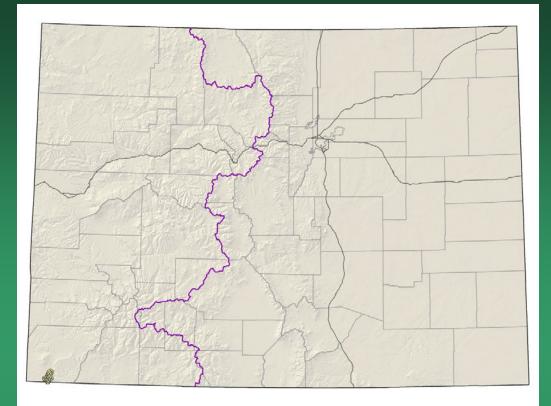


- <u>Federal status</u>: Threatened
- Heritage ranks: G2G3/S2S3
- Global distribution: Colorado (Delta, Garfield, Mesa, and Montrose counties)
- <u>Elevation range</u>: 4,650-7,130 ft.
- <u>Last observed in Colorado</u>: 2018
- <u>Colorado occurrences</u>: 95 (18 are historical or unrankable)
- Colorado individuals: ~15,000
- <u>Primary threats</u>: oil and gas development, residential development, cactus collecting
- Land ownership/management: BLM, federal, state, private, USFS



Sclerocactus glaucus

#### Sclerocactus mesae-verdae Mesa Verde cactus

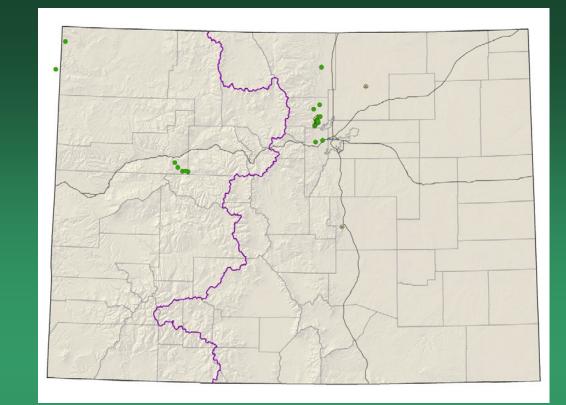


- <u>Federal status</u>: Threatened
- Heritage ranks: G2/S2
- Global distribution: New Mexico and Colorado (Montezuma County)
- <u>Elevation range</u>: 5,050-5,770 ft.
- <u>Last observed in Colorado</u>: 2013
- <u>Colorado occurrences</u>: 22 probably a single large occurrence
- Colorado individuals: 2,000-10,000
- <u>Primary threats</u>: weeds, feral horses, cactus collecting, ORV use
- Land ownership/management: tribe



Sclerocactus mesae-verdae

## Spiranthes diluvialis Ute ladies'-tresses



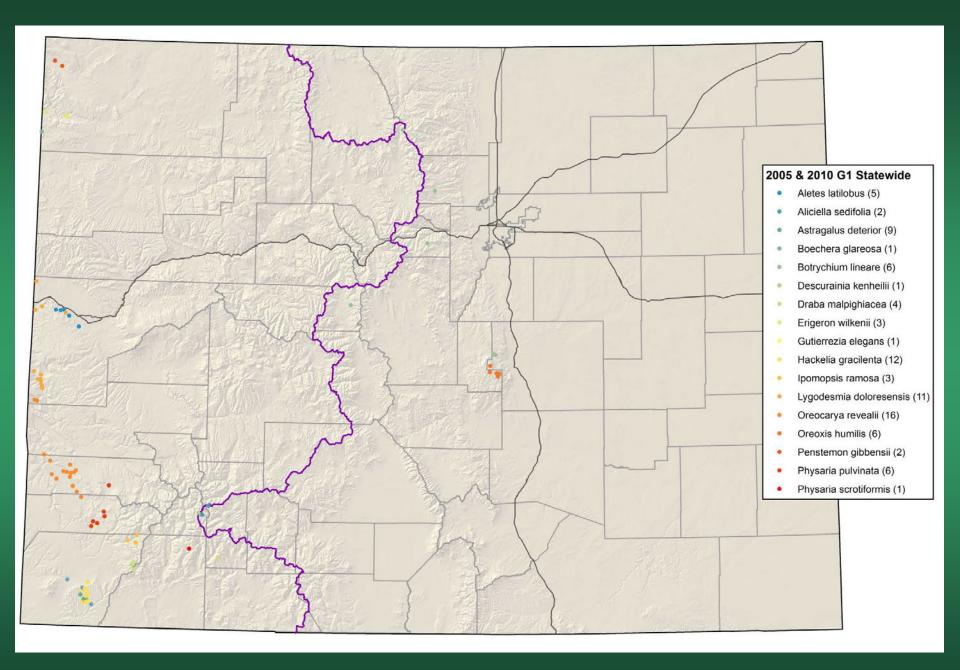
- <u>Federal status</u>: Threatened
- Heritage ranks: G2G3/S2
- Global distribution: Washington, Idaho, Montana, Wyoming, Nevada, Utah,
   Nebraska, and Colorado (Boulder, El Paso, Garfield, Jefferson, Larimer, Moffat, and Weld counties)
- <u>Elevation range</u>: 4,530-7,750 ft.
- <u>Last observed in Colorado</u>: 2018
- Colorado occurrences: 21 (3 are historical)
- Colorado individuals: 17,500
- <u>Primary threats</u>: weeds, residential development, hydrological alterations
- Land ownership/management: BLM, local government, NPS, USFS, state, private





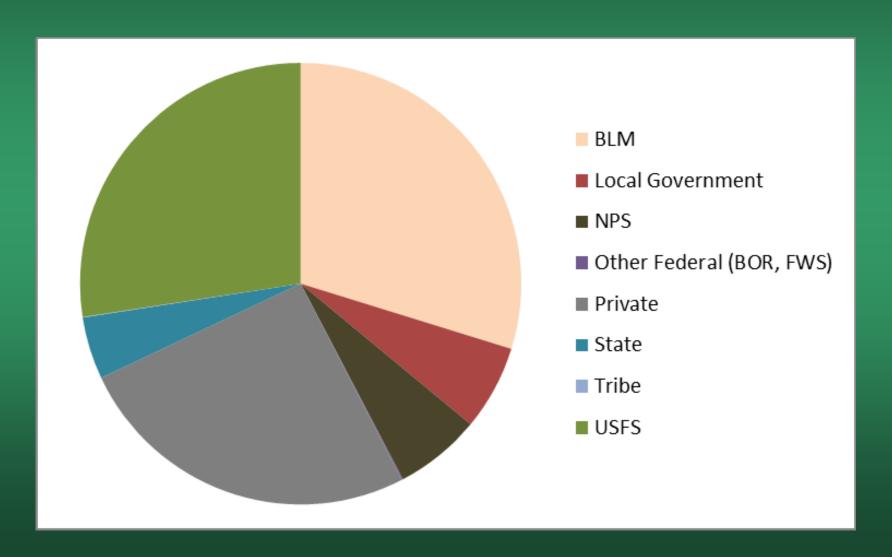
# Colorado Rare Plant Symposia Colorado G1 species

(excluding T,E&C & petitioned species)

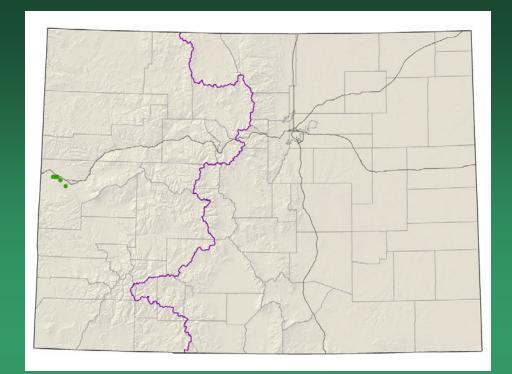


Location of Colorado G1Plant Species

# Land Ownership of G1 Plant Species of Colorado



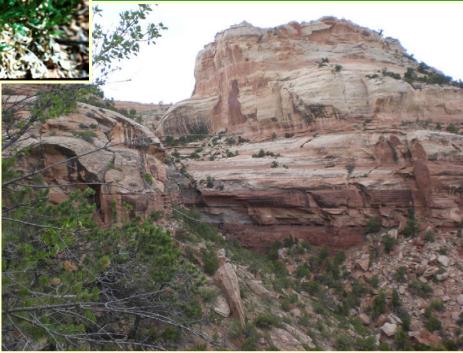
## Aletes latilobus= Lomatium latilobum Canyonlands biscuitroot



- <u>Federal status</u>: BLM sensitive
- Heritage ranks: G1G2/S1
- Global distribution: Utah (Grand and San Juan counties) and Colorado (Mesa County-- Colorado National Monument and Rattlesnake Canyon)
- <u>Elevation range</u>: 4,540-5,800 ft.
- Last observed in Colorado: 2009
- Colorado occurrences: 5
- Colorado individuals: >5,000
- Primary threats: Habitat disturbance, Park developments, trampling by hikers
- Land ownership/management: BLM, NPS

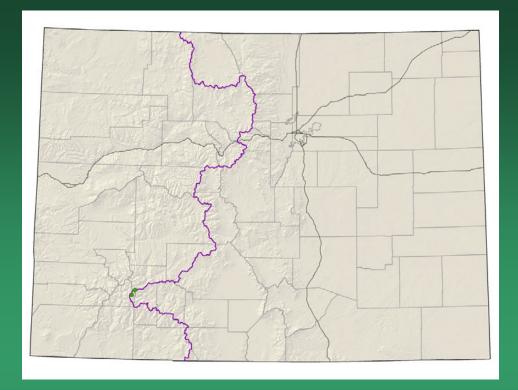
#### Aletes latilobus





#### Aliciella sedifolia =Gilia sedifolia Stonecrop gilia

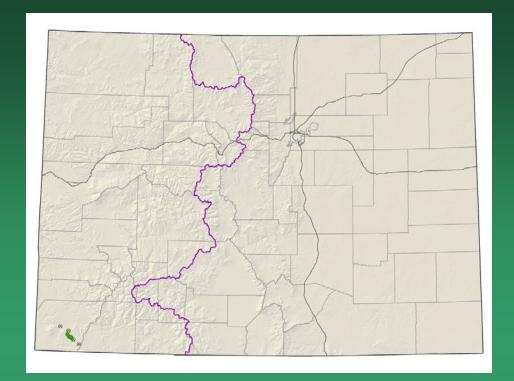
- Federal status: BLM & USFS
- sensitive
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic, San Juan Mountains, Hinsdale County
- <u>Elevation range</u>: 12,720-13,830 ft.
- <u>Last observed</u>: 2017
- Occurrences: 3
- <u>Individuals</u>: 1,100
- Primary threats: non-motorized recreation
- Land ownership/management: USFS



#### Aliciella sedifolia



## Astragalus deterior Cliff Palace milkvetch



- <u>Federal status</u>: None
- Heritage ranks: G1G2/S1S2
- Global distribution: Colorado endemic (Montezuma County)
- <u>Elevation range</u>: 5,740-8,130 ft.
- <u>Last observed in Colorado</u>: 2017
- Colorado occurrences: 11 (5 historical)
- Colorado individuals: ~5000
- Primary threats: Non-motorized recreation, exotics
- Land ownership/management: BLM, NPS, private, tribe



## Boechera glareosa snowbasin rockcress



- Federal status: none
- Heritage ranks: G1/S1
- Global distribution: Utah and Colorado (Moffat county)
- <u>Elevation range</u>: 6,715-6,970 ft.
- Last observed in Colorado: 2002
- Colorado occurrences: 1
- Colorado individuals: unknown
- Primary threats: unknown
- Land ownership/management: BLM

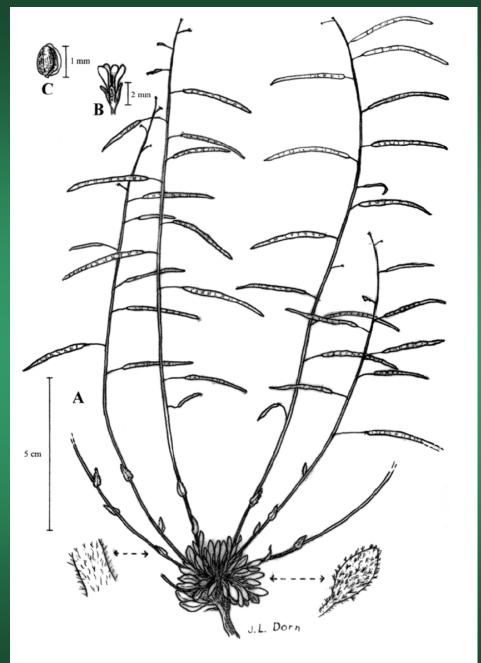
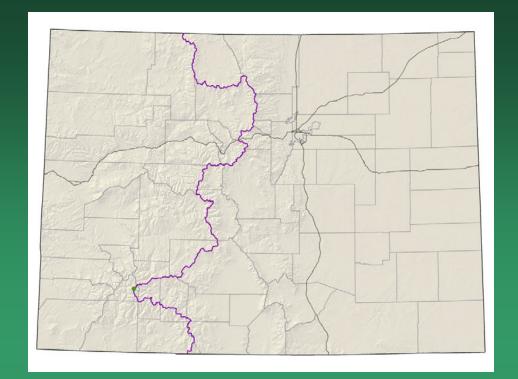
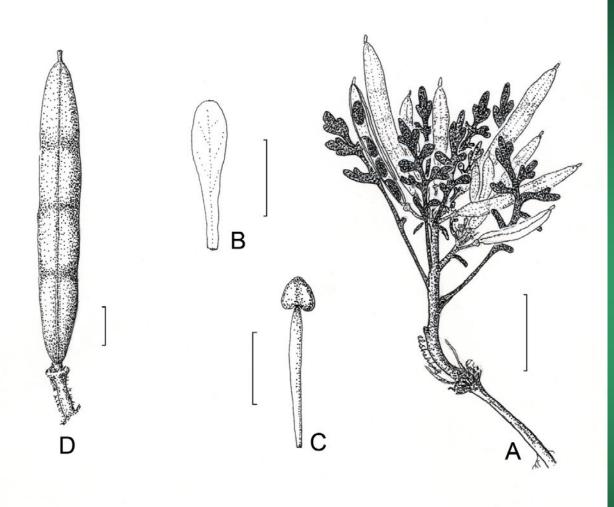


Fig. 1. Boechera glareosa. A. Fruiting plant. B. Flower. C. Seed. (From Dorn 8734 & 9106, RM.)

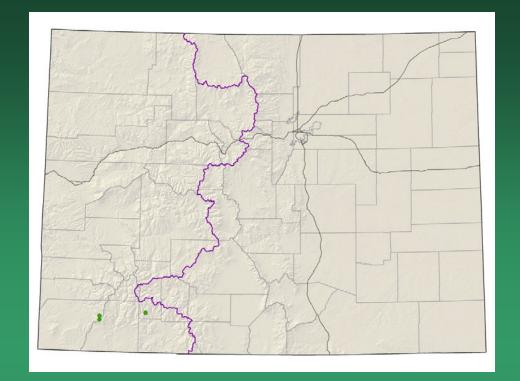
#### Descurainia kenheilii Heil's tansy mustard



- <u>Federal status</u>: none
- Heritage ranks: G1/S1
- Global distribution: Endemic to CO; San Juan County
- <u>Elevation range</u>: 12,200-12,950 ft.
- Last observed in Colorado: 1997
- Colorado occurrences: 1
- Colorado individuals: unknown
- Primary threats: unknown
- Land ownership/management: BLM, private, USFS



## Draba malphigiaceae whitlow- grass

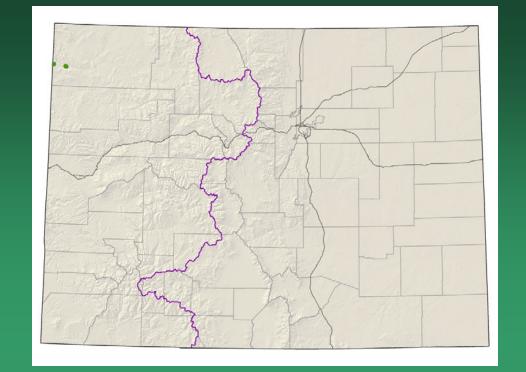


- <u>Federal status</u>: none
- Heritage ranks: G1?/S1?
- Global distribution: Endemic to CO; Hinsdale, La Plata and Montezuma counties
- <u>Elevation range</u>: 9,760-12,990 ft.
- <u>Last observed in Colorado</u>: 2012
- Colorado occurrences: 4
- Colorado individuals: unknown
- Primary threats: unknown
- Land ownership/management: private, USFS

#### Draba malphigiaceae



#### Erigeron wilkenii Dieter's fleabane



- Federal status: none
- Heritage ranks: G1/S1
- Global distribution: endemic to Colorado (Dinosaur National Monument, Moffat County)
- <u>Elevation range</u>: 5,160-6,030 ft.
- <u>Last observed</u>: 2012
- Occurrences: 3 (1 is historical)
- <u>Individuals</u>: 1,000-3,000
- Primary threats: no specific threats known
- Land ownership: NPS

#### Erigeron wilkenii



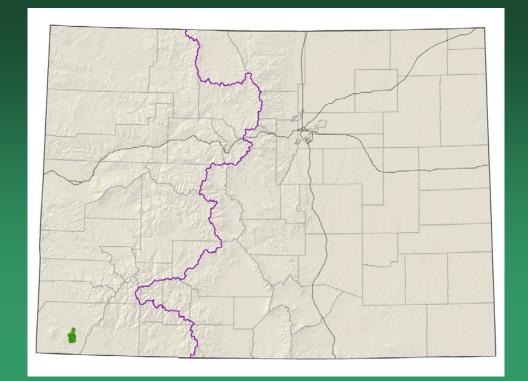
# Gutierrezia elegans Lone Mesa snakeweed

- Federal status: BLM & USFS
- sensitive
- Heritage ranks: G1/S1
- Global distribution: Endemic to Colorado; Dolores County
- <u>Elevation range</u>: 7,530-7,800 ft.
- Last observed in Colorado: 2018
- Colorado occurrences: 1
- Colorado individuals: 30,000
- Primary threats: grazing, recreation
- Land ownership/management: BLM, state, private, USFS



Gutierrezia elegans

### Hackelia gracilenta Mesa Verde stickseed

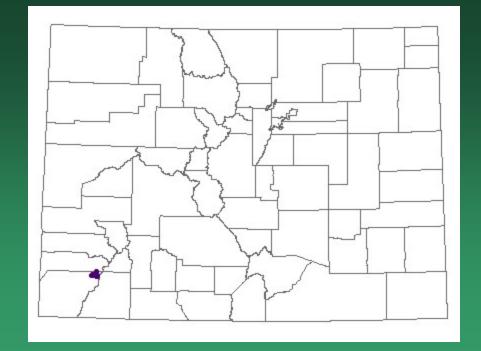


- <u>Federal status</u>: none
- Heritage ranks: G1G2/S1S2
- Global distribution: Colorado endemic, Mesa Verde National Park, Montezuma County
- <u>Elevation range</u>: 6,180-8,180 ft.
- Last observed: 2017
- Occurrences: 12 (1 is historical)
- Individuals: unknown, may be <1000</li>
- Primary threats: Unknown, possibly recreation, and/or developments in the Park, such as trails or roads. Fires may have had an impact on this species.
- Land ownership/management: BLM, NPS, private, tribe

#### Hackelia gracilenta



### *Ipomopsis ramosa*Coral ipomopsis



- Federal status: none
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic, Dolores River Canyon, Dolores and Montezuma Counties
- <u>Elevation range</u>: 8200-9200 ft.
- <u>Last observed</u>: 2014
- Occurrences: 3
- <u>Individuals</u>: 7400
- Primary threats: Unknown
- Land ownership/management: FS, private

#### Ipomopsis ramosa



#### Lepidium huberi Huber's pepperweed

- <u>Federal status</u>: none
- Heritage ranks: G1G2/S1S2
- Global distribution: Eastern Utah in the Uinta Mountains and the East Tavaputs Plateau and Garfield, Mesa and Rio Blanco counties, Colorado.
- Elevation range: 5100-7200 ft.
- Last observed: 2013
- Occurrences: 18 (13 are historical)
- Individuals: unknown
- Primary threats: invasive species and oil and gas development
- Land ownership/management: BLM, private

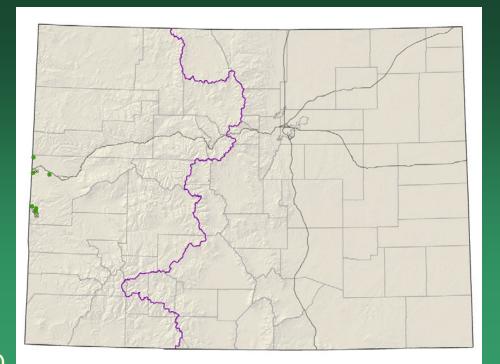
# Uintah County, Utah, USA Lepidlom huberl 5. L. Wehh & Goodrich N 40" 31"56" W 109" 31'26" at 5,530 ft elev., just above Szeinaker Reservoir, greasewood community, plants sobust and doing well, but apparently waits from seed deposited in floods generated by thunderstorms hitting Navajo Sandstone S. Goodrich 25826 - 1 Sept. 2014 - 4 Herbarium Utah State University, Vernal, Utah USUUB

#### Lepidium huberi



# Lygodesmia doloresensis Dolores River skeletonplant

**Conservation Action Plan** 



- Federal status: BLM sensitive in CO
- Heritage ranks: G1G2/S1S2
- Global distribution: Utah and Colorado (Mesa county)
- <u>Elevation range</u>: 4,475-6,125 ft.
- Last observed in Colorado: 2017
- Colorado occurrences: 12 (3 are historical)
- Colorado individuals: 5000
- <u>Primary threats</u>: deer, rabbit, and cattle grazing, private land development, road maintenance, weeds
- Land ownership/management: BLM, private, state

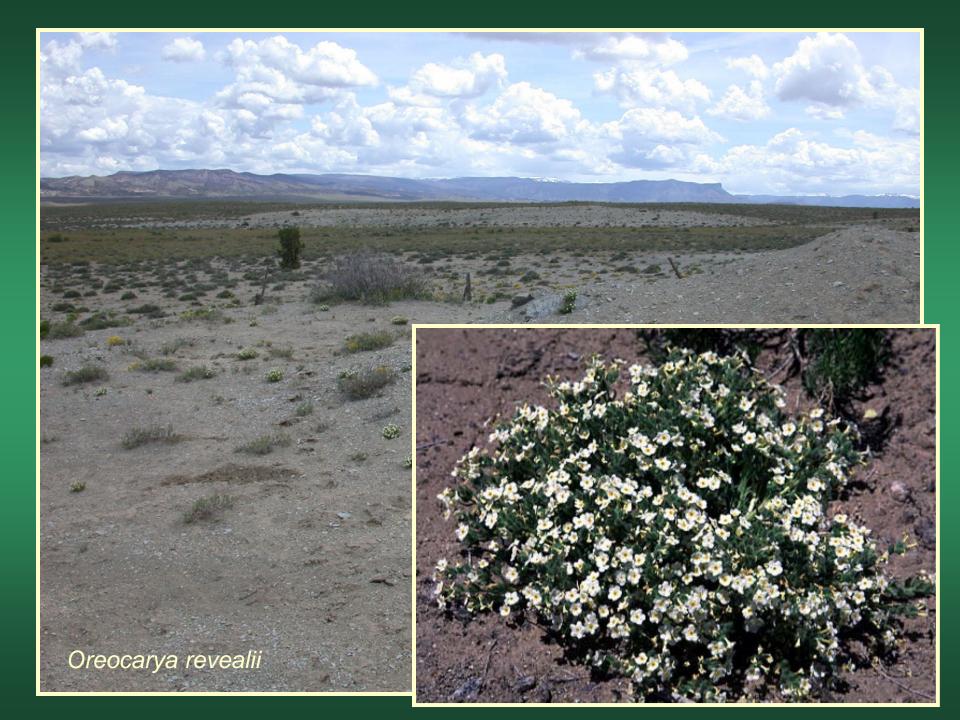


#### Oreocarya revealii

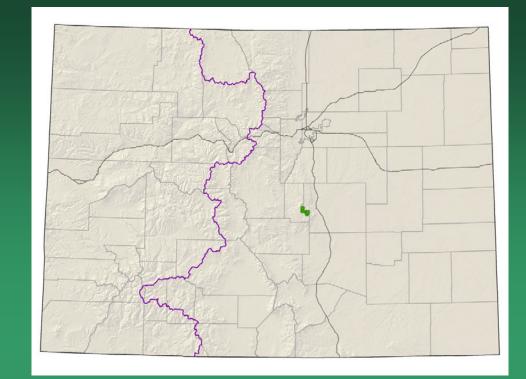
#### Gypsum Valley Cat-eye

**Conservation Action Plan** 

- Federal status: BLM Sensitive
- Heritage ranks: G1G2/S1S2
- Global distribution: Colorado endemic, Mesa, Montrose & San Miguel Counties
- <u>Elevation range</u>: 5,400-6,790 ft.
- <u>Last observed</u>: 2012
- Occurrences: 16 (1 historical)
- <u>Individuals</u>: 20,000+
- Primary threats: oil and gas development, grazing, ATVs, recreation, roads
- Land ownership/management: BLM, state, private



# Oreoxis humilis Pikes Peak alpine parsley



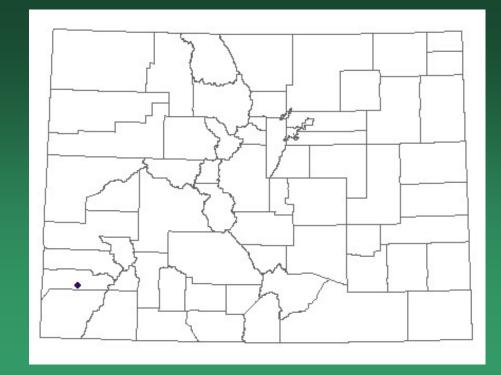
- <u>Federal status</u>: USFS sensitive
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (El Paso and Teller counties)
- <u>Elevation range</u>: 9,635-14,000 ft.
- <u>Last observed</u>: 2015+
- Occurrences: 4 principal occurrences
- <u>Individuals</u>: 4,340 (tens of thousands estimated)
- <u>Primary threats</u>: road erosion and construction, structure maintenance, motorized and non-motorized recreation, herbivory, weeds
- Land ownership/management: private, USFS



#### Oreoxis humilis

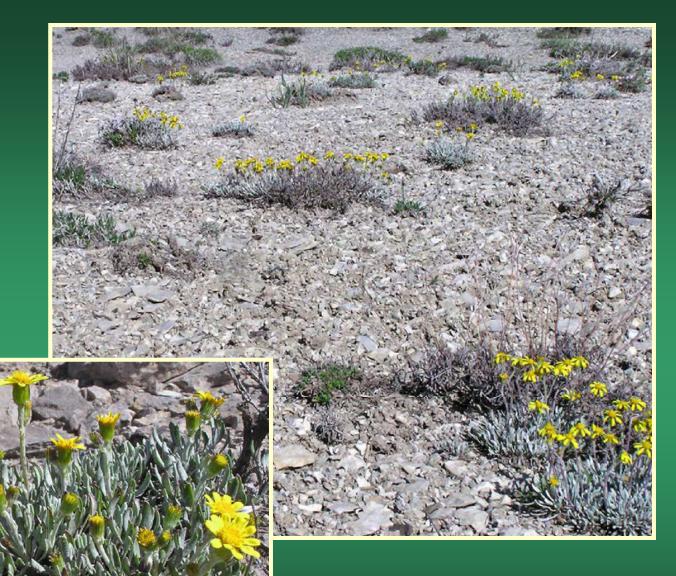


#### Packera mancosana Mancos shale packera

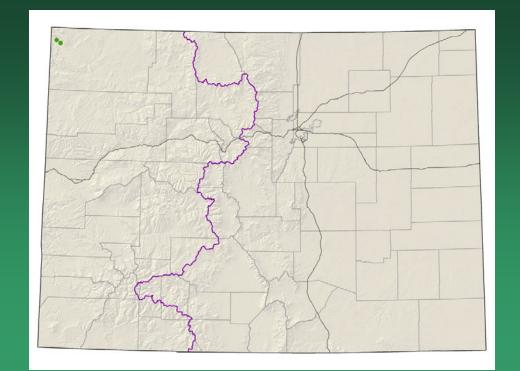


- Federal status: USFS sensitive
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (Dolores County)
- Elevation range: 7,575 ft.
- <u>Last observed</u>: 2017
- Occurrences: 1
- Individuals: 250
- Primary threats: grazing
- Land ownership/management: state

Packera mancosana



#### Penstemon gibbensii Gibbens' beardtongue

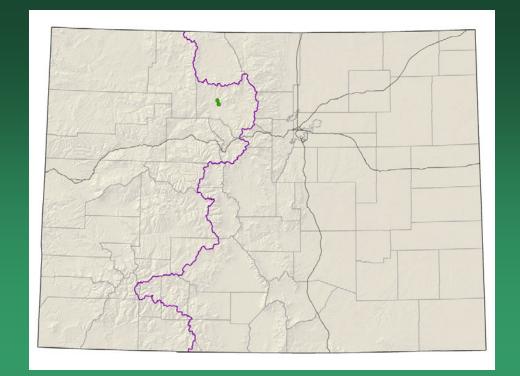


- <u>Federal status</u>: BLM sensitive
- Heritage ranks: G1G2/S1
- Global distribution: SC Wyoming, NE Utah, and NW Colorado (Moffat County)
- <u>Elevation range</u>: 5,400-5,730 ft.
- Last observed in Colorado: 2017
- Occurrences: 3 in CO; 7 total
- Individuals: 6200 in Colorado; 17,000 individuals total
- <u>Primary threats in CO</u>: noxious weeds, grazing, recreational activities, and uranium mining
- Land ownership in CO: BLM, federal

#### Penstemon gibbensii

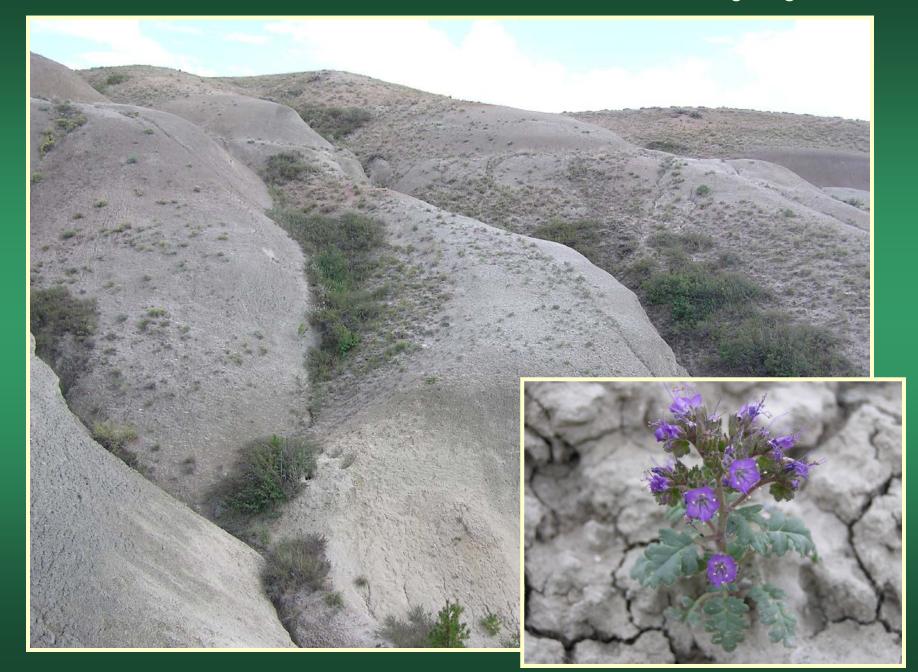


#### Phacelia gina-glenneae Troublesome phacelia



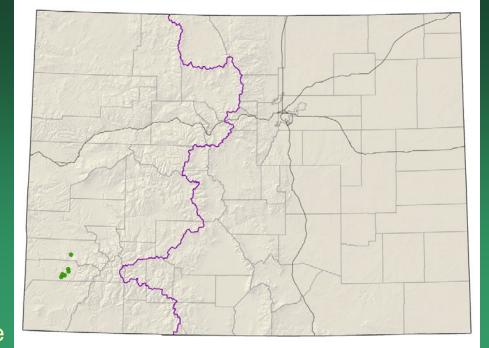
- Federal status:
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic, Grand County
- <u>Elevation range</u>: 7600 ft.
- Last observed: 2016
- Occurrences: 1
- Individuals: 10,000-50,000
- Primary threats: livestock trampling, energy development
- Land ownership/management: BLM, private

#### Phacelia gina-glenneae



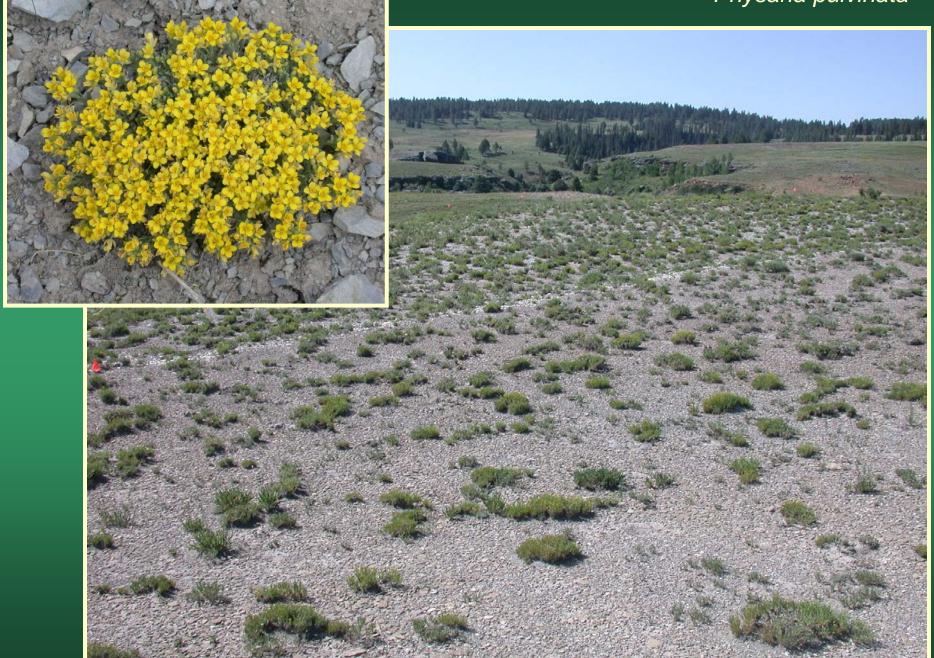
### Physaria pulvinata Cushion bladderpod

**Conservation Action Plan** 

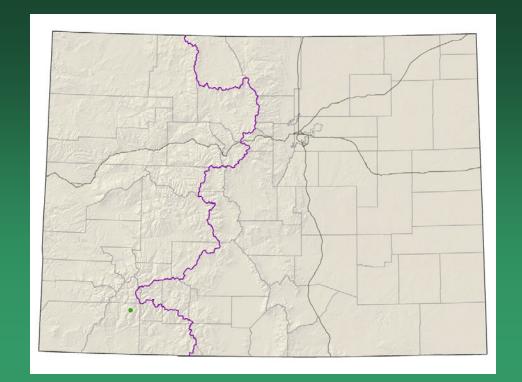


- <u>Federal status</u>: BLM & USFS sensitive
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic, San Miguel and Dolores counties
- <u>Elevation range</u>: 7,540-8,490 ft.
- Last observed: 2018
- Occurrences: 6
- <u>Individuals</u>: 22,000
- <u>Primary threats</u>: recreation, livestock trampling, weed control, habitat modification for sage grouse management, roads
- Land ownership/management: BLM, state, private, USFS

#### Physaria pulvinata



# Physaria scrotiformis West Silver bladderpod



- <u>Federal status</u>: USFS sensitive
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic, La Plata and San Juan Counties
- <u>Elevation range</u>: 11,555-11,830 ft.
- <u>Last observed in Colorado</u>: 2017
- Colorado occurrences: 2
- Colorado individuals: 1000+
- Primary threats: unknown
- Land ownership/management: USFS

#### Physaria scrotiformis



## To contribute data or photos contact:

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