Review of Previous Meetings

Colorado Rare Plant Symposia Statewide G1 (2005/2010) SE Colorado G2 (2006/2012)



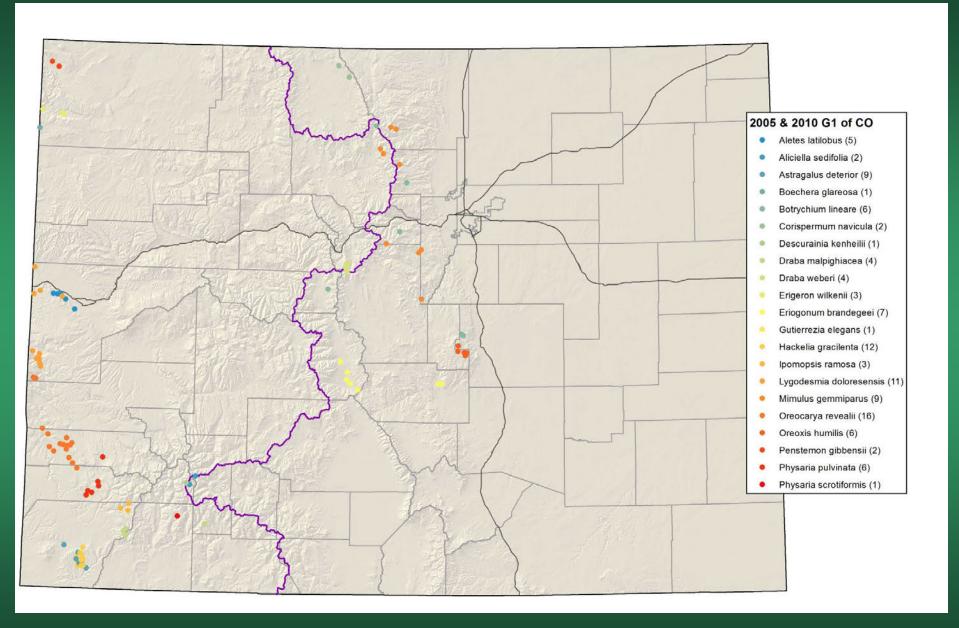




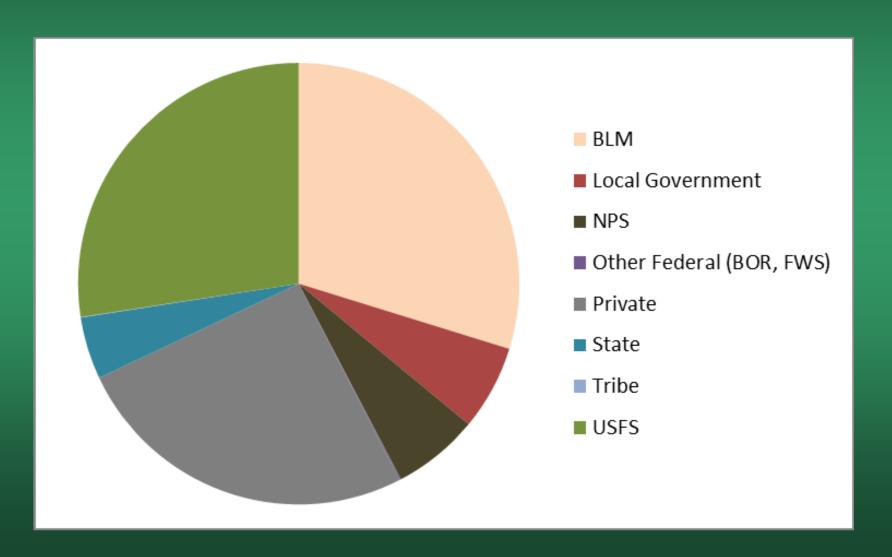




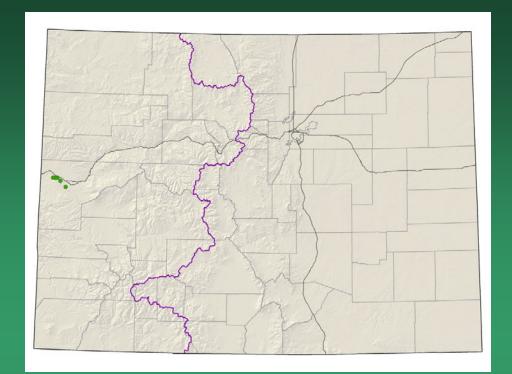
2005/2010
Pagosa Springs/Denver
Statewide
G1 species
(excluding T,E&C species)



Land Ownership of G1 Plant Species of Colorado



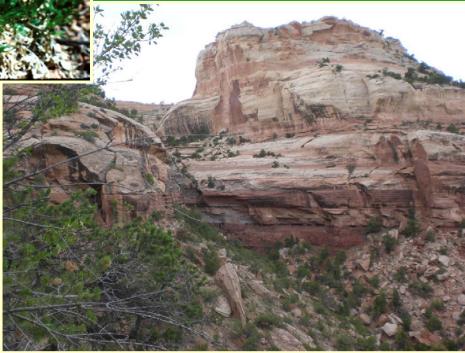
Aletes latilobus= Lomatium latilobum Canyonlands biscuitroot



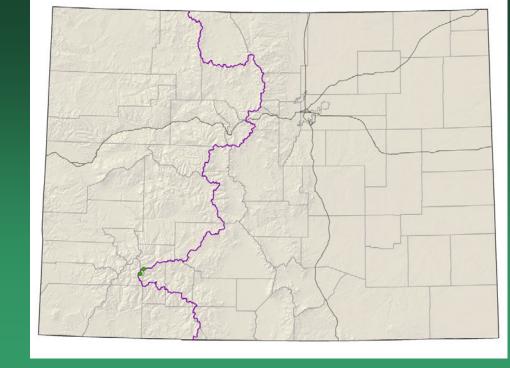
- <u>Federal status</u>: BLM sensitive
- Heritage ranks: G1G2/S1
- Global distribution: Utah (Grand and San Juan counties) and Colorado (Mesa County-- Colorado National Monument and Rattlesnake Canyon)
- <u>Elevation range</u>: 4,540-5,800 ft.
- Last observed in Colorado: 2009
- Colorado occurrences: 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

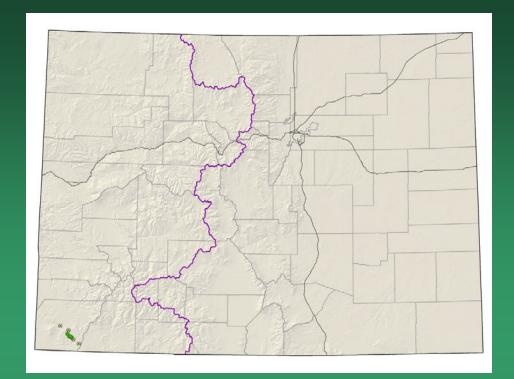


- Federal status: BLM & USFS
- sensitive
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic, San Juan Mountains, Hinsdale County
- <u>Elevation range</u>: 12,720-13,830 ft.
- <u>Last observed</u>: 2007
- Occurrences: 2
- <u>Individuals</u>: 1,100
- Primary threats: non-motorized recreation
- Land ownership/management: USFS

Aliciella sedifolia



Astragalus deterior Cliff Palace milkvetch



- Federal status: None
- Heritage ranks: G1G2/S1S2
- Global distribution: Colorado endemic (Montezuma County)
- Elevation range: 5,740-8,130 ft.
- <u>Last observed in Colorado</u>: 2012
- Colorado occurrences: 10 (5 historical)
- Colorado individuals: ~5000
- Primary threats: Non-motorized recreation, exotics
- Land ownership/management: BLM, NPS, private, tribe



Astragalus deterior



Astragalus lonchocarpus var.

hamiltonii

=A. hamiltonii

Hamilton's milkvetch

As a result of 2011 surveys the occurrence in CO was determined to be A. lonchocarpus

- <u>Federal status</u>: none
- Heritage ranks: G4T1/SNA
- Global distribution: Uintah County, Utah
- Last observed in Colorado: 1991
- Colorado occurrences: 0
- Colorado individuals:
- Primary threats: unknown, area heavily grazed in past, OHV and oil & gas development for UT occurrences.
- Land ownership/management: BLM, NPS, state, 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.
- <u>Last observed in Colorado</u>: 2002
- Colorado occurrences: 1
- Colorado individuals: unknown
- Primary threats: unknown
- Land ownership/management: BLM

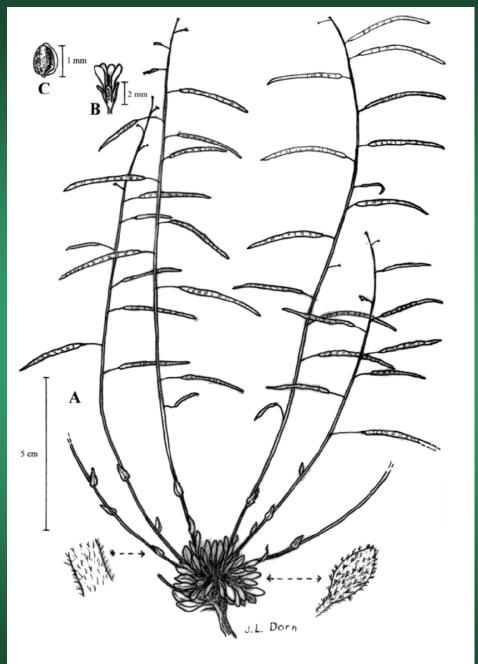
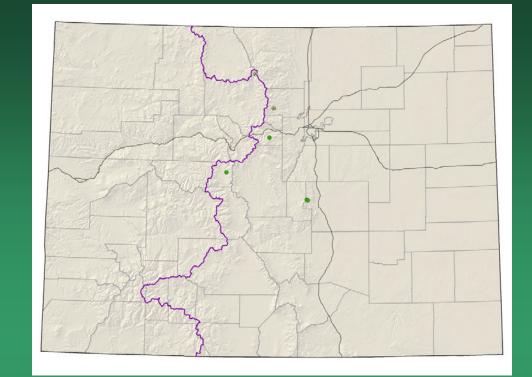


Fig. 1. Boechera glareosa, A. Fruiting plant. B. Flower. C. Seed. (From Dorn 8734 & 9106, RM.)

Botrychium lineare =

Botrychium campestre ssp. lineare

Narrowleaf grapefern



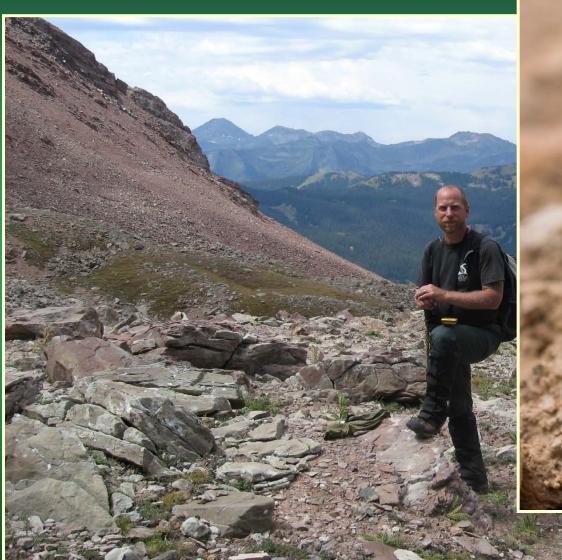
- <u>Federal status</u>: Removed;
 USFS Sensitive
- Heritage ranks: G2G3 / S2S3
- Global distribution: New Brunswick, Quebec, Alaska, Idaho, Montana, Oregon, California, South Dakota, Wyoming, and Colorado
- <u>Elevation range</u>: 8,540-11,900 ft.
- <u>Last observed in Colorado</u>: 2005+
- Colorado occurrences: 10+
- Colorado individuals: 500
- <u>Primary threats</u>: road maintenance, weeds
- <u>Land ownership/management</u>: BLM, local government, NPS, state, private, USFS

Botrychium lineare

Botrychium tax. nov. "furcatum" = Botrychium campestre forkleaved moonwort

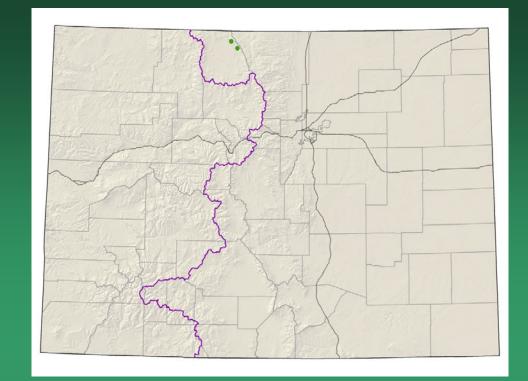
- Federal status: none
- Heritage ranks: GNR / SNR
- Global distribution: Colorado (Boulder, Chaffee, Clear Creek, Costilla, Grand, Gunnison, Lake, Park, and Saguache counties), New Mexico (Wheeler Peak, Taos County, pending genetic verification)
- Last observed in Colorado: 2009
- Colorado occurrences: to be subsumed under B. campestre
- Colorado individuals: ~1200
- Primary threats: maintenance and improvements of roads and earthen dams
- Land ownership/management: USFS, NPS, Private

Botrychium tax. nov. "furcatum"





Corispermum navicula Crescent bugseed



- Federal status: BLM sensitive
- Heritage ranks: G1?/S1
- Global distribution: Colorado endemic (Jackson County), possibly Oklahoma?
- <u>Elevation range</u>: 8,230-8,730 ft.
- Last observed: 2014
- Occurrences: 2 principal occurrences
- <u>Individuals</u>: common locally
- Primary threats: off-road vehicle use
- Land ownership/management: BLM, state

Corispermum navicula

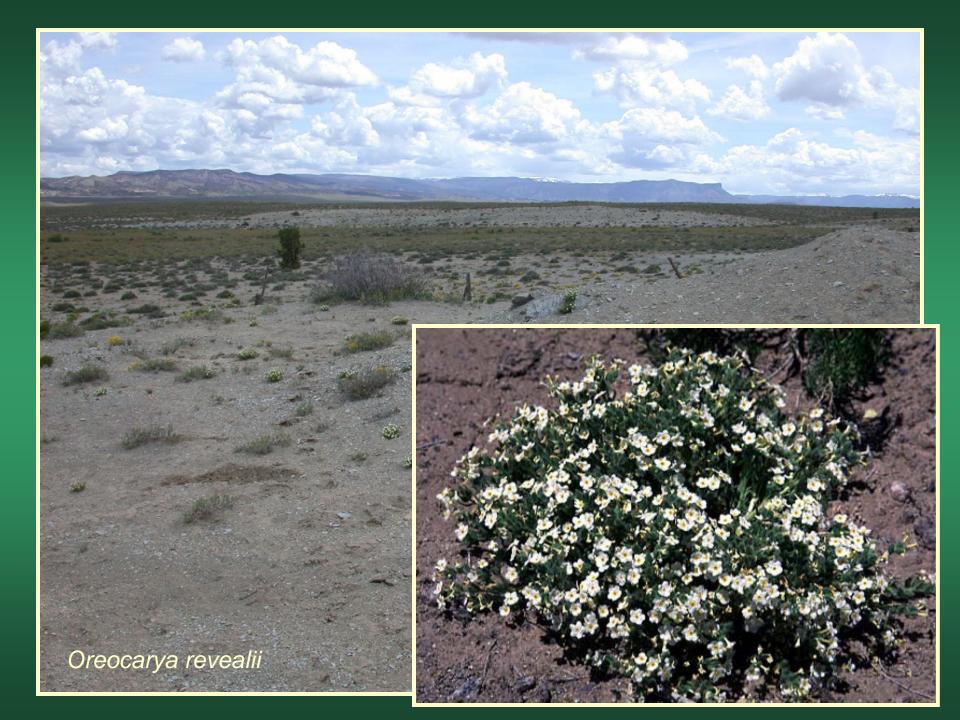




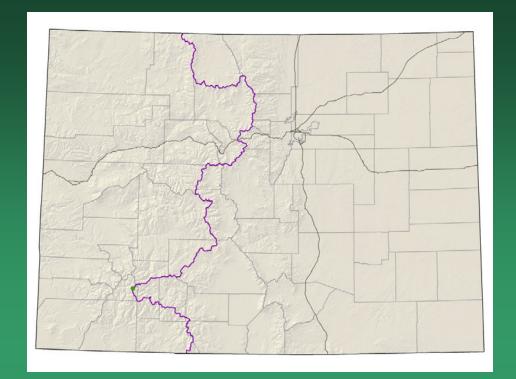
Cryptantha gypsophila Gypsum Valley Cat-eye

Conservation Action Plan

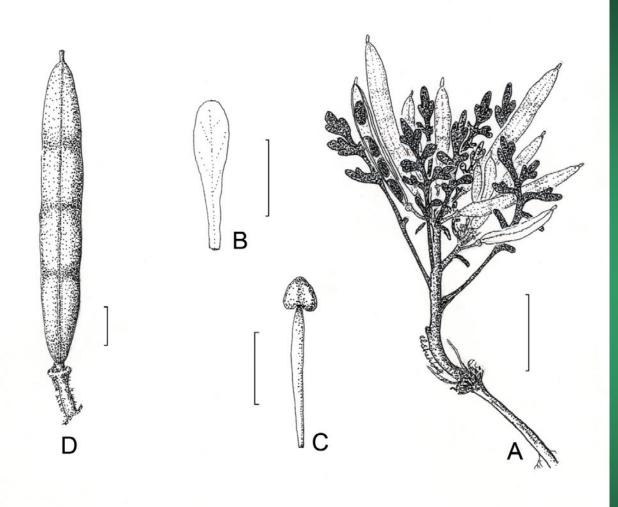
- Federal status: BLM Sensitive
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic, Mesa, Montrose & San Miguel Counties
- <u>Elevation range</u>: 5,400-6,790 ft.
- Last observed: 2012
- Occurrences: 16 (1 historical)
- <u>Individuals</u>: 25,100+
- Primary threats: oil and gas development, grazing, ATVs, recreation, roads
- Land ownership/management: BLM, state, private



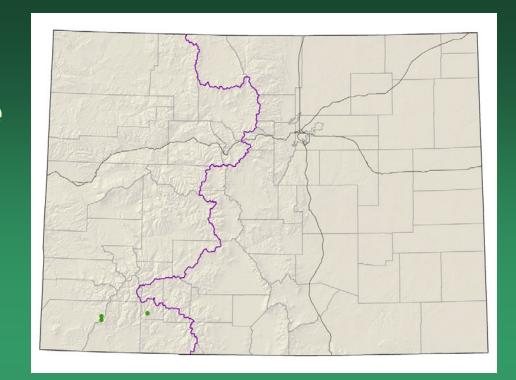
Descurainia kenheilii Heil's tansy mustard



- Federal status: 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

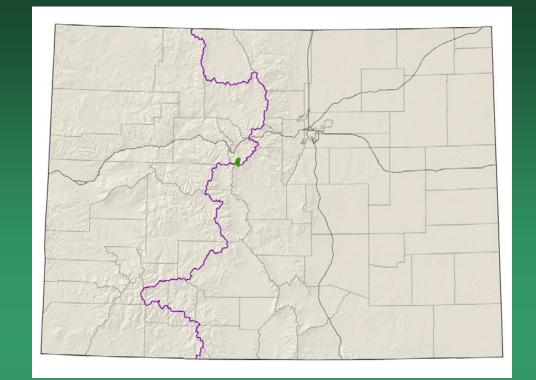


- <u>Federal status</u>: none
- Heritage ranks: G1?/S1?
- Global distribution: Endemic to CO; Hinsdale, La Plata and Montezuma counties
- <u>Elevation range</u>: 9,760-12,990 ft.
- Last observed in Colorado: 2012
- Colorado occurrences: 4
- Colorado individuals: unknown
- Primary threats: unknown
- Land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

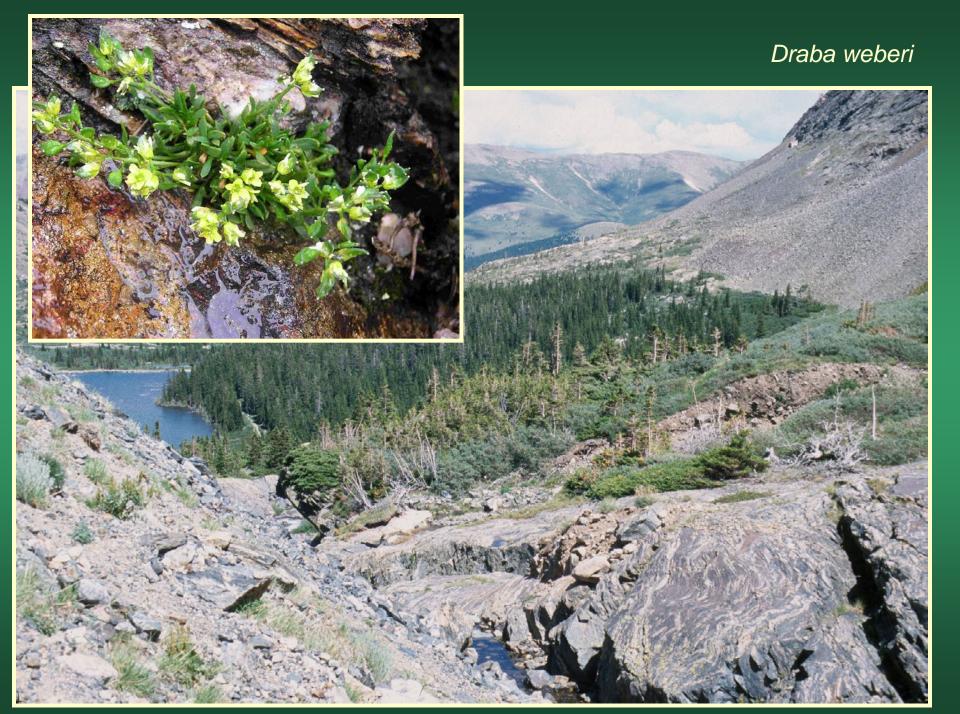
Draba malphigiaceae



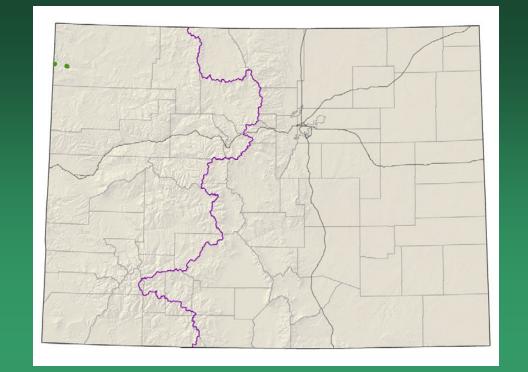
Draba weberi Weber's draba



- Federal status: USFS sensitive
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic, Park and Summit counties
- <u>Elevation range</u>: 11,120-11,160 ft.
- Last observed: 2014
- Occurrences: 4?
- <u>Individuals</u>: 20-100
- Primary threats: road and dam construction and maintenance, environmental stochasticity, recreation, mining, noxious weeds, climate change
- Land ownership/management: private, USFS



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.
- Last observed: 2012
- Occurrences: 3 (1 is historical)
- <u>Individuals</u>: 1,000-3,000
- Primary threats: no specific threats known
- Land ownership: NPS

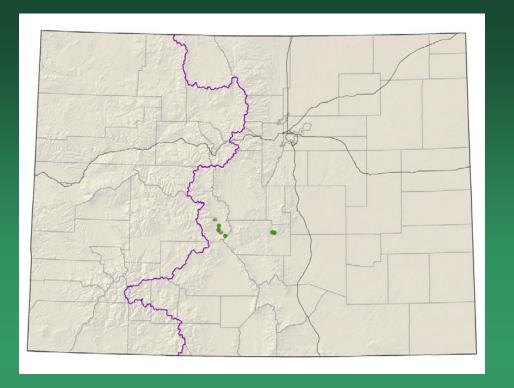
Erigeron wilkenii



Eriogonum brandegeei Brandegee's buckwheat

Conservation Action Plan

- Federal status: USFS & BLM
- sensitive
- Heritage ranks: G1G2/S1S2
- Global distribution: Colorado endemic, Chaffee and Fremont counties
- <u>Elevation range</u>: 5,715-8,650 ft.
- Last observed: 2013-14
- <u>Individuals</u>: 35,000+
- Occurrences: 8 (3 are 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





Gutierrezia elegans Lone Mesa snakeweed

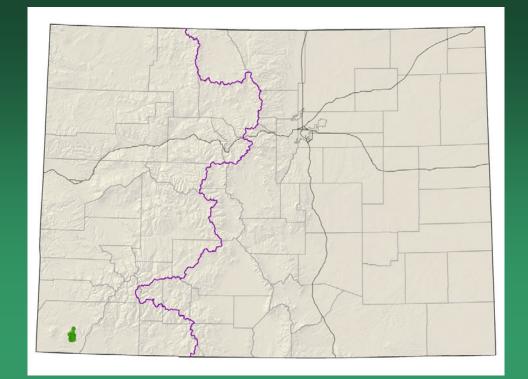
Conservation Action Plan

- 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.
- <u>Last observed in Colorado</u>: 2012
- Colorado occurrences: 1
- Colorado individuals: 30,000
- Primary threats: grazing, recreation
- Land ownership/management: BLM, state, private, USFS



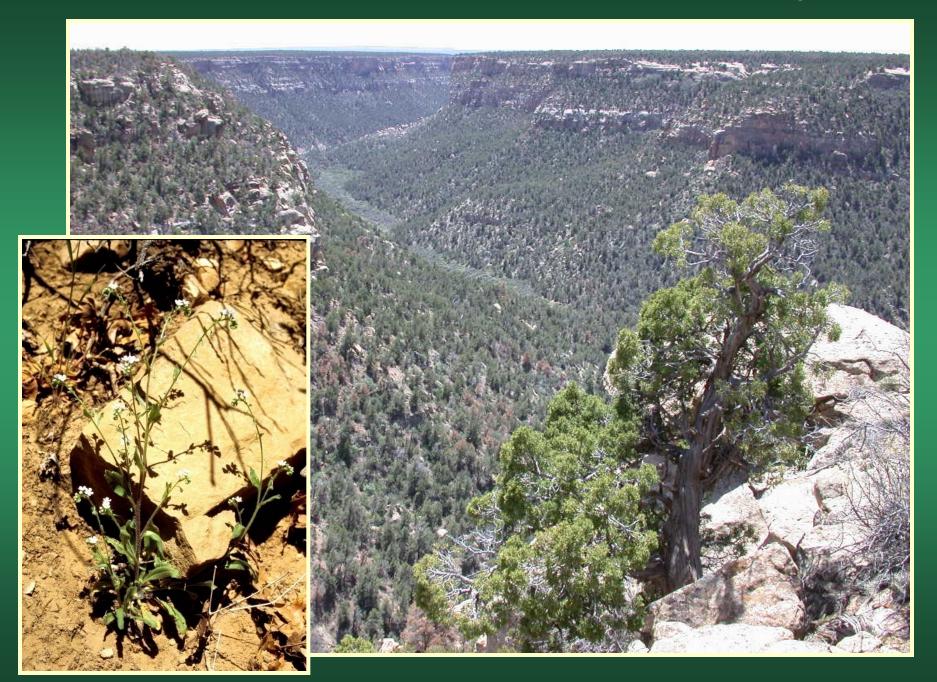
Gutierrezia elegans

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: 2013
- Occurrences: 12 (1 is historical)
- <u>Individuals</u>: unknown, may be <1000
- <u>Primary threats</u>: 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



Lygodesmia doloresensis Dolores River skeletonplant

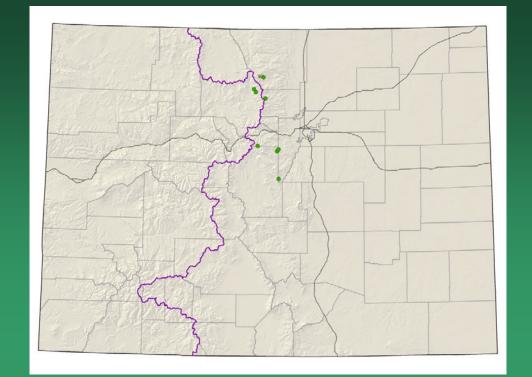
Conservation Action Plan



- 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: 2012
- Colorado occurrences: 11 (4 are historical)
- Colorado individuals: 3700
- <u>Primary threats</u>: deer, rabbit, and cattle grazing, private land development, road maintenance, weeds
- Land ownership/management: BLM, private

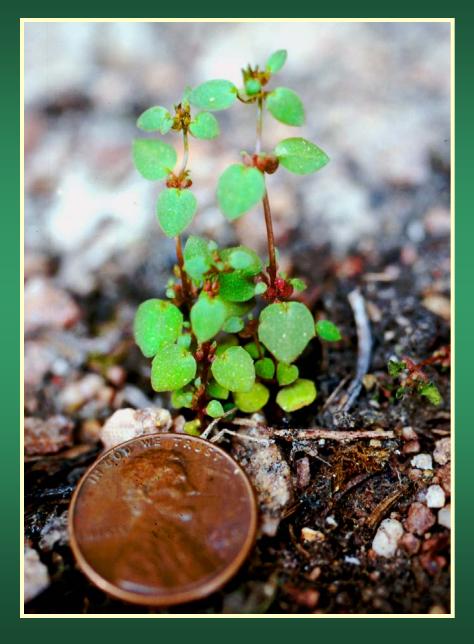


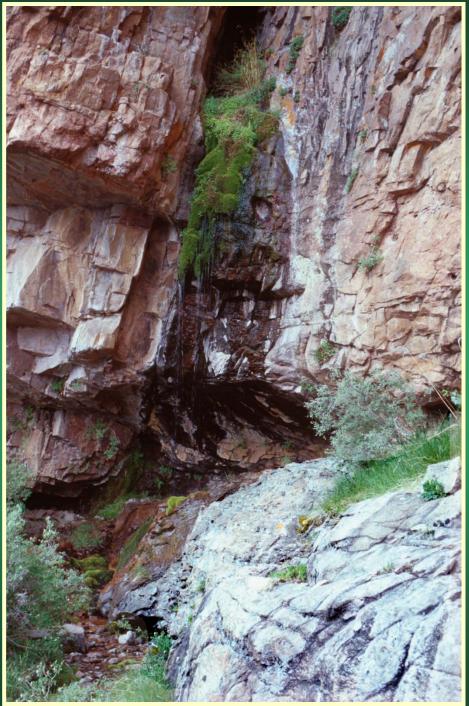
Mimulus gemmiparus Budding monkeyflower



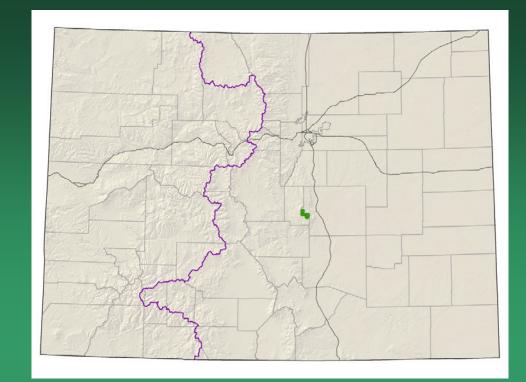
- <u>Federal status</u>: USFS sensitive
- Heritage ranks: G1/S1
- <u>Global distribution</u>: Colorado endemic, Boulder, Clear Creek, Jefferson, Grand, and Larimer counties
- <u>Elevation range</u>: 8,360-11,200 ft.
- Last observed: 2013
- Occurrences: 9 (1 historical)
- <u>Individuals</u>: >125,000
- <u>Primary threats</u>: recreational activities, trampling, competition from other plants, interference with hydrology
- Land ownership/management: NPS, state, USFS

Mimulus gemmiparus





Oreoxis humilis Pike's Peak alpine parsley



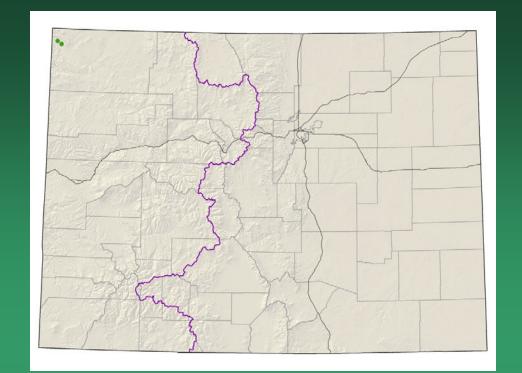
- <u>Federal status</u>: USFS sensitive
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic (El Paso and Teller counties)
- <u>Elevation range</u>: 9,635-12,810 ft.
- <u>Last observed</u>: 2010
- Occurrences: 4 principal occurrences
- <u>Individuals</u>: 4,340 (tens of thousands estimated)
- <u>Primary threats</u>: road erosion and construction, structure maintenance, motorized and non-motorized recreation, herbivory, weeds
- Land ownership/management: private, USFS



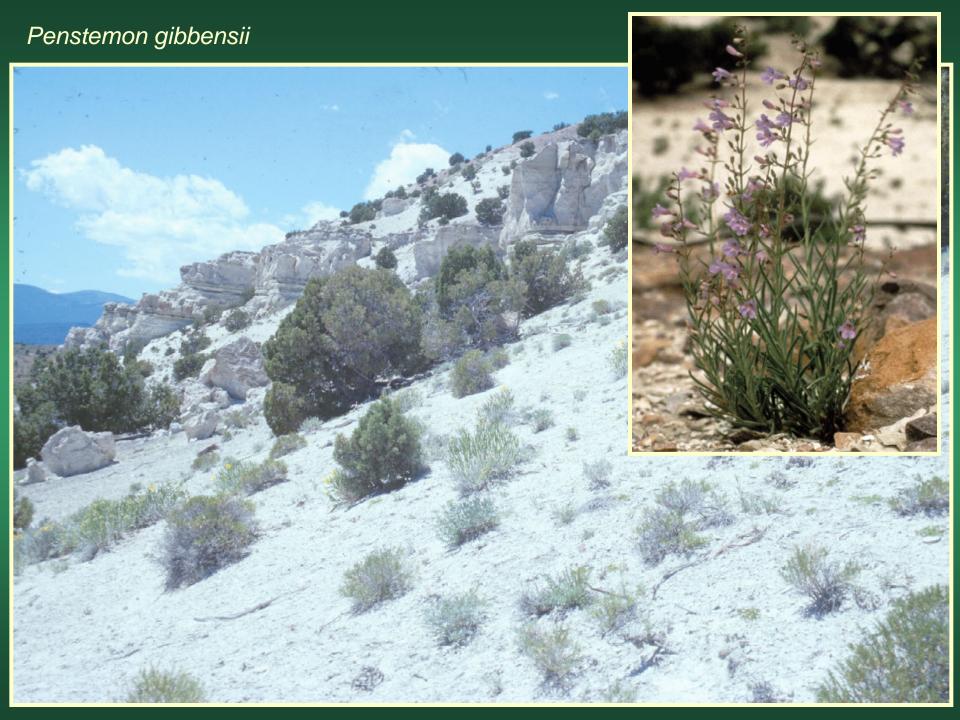




Penstemon gibbensii Gibbens' beardtongue

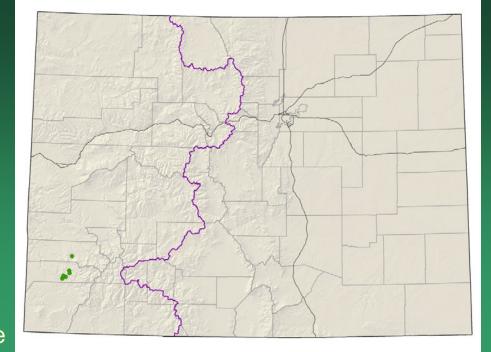


- <u>Federal status</u>: BLM sensitive
- Heritage ranks: G1G2/S1
- <u>Global distribution</u>: SC Wyoming, NE Utah, and NW Colorado (Moffat County)
- <u>Elevation range</u>: 5,400-5,730 ft.
- <u>Last observed in Colorado</u>: 2010
- Occurrences: 2 in CO; 7 total
- Individuals: 5200 in Colorado; 17,000 individuals total
- <u>Primary threats in CO</u>: noxious weeds, grazing, recreational activities, and uranium mining
- Land ownership in CO: BLM, federal



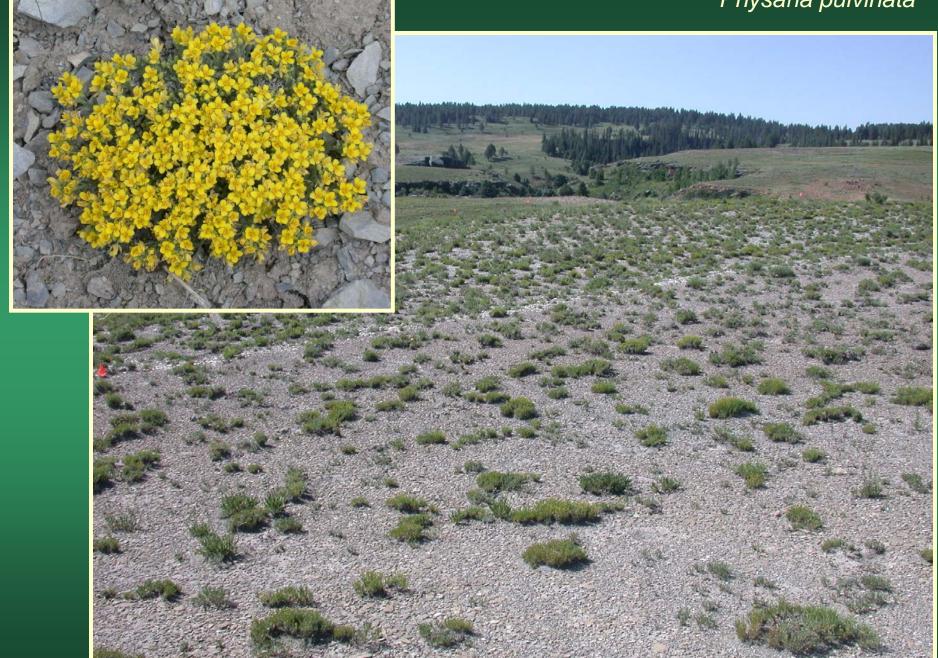
Physaria pulvinata Cushion bladderpod

Conservation Action Plan

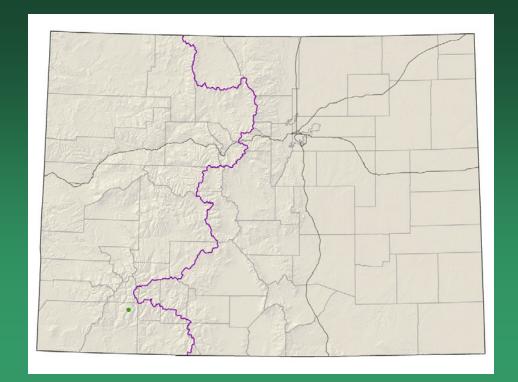


- <u>Federal status</u>: BLM & USFS sensitive
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic, San Miguel and Dolores counties
- <u>Elevation range</u>: 7,540-8,490 ft.
- <u>Last observed</u>: 2013
- Occurrences: 6
- <u>Individuals</u>: 22,000
- <u>Primary threats</u>: recreation, livestock trampling, weed control, habitat modification for sage grouse management, roads
- Land ownership/management: BLM, state, private, USFS

Physaria pulvinata

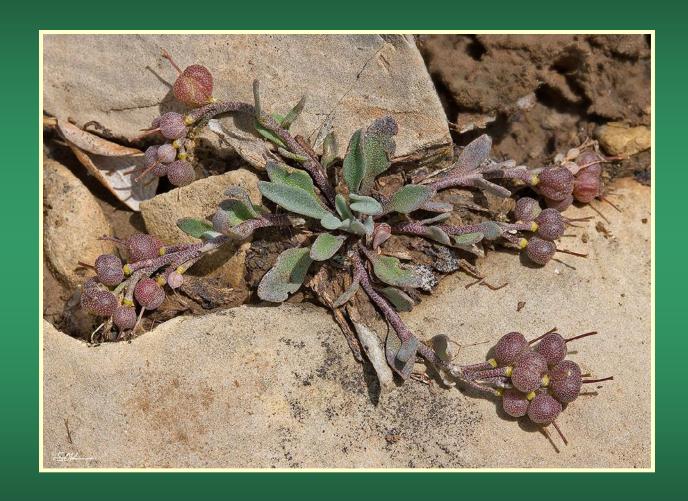


Physaria scrotiformis West Silver bladderpod



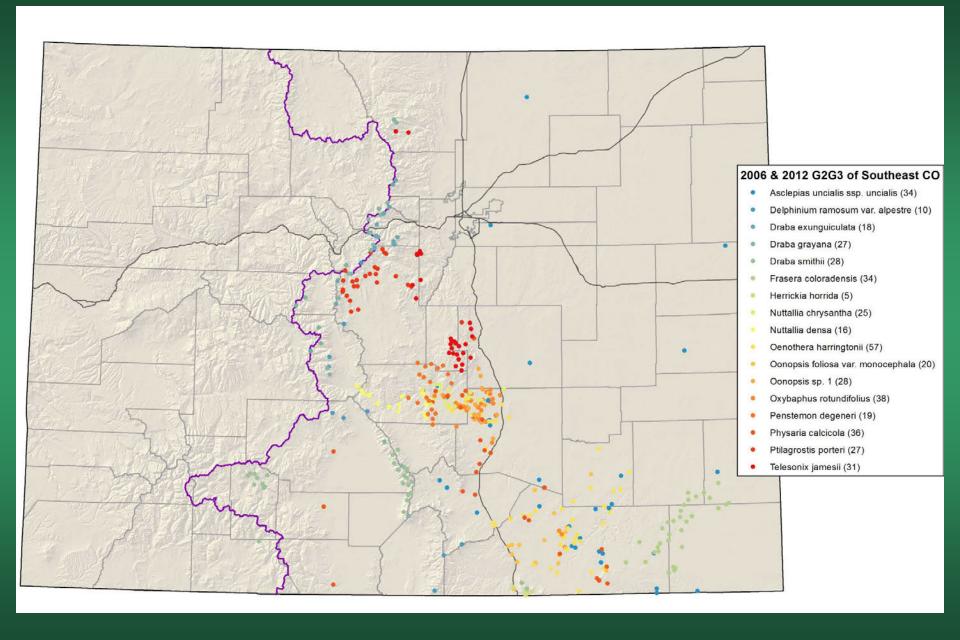
- Federal status: USFS sensitive
- Heritage ranks: G1/S1
- Global distribution: Colorado endemic, La Plata County
- <u>Elevation range</u>: 11,555-11,830 ft.
- Last observed in Colorado: 2006
- Colorado occurrences: 1
- Colorado individuals: unknown
- Primary threats: unknown
- Land ownership/management: USFS

Physaria scrotiformis

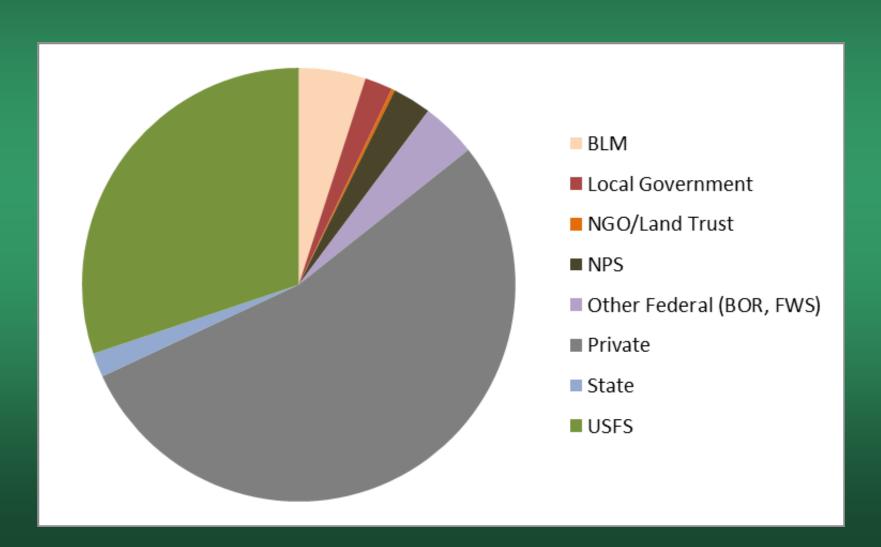


2006/2012

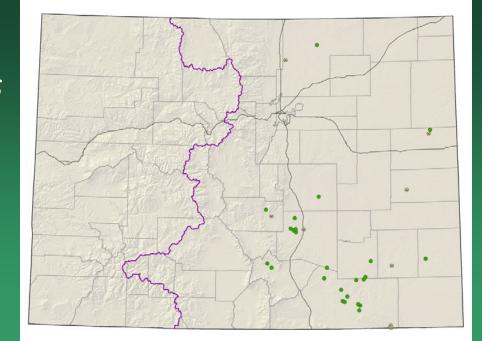
SE Colorado G2G3 species



Land Ownership of G2G3 Plant Species of SE Colorado



Asclepias uncialis ssp. uncialis Dwarf milkweed

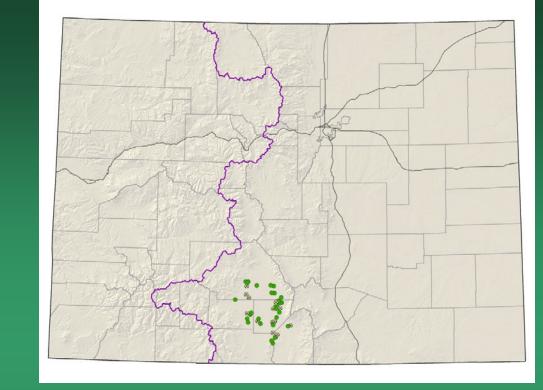


- <u>Federal status</u>: BLM/USFS sensitive
- Heritage ranks: G3G4T2T3/S2
- Global distribution: Arizona, Texas, New Mexico, Wyoming, Oklahoma, Utah, and Eastern Colorado (Las Animas, Weld, Kit Carson, Huerfano, Pueblo, Otero, Prowers, Fremont, and El Paso counties)
- <u>Elevation range</u>: 3,880-7,730 ft.
- <u>Last observed in Colorado</u>: 2013
- <u>Colorado occurrences</u>: 38 (11 are historical or extirpated)
- Colorado individuals: ~500
- <u>Primary threats</u>: Population limitation by unknown biological requirements, altered disturbance regime, habitat loss, spread of exotic species, global climate change
- <u>Land ownership/management</u>: BLM, local government, NGO/land trust, federal, state, private, USFS



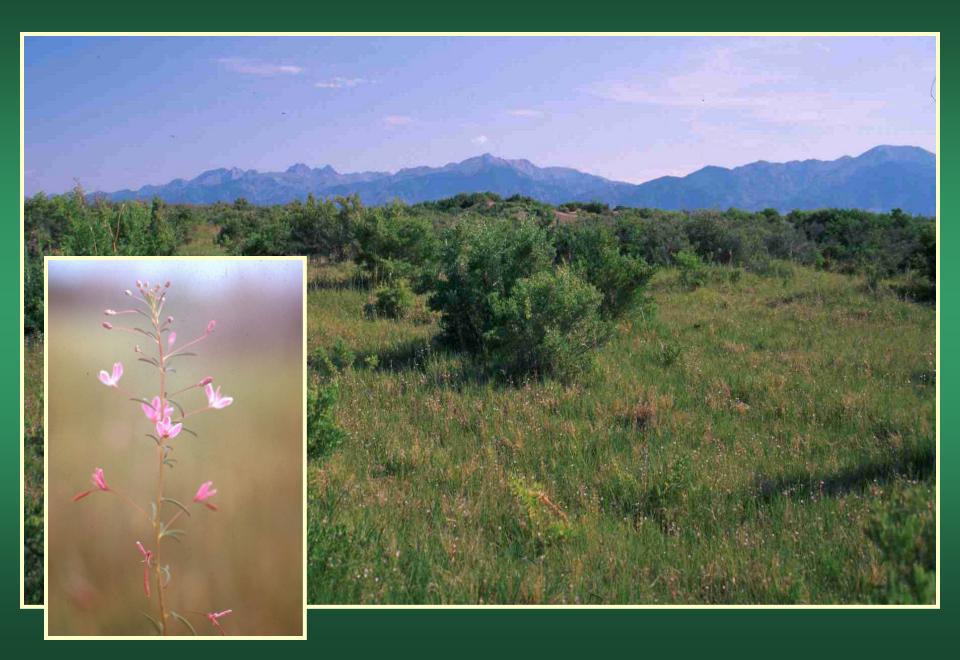
Asclepias uncialis ssp. uncialis

Cleome multicaulis= Peritoma multicaulis Many-stemmed spiderflower

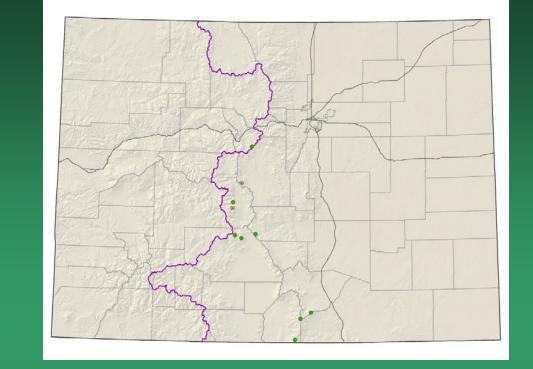


- <u>Federal status</u>: BLM sensitive
- Heritage ranks: G2G3/S2S3
- Global distribution: Mexico, Texas, Arizona, New Mexico, Wyoming and Colorado (Alamosa, Conejos, Costilla, Rio Grande, and Saguache counties)
- <u>Elevation range</u>: 7,480-8,190 ft.
- <u>Last observed in Colorado</u>: 2009
- <u>Colorado occurrences</u>: 40 (12 are historical)
- Colorado individuals: ~5,132,000
- <u>Primary threats</u>: draining of wetlands
- Land ownership/management: BLM, federal, NGO/land trust, NPS, state, private

Cleome multicaulis



Delphinium ramosum var. alpestre = Delphinium alpestre Colorado larkspur

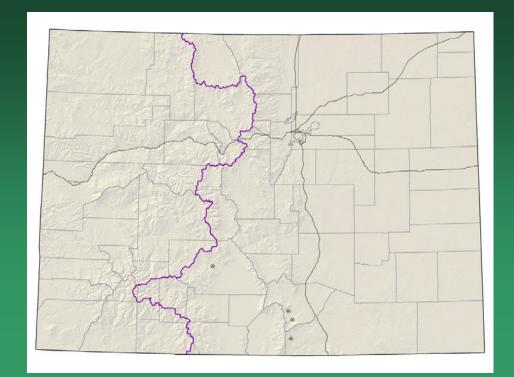


- <u>Federal status</u>: none
- Heritage ranks: G4T2/S2
- <u>Global distribution</u>: New Mexico and Colorado (Costilla, Chaffee, Fremont, Huerfano, Las Animas, Mineral, Park, Saguache, and Summit counties)
- <u>Elevation range</u>: 10,850-14,255 ft.
- Last observed in Colorado: 2008
- <u>Colorado occurrences</u>: 11 (3 are historical)
- Colorado individuals: 100+
- <u>Primary threats</u>: Trampling from recreational activities
- Land ownership/management: private, USFS

Delphinium ramosum var. alpestre



*Delphinium robustum*Wahatoya Creek larkspur

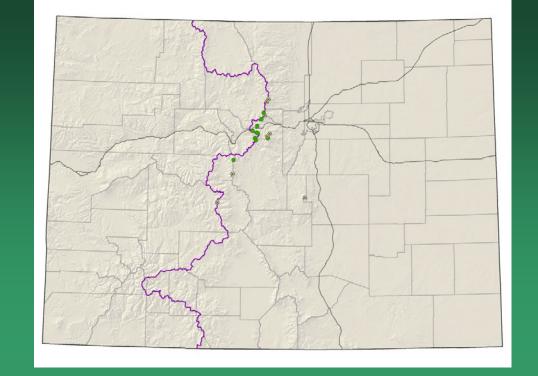


- <u>Federal status</u>: none
- Heritage ranks: G2?/S2?
- Global distribution: New Mexico and Colorado (Huerfano, El Paso, Las Animas, and Saguache counties)
- <u>Elevation range</u>: 7,000-8,500 ft.
- <u>Last observed in Colorado</u>: 1969
- Colorado occurrences: 4 all historical
- <u>Colorado individuals</u>: unknown
- <u>Primary threats</u>: Some species of *Delphinium* are poisonous to cattle, so the genus as a whole is sometimes targeted for poisonous weed control
- <u>Land ownership/management</u>: BLM, private

Delphinium robustum



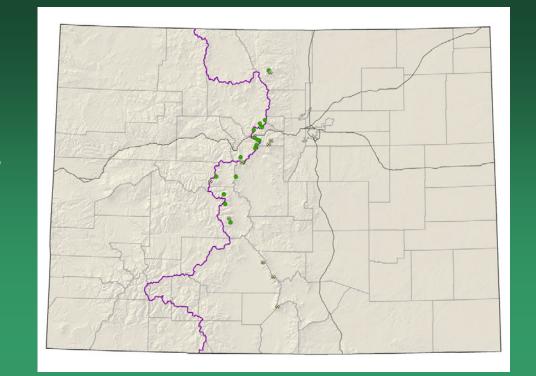
Draba exunguiculata Clawless draba



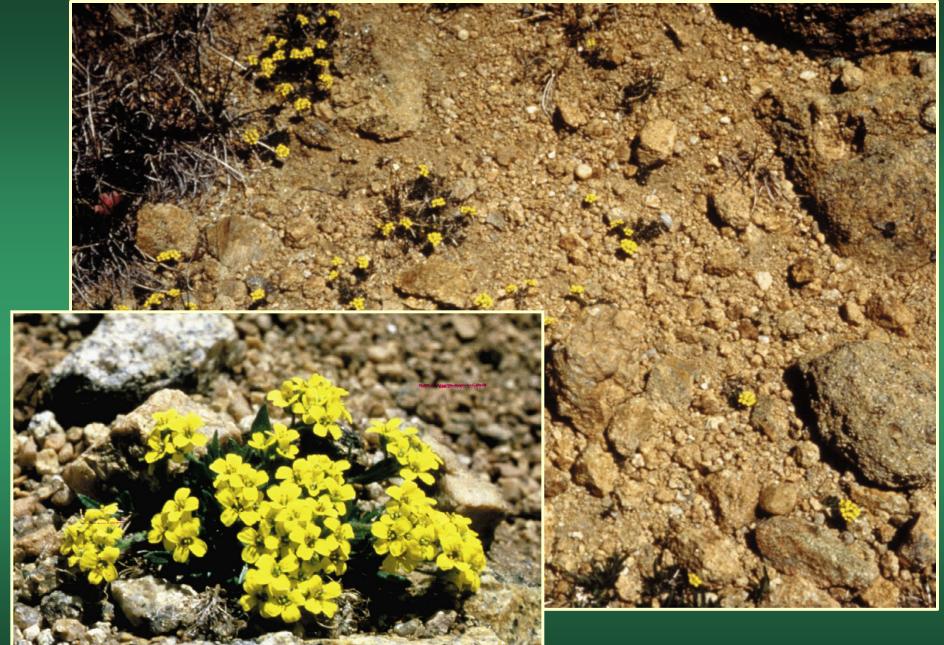
- Federal status: USFS sensitive
- Heritage ranks: G2/S2
- Global distribution: endemic to Colorado (Boulder, Chaffee, Clear Creek, El Paso, Gilpin, Grand, Lake, Park and Summit counties)
- <u>Elevation range</u>: 10,780-14,120 ft.
- <u>Last observed in Colorado</u>: 2012
- <u>Colorado occurrences</u>: 18 (8 are historical)
- Colorado individuals: ~250
- <u>Primary threats</u>: Trampling from hikers and mountain goats, over-collection for gardens, acid rain, air pollution, and global warming
- <u>Land ownership/management</u>: local government, state, private, USFS



Draba grayana Gray's Peak whitlow-grass

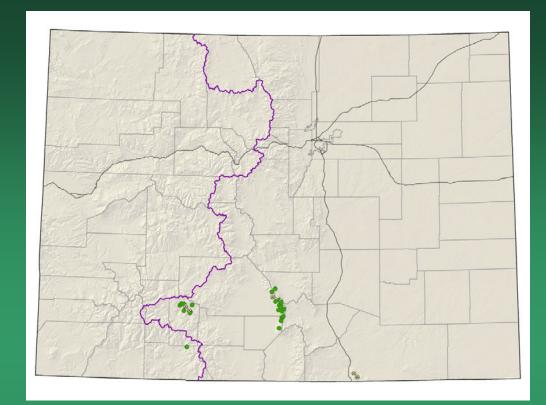


- Federal status: USFS sensitive
- Heritage ranks: G2/S2
- Global distribution: endemic to Colorado (Chaffee, Clear Creek, Grand, Huerfano, Larimer, Park, Pitkin, Saguache, and Summit counties)
- <u>Elevation range</u>: 10,630-14,350 ft.
- Last observed in Colorado: 2014
- <u>Colorado occurrences</u>: 27 (10 are historical)
- Colorado individuals: ~200
- <u>Primary threats</u>: Trampling from hikers and mountain goats, over-collection for gardens and global warming
- <u>Land ownership/management</u>: NPS, private, USFS



Draba grayana

Draba smithii Smith's whitlow-grass



- Federal status: USFS sensitive
- Heritage ranks: G2/S2
- Global distribution: Colorado (Alamosa, Archuleta, Custer, Las Animas, Mineral, and Saguache counties), and NM
- <u>Elevation range</u>: 7,400-13,450 ft.
- <u>Last observed in Colorado</u>: 2009
- <u>Colorado occurrences</u>: 28 (6 are historical)
- Colorado individuals: ~3200
- Primary threats: Habitat modification from hiking and construction
- Land ownership/management: local government, NPS, private, USFS

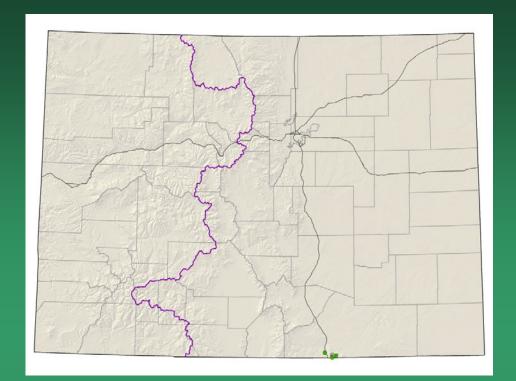
Draba smithii

Herrickia horrida

= Eurybia horrida

Canadian River spiny aster or

Horrid herrickia



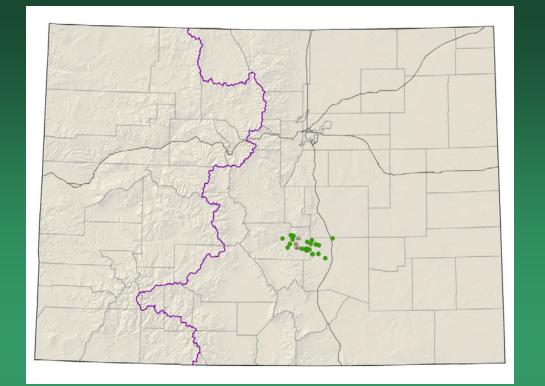
- <u>Federal status</u>: none
- Heritage ranks: G2?/S1
- Global distribution: New Mexico and Colorado (Las Animas County)
- <u>Elevation range</u>: 7,870-9,320 ft.
- <u>Last observed in Colorado</u>: 2010
- <u>Colorado occurrences</u>: 5 (2 historical)
- Colorado individuals: 500+
- <u>Primary threats</u>: unknown
- <u>Land ownership/management</u>: local government, private



Nuttallia chrysantha = Mentzelia chrysantha Golden blazing star

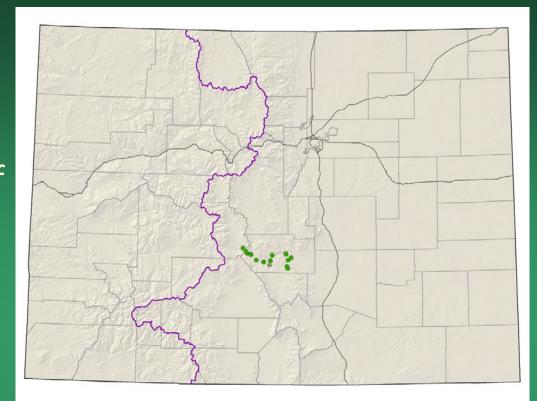
Conservation Action Plan

- Federal status: BLM sensitive
- Heritage ranks: G2/S2
- Global distribution: endemic to Colorado (Fremont, El Paso, and Pueblo counties)
- <u>Elevation range</u>: 4,750-6,850 ft.
- <u>Last observed in Colorado</u>: 2010
- <u>Colorado occurrences</u>: 26 (5 are historical)
- Colorado individuals: ~4100
- <u>Primary threats</u>: Grazing, quarry activities, and subdivision and road construction
- Land ownership/management: BLM, federal, state, private





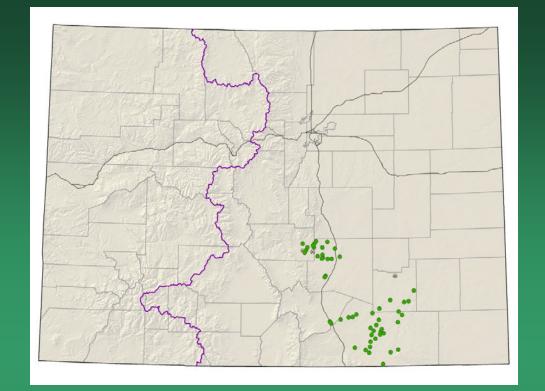
Nuttallia densa = Mentzelia densa Arkansas Canyon stickleaf



- Federal status: BLM sensitive
- Heritage ranks: G2/S2
- Global distribution: endemic to Colorado (Fremont County)
- <u>Elevation range</u>: 4,750-6,850 ft.
- <u>Last observed in Colorado</u>: 2009
- <u>Colorado occurrences</u>: 16 (2 are historical)
- Colorado individuals: ~13,500
- Primary threats: Recreational development and road construction
- Land ownership/management: BLM, state, private



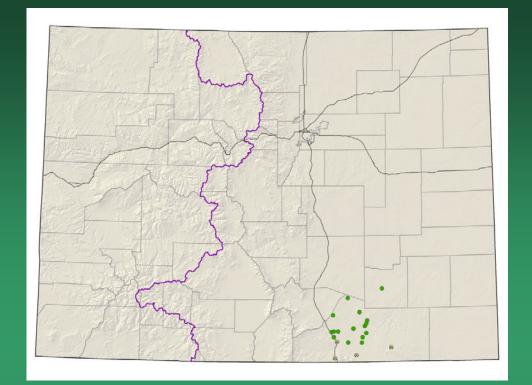
Oenothera harringtonii Arkansas Valley evening primrose



- <u>Federal status</u>: none
- Heritage ranks: G3/S3
- <u>Global distribution</u>: endemic to Colorado (El Paso, Fremont, Huerfano, Las Animas, Otero, and Pueblo counties)
- <u>Elevation range</u>: 4,130-6,450 ft.
- <u>Last observed in Colorado</u>: 2010
- Colorado occurrences: 62 (8 are historical)
- Colorado individuals: 12,000+
- <u>Primary threats</u>: Habitat loss due to urbanization, road development projects, and resource extraction activities, especially quarrying and surface mining
- Land ownership/management: BLM, local government, federal, state, private, USFS



Oonopsis foliosa var. monocephala Rayless goldenweed



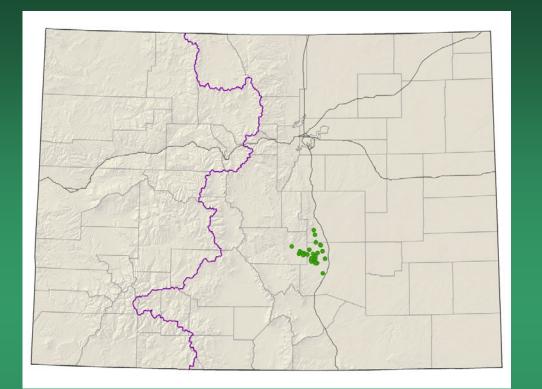
- <u>Federal status</u>: none
- Heritage ranks: G3G4T2/S2
- <u>Global distribution</u>: endemic to Colorado (Las Animas, Pueblo, and Fremont counties)
- <u>Elevation range</u>: 4,330-7,880 ft.
- Last observed in Colorado: 2009
- Colorado occurrences: 16 (4 are historical)
- Colorado individuals: 400,000+
- <u>Primary threats</u>: Maintenance on current roads or further developments may disturb or destroy individuals
- <u>Land ownership/management</u>: federal, state, private, USFS



Oonopsis "puebloensis" = Oonopsis sp. 1 Pueblo goldenweed

Conservation Action Plan

- <u>Federal status</u>: none
- Heritage ranks: G2/S2
- Global distribution: endemic to Colorado (El Paso, Fremont and Pueblo counties)
- <u>Elevation range</u>: 4,850-6,120 ft.
- <u>Last observed in Colorado</u>: 2009
- <u>Colorado occurrences</u>: 28
- Colorado individuals: ~11,000 or more
- <u>Primary threats</u>: Shale extraction by cement plants
- <u>Land ownership/management</u>: state, private

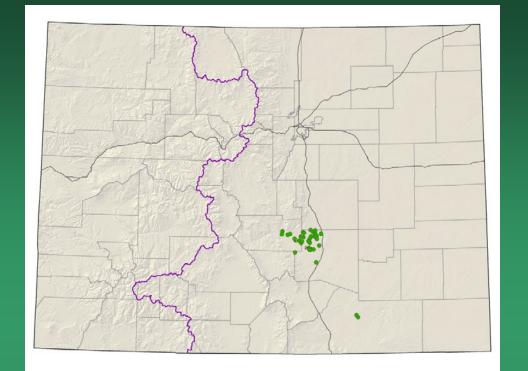




Oxybaphus rotundifolius = Mirabilis rotundifolia Round-leaf four-o'clock

Conservation Action Plan

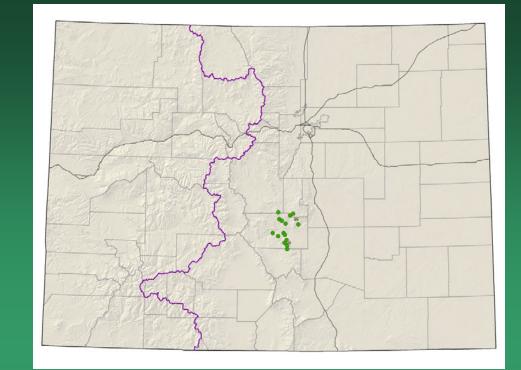
- <u>Federal status</u>: none
- Heritage ranks: G2/S2
- Global distribution: endemic to Colorado (Fremont, Las Animas, El Paso and Pueblo counties)
- <u>Elevation range</u>: 4,900-5,900 ft.
- <u>Last observed in Colorado</u>: 2009
- <u>Colorado occurrences</u>: 38 (2 are historical)
- <u>Colorado individuals</u>: ~6200
- <u>Primary threats</u>: Highly threatened by residential and recreational development
- Land ownership/management: BLM, federal, state, private





Oxybaphus rotundifolius

Penstemon degeneri Degener beardtongue



- Federal status: USFS & BLM sensitive
- Heritage ranks: G2/S2
- Global distribution: endemic to Colorado (Chaffee, Custer and Fremont counties)
- <u>Elevation range</u>: 6,000-9,450 ft.
- Last observed in Colorado: 2013
- <u>Colorado occurrences</u>: 19 (2 historical)
- Colorado individuals: ~1500
- <u>Primary threats</u>: Motorized and non-motorized recreation, non-native plant invasion, grazing and trampling, extensive herbivory, succession, and global environmental changes
- Land ownership/management: BLM, private, state, USFS

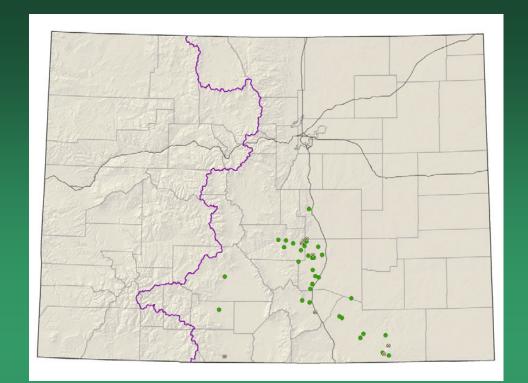






Penstemon degeneri

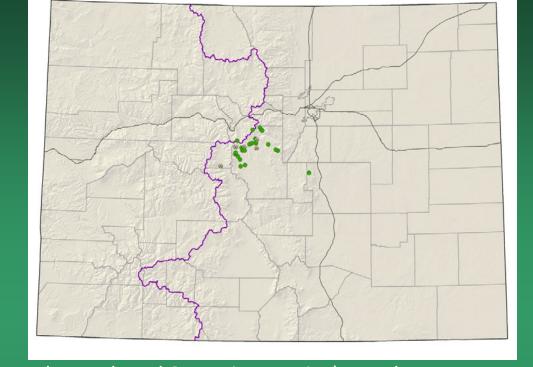
Physaria calcicola = Lesquerella calcicola Rocky Mountain bladderpod



- <u>Federal status</u>: none
- Heritage ranks: G3/S3
- <u>Global distribution</u>: New Mexico and Colorado (Conejos, El Paso, Fremont, Huerfano, Las Animas, and Pueblo counties)
- <u>Elevation range</u>: 4,780-9,800 ft.
- <u>Last observed in Colorado</u>: 2013
- <u>Colorado occurrences</u>: **39** (8 are historical)
- Colorado individuals: 24,000
- <u>Primary threats</u>: This species occurs in areas that are experiencing rapid development pressures
- <u>Land ownership/management</u>: BLM, local government, federal, state, private



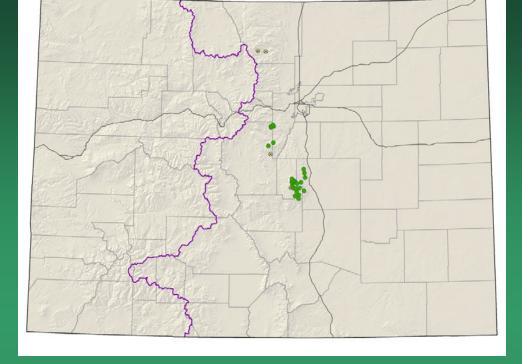
Ptilagrostis porteri Porter feathergrass



- <u>Federal status</u>: USFS sensitive
- Heritage ranks: G2/S2
- <u>Global distribution</u>: Colorado (El Paso, Lake, Park and Summit counties); northern NM
- <u>Elevation range</u>: 9,070-12,470 ft.
- Last observed in Colorado: 2011
- <u>Colorado occurrences</u>: 28 (5 are historical)
- Colorado individuals: ~408,000
- <u>Primary threats</u>: Alterations to the water table resulting from increased diversion and pumping for the metropolitan front range
- <u>Land ownership/management</u>: NGO/land trust, private, USFS



Telesonix jamesii James' telesonix



- <u>Federal status</u>: none
- Heritage ranks: G2/S2
- <u>Global distribution</u>: New Mexico and Colorado (El Paso, Jefferson, Larimer, Park, and Teller counties); 6700-13,700 ft.
- Elevation range: 6,745-13,730 ft.
- <u>Last observed in Colorado</u>: 2012
- <u>Colorado occurrences</u>: 32 (5 are historical)
- Colorado individuals: ~20,000
- <u>Primary threats</u>: Motorized and non-motorized recreation, trail or road construction and maintenance, invasive species introduction, and horticultural collection
- Land ownership/management: BLM, NGO/land trust, NPS, state, private, USFS

