2017
Colorado Rare Plant Symposium
BLM Sensitive Species of Colorado
Aletes lithophilus
(= Neoparrya lithophila)
Rock-loving neoparrya

Reviewed under USFS Sensitive Species
Amsonia jonesii
Jones’ bluestar

- **Federal status**: BLM sensitive
- **Heritage ranks**: G4/S2
- **Global distribution**: Utah, New Mexico, Arizona, and Colorado (Mesa and Montezuma)
- **Elevation range**: 4,400-5,800 ft.
- **Colorado occurrences**: 10 (6 historical)
- **Primary threats**: Weed invasion and off-road vehicle use
Amsonia jonesii
Aquilegia chrysantha var. rydbergii
Golden columbine

Reviewed under USFS Sensitive Species
Asclepias uncialis ssp. uncialis
Dwarf milkweed

Reviewed under SE & Central Colorado
G2G3 Species
**Astragalus anisus**
Gunnison milkvetch

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2G3/S2S3
- **Global distribution**: endemic to Colorado (Gunnison & Saguache counties)
- **Elevation range**: 7,520-9,740 ft.
- **Last observed in Colorado**: 2016
- **Colorado occurrences**: 41 (5 are historical)
- **Colorado individuals**: 5000-10,000?
- **Primary threats**: road building, off-road vehicle use, non-motorized recreation, non-native species invasion, grazing, residential development, fire suppression, resource extraction, and global climate change.
- **Land ownership/management**: BLM, NPS, federal, state, private, USFS
Astragalus anisus
Astragalus debequaeus
Debeque milkvetch

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2/S2
- **Global distribution**: Colorado endemic (Delta, Garfield and Mesa counties)
- **Elevation range**: 4,950-6,680 ft.
- **Last observed in Colorado**: 2016
- **Colorado occurrences**: 25
- **Colorado individuals**: >62,000
- **Primary threats**: Disturbance by oil and gas development
- **Land ownership/management**: BLM, private
Astragalus debequaeus
Astragalus detritalis  
Debris milkvetch

- **Federal status**: BLM sensitive
- **Heritage ranks**: G3/S2
- **Global distribution**: Utah and Colorado (Rio Blanco and Moffat counties)
- **Elevation range**: 5,380 – 7,200 ft.
- **Colorado occurrences**: 15
- **Primary threats**: overgrazing, exotic species, gravel pit development, and road disturbance
Astragalus detritalis
Astragalus duchesnensis
Duchesne milkvetch

- **Federal status**: BLM sensitive
- **Heritage ranks**: G3/S1S2
- **Global distribution**: Utah and Colorado (Rio Blanco and Moffat counties)
- **Elevation range**: 4,600 – 6,400 ft.
- **Colorado occurrences**: 6
- **Primary threats**: unknown
Astragalus duchesnensis
Astragalus equisolensis
(= A. desperatus var. neeseae)
horseshoe milkvetch

Conservation Action Plan

- **Federal status**: BLM sensitive
- **Heritage ranks**: G5T1/S1
- **Global distribution**: Utah and Colorado (Mesa County)
- **Elevation range**: 4,500-6,030 ft.
- **Last observed in Colorado**: 2016
- **Colorado occurrences**: 8 (2 are historical)
- **Colorado individuals**: 2670
- **Primary threats**: unknown
- **Land ownership/management**: BLM, private
Astragalus equisolensis
Astragalus microcymbus
Skiff milkvetch

Reviewed under Colorado T, E & C Plant Species
Astragalus musiniensis
Ferron’s milkvetch

- **Federal status**: BLM sensitive
- **Heritage ranks**: G3/S1
- **Global distribution**: Utah and Colorado (Mesa and Garfield counties)
- **Elevation range**: 4,560 – 5,560 ft.
- **Occurrences**: 4 (2 historical)
- **Primary threats**: unknown
Astragalus musiniensis
Astragalus naturitensis
Naturita milkvetch

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2G3/S2S3
- **Global distribution**: New Mexico, Utah, the Navajo Nation and Colorado (Garfield, Mesa, Montezuma, Montrose and San Miguel counties)
- **Elevation range**: 4,830-7,030 ft.
- **Last observed in Colorado**: 2016
- **Colorado occurrences**: 45 (11 are historical)
- **Colorado individuals**: 650 in 2011, + prev. ~ 6500 estimate
- **Primary threats**: Recreation, Oil and Gas development, Uranium claims
- **Land ownership/management**: BLM, private, tribe, USFS
Astragalus naturitensis
**Astragalus piscator**
Fisher Towers milkvetch

- Federal status: BLM sensitive
- Heritage ranks: G2G3/S1
- Global distribution: Utah and Colorado (Mesa County)
- Elevation range: 4,500-5,580 ft.
- Last observed in Colorado: 2016
- Colorado occurrences: 4
- Colorado individuals: 3000-5000
- Primary threats: recreation, roads
- Land ownership/management: BLM, private
Astragalus piscator
Astragalus rafaelensis
San Rafael milkvetch
(Astragalus linifolius)

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2G3/S2S3
- **Global distribution**: Utah and Colorado (Delta, Montrose and Mesa counties)
- **Elevation range**: 4,720-6,800 ft.
- **Last observed in Colorado**: 2014
- **Colorado occurrences**: 30
- **Colorado individuals**: >1000
- **Primary threats**: grazing, invasive weeds, motorized recreation, and insect larvae infestation
- **Land ownership/management**: BLM, private
Distribution of *Astragalus rafaelensis* vs *A. linifolius*
Astragalus rafaelensis
Astragalus linifolius
Astragalus ripleyi
Ripley milkvetch

Reviewed under USFS Sensitive Species
**Astragalus sesquiflorus**
Sandstone milkvetch

- **Federal status**: BLM sensitive
- **Heritage ranks**: G3G4/S1
- **Global distribution**: Arizona, Utah and Colorado (Montrose county)
- **Elevation range**: 5,000 – 5,500 ft.
- **Colorado occurrences**: 6 (3 are historical)
- **Primary threats**: grazing
Astragalus sesquiflorus
Boechera crandallii = Arabis crandallii
Crandall’s rockcress

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2/S2
- **Global distribution**: Wyoming and Colorado (Gunnison, Chaffee, and Lake counties)
- **Elevation range**: 8,175-10,600 ft.
- **Last observed in Colorado**: 2015
- **Colorado occurrences**: 17
- **Colorado individuals**: 
- **Primary threats**: habitat loss/degradation, road construction
- **Land ownership/management**: BLM, state, private, USFS
Boechera crandallii
Bolophyta ligulata
(=Parthenium ligulatum)
Ligulate feverfew

- **Federal status**: BLM sensitive
- **Heritage ranks**: G3/S2
- **Global distribution**: Utah and Colorado (Rio Blanco and Moffat counties)
- **Elevation range**: 5,400 – 6,500 ft.
- **Colorado occurrences**: 10 (7 are historical)
- **Primary threats**: grazing, off-road vehicle use, and trampling
Bolophyta ligulata
Camissonia eastwoodiae
Eastwood evening primrose

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2/S1
- **Global distribution**: Utah and Colorado (Delta and Mesa counties)
- **Elevation range**: 4,560-6,050 ft.
- **Last observed in Colorado**: 2016
- **Colorado occurrences**: 7 (1 is historical)
- **Colorado individuals**: several thousand
- **Primary threats**: unknown
- **Land ownership/management**: BLM, private
Camissonia eastwoodiae
Cleome multicaulis
(=Peritoma multicaulis)
Many-stemmed spider-flower

Reviewed under SE & Central Colorado
G2G3 Species
Corispermum navicula
Crescent bugseed

Reviewed under Colorado T, E & C Plant Species
Cryptogramma stelleri
Slender rock-brake

- **Federal status**: BLM sensitive
- **Heritage ranks**: G5/S2
- **Global distribution**: Europe, Asia, Alaska, Canada, Oregon, Montana, Iowa, Michigan, West Virginia, Wyoming, New Mexico, and Colorado (San Juan, Archuleta, Grand, Gunnison, Conejos, San Miguel, Summit, Garfield, and Ouray counties)
- **Elevation range**: 7,820 – 13,450 ft.
- **Occurrences**: 18 (7 are historical)
- **Primary threats**: changes in hydrology
Cryptogramma stelleri
*Cymopterus duchesnensis*
Uinta Basin spring-parsley

- **Federal status**: BLM sensitive
- **Heritage ranks**: G3/S1
- **Global distribution**: Utah and Colorado (Moffat and Rio Blanco counties)
- **Elevation range**: 4,700 – 6,800 ft.
- **Colorado occurrences**: 4 (all are historical)
- **Primary threats**: grazing, oil and gas development, roads, and ATV activity
Cymopterus duchesnensis
Erigeron kachinensis
kachina daisy

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2/S1
- **Global distribution**: Utah and Colorado (Montrose county)
- **Elevation range**: 4,700-6,650 ft.
- **Last observed in Colorado**: 2010
- **Colorado occurrences**: 3
- **Colorado individuals**: est. 7,600
- **Primary threats**: mining, energy development, or water projects could affect water supplies to habitat
- **Land ownership/management**: BLM
Erigeron kachinensis
*Eriogonum acaule*
Single-stemmed wild buckwheat

- **Federal status**: BLM sensitive
- **Heritage ranks**: G3/S1
- **Global distribution**: Wyoming and Colorado (Moffat County)
- **Elevation range**: 5,680 – 6,850 ft.
- **Colorado occurrences**: 2 (historical)
- **Primary threats**: off-road vehicles and road development
Eriogonum acaule
**Eriogonum brandegeei**  
Brandegee’s buckwheat

Reviewed under Colorado T, E & C Plant Species
Eriogonum clavellatum
Comb Wash buckwheat

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2/S1
- **Global distribution**: Utah and Colorado (Montezuma County)
- **Elevation range**: 4,800-6,030 ft.
- **Last observed in Colorado**: 1990
- **Colorado occurrences**: 8 (all are historical)
- **Colorado individuals**: unknown
- **Primary threats**: road construction, exploration for oil and gas, and a proposed system of irrigation canals on the Reservation
- **Land ownership/management**: Tribal
Eriogonum clavellatum
**Eriogonum coloradense**
Colorado wild buckwheat

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2/S2
- **Global distribution**: Colorado endemic (Gunnison, Park, Pitkin, and Saguache counties)
- **Elevation range**: 8,700-14,260 ft.
- **Last observed in Colorado**: 2017
- **Colorado occurrences**: 22 (13 are historical)
- **Colorado individuals**: ~5000
- **Primary threats**: recreation
- **Land ownership/management**: BLM, local government, state, private, USFS
Eriogonum coloradense
**Eriogonum contortum**
Grand buckwheat

- **Federal status**: BLM sensitive
- **Heritage ranks**: G3/S1
- **Global distribution**: Utah and Colorado (Mesa and Garfield counties)
- **Elevation range**: 4,560 – 5,550 ft.
- **Colorado occurrences**: 15 (9 are historical)
- **Colorado individuals**: estimate 132,600
- **Primary threats**: motorized recreation, grazing, road construction, and invasive weeds
Eriogonum contortum
**Eriogonum ephedroides**
Ephedra buckwheat

- **Federal status**: BLM sensitive
- **Heritage ranks**: G3/S1
- **Global distribution**: Utah and Colorado (Rio Blanco and Moffat counties)
- **Elevation range**: 5,300 – 6,100 ft.
- **Colorado occurrences**: 4 (1 is historical)
- **Primary threats**: off-road vehicle use, recreation, oil development and road construction
Eriogonum ephedroides
**Eriogonum tumulosum**
Woodside buckwheat

- **Federal status:** BLM sensitive
- **Heritage ranks:** G3Q/S2
- **Global distribution:** Utah and Colorado (Moffat County)
- **Elevation range:** 5,800 – 6,300 ft.
- **Colorado occurrences:** 12 (9 are historical)
- **Primary threats:** grazing and invasion of cheat grass
Eriogonum tumulosum
**Eriogonum viridulum**
Clay hill buckwheat

- **Federal status**: BLM sensitive
- **Heritage ranks**: G4Q/SH
- **Global distribution**: Utah, Arizona and Colorado (Moffat County)
- **Elevation range**: 5,570 – 6,000 ft.
- **Colorado occurrences**: 1 (historical)
- **Primary threats**: unknown
**Frasera paniculata**
Tufted green gentian

- **Federal status**: BLM sensitive
- **Heritage ranks**: G4/S1
- **Global distribution**: Arizona, Nevada, Utah, New Mexico, and Colorado (Mesa County)
- **Elevation range**: 4,470 – 4,870 ft.
- **Colorado occurrences**: 1 (historical)
- **Primary threats**: unknown
Frasera paniculata
Gentianella tortuosa
Cathedral Bluff dwarf gentian

- **Federal status**: BLM sensitive
- **Heritage ranks**: G3?/S1
- **Global distribution**: Utah, Nevada, and Colorado (Rio Blanco County)
- **Elevation range**: 7,785 – 8,600 ft.
- **Colorado occurrences**: 3 (1 historical)
- **Primary threats**: oil and gas development, road maintenance
Gentianella tortuosa
**Gilia stenothyrsa**  
Uinta Basin gilia

- **Federal status**: BLM sensitive
- **Heritage ranks**: G3/S1
- **Global distribution**: Utah and Colorado (Mesa and Rio Blanco counties)
- **Elevation range**: 4,800 – 6,400 ft.
- **Colorado occurrences**: 6 (1 is historical)
- **Primary threats**: oil and gas development, sheep grazing
Gilia stenothyrsa
*Gutierrezia elegans*
Lone Mesa
snakeweed

Reviewed under Colorado G1 Species
**Lomatium concinnum**
Colorado desert-parsley

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2G3/S2S3
- **Global distribution**: Colorado endemic (Delta, Montrose, and Ouray counties)
- **Elevation range**: 5,160-8,800 ft.
- **Last observed in Colorado**: 2016
- **Colorado occurrences**: 41 (13 are historical)
- **Colorado individuals**: >70,000
- **Primary threats**: Motorized recreation
- **Land ownership/management**: BLM, state, private, USFS
Lomatium concinnum
Lupinus crassus
Payson lupine

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2/S2
- **Global distribution**: Colorado endemic (Montrose county)
- **Elevation range**: 5,070-6,260 ft.
- **Last observed in Colorado**: 2016
- **Colorado occurrences**: 18 (12 are historical)
- **Colorado individuals**: >100,000
- **Primary threats**: Incompatible grazing
- **Land ownership/management**: BLM, private
Lupinus crassus
Lygodesmia doloresensis
Dolores River
skeletonplant

Reviewed under Colorado G1 Species
Mimulus eastwoodiae
Eastwood monkey-flower

- Federal status: BLM sensitive
- Heritage ranks: G3G4/S1S2
- Global distribution: Arizona, New Mexico and Colorado (Delta, Mesa, Montrose, Montezuma, and San Miguel counties)
- Elevation range: 4,650 – 6,400 ft.
- Colorado occurrences: 11 (3 historical)
- Primary threats: hydrological alteration
Mimulus eastwoodiae
Nuttallia chrysantha = Mentzelia chrysantha
Golden blazing star

Reviewed under SE & Central Colorado
G2G3 Species
Nuttallia densa
= Mentzelia densa
Arkansas Canyon
stickleaf

Reviewed under SE & Central Colorado
G2G3 Species
**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**: 2017
- **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
Oreocarya caespitosa
(=Cryptantha caespitosa)
Caespitose cat’s-eye

- **Federal status**: BLM sensitive
- **Heritage ranks**: G4/S2
- **Global distribution**: Idaho, Wyoming, Utah and Colorado (Moffat and Rio Blanco)
- **Elevation range**: 6,200 – 8,100 ft.
- **Colorado occurrences**: 12 (9 historical)
- **Primary threats**: grazing
Oreocarya caespitosa
Oreocarya osterhoutii = Cryptantha osterhoutii
Osterhout cat’s-eye

Conservation Action Plan

- **Federal status:** BLM sensitive
- **Heritage ranks:** G2G3/S2
- **Global distribution:** Utah and Colorado (Mesa County)
- **Elevation range:** 4,440-6,500 ft.
- **Last observed in Colorado:** 2011
- **Colorado occurrences:** 7 (5 are historical)
- **Colorado individuals:** ~1500?
- **Primary threats:** unknown
- **Land ownership/management:** BLM, NPS, private
Oreocarya osterhoutii
Oreocarya revealii = Cryptantha gypsophila
Gypsum Valley Cat-eye

Reviewed under Colorado G1 Species
**Oreocarya rollinsii**

(=**Cryptantha rollinsii**)

Rollins’ cat’s-eye

- **Federal status**: BLM Sensitive
- **Heritage ranks**: G3/S2
- **Global distribution**: Wyoming, Utah and Colorado (Moffat and Rio Blanco counties)
- **Elevation range**: 5,300 – 8,200 ft.
- **Occurrences**: 15 (6 historical)
- **Primary threats**: grazing, oil and gas development, roads, and ATV activity
Oreocarya rollinsii
**Oxytropis besseyi var. obnapiformis**  
Bessey's locoweed

- **Federal status**: BLM sensitive
- **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**: 2017
- **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
Packera pauciflora
Few-flowered ragwort

- **Federal status**: BLM sensitive
- **Heritage ranks**: G4G5/S1
- **Global distribution**: Alaska to Colorado (west), Upper Great Lakes to Newfoundland (east), and Colorado (Park County)
- **Elevation range**: 8,860 – 10,410 ft.
- **Colorado occurrences**: 18 (2 are historical)
- **Primary threats**: peat mining, alterations in hydrology, and residential development
Packera pauciflora
Pediomelum aromaticum
Paradox breadroot

- **Federal status**: BLM sensitive
- **Heritage ranks**: G3/S2
- **Global distribution**: Arizona, Utah and Colorado (Mesa and Montrose counties)
- **Elevation range**: 4,620 – 6,700 ft.
- **Colorado occurrences**: 12 (9 are historical)
- **Primary threats**: grazing and recreation
Pediomelum aromaticum
**Penstemon acaulis var. yampaensis**
Yampa beardtongue

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2/S2
- **Global distribution**: Utah and Colorado (Moffat)
- **Elevation range**: 5,600 – 8,300 ft.
- **Colorado occurrences**: 31 (22 historical)
- **Primary threats**: off-road vehicle use and competitive non-native plants
Penstemon acaulis var. yampaensis
Penstemon degeneri
Degener beardtongue

Reviewed under SE & Central Colorado
G2G3 Species
Penstemon gibbensii
Gibben’s beardtongue

Reviewed under Colorado G1 Species
*Penstemon grahamii*
Graham beardtongue

Reviewed under Colorado T, E & C Plant Species
*Penstemon harringtonii*
Harrington beardtongue

Reviewed under USFS Sensitive Species
Penstemon scariosus var. albifluvis
White River penstemon

Reviewed under Colorado T, E & C Plant Species
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
Physaria pruinosa
(=Lesquerella pruinosa)
Pagosa bladderpod

Reviewed under USFW Sensitive Species
Physaria pulvinata
Cushion bladderpod

Reviewed under Colorado G1 Species
Physaria vicina = Lesquerella vicina
Montrose bladderpod

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2/S2
- **Global distribution**: Colorado endemic (Garfield, Montrose and Ouray counties)
- **Elevation range**: 5,700-7,540 ft.
- **Last observed in Colorado**: 2016
- **Colorado occurrences**: 23 (2 are historical)
- **Colorado individuals**: >9,000
- **Primary threats**: Roads and recreational uses
- **Land ownership/management**: BLM, NPS, state, private
**Sisyrinchium pallidum**
Pale blue-eyed grass

- **Federal status**: BLM Sensitive
- **Heritage ranks**: G3/S2
- **Global distribution**: Wyoming and Colorado (Chaffee, El Paso, Fremont, Gilpin, Jackson, Larimer, Park, Saguache, and Teller counties).
- **Elevation range**: 6,320-9,710 ft.
- **Last observed in Colorado**: 2016
- **Colorado occurrences**: 52 (10 are historical)
- **Colorado individuals**: 11,000
- **Primary threats**: road work, residential development, grazing, peat mining, and recreational activities.
- **Land ownership/management**: BLM, local government, NGO/land trust, NPS, state, private, USFS
Sisyrinchium pallidum
Sphaeromeria capitata
Rock-tansy

- **Federal status**: BLM sensitive
- **Heritage ranks**: G3/S1
- **Global distribution**: Utah, Wyoming, Montana, and Colorado (Moffat County).
- **Elevation range**: 6,650 – 7,830 ft.
- **Colorado occurrences**: 2 (historical)
- **Primary threats**: oil and gas development
Sphaeromeria capitata
Thalictrum heliophilum
Sun-loving meadowrue

Reviewed under USFS Sensitive Species
Townsendia strigosa
Strigose Easter-daisy

- **Federal status**: BLM sensitive
- **Heritage ranks**: G4/S1
- **Global distribution**: Utah, Wyoming, and Colorado (Mesa, Moffat, Delta, and Montrose counties).
- **Elevation range**: 5,000 – 9,000 ft.
- **Colorado occurrences**: 6 (4 are historical)
- **Primary threats**: recreation uses and road maintenance
Townsendia strigosa
Trichophorum pumilum  
Little bulrush

- **Federal status**: BLM sensitive
- **Heritage ranks**: G5/S2
- **Global distribution**: Eurasia, Quebec, California, and Colorado (Park County)
- **Elevation range**: 9,300 – 11,000 ft.
- **Colorado occurrences**: 15 (6 are historical)
- **Primary threats**: peat mining, cattle grazing, and hydrologic alterations
Trichophorum pumilum
To contribute data or photos contact:

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