2008

SW Colorado
G2G3 species
**Astragalus anisus**
Gunnison milkvetch

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2G3/S2S3
- **Global distribution**: endemic to Colorado (Gunnison & Saguache counties)
- **Last observed in Colorado**: 2010
- **Colorado occurrences**: 40 (3 are historical, 1 extirpated)
- **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, USFS, NPS, state, private
Astragalus anisus
**Astragalus cronquistii**  
Cronquist’s milkvetch

- **Federal status**: none
- **Heritage ranks**: G2/S2
- **Global distribution**: Utah and Colorado (Montezuma County)
- **Last observed in Colorado**: 1993
- **Colorado occurrences**: 13 (8 are historical)
- **Colorado individuals**: ~1500
- **Primary threats**: roads, unknown
- **Land ownership/management**: Tribal (Ute Mountain Ute)
Astragalus cronquistii
**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)
- **Last observed in Colorado**: 2012
- **Colorado occurrences**: 8 (2 are historical)
- **Colorado individuals**: 2670
- **Primary threats**: unknown
- **Land ownership/management**: BLM, private
Astragalus equisolensis
**Astragalus iodopetalus**

**violet milkvetch**

- **Federal status:** USFS sensitive
- **Heritage ranks:** G2/S1
- **Global distribution:** New Mexico (historical) and Colorado (Archuleta, Gunnison, La Plata and Montrose counties).
- **Last observed in Colorado:** 2012
- **Colorado occurrences:** 4 (3 are historical)
- **Colorado individuals:** unknown
- **Primary threats:** unknown
- **Land ownership/management:** USFS, Chimney Rock Archeological Area
Astragalus iodopetalus
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)
- **Last observed in Colorado**: 2012
- **Colorado occurrences**: 47 (11 are historical)
- **Colorado individuals**: 650 in 2011, + prev. ~ 6500 estimate
- **Primary threats**: Recreation, Oil and Gas development, Uranium claims
- **Land ownership/management**: BLM, USFS, private
Astragalus naturitensis
**Astragalus piscator**
Fisher Towers milkvetch

- Federal status: BLM sensitive
- Heritage ranks: G2G3/S1
- Global distribution: Utah and Colorado (Mesa County)
- Last observed in Colorado: 2012
- Colorado occurrences: 3
- Colorado individuals: 3000-5000
- Primary threats: recreation, roads
- Land ownership/management: BLM
Astragalus piscator
Astragalus rafaelensis
San Rafael milkvetch

- Federal status: BLM sensitive
- Heritage ranks: G2G3/S1
- Global distribution: Utah and Colorado (Montrose and Mesa counties)
- Last observed in Colorado: 2008
- Colorado occurrences: 7
- Colorado individuals: >1000
- Primary threats: unknown
- Land ownership/management: BLM, private
Astragalus rafaelensis
**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)
- Last observed in Colorado: 2008
- Colorado occurrences: 17+
- Colorado individuals:
- Primary threats: habitat loss/degradation, road construction
- Land ownership/management: USFS, BLM, private
Boechera crandallii
**Camissonia eastwoodiae**  
Eastwood evening primrose

- **Federal status:** BLM sensitive  
- **Heritage ranks:** G2/S1  
- **Global distribution:** Utah and Colorado (Delta and Mesa counties)  
- **Last observed in Colorado:** 2013  
- **Colorado occurrences:** 4 (2 are historical)  
- **Colorado individuals:** several thousand  
- **Primary threats:** unknown  
- **Land ownership/management:** BLM, private
Camissonia eastwoodiae
**Castilleja puberula**
downy indian paintbrush

- **Federal status**: none
- **Heritage ranks**: G2G3/S2S3
- **Global distribution**: Colorado endemic (Alamosa, Boulder, Clear Creek, Grand, Larimer, Park, and Saguache counties)
- **Last observed in Colorado**: 2011
- **Colorado occurrences**: 25 (12 are historical)
- **Colorado individuals**: >250
- **Primary threats**: May be threatened by off-road-vehicle use
- **Land ownership/management**: USFS, private
Cirsium perplexans
adobe thistle

- Federal status: None
- Heritage ranks: G2G3/S2S3
- Global distribution: Colorado endemic (Delta, Mesa, Montrose, Gunnison, Garfield, and Ouray counties)
- Last observed in Colorado: 2011
- Colorado occurrences: 48 (5 are historical)
- Colorado individuals: 10,000+
- Primary threats: Bio or other control for non-native thistles
- Land ownership/management: BLM, private, USFS, NPS, state
Cirsium perplexans
**Draba graminea**
San Juan whitlow-grass

- **Federal status**: none
- **Heritage ranks**: G2/S2
- **Global distribution**: Colorado endemic (Dolores, Hinsdale, La Plata, Montezuma, Ouray, San Juan, and San Miguel counties)
- **Last observed in Colorado**: 2011
- **Colorado occurrences**: 25 (9 are historical)
- **Colorado individuals**: >8000
- **Primary threats**: Non-motorized recreation
- **Land ownership/management**: USFS, private
Draba graminea
**Erigeron kachinensis**

kachina daisy

- **Federal status:** BLM sensitive
- **Heritage ranks:** G2/S1
- **Global distribution:** Utah and Colorado (Montrose county)
- **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, Colorado Natural Area, ACEC
Erigeron kachinensis
**Eriogonum clavellatum**
Comb Wash buckwheat

- **Federal status:** BLM sensitive
- **Heritage ranks:** G2/S1
- **Global distribution:** Utah and Colorado (Montezuma County)
- **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:** Ute Mountain Ute
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)
- **Last observed in Colorado**: 2012
- **Colorado occurrences**: 22 (16 are historical)
- **Colorado individuals**: ~5000
- **Primary threats**: recreation
- **Land ownership/management**: USFS, BLM, private
Eriogonum coloradense
**Lepidium crenatum**
alkaline pepperwort

- Federal status: none
- Heritage ranks: G2/S2
- Global distribution: documented from Moffat, Rio Blanco, Mesa, Delta, Montrose and Montezuma counties in Colorado, may be present in Utah and New Mexico.
- Last observed in Colorado: 2012
- Colorado occurrences: 16 (13 are historical)
- Colorado individuals: thousands
- Primary threats: unknown
- Land ownership/management: BLM, private
Lepidium crenatum
**Lomatium concinnum**
Colorado desert-parsley

- **Federal status:** BLM sensitive
- **Heritage ranks:** G2G3/S2S3
- **Global distribution:** Colorado endemic (Delta, Montrose, and Ouray counties)
- **Last observed in Colorado:** 2008
- **Colorado occurrences:** 38 (4 are historical)
- **Colorado individuals:** >70,000
- **Primary threats:** Motorized recreation
- **Land ownership/management:** BLM, private
Lomatium concinnum
Lupinus crassus
Payson lupine

- **Federal status:** BLM sensitive
- **Heritage ranks:** G2/S2
- **Global distribution:** Colorado endemic (Montrose county)
- **Last observed in Colorado:** 2013
- **Colorado occurrences:** 18 (12 are historical)
- **Colorado individuals:** >100,000
- **Primary threats:** Incompatible grazing
- **Land ownership/management:** BLM, private
Lupinus crassus
Machaeranthera coloradoensis
Colorado tansy-aster

- **Federal status**: USFS sensitive
- **Heritage ranks**: G3/S3
- **Global distribution**: Wyoming and Colorado (Chaffee, Dolores, Fremont, Gunnison, Hinsdale, La Plata, Lake, Park, Pitkin, Rio Grande, Saguache, San Juan counties)
- **Last observed in Colorado**: 2011
- **Colorado occurrences**: 33 (5 are historical)
- **Colorado individuals**: unknown
- **Primary threats**: unknown
- **Land ownership/management**: USFS, private
Machaeranthera coloradoensis
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)
- **Last observed in Colorado:** 2011
- **Colorado occurrences:** 7 (6 are historical)
- **Colorado individuals:** ~1500?
- **Primary threats:** unknown
- **Land ownership/management:** BLM, private
Oreocarya osterhoutii
Physaria alpina
Avery Peak twinpod

- **Federal status**: none
- **Heritage ranks**: G2/S2
- **Global distribution**: Colorado endemic (Lake, Gunnison, Pitkin and Park counties)
- **Last observed in Colorado**: 2013
- **Colorado occurrences**: 7 (3 are historical)
- **Colorado individuals**: >4000
- **Primary threats**: off-road vehicle use
- **Land ownership/management**: USFS, private
Physaria alpina
Physaria pruinosa = Lesquerella pruinosa
Pagosa bladderpod

- **Federal status:** USFS and BLM sensitive
- **Heritage ranks:** G2/S2
- **Global distribution:** New Mexico and Colorado (Archuleta County, and the extreme southern portion of Hinsdale County)
- **Last observed in Colorado:** 2009
- **Colorado occurrences:** 17 (2 are historical)
- **Colorado individuals:** 5,000 to 20,000
- **Primary threats:** Residential and commercial development
- **Land ownership/management:** USFS, private, BLM
Physaria pruinosa
Physaria rollinsii
Rollins’ twinpod

- **Federal status:** none
- **Heritage ranks:** G1/S1
- **Global distribution:** Colorado endemic (Mesa and Gunnison counties)
- **Last observed in Colorado:** 2011
- **Colorado occurrences:** 9 (7 are historical)
- **Colorado individuals:** unknown
- **Primary threats:** unknown
- **Land ownership/management:** Forest Service
Physaria rollinsii
**Physaria vicina**
*Lesquerella vicina*
Montrose bladderpod

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2/S2
- **Global distribution**: Colorado endemic (Montrose and Ouray counties)
- **Last observed in Colorado**: 2008
- **Colorado occurrences**: 22 (one is historical)
- **Colorado individuals**: >9,000
- **Primary threats**: Roads and recreational uses
- **Land ownership/management**: BLM, state, private
Physaria vicina
Puccinellia parishii
Parish’s alkali grass

Conservation Action Plan

- **Federal status**: none
- **Heritage ranks**: G2G3/S1
- **Global distribution**: New Mexico, Arizona, California, and Colorado (San Miguel County)
- **Last observed in Colorado**: 2009
- **Colorado occurrences**: 2
- **Colorado individuals**: 20,000-35,000
- **Primary threats**: altered hydrology
- **Land ownership/management**: private, state
Puccinellia parishii
Salix arizonica
Arizona willow

- Federal status: USFS sensitive
- Heritage ranks: G2G3/S1
- Global distribution: Arizona, New Mexico, Utah, and Colorado (Conejos Co.)
- Last observed in Colorado: 2004
- Colorado occurrences: 1
- Colorado individuals: unknown – 2 dense clumps
- Primary threats: incompatible grazing, hydrologic alteration
- Land ownership/management: USFS – Rio Grande NF
Salix arizonica
Thelypodiopsis juniperorum
juniper tumble mustard

- **Federal status:** none
- **Heritage ranks:** G2/S2
- **Global distribution:** Colorado endemic (Montrose, Gunnison and Delta counties)
- **Last observed in Colorado:** 2012
- **Colorado occurrences:** 13 (5 are historical)
- **Colorado individuals:** 100’s
- **Primary threats:** grazing, off-road vehicle use, non-native species invasion
- **Land ownership/management:** BLM, NPS, USFS, State, private
Thelypodiopsis juniperorum
**Townsendia glabella**  
Gray’s townsend-daisy

- **Federal status**: none
- **Heritage ranks**: G2/S2
- **Global distribution**: Colorado endemic (Archuleta, La Plata and Montezuma counties)
- **Last observed in Colorado**: 2012
- **Colorado occurrences**: 19 (9 are historical)
- **Colorado individuals**: >1,250
- **Primary threats**: Residential development
- **Land ownership/management**: USFS, private
Townsendia glabella
Townsendia rothrockii
Rothrock townsend-daisy

- **Federal status**: none
- **Heritage ranks**: G2G3/S2S3
- **Global distribution**: Colorado endemic (Dolores, Gunnison, Hinsdale, La Plata, Lake, Mesa, Ouray, Park, Pitkin, San Juan, and Summit counties)
- **Last observed in Colorado**: 2011
- **Colorado occurrences**: 28 (14 are historical)
- **Colorado individuals**: >4300
- **Primary threats**: motorized recreation
- **Land ownership/management**: USFS, private
2009

NW & Central Colorado
G2G3 species
Anticlea vaginatus
=Zigadenus vaginatus
sheathed deathcamas

- **Federal status:** none
- **Heritage ranks:** G2/S2
- **Global distribution:** Utah and Colorado (Moffat county)
- **Last observed in Colorado:** 2012
- **Colorado occurrences:** 7 (2 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)
- **Last observed in Colorado:** 2012
- **Colorado occurrences:** 17
- **Colorado individuals:** >62,000
- **Primary threats:** Disturbance by oil and gas development
- **Land ownership/management:** BLM, private
**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)
- **Last observed in Colorado**: 1999
- **Colorado occurrences**: 11 (3 are historical)
- **Colorado individuals**: unknown
- **Primary threats**: none known
- **Land ownership/management**: USFS, BLM, private
Carex stenoptila
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)  
- **Last observed in Colorado**: 2009  
- **Colorado occurrences**: 17 (4 are historical)  
- **Colorado individuals**: >5300  
- **Primary threats**: recreational use of habitat  
- **Land ownership/management**: USFS, state, private
Ipomopsis aggregata ssp. weberi
Ipomopsis globularis
globe gilia

- Federal status: none
- Heritage ranks: G2/S2
- Global distribution: Colorado endemic (Lake, Park, and Summit counties)
- Last observed in Colorado: 2013
- Colorado occurrences: 9 (2 are historical)
- Colorado individuals: estimated 6,000 - 11,000
- Primary threats: motorized recreation, mining development
- Land ownership/management: USFS
Ipomopsis globularis
**Limnorchis zotheicina**

(*=Platanthera zotheicina*)

**alcove bog orchid**

- Federal status: none
- Heritage ranks: G2/S1
- Global distribution: Utah, Arizona, and Colorado (Moffat County)
- Last observed in Colorado: 2012
- Colorado occurrences: 4 (1 is historical)
- 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)
- **Last observed in Colorado**: 2011
- **Colorado occurrences**: 9 (3 are historical)
- **Colorado individuals**: unknown
- **Primary threats**: none known
- **Land ownership/management**: private, USFS
Nuttallia (Mentzelia) *rhizomata*
Roan Cliffs blazing star

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2/S2
- **Global distribution**: Colorado endemic (Rio Blanco County)
- **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)
- **Last observed in Colorado:** 2012
- **Colorado occurrences:** 15 (9 are historical)
- **Colorado individuals:** >4,000
- **Primary threats:** hydrologic alteration, habitat degradation from livestock use
- **Land ownership/management:** BLM, state, private, NPS
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.)
- **Last observed in Colorado**: 2012
- **Colorado occurrences**: 14 (most are historical)
- **Colorado individuals**: unknown, perhaps in the 100s
- **Primary threats**: oil and gas development
- **Land ownership/management**: BLM, NPS, 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)
- Last observed in Colorado: 2010
- Colorado occurrences: 15 (6 are historical)
- Colorado individuals: unknown
- Primary threats: oil and gas development
- Land ownership/management: BLM, state
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)
- Last observed in Colorado: 2011
- Colorado occurrences: 6 (2 are historical)
- Colorado individuals: >19,000
- Primary threats: incompatible grazing
- Land ownership/management: NPS, BLM
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)
- **Last observed in Colorado:** 2010
- **Colorado occurrences:** 24 (16 are historical)
- **Colorado individuals:** >230,000
- **Primary threats:** Oil shale mining and oil and gas development
- **Land ownership/management:** BLM, private, state, 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)
- **Last observed in Colorado**: 2009
- **Colorado occurrences**: 13 (3 are historical)
- **Colorado individuals**: >6300
- **Primary threats**: may be threatened by mining and alpine grazing
- **Land ownership/management**: USFS, private
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)
- Last observed in Colorado: 2011
- Colorado occurrences: 33 (21 are historical)
- Colorado individuals: <200,000
- Primary threats: Oil and gas development, grazing, weeds
- Land ownership/management: BLM, USFS, private
Thalictrum heliophilum
Thelypodium paniculatum
Northwest thelypody

- Federal status: none
- Heritage ranks: G2/SH
- Global distribution: Idaho, Montana, Wyoming, and Colorado (Jackson County)
- Last observed in Colorado: 1903
- Colorado occurrences: 1 historical
- Colorado individuals: unknown
- Primary threats: altered hydrology?
- Land ownership/management: USFS
Thelypodium paniculatum
**Thanks to all who have contributed pictures to the presentations**

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And others – let us know if you recognize a photo

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**Colorado Natural Heritage Program:**

[www.cnhp.colostate.edu](http://www.cnhp.colostate.edu)

[cnhpblog.blogspot.com](http://cnhpblog.blogspot.com)

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