Review of Previous Meetings

3rd Through 6th Annual Colorado Rare Plant Symposia 2006-2009
2006
Colorado Springs
SE Colorado
G2 species
Asclepias uncialis ssp. uncialis
Dwarf milkweed

- **Federal status:** 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)
- **Last observed in Colorado:** 2009
- **Colorado occurrences:** 37 (11 are historical or extirpated)
- **Colorado individuals:** ~500
- **Primary threats:** Population limitation by unknown biological requirements, altered disturbance regime, habitat loss, spread of exotic species, global climate change
- **Land ownership/management:** BLM, Military, Forest Service, Private, and State lands
Asclepias uncialis ssp. uncialis
Cleome multicaulis
Many-stemmed spider-flower

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2G3/S2S3
- **Global distribution**: Mexico, Texas, Arizona, New Mexico, Wyoming and Colorado (Alamosa, Conejos, Costilla, Rio Grande, and Saguache counties)
- **Last observed in Colorado**: 2009
- **Colorado occurrences**: 39 (11 are historical)
- **Colorado individuals**: ~5,132,000
- **Primary threats**: draining of wetlands
- **Land ownership/management**: BLM, National Wildlife Refuge, Private, State, and Wilderness
Cleome multicaulis
Delphinium ramosum var. alpestre
= Delphinium alpestre
Colorado larkspur

- **Federal status**: none
- **Heritage ranks**: G2/S2
- **Global distribution**: New Mexico and Colorado (Costilla, Chaffee, Fremont, Huerfano, Las Animas, Mineral, Park, Saguache, and Summit counties)
- **Last observed in Colorado**: 2005
- **Colorado occurrences**: 10 (4 are historical)
- **Colorado individuals**: ~75
- **Primary threats**: Trampling from recreational activities
- **Land ownership/management**: Forest Service, Private and Wilderness Areas
Delphinium ramosum var. alpestre
**Delphinium robustum**  
Wahatoya Creek larkspur

- **Federal status:** none  
- **Heritage ranks:** G2?/S2?  
- **Global distribution:** New Mexico and Colorado (Huerfano, El Paso, Las Animas, and Saguache counties)  
- **Last observed in Colorado:** 1969  
- **Colorado occurrences:** 4 – all historical  
- **Colorado individuals:** unknown  
- **Primary threats:** Some species of *Delphinium* are poisonous to cattle, so the genus as a whole is sometimes targeted for poisonous weed control  
- **Land ownership/management:** BLM, Forest Service, Private and State
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)
- **Last observed in Colorado**: 2006
- **Colorado occurrences**: 19 (7 are historical)
- **Colorado individuals**: ~250
- **Primary threats**: Trampling from hikers and mountain goats, over-collection for gardens, acid rain, air pollution, and global warming
- **Land ownership/management**: BLM, Forest Service, Private, State and Wilderness Areas
Draba exunguiculata
**Draba grayana**
Gray’s Peak whitlowgrass

- **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)
- **Last observed in Colorado**: 2006
- **Colorado occurrences**: 27 (9 are historical)
- **Colorado individuals**: ~200
- **Primary threats**: Trampling from hikers and mountain goats, over-collection for gardens and global warming
- **Land ownership/management**: Forest Service, National Parks and Monuments, Private and Wilderness Areas
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**  
- **Last observed in Colorado**: 2009  
- **Colorado occurrences**: 27 (5 are historical)  
- **Colorado individuals**: ~3200  
- **Primary threats**: Habitat modification from hiking and construction  
- **Land ownership/management**: Forest Service, Private and State
Draba smithii
Herrickia horrida
= Eurybia horrida
Canadian River spiny aster or Horrid herrickia

- **Federal status**: none
- **Heritage ranks**: G2?/S1
- **Global distribution**: New Mexico and Colorado (Las Animas County)
- **Last observed in Colorado**: 2010
- **Colorado occurrences**: 3
- **Colorado individuals**: 500+
- **Primary threats**: unknown
- **Land ownership/management**: Private, State
Herrickia horrida
**Lesquerella calcicola**  
Rocky Mountain bladderpod

- **Federal status**: none
- **Heritage ranks**: G3/S3
- **Global distribution**: New Mexico and Colorado (Conejos, El Paso, Fremont, Huerfano, Las Animas, and Pueblo counties)
- **Last observed in Colorado**: 2011
- **Colorado occurrences**: 36 (7 are historical)
- **Colorado individuals**: 24,000
- **Primary threats**: This species occurs in areas that are experiencing rapid development pressures
- **Land ownership/management**: BLM, Military, Private, and State
Lesquerella calcicola
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)
- **Last observed in Colorado:** 2010
- **Colorado occurrences:** 27 (3 are historical)
- **Colorado individuals:** ~4100
- **Primary threats:** Grazing, quarry activities, and subdivision and road construction
- **Land ownership/management:** BLM, Military, Private and State
Nuttallia chrysantha
Nuttallia densa
= Mentzelia densa
Arkansas Canyon stickleaf

- **Federal status**: BLM sensitive
- **Heritage ranks**: G2/S2
- **Global distribution**: endemic to Colorado (Fremont County)
- **Last observed in Colorado**: 2009
- **Colorado occurrences**: 17 (3 are historical)
- **Colorado individuals**: ~13,500
- **Primary threats**: Recreational development and road construction
- **Land ownership/management**: BLM, Forest Service, Private and State
Nuttallia densa
Oenothera harringtonii
Arkansas Valley
evening primrose

- **Federal status:** none
- **Heritage ranks:** G3/S3
- **Global distribution:** endemic to Colorado (El Paso, Fremont, Huerfano, Las Animas, Otero, and Pueblo counties)
- **Last observed in Colorado:** 2010
- **Colorado occurrences:** 62 (6 are historical)
- **Colorado individuals:** 12,000+
- **Primary threats:** Habitat loss due to urbanization, road development projects, and resource extraction activities, especially quarrying and surface mining
- **Land ownership/management:** BLM, Military, Forest Service, Private and State
Oenothera harringtonii
Oonopsis foliosa var. monocephala
Rayless goldenweed

- Federal status: none
- Heritage ranks: G3G4T2/S2
- Global distribution: endemic to Colorado (Las Animas, Pueblo, and Fremont counties)
- Last observed in Colorado: 2009
- Colorado occurrences: 13 (4 are historical)
- Colorado individuals: 400,000+
- Primary threats: Maintenance on current roads or further developments may disturb or destroy individuals
- Land ownership/management: BLM, Military, Private and State
Oonopsis foliosa var. monocephala
Oonopsis “puebloensis” = Oonopsis sp. 1
Pueblo goldenweed

Conservation Action Plan

- **Federal status:** none
- **Heritage ranks:** G2/S2
- **Global distribution:** endemic to Colorado (El Paso, Fremont and Pueblo counties)
- **Last observed in Colorado:** 2009
- **Colorado occurrences:** 28
- **Colorado individuals:** ~11,000 or more
- **Primary threats:** Shale extraction by cement plants
- **Land ownership/management:** Private, State and Military
Oonopsis “puebloensis”
Oxybaphus rotundifolius
= Mirabilis rotundifolia
Round-leaf four-o’clock

**Conservation Action Plan**

- **Federal status**: none
- **Heritage ranks**: G2/S2
- **Global distribution**: endemic to Colorado (Fremont, Las Animas, El Paso and Pueblo counties)
- **Last observed in Colorado**: 2009
- **Colorado occurrences**: 37 (1 is historical)
- **Colorado individuals**: ~6200
- **Primary threats**: Highly threatened by residential and recreational development
- **Land ownership/management**: BLM, Military, Private and State
Penstemon degeneri
Degener beardtongue

- **Federal status**: USFS & BLM sensitive
- **Heritage ranks**: G2/S2
- **Global distribution**: endemic to Colorado (Chaffee, Custer and Fremont counties)
- **Last observed in Colorado**: 2010
- **Colorado occurrences**: 16 (2 historical)
- **Colorado individuals**: ~1500
- **Primary threats**: Motorized and non-motorized recreation, non-native plant invasion, grazing and trampling, extensive herbivory, succession, and global environmental changes
- **Land ownership/management**: BLM, Forest Service, Private and State
Penstemon degeneri
**Ptilagrostis porteri**
Porter feathergrass

- **Federal status**: USFS sensitive
- **Heritage ranks**: G2/S2
- **Global distribution**: Colorado (El Paso, Lake, Park and Summit counties); northern NM
- **Last observed in Colorado**: 2011
- **Colorado occurrences**: 25 (3 are historical)
- **Colorado individuals**: ~408,000
- **Primary threats**: Alterations to the water table resulting from increased diversion and pumping for the metropolitan front range
- **Land ownership/management**: BLM, Forest Service, and Private
Ptilagrostis porteri
Telesonix jamesii
James’ telesonix

- **Federal status:** none
- **Heritage ranks:** G2/S2
- **Global distribution:** New Mexico and Colorado (El Paso, Jefferson, Larimer, Park, and Teller counties)
- **Last observed in Colorado:** 2011
- **Colorado occurrences:** 31 (8 are historical)
- **Colorado individuals:** ~20,000
- **Primary threats:** Motorized and non-motorized recreation, trail or road construction and maintenance, invasive species introduction, and horticultural collection
- **Land ownership/management:** BLM, Military, Forest Service, Private and State
Telesonix jamesii
2007
Boulder
NE Colorado
G2G3 species
**Aletes humilis**  
Larimer aletes

- Federal status: None
- **Heritage ranks:** G2G3/S2S3
- **Global distribution:** Colorado (Larimer and Boulder counties). Possibly extending into southern Wyoming.
- **Last observed in Colorado:** 2007
- **Colorado occurrences:** 27 (1 is historical)
- **Colorado individuals:** 15,000+
- **Primary threats:** Recreational uses are the primary threat.
- **Land ownership/management:** USFS, private, local government
Aletes humilis
Aletes nuttallii = Lomatium nuttallii

Nuttall's desert-parsley

- **Federal status:** None
- **Heritage ranks:** G3/S1
- **Global distribution:** Montana, Wyoming, Nebraska, South Dakota (historical), Colorado (Grand and Weld counties).
- **Last observed in Colorado:** June 2005
- **Colorado occurrences:** 6 (1 is historical)
- **Colorado individuals:** 6,500
- **Primary threats:** ORV use, weeds, cattle trampling
- **Land ownership/management:** State 50%, Private 50%
Aletes nuttallii
Aquilegia saximontana
Rocky Mountain columbine

• Federal status: None
• Heritage ranks: G3/S3
• Global distribution: Colorado (Boulder, Clear Creek, El Paso, Gilpin, Jackson, Lake, Larimer, Park, Pueblo, San Juan, Summit, and Teller counties).
• Last observed in Colorado: 2011
• Colorado occurrences: 49 (23 are historical)
• Colorado individuals: 1,500
• Primary threats: recreational uses, road work pika grazing, rock garden collecting
• Land ownership/management: USFS 70%, NPS 15%, Private 12%, State 4%
Aquilegia saximontana
Astragalus sparsiflorus
Front Range milk-vetch

- Federal status: None
- Heritage ranks: G2/S2
- Last observed in Colorado: 2010
- Colorado occurrences: 8 (2 are historical)
- Colorado individuals: 330+
- Primary threats: recreation
- Land ownership/management: Private, local gov., USFS
Bolophyta alpina = Parthenium alpinum
Alpine fever-few

- **Federal status:** None
- **Heritage ranks:** G3/S1
- **Global distribution:** Wyoming, New Mexico, Colorado (Weld County)
- **Last observed in Colorado:** June 2007
- **Colorado occurrences:** 1 large metapopulation (numerous subpopulations, 1 historical)
- **Colorado individuals:** 100,000+
- **Primary threats:** Incidental grazing, hay dumping (State), pipelines
- **Land ownership/management:** State, Private, USFS/Pawnee NG
Bolophyta alpina
Carex oreocharis
Grassy slope sedge

- **Federal status:** None
- **Heritage ranks:** G3/S1
- **Global distribution:** Arizona, New Mexico, Wyoming, Colorado (Boulder, Conejos, Custer, El Paso, Gilpin, Park, and Teller counties).
- **Last observed in Colorado:** August 2000
- **Colorado occurrences:** 10 (6 are historical)
- **Colorado individuals:** several thousand
- **Primary threats:** weeds, road construction, grazing
- **Land ownership/management:** USFS 80%, Private 20%
**Draba crassa**
Thick-leaf whitlow-grass

- **Federal status**: None
- **Heritage ranks**: G3/S3
- **Last observed in Colorado**: 2007
- **Colorado occurrences**: 46 (9 are historical)
- **Colorado individuals**: 2,700 +
- **Primary threats**: recreational uses
- **Land ownership/management**: USFS 85%, Private 15%
Draba crassa
**Draba globosa**  
**Rockcress draba**

- **Federal status:** None
- **Heritage ranks:** G3/S1
- **Global distribution:** Idaho, Montana, Utah, Wyoming, Colorado (Clear Creek, Gunnison, Lake, and Pitkin counties).
- **Last observed in Colorado:** 2006
- **Colorado occurrences:** 7 (1 is historical)
- **Colorado individuals:** 150
- **Primary threats:** recreational use, potential mining
- **Land ownership/management:** USFS
Draba globosa
Draba streptobrachia
Colorado Divide
whitlow-grass

- Federal status: None
- Heritage ranks: G3/S3
- Global distribution: Colorado endemic (Chaffee, Clear Creek, Conejos, Costilla, Dolores, Gunnison, Hinsdale, Huerfano, La Plata, Lake, Larimer, Mineral, Ouray, Park, Pitkin, Saguache, San Juan, San Miguel, and Summit counties).
- Last observed in Colorado: 2006
- Colorado occurrences: 53 (20 are historical)
- Colorado individuals: unknown
- Primary threats: recreation
- Land ownership/management: USFS 63%, BLM 19%, Private 19%
Draba streptobrachia
Eriogonum exilifolium
Dropleaf wild buckwheat

- **Federal status**: USFS sensitive
- **Heritage ranks**: G3/S2
- **Global distribution**: Wyoming, Colorado (Grand, Jackson, and Larimer counties).
- **Last observed in Colorado**: September 2005
- **Colorado occurrences**: 10 (2 are historical)
- **Colorado individuals**: greater than 1,000,000
- **Primary threats**: weeds, incompatible grazing, roads
- **Land ownership/management**: BLM, state and private
Eriogonum exilifolium
Heuchera hallii
Front Range alum-root

No longer tracked; found to be common

- **Federal status**: None
- **Heritage ranks**: G4/S4
- **Last observed in Colorado**: 2011
- **Colorado occurrences**: 67
- **Colorado individuals**: locally common
- **Primary threats**: recreation (hiking, rock climbing)
- **Land ownership/management**: Primarily USFS
Heuchera hallii
Nuttallia (Mentzelia) sinuata
Wavy-leaf stickleleaf

- **Federal status:** None
- **Heritage ranks:** G3/S2
- **Global distribution:** Wyoming and Colorado (Boulder and Larimer counties).
- **Last observed in Colorado:** 2007
- **Colorado occurrences:** 12 (4 are historical)
- **Colorado individuals:** hundreds+
- **Primary threats:** road work, misidentification as weeds
- **Land ownership/management:** USFS 67%, City 33%
Nuttallia sinuata
Nuttallia speciosa
Jeweled blazingstar

- **Federal status:** None
- **Heritage ranks:** G3?/S3?
- **Last observed in Colorado:** 2011
- **Colorado occurrences:** 19
- **Colorado individuals:** ~10,000
- **Primary threats:** road work, recreation, weeds
- **Land ownership/management:** BLM, USFS, Private, State
Nuttallia speciosa
Oonopsis wardii
Ward's golden-weed

- **Federal status**: None
- **Heritage ranks**: G3/S1
- **Global distribution**: Wyoming and Colorado (Larimer County).
- **Last observed in Colorado**: August 2004
- **Colorado occurrences**: 1
- **Colorado individuals**: 300+
- **Primary threats**: incompatible grazing
- **Land ownership/management**: BLM
Oönpopsis wardii
Phacelia denticulata
Rocky Mountain phacelia

- **Federal status**: None
- **Heritage ranks**: G3/SU
- **Global distribution**: Wyoming, New Mexico, Colorado (Boulder, Clear Creek, Costilla, Douglas, El Paso, Larimer, Las Animas, and Park counties).
- **Last observed in Colorado**: 2009
- **Colorado occurrences**: 8+ (6 are historical)
- **Colorado individuals**: unknown
- **Primary threats**: unknown
- **Land ownership/management**: USFS, BLM, Private
**Physaria bellii**
Bell's twinpod

- **Federal status:** None
- **Heritage ranks:** G2G3/S2S3
- **Global distribution:** Colorado endemic (Boulder and Larimer counties). Jefferson and El Paso County records annotated to a different species.
- **Last observed in Colorado:** 2011
- **Colorado occurrences:** 25 (3 are historical)
- **Colorado individuals:** Approximately 1 million
- **Primary threats:** Residential development, limestone mining, road work, weeds
- **Land ownership/management:** Private 67%, Local government 33%
Physaria bellii
Physaria

P. vitulifera

P. vitulifera x P. bellii
**Potentilla ambigens**  
Southern Rocky Mountain cinquefoil

- **Federal status:** None
- **Heritage ranks:** G3/S1S2
- **Global distribution:** New Mexico, Wyoming (historical), and Colorado (El Paso, Jefferson, Larimer and Mineral counties).
- **Last observed in Colorado:** 2011
- **Colorado occurrences:** 11 (1 is historical)
- **Colorado individuals:** 5,000
- **Primary threats:** recreation, grazing, weeds
- **Land ownership/management:** USFS, DoD, local government, state, private
Potentilla ambigens
**Potentilla rupincola**  
Rocky Mountain cinquefoil

- **Federal status**: USFS Sensitive  
- **Heritage ranks**: G2/S2  
- **Last observed in Colorado**: 2009  
- **Colorado occurrences**: 25 (7 are historical)  
- **Colorado individuals**: 36,000+  
- **Primary threats**: weeds, residential and commercial development, road work, recreation.  
- **Land ownership/management**: Private, USFS, NPS, State, Local
Potentilla rupincola
Sisyrinchium pallidum
Pale blue-eyed grass

- **Federal status:** BLM Sensitive
- **Heritage ranks:** G2G3/S2
- **Global distribution:** Wyoming and Colorado (Chaffee, Gilpin, Fremont, Jackson, Larimer, Park, and Saguache counties).
- **Last observed in Colorado:** 2006
- **Colorado occurrences:** 41 (1 is historical)
- **Colorado individuals:** 11,000
- **Primary threats:** road work, residential development, grazing, peat mining, and recreational activities.
- **Land ownership/management:** Private 54%, BLM 23%, State 15%, NGO 8%
Sisyrinchium pallidum