



COLORADO NATURAL HERITAGE PROGRAM
T&E PLANT ELEMENT OCCURRENCE FIELD FORM
 COLORADO STATE UNIVERSITY-WARNER COLLEGE OF NATURAL RESOURCES

Please submit copies of personal/agency field data forms, digital data (GIS or spreadsheet), or this field form to:
 CNHP, 1475 Campus Delivery, Fort Collins, CO 80523 or Jill.Handwerk@colostate.edu (970) 491-5857
 (For a list of elements tracked by CNHP, refer to <http://www.cnhp.colostate.edu/download/list.asp>)

Element Scientific Name: _____
 Survey Date: _____ (yyyy-mm-dd)
 Observer(s) Name & Affiliation: _____
 Observer(s) Address & Phone Number: _____

Land Ownership

Owner Type: Private USFS BLM State Military Indian BuRec NPS Other: _____
 Owner Name (or National Forest, BLM District, etc.): _____
 Owner Comments (special requests, permissions, circumstances): _____
 Data Sensitive Element Occurrence: Y N
 If yes, list reason (i.e., landowner requests confidentiality): _____

Locational Information (REQUIRED)

(Provide a photocopy of map with location of the occurrence marked or outlined, or a shapefile)

Surveysite Name (from 7.5' quad): _____
 County: _____ Elevation (range if applicable): _____ feet meters
 Legal Description: Township: _____ Range: _____ Section: _____ ¼ Sec: _____
 Additional T/R/S, Sections or ¼ Secs: _____

GPS Coordinates: UTM Zone: 12 13 Northing: _____ Easting: _____
 Additional UTM coordinates: Northing: _____ Easting: _____ Northing: _____ Easting: _____
 Datum: NAD27 NAD83 WGS84 Other: _____
 GPS accuracy (if known): _____ autonomous(uncorrected) differentially corrected Other: _____
 GPS make/model: _____

Directions (REQUIRED)

Driving and hiking directions and prominent topographical features: _____

Element Occurrence Data (REQUIRED)

Number of Individuals (exact count, if feasible or check range below; if plants are spreading vegetatively, indicate number of aerial stems): _____
 1-10 11-50 51-100 101-500 501-1000 1001-5000 5001-10,000 10,000+
 Estimated Population Size: _____
 Size of Area Covered by Population: _____ acres _____ sq ft _____ sq m
 Full extent of occurrence visited/mapped: No: Yes: Comments: _____
 Additional EO Data Comments: _____

Phenology (What percent of the observed individuals are vegetative, dormant, or in flower and fruit, note that you may have plants that are in both flower and fruit, and therefore the total % may be more than 100%. Ex. - Vegetative: 20%, Flower, 70%, Fruit: 80%, Dormant: 5%): Vegetative (leaf or bud): _____% Flower: _____% Fruit: _____% Dormant: _____%
 Reproductive Success: (evidence of seed dispersal and establishment): _____
 Age Classes Present: Seedling: _____% Immature: _____% Mature: _____% Senescent: _____%
 Vigor: Feeble Normal Vigorous
 Pollinators (e.g number, types, etc.): _____
 Evidence of Disease, Predation, Herbivory or Injury (estimate % of individuals affected): _____
 Look alike present: No: Yes: Comments on identification: _____

Additional Site/Plant Condition Comments (details on productivity [vigor], health of population, degree of anthropogenic disturbance, naturalness of hydrology, and other ecological processes **within** the occurrence, not addressed above. Please provide % of occurrence affected, if known, following values for threats listed in Management Comments section): _____

Landscape Context Comments (biological structure, species composition, degree of fragmentation or connectivity, and condition of the surrounding landscape. Please provide % of the surrounding landscape affected, if known, following values for threats listed in Management Comments section): _____

Element Occurrence Habitat Description

Habitat in the immediate area (ex. shale barren): _____

Dominant Plant Community (list dominant species currently present, include age structure, and % cover if known): _____

Additional Associated Plant Species (five most commonly seen with this species): _____

Topographic Position:

- Ridge Top/Interfluve Upper/High Slope Mesa or Plateau top Midslope Cliff Face/Back Slope
- Shelf on Cliff Face Low Slope Toe Slope Valley/Basin Floor
- Channel Wall Channel Bed

Aspect:

- Flat Variable N (338-22 degrees) NE (23-67 degrees) E (68-112 degrees)
- SE (113-157 degrees) S (158-202 degrees) SW (203-247 degrees) W (248-292 degrees) NW (293-337 degrees)

Slope:

- Flat 0% Gentle 1-6%
- Moderate 6-33% Steep 33-50%
- Very steep 50-67% Cliff 67-100%
- Overhanging/sheltered

Slope Shape: Concave Convex Straight Other _____

Light Exposure: Open Shaded Partial shade Other _____

Moisture: Dry Moist Saturated Inundated Seasonal Seepage Streambank Other _____

Proximity to Moisture: (for alpine sites is species influenced by snowmelt, on snow free sites or snow covered sites): _____

Soil Texture: Silt Clay Loam Sand Gravel Cobble Cobble Size: _____

Geomorphic Landform (e.g., glaciated mountain slopes and ridges, alpine glacial valley, cirque, rolling uplands, breaklands, floodplain, cutbank, hogback, cliff, gully, canyon, etc.): _____

Protection Comments (Comments on any legal protection, special land designations, or strategies needed or in place.): _____

Management Comments

Threat and Management comments apply to: Entire occurrence Area surveyed

Management Comments (This could include special fencing, signage and other concerns.): _____

Evidence of Threats and Disturbance (e.g. effects on population viability due to mining, recreation, grazing, exotic species; past/present/future recommendations): _____

Predominant Land Uses (recreation, grazing, open space, etc.): _____

Domain values for Scope of Threat (adapted from NatureServe Biotics):

- High = > 60% of occurrence or area surveyed
- Moderate = 20-60% of occurrence or area surveyed
- Low = 5-20% of occurrence or area surveyed
- Very Low = < 5% of occurrence or area surveyed
- Trace + < 1% of occurrence or area surveyed
- None = none observed in occurrence or area surveyed
- Unknown = proportion of occurrence, or area surveyed is unknown
- Null = Rank factor not assessed

Threat Categories (adapted from the Colorado Rare Plant SWAP):

Collection or other Direct Mortality Uses: High Moderate Low Very Low Trace None Unknown

Comments: _____

Grazing: High Moderate Low Very Low Trace None Unknown

Comments: _____

Recreational disturbance (motorized and non-motorized recreation): High Moderate Low Very Low Trace

None Unknown Comments on type of recreational disturbance: _____

Resource Extraction (mining, oil & gas drilling): High Moderate Low Very Low Trace None

Unknown Comments on type of resource extraction: _____

Habitat Degradation (fragmentation, trail development, utility lines, hydrologic alteration, etc.): High Moderate Low

Very Low Trace None Unknown Comments on type of habitat degradation: _____

Habitat Conversion (urban, industrial, agricultural development, etc.): High Moderate Low Very Low Trace

None Unknown Comments on type of habitat conversion: _____

Invasive or Exotic Species (plants, pathogens): High Moderate Low Very Low Trace None Unknown

Comments on quantity (names of invasive or exotic species present , estimate % cover of each invasive species and/or , dominance of species at site): _____

Pollution (chemical run-off, dust, air pollution): High Moderate Low Very Low Trace None Unknown

Comments on type of pollution at site: _____

Documentation

Photographs Taken: Y N Photographer: _____ Photo Number(s): _____ Repository: _____

Specimens Taken: Y N Collector: _____ Collection Number(s): _____ Repository: _____

Survey Effort

People hours: _____

Number of surveyors: _____

Survey time at site: _____

Extent of area surveyed: _____

Comments (areas needing additional surveys, how was suitable habitat identified, etc.): _____

Survey Method

Transect with a _____ meter separation distance

Ocular estimation

Quadrat Size and number: _____

Other, describe: _____

General Comments (for information not captured above):
