

**PLANT ELEMENT OCCURRENCE  
EXTERNAL FIELD FORM DATA DICTIONARY**



Element Scientific Name: \_\_\_\_\_  
(For a list of elements tracked by CNHP, refer to <http://www.cnhp.colostate.edu/ourdata/trackinglist/>)

**Element Scientific Name:** State scientific name for an Element.

**Site Location and Directions**

*(please provide a specific written description and also provide a shapefile, kmz file, or attach a copy of map with site marked)*

Survey Site Name: \_\_\_\_\_  
Latitude: \_\_\_\_\_ Longitude: \_\_\_\_\_ (decimal degrees - e.g., 40.12345, -104.12345, please report to at least 5 decimal places)  
County: \_\_\_\_\_ Elevation (range if applicable): \_\_\_\_\_  feet  meters

Driving and hiking directions and prominent topographical features: \_\_\_\_\_

**Site Location and Directions**

For Survey Site Name use the geographical feature nearest to where the occurrence was mapped. If you have multiple points or polygons latitude/longitude include in table at the end of the EO form.

**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): \_\_\_\_\_

**Ownership:** This field is used for information about the owner such as name, address, phone number, contacts other than owners, permission is required to access, there is a locked gate, etc.

**Element Occurrence Data**

**SIZE**

Number of Individuals (exact count, if feasible; if plants are spreading vegetatively, indicate number of aerial stems): \_\_\_\_\_

Estimated Population Size: \_\_\_\_\_

Size of Area Covered by Population: \_\_\_\_\_ acres or \_\_\_\_\_ hectares

Estimate whether the entire population was surveyed, or only a portion: \_\_\_\_\_

**Estimated Population Size:** For populations over 100 individuals you may need to estimate the population size. The entry for this field should be as precise as possible, avoid using terms like 100s or 1000s. Please also indicate the estimation method used (e.g. ocular estimate, plot, transect, etc.).

**CONDITION**

Phenology: Vegetative: \_\_\_\_\_% Flower: \_\_\_\_\_% Fruit: \_\_\_\_\_%

Reproductive Success: (evidence of seed dispersal and establishment): \_\_\_\_\_

Age Classes Present (e.g., flowering mature individuals, seedlings or rosettes, fruiting individuals, etc.): \_\_\_\_\_

Symbiotic or Parasitic Relationships (e.g., pollinators): \_\_\_\_\_

Evidence of Disease, Predation or Injury: \_\_\_\_\_

Condition Comments (productivity, vigor/health; evidence of reproduction, health of population, degree of anthropogenic disturbance, naturalness of hydrology and other ecological processes): \_\_\_\_\_

**Condition:** Productivity and vigor of the observed feature/element.**Phenology:** the percent of plants in the vegetative, flower, and fruit stages should equal 100%. If plants are in two phenological stages (e.g., flower and fruit) record the most advanced phenological stage (e.g., fruit).**Age Classes Present:** Valid entries include seedlings, juveniles (pre-flowering), adults (fruiting/flowering).**Evidence of disease, predation or injury:** Avoid only answering yes, provide a list of what was observed. For example, appears to be grazed by elk, fungus on leaves, etc.**LANDSCAPE CONTEXT** (degree of fragmentation and connectivity, condition and extent of **surrounding landscape**):

Comments: \_\_\_\_\_

**Landscape Context:** structure, condition, and extent of **surrounding** landscape. Components of this factor are:

- landscape structure and extent surrounding the EO, including potential for genetic connectivity;
- development/maturity of the surrounding landscape context (for community EOs);
- ecological processes in the surrounding landscape context;
- species composition and biological structure of the surrounding landscape context;

**General Habitat Description**

General Habitat Comments: \_\_\_\_\_

Dominant Plant Community (list dominant species currently present): \_\_\_\_\_

Additional Associated Plant Species (*be concise*): \_\_\_\_\_**General Habitat Comments:** Describe the general landscape surrounding the EO.

Topographic Position: \_\_\_\_\_

**Topographic Position:** Domain values for Topographic Position are:**Interfluve** - (crest, summit, ridge): linear top of ridge, hill or mountain; the elevated area between two fluves (drainageways) that sheds water to the drainageways.**High Slope** - (shoulder slope, upper slope, convex creep slope): geomorphic component that forms the uppermost inclined surface at the top of a slope. It comprises the transition zone from backslope to summit, and the surface is dominantly convex in profile and erosional in origin.**High Level** - (mesa) level top of plateau.

**Midslope** - (transportational midslope, middle slope): intermediate slope position between high and low.

**Backslope** - (dipslope): subset of midslopes which are steep, linear and may include cliff segments (fall faces).

**Step in Slope** - (ledge, terracette): nearly level shelf interrupting a steep slope, rock wall, or cliff face.

**Lowslope** - (lower slope, foot slope, colluvial footslope): inner gently inclined surface at the base of a slope. Surface profile is generally concave and a transition between midslope or backslope, and toeslope.

**Toeslope** - (alluvial toeslope): outermost gently inclined surface at base of a slope. Toeslopes in profile are commonly gentle and liner and characterized by alluvial deposition.

**Low Level** - (terrace): valley floor or shoreline representing the former position of an alluvial plain, lake, or shore.

**Channel Wall** - (bank): sloping side of a channel.

**Channel Bed** - (narrow valley bottom, gully arroyo): bed of single or braided watercourse commonly barren of vegetation and formed of modern alluvium.

**Basin Floor** - (depression): nearly level to gently sloping, bottom surface of an intermontane basin.

**(null)** - Not assessed or unknown

Aspect: \_\_\_\_\_

**Aspect:** The aspect(s) of the slope(s) (compass direction in which the slope faces) of the terrain on which the community Element Occurrence (EO) is generally located. Domain values for Aspect are:

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: \_\_\_\_\_

**Slope:** The general slope(s) of the terrain on which the community Element Occurrence (EO) is generally located. Domain values for Slope:

Flat (0%, 0 degrees)  
Gentle (0 - 5%, 1 - 10 degrees)  
Moderate (5 - 15%, 10 - 25 degrees)  
Somewhat steep (15 - 25%, 25 - 50 degrees)  
Steep (25 - 45%, 50 - 100 degrees)  
Very steep (45 - 70%, 100 - 275 degrees)  
Abrupt (70 - 100%, 275 - 300 degrees)  
Overhanging/Sheltered (>100%, >300 degrees)

Light Exposure:  Open  Shaded  Partial shade  Other \_\_\_\_\_  
 Moisture:  Dry  Moist  Saturated  Inundated  Seasonal seepage  Other \_\_\_\_\_  
 Soil Texture: \_\_\_\_\_  
 Geomorphic Landform (e.g., glaciated mountain slopes and ridges, alpine glacial valley, rolling uplands, breaklands, alluvial-colluvial-lacustrine, rockslides, etc.): \_\_\_\_\_

**Soil Texture:** Indicate the soil texture that characterizes the habitat of the taxon. Domain values for Soil Texture are:

- Clay/silt
- Loam
- Sand
- Gravel/cobble
- Rocky
- Bare rock
- (null) - Not assessed or unknown

**Geomorphic Landform:** See Schoeneberger, P.J. and Wysocki, D.A. 2017. Geomorphic Description System, Version 5.0. Natural Resources Conservation Service, National Soil Survey Center, Lincoln, NE, Available at <https://www.nrcs.usda.gov/resources/guides-and-instructions/geomorphic-description-system>, for a list of geomorphology types.

**Protection Comments** (Comments on land ownership - legal protection or strategies in place): \_\_\_\_\_

**Protection Comments:** Comments related to land ownership that may indicate a designation which confers a level of protection for the species/community, e.g., USFS Wilderness Area, BLM Area of Critical Environmental Concern (ACEC), National Park. Also, any comments on existing protection strategies for the site. Please ensure your comments are as fact-based as possible and avoid broad subjective statements. This field should be a descriptive field.

**Management Comments**

Evidence of Threats and Disturbance (e.g., effects on population viability due to mining, recreation, livestock grazing, exotic species; past and/or present disturbance): \_\_\_\_\_  
 Predominant Land Uses: \_\_\_\_\_  
 Exotic Species: \_\_\_\_\_

**Management Comments:** Comments on any management needed to ensure continued existence of the Element Occurrence (EO), as well as the chances and means of fulfilling those needs. Also include a general description of current land management practices (if known). Please ensure your comments are as fact-based as possible, avoid broad subjective statements. This field should be a descriptive field.

**Documentation**

Photographs Taken:  Y  N Photographer: \_\_\_\_\_ Photo Number(s): \_\_\_\_\_ Repository: \_\_\_\_\_  
 Specimens Taken:  Y  N Collector: \_\_\_\_\_ Collection Number(s): \_\_\_\_\_ Repository: \_\_\_\_\_  
 (Note: a permit is required to collect specimens)

**General Comments**

**General Comments:** Any comments needed that do not fit in any other category, including the EOID of a record if this is an update to an EOR.

**Additional information for Element Occurrences with multiple mapped areas (source features).**  
**Please check one of the three boxes (current mapping correct, replace current mapping, or new site) for each location.**

<b>Source ID <u>or</u> other Identifier* <u>or</u> Latitude/Longitude</b>	<b>Current Mapping Correct</b>	<b>Replace Current Mapping*</b>	<b>New Site*</b>	<b>Notes (# individuals)</b>

\*For new and replacement sites please provide a shapefile, kmz file, or attach a copy of map. The identifier(s) on the map should match the identifier(s) in the table above.