

SPECIAL PLANT SURVEY FORM

Site: _____ Survey Site: _____
 Quad name: _____ Quad code: _____
 County: _____ Town: _____

Date: _____ Surveyor(s): _____ Sourcecode: **F**

Plant Name: _____ New Update Occurrence #: _____

GPS Coordinates (<input type="checkbox"/> NAD 83, UTM Zone 19N; <input type="checkbox"/> Other-please specify)	GPS Unit and Accuracy:
Directions to Occurrence:	
<input type="checkbox"/> Strongly recommend use of air photos and USGS topographic maps for relocation of the site on the ground.	

MAP: Please attach a map, preferably 1:24,000 scale topo map, showing the location of the observation.

Locational Uncertainty (how closely can you map the feature to its actual location?)

mapped to w/in 12.5 m of actual location; greater uncertainty (estimate = _____ m / ft / km / miles); aerial delimited

Confidence in Observation of Population Extent

Confident full extent of feature **IS** known; Confident full extent is **NOT** known; **Uncertain** whether full extent is known

EO DATA	Phenology	Population Area	Vigor? <input type="checkbox"/> Normal <input type="checkbox"/> Other than normal Explain:
# of Plants _____ <input type="checkbox"/> Individuals <input type="checkbox"/> Ramets Population Structure _____% Vegetative _____% Reproductive	<input type="checkbox"/> In leaf <input type="checkbox"/> In bud <input type="checkbox"/> In flower <input type="checkbox"/> Immature fruit <input type="checkbox"/> Mature fruit <input type="checkbox"/> Seed dispersing <input type="checkbox"/> Dormant	<input type="checkbox"/> 1 square yard <input type="checkbox"/> 1 – 5 square yards <input type="checkbox"/> 5 – 20 square yards <input type="checkbox"/> 20 – 100 square yards <input type="checkbox"/> 100 sq yds to 1 acre <input type="checkbox"/> 1 acre + ____~area actual habitat ____~ area potential habitat	Evidence disease, predation, etc? Explain: <input type="checkbox"/> Yes <input type="checkbox"/> No Type of reproduction? Explain: <input type="checkbox"/> Sexual <input type="checkbox"/> Asexual <input type="checkbox"/> Not Observed
Other Comments:			

GENERAL DESCRIPTION

Associated natural community:					
Associated plant species:					
Substrate/soil type:					
Threats to Population:					
Conservation/Management/ Research needs:					
Elevation	Aspect	% Slope	Light	Topographic Position	Moisture
Min _____ ft / m Max _____ ft / m	<input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> NW <input type="checkbox"/> S <input type="checkbox"/> SE <input type="checkbox"/> W <input type="checkbox"/> SW <input type="checkbox"/> Flat or NA	<input type="checkbox"/> Flat <input type="checkbox"/> 0-10 <input type="checkbox"/> 10-35 <input type="checkbox"/> 35+ <input type="checkbox"/> Vertical	<input type="checkbox"/> Open <input type="checkbox"/> Partial <input type="checkbox"/> Filtered <input type="checkbox"/> Shade	<input type="checkbox"/> Crest <input type="checkbox"/> Upper Slope <input type="checkbox"/> Mid-slope <input type="checkbox"/> Lower Slope <input type="checkbox"/> Bottom <input type="checkbox"/> Level Plain	<input type="checkbox"/> Inundated <input type="checkbox"/> Saturated (wet mesic) <input type="checkbox"/> Moist (mesic) <input type="checkbox"/> Dry-mesic <input type="checkbox"/> Dry (xeric)

Photograph taken? <input type="checkbox"/> No <input type="checkbox"/> Yes	Specimen collected? <input type="checkbox"/> No <input type="checkbox"/> Yes	Do other members of this genus occur at this site? <input type="checkbox"/> No <input type="checkbox"/> Yes
	Collection # _____ Repository _____	If yes, are there hybridization issues? <input type="checkbox"/> No; <input type="checkbox"/> Yes; Explain
		Are there identification issues? <input type="checkbox"/> No; <input type="checkbox"/> Yes; Explain

Landowner name/address for entire population (attach additional owner information on a separate sheet):	Phone _____	Is landowner aware of plant? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Tax map # (if known) _____	Is landowner protecting plant? <input type="checkbox"/> Yes <input type="checkbox"/> No
	Lot # (if known) _____	Comments _____

EO RANKING

CURRENT CONDITION of the plant's immediate habitat. Is the habitat pristine or degraded? Note any disturbances within the plant habitat (check off, describe below to what degree these have altered natural ecological processes, or if they have any negative or positive effects on the population). Note how the disturbance(s) may influence success of the plant at the site.

<input type="checkbox"/> Logging-most recently ~ _____ yrs ago	<input type="checkbox"/> Fire	<input type="checkbox"/> Dumping or mining
<input type="checkbox"/> Agriculture / Pasture	<input type="checkbox"/> Impoundment	<input type="checkbox"/> ORV / Vehicle disturbance
<input type="checkbox"/> Animal effects (insect outbreaks, browsing)	<input type="checkbox"/> Exotic plants	<input type="checkbox"/> Trails / Roads
<input type="checkbox"/> Wind or ice damage	<input type="checkbox"/> Erosion	<input type="checkbox"/> Other
<input type="checkbox"/> No Evidence of disturbance		

Describe: _____

Condition **A** – No apparent signs of human disturbance (or long enough ago that effects are no longer visible or are extremely minor)

Rank **B** – Some signs of human disturbance or degradation, but habitat generally intact

C – Signs of human disturbance or degradation, and habitat compromised in some significant way

D – Highly disturbed (multiple impacts causing habitat to be drastically altered)

Other / Habitat disturbed, consistent with needs of species / **Explain:** _____

SIZE / QUALITY: How large is this population relative to typical populations of this species? _____

Does it appear to be capable of maintaining itself if its habitat remains basically intact? Yes No

Size / Quality Rank **A** – Excellent **B** – Good **C** – Fair **D** – Poor

Comments: _____

LANDSCAPE CONTEXT of the area surrounding the plant habitat. What land uses and/or natural communities surround the observed area? Is the habitat fragmented? To what degree can the population be protected from effects of adjacent land uses?

Comments: _____

Landscape **A** – Population surrounded by > = 1000 acres of undisturbed landscape

Rank **B** – Population surrounded by fairly intact landscape, though there may be cuts nearby

C – Population surrounded by fragmented forest or rural landscape

D – Surrounding area developed

Other / Explain: _____

OVERALL RANK for EO based on your experience **A** – Excellent **B** – Good **C** – Fair **D** – Poor **E** – Extant

Comments: _____

MNAP reviewed / verified rank **A** – Excellent **B** – Good **C** – Fair **D** – Poor **E** – Extant

Date: _____ Reviewer: _____ Rationale: _____