SPECIAL PLANT SURVEY FORM

Site name: | Survey site:

Quad name: | Quad code:

County: | Town:

Date: | Surveyor(s): | Sourcecode: F

Plant Name:	New ☐ Update ☐	Occurrence #:

GPS data:

Directions:

Number of individuals:

Population structure:

_____ % Vegetative

_____ % Reproductive

Phenology:
- ☐ In leaf
- ☐ In bud
- ☐ In flower
- ☐ Immature fruit
- ☐ Mature fruit
- ☐ Seed dispersing
- ☐ Dormant

Population area:
- ☐ 1 square yard
- ☐ 1 - 5 square yards
- ☐ 5-100 square yards
- ☐ 100 square yards to 2 acres
- ☐ 2 acres+

_____ Est. area of **potential** habitat

Vigor:
- ☐ Very feeble
- ☐ Feeble
- ☐ Normal
- ☐ Vigorous
- ☐ Exceptionally vigorous

Comments:

Type of reproduction: ☐ sexual ☐ asexual	Explain:
Evidence of disease, predation, etc. ☐ yes ☐ no	Explain:

Aspect
- ☐ N ☐ NE
- ☐ E ☐ NW
- ☐ S ☐ SE
- ☐ W ☐ SW
- ☐ Flat or n/a

% Slope
- ☐ Flat
- ☐ 0-10
- ☐ 10-35
- ☐ 35+
- ☐ Vertical

Light
- ☐ Open
- ☐ Partial
- ☐ Filtered
- ☐ Shade

Topographic position
- ☐ Crest
- ☐ Upper slope
- ☐ Mid-slope
- ☐ Lower-slope
- ☐ Bottom

Moisture
- ☐ Inundated
- ☐ Saturated (wet-mesic)
- ☐ Moist (mesic)
- ☐ Dry-mesic
- ☐ Dry (xeric)

Elevation: minimum _____ft maximum _____ft

Associated natural community/plant community:

Associated plant species:

Substrate/soil type:

Threats to population:	
Conservation / management / research needs:	

Photograph taken? ☐ yes ☐ no
Specimen collected? ☐ yes ☐ no Collection #: _____ Repository:

Other species occurring at the site:
Do other members of this genus occur at this site? ☐ yes ☐ no

If yes, please complete below:
Hybridization? ☐ yes ☐ no
Identification questions? ☐ yes ☐ no
Explain:

RANKING

1. SIZE / QUALITY:
How large is this population relative to typical populations of the species? Does it appear to be viable, i.e. capable of maintaining itself if its habitat remains basically intact?

- **Size / Quality Rank:** **A** excellent **B** good **C** fair **D** poor

2. CURRENT CONDITION of the plant habitat:
Is the habitat supporting the EO pristine or degraded? Note any natural and anthropogenic disturbance within the plant habitat (check off, then describe extent and how recent below):

- ❑ Logging – most recently c. _____ yrs ago
- ❑ Agriculture / pasture
- ❑ Fire
- ❑ Wind or ice damage
- ❑ Impoundment
- ❑ Exotic plants
- ❑ Animal effects (insect outbreaks, browsing)
- ❑ Erosion
- ❑ Dumping or Mining
- ❑ ORV / vehicle disturbance
- ❑ Trails / roads
- ❑ other

Describe the disturbance(s): to what degree have these altered natural ecological processes, or do they appear to have any negative or positive effects on the population?

- **Condition Rank:**

1 No apparent signs of human disturbance (human use may have occurred, but long enough ago that effects are no longer visible or are extremely minor).

2 Some signs of human disturbance or degradation, but habitat generally intact.

3 Highly disturbed.

3. LANDSCAPE CONTEXT of the area surrounding the plant habitat:

- What land uses and/or natural communities surround the observed area? To what degree can the population be protected from effects of adjacent land uses?

- **Landscape Rank:**

1 Population surrounded by >= 1000 acres of undisturbed landscape.

2 Population surrounded by fairly intact landscape, though there may be cuts nearby.

3 Population surrounded by fragmented forest or rural landscape.

4 Surrounding area developed.

4. OVERALL RANK for plant EO based on your experience: **A** excellent **B** good **C** fair **D** poor

5. MNAP reviewed/verified rank: **A** excellent **B** good **C** fair **D** poor

Describe rationale (EO rank specs in MNAP element files; general EO rank spec considerations, etc.):

Landowner name/address for the entire population:	Landowner phone:
	Lot number (if known):
	Tax map (if known):
	Landowner aware of plant? ☐ yes ☐ no
	Landowner protecting plant? ☐ yes ☐ no
	Landowner comments:

Cross section of topography (habitat). Include scale, direction, element position.

Feature Map: It is very important to include a map indicating the precise location and extent of the feature. Please follow these instructions carefully when attaching your feature map.
1. Attach a photocopy of the appropriate part of a USGS topographic map (1:24,000 scale if available) and write the map scale on the map. Please do NOT enlarge or reduce the map.
2. Indicate on the map the exact location of the observed feature(s):
a. When the observed feature is ***no larger than a pen point*** on the map (i.e. extremely small patches), place small points on the map indicating the location(s) of the patches, and label each point with an arrow so they are easily seen.
b. When the observed feature is ***larger than a pen point*** on the map: (1) Draw a **thin solid boundary line showing the extent of the observed area** of the feature. (2) Indicate disjunct patches (polygons) by drawing the boundary for each patch separately. (3) If the boundary follows the edge of a lake, stream, road, marsh or other feature, draw the boundary precisely in the edge of the feature. (4) Where needed, add notes to the map with instructions on where the boundary line is located or if the boundary is shared with other observations.
Note: One Feature Map may be submitted for multiple features (communities and plants), providing the map is clear and easy to read. If necessary, please attach multiple feature maps to ensure clarity.

Locational Uncertainty is a measure of how the location of an observed area on a map varies from its actual location on the ground.
1. Is your depiction of the observed area on the map within 6.25 meters (approximately 20 ft) of its actual location on the ground? **Yes** **No**
a. If no, estimate the uncertainty distance based on landmarks, elevation, etc. The location of the observed area on the map is accurate to within _____ meters kilometers feet miles of the actual location on the ground.
b. Is the observed area known to be located within some feature(s) on the map (e.g. wetland boundary, lake, road, trail, highway, contour lines)? **Yes** **No** (1)If yes, indicate the boundary within which the observed area is known to be located on the map with a **dashed lin**e, and if applicable, identify the feature.

Confidence Extent is a measure of how confident you are that the observed area represents the full extent of the feature.
Indicate whether there is confidence that the observed area represents the full extent of the feature at that location. **Yes** **No** **?** **Y** = Confident that the full extent is known **N** = Confident that the full extent is NOT known **?** = Uncertain whether the full extent is known

Shaded areas are to be filled out by Maine Natural Areas Program staff.

Please mail the completed field form and appropriate map to **Data Manager, Maine Natural Areas Program, 93 State House Station, Augusta, ME 04333**. Thank you!