NAME OF SPECIES: Chelidonium majus L.				
Synonyms: N/A				
Common Name: Greater Celadnine				
A. CURRENT STATUS AND DISTRIBUTION				
I. In Wisconsin?	1. YES NO			
	2. <u>Abundance</u> : Distribution presently limited to southern Wisconsin (1)			
	3. <u>Geographic Range</u> : Reported in 14 counties in Wisconsin (1).			
	4. <u>Habitat Invaded</u> : Southern mesic forest. Spread from urban areas into oak savanna and oak woodlands.			
	Disturbed Areas Undisturbed Areas E. Historical Status and Pate of Spread in Wisconsin: Farliest			
	5. <u>Historical Status and Rate of Spread in Wisconsin</u> : Earliest herbarium specimen was collected in 1915 in Sheboygan County (1).			
	6. <u>Proportion of potential range occupied</u> : Capable of expanding its local range. Not wide spread yet, but very persistent where found.			
II. Invasive in Similar Climate Zones	1. YES NO Swhere (include trends): Widely distributed in North America.			
III. Invasive in Similar Habitat	1. Upland 🗌 Wetland 🗌 Dune 📗 Prairie 🗌 Aquatic 🗌			
Types	Forest 🔀 Grassland 🗌 Bog 🔲 Fen 🔲 Swamp 🗌 Marsh 🗍 Lake 🗍 Stream 🔲 Other: Damp roadsides, waste			
IV. Habitat Effected	places, cliff faces, rocky habitats, hedges. 1. Soil types favored (e.g. sand, silt, clay, or combinations thereof,			
IV. Habitat Effected	pH): Moderately and poorly drained soil textures.			
	2. Conservation significance of threatened habitats:			
V. Native Habitat	1. <u>List countries and native habitat types</u> : Europe and the Mediterranean basin.			
VI. Legal Classification	1. <u>Listed by government entities?</u> No (2).			
	2. <u>Illegal to sell?</u> YES NO Notes:			
B. ESTABLISHMENT POTENTIAL AND LIFE HISTORY TRAITS				
I. Life History	1. <u>Type of plant</u> : Annual Biennial Monocarpic Perennial Herbaceous Perennial Vine Shrub Tree in the poppy family			
	2. <u>Time to Maturity</u> : Two growing seasons.			
	3. <u>Length of Seed Viability</u> : N/A			
	4. Methods of Reproduction: Asexual Sexual Please note abundance of propagules and and other important information: A two-flowered variety (naturally occurring mutation) has been documented.			
	5. <u>Hybridization potential</u> : Unknown.			
II. Climate	1. <u>Climate restrictions</u> : Restricted to temperate zones.			
	2. Effects of potential climate change: Unknown.			

III. Dispersal Potential	1. Pathways - Please check all that apply: Intentional: Ornamental Forage/Erosion control Medicine/Food: Brought to the United States as an herbal remedy for warts as early as 1672. Other: Unintentional: Bird Animal Vehicles/Human Wind Water Other: Garlic mustard control efforts may spread C. majus. 2. Distinguishing characteristics that aid in its survival and/or inhibit its control: Appears to spread from ornamental plantings into nearby woodlandsleaves are glabarous, and herbicide can run off the leaves.
IV. Ability to go Undetected	1. HIGH MEDIUM LOW
C. DAMAGE POTENTIAL	
I. Competitive Ability	1. Presence of Natural Enemies: Unknown.
	2. <u>Competition with native species</u> : Intense. Quickly displaces spring ephemeral forest herbs where locally abundant.
	3. Rate of Spread: HIGH(1-3 yrs) ☑ MEDIUM (4-6 yrs) ☐ LOW (7-10 yrs) ☐ Notes: Similar niche and spread as garlic mustard.
II. Environmental Effects	1. Alteration of ecosystem/community composition? YES NO Notes: Displaces native species, lowering species density and diversity.
	2. <u>Alteration of ecosystem/community structure?</u> YES NO Notes: Can form monotypic vegetation stands in some areas.
	3. <u>Alteration of ecosystem/community functions and processes?</u> YES NO Notes: N/A
	4. Allelopathic properties? YES NO Notes:
D. SOCIO-ECONOMIC Effects	
I. Positive aspects of the species to the economy/society:	Notes: Has been used as a medicinal herb.
II. Potential socio-economic effects of restricting use:	Notes: No known use in the nursery industry.
III. Direct and indirect effects :	Notes: N/A
IV. Increased cost to a sector:	Notes: N/A
V. Effects on human health:	Notes: Slightly toxic.
E. CONTROL AND PREVENTION	
I. Costs of Prevention (including education; please be as specific as possible):	Notes: N/A

F. REFERENCES USED:

II. Responsiveness to prevention efforts:	Notes: Can be treated concomitantly with garlic mustard.
III. Effective Control tactics:	Mechanical Biological Chemical S Times and uses: A 2% (active ingredient) solution of glyphosate applied to basal rosettes in spring will control C. majus.
IV. Minimum Effort:	Notes: Two growing seasons.
V. Costs of Control:	Notes: Variable and site-specific.
VI. Cost of prevention or control vs. Cost of allowing invasion to occur:	Notes: Early detection of control will save time and money.
VII. Non-Target Effects of Control:	Notes: Control may require the use of herbicides and additives.
VIII. Efficacy of monitoring:	Notes: If detected early, C. majus can be eradicated. Subsequent monitoring is usually necessary.
IX. Legal and landowner issues:	Notes:
 ☑ UW Herbarium ☐ WI DNR ☑ TNC ☑ Native Plant Conservation Alliance ☐ IPANE ☑ USDA Plants 	

Number	Reference
1	Wisconsin State Herbarium. 2007. WISFLORA: Wisconsin Vascular Plant Species
	(http://www.botany.wisc.edu/wisflora/). Dept. Botany, Univ. Wisconsin, Madison, WI 53706-1381 USA.
2	USDA, NRCS. 2007. The PLANTS Database (http://plants.usda.gov, 16 March 2007). National Plant Data
	Center, Baton Rouge, LA 70874-4490 USA.

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Approved and Completed Date: