NAME OF SPECIES: Artemisia abs	inthium L.			
Synonyms: Artemisia absinthium var. absinthium L.; Artemisia absinthium var. insipida Stechmann (2)				
Common Name: absintium, absinwormwood, absinth sagewort, con A. CURRENT STATUS AND DISTRI	ommon sagewort	Cultivars? YES NO		
I. In Wisconsin?	1. YES	NO 🗆		
	2. Abundance: low			
	3. <u>Geographic Range</u> : Sca (4).	ittered throughout WI, but mostly in NE		
		ed floodplain next to trail, upland RR ld mines, gravel pits, sides of trail, sandy disturbed Areas		
		te of Spread in Wisconsin: First reported inty. Total of 60 reports for WI – 27		
	6. Proportion of potential r	range occupied: low		
II. Invasive in Similar Climate	1. YES NO			
Zones	Where (include trends): A Midwest and Great Plains	s far north as Hudson's Bay, found in		
III. Invasive in Which Habitat		Dune Prairie Aquatic		
Types	Forest Grassland	Bog 🗌 Fen 🗌 Swamp 🗍		
		am Other: Primarily grows on		
		islands, pastures, perennial crops, and on		
IV. Habitat Affected		tivation – grows best in moist habitats(3). erated: Grows on a variety of soils from		
TV. Flasher / Weeted	gravels to clay loams (3).	erated. Grows of the valiety of soils from		
	2. Conservation significant	ce of threatened habitats: Absinth sage		
	· •	ative grasslands, pastures, and fields by		
	. 33	d other desirable plants. It generally		
		hly disturbed areas, such as old pastures, reat to well-established prairies (5).		
V. Native Range and Habitat		e habitat types: Eurasia, the Middle East,		
VI. Legal Classification	1. <u>Listed by government en</u> noxious weed; WA: Class (ntities? CO: B list (noxious weeds); ND: C noxious weed (1)		
	2. <u>Illegal to sell?</u> YES	NO 🛛		
	Notes:			
B. ESTABLISHMENT POTENTIAL A	ND LIFE HISTORY TRAITS			
I. Life History	1. <u>Type of plant</u> : Annual ☐ Herbaceous Perennial ☒	Vine Shrub Tree		
		s: rosettes form by end of first growing		
		produced by mid-July; flowers July		
	through September (3).	: 3-4 years, viable seeds have been		
		urbed prairie grasslands in North Dakota		
	4. Methods of Reproduction	on: Asexual 🗌 Sexual 🛚		
	Notes: Is a prolific seed pro	oducer (3). Can be propagated by		

	dividing the roots or from semi-hardwood cuttings (6).
	5. <u>Hybridization potential</u> :
II. Climate	1. <u>Climate restrictions</u> : USDA Zones 4-9 (6); Short lived in humid climates. May deteriorate and rot out in center during rainy, humid summers (6)
	2. <u>Effects of potential climate change</u> :
III. Dispersal Potential	1. <u>Pathways - Please check all that apply</u> :
	Unintentional: Bird ☐ Animal ☒ Vehicles/Human ☐ Wind ☒ Water ☒ Other: In hay (3)
	Intentional: Ornamental Forage/Erosion control Medicine/Food: Other: rock gardens, borders (6); Seeds and plants often sold and planting in gardens (7).
	2. <u>Distinguishing characteristics that aid in its survival and/or inhibit its control</u> : Seeds are small and easily scattered (7)
IV. Ability to go Undetected	1. HIGH MEDIUM LOW LOW
C. DAMAGE POTENTIAL	
I. Competitive Ability	1. <u>Presence of Natural Enemies</u> :
	2. <u>Competition with native species</u> : Medium/Low significance – Allelopathic; prevents germination of some species, but in general studies of its effect on the germination of other plants are inconclusive (7).
	2. Rate of Spread: -changes in relative dominance over time:
	-change in acreage over time: HIGH(1-3 yrs)
II. Environmental Effects	1. Alteration of ecosystem/community composition? YES NO Notes: Low significance – Easily becomes established in disturbed areas and may restrict establishment of native species in recovering prairies (7).
	2. Alteration of ecosystem/community structure? YES NO Notes: Low significance – Colonizes open, disturbed sites and so may create an herbaceous layer more quickly following disturbance than if only native plants were establishing in a recovering area (7). 3. Alteration of ecosystem/community functions and processes? YES NO

	4. Allelopathic properties? YES NO Notes: contains the sesquiterpene lactone absinthin, can be toxic to other plants in its vicinity (3). Volatile emanations from the leaves completely prevented germination in wheat (Triticum triticale), and inhibited seedling growith in wheat, hoary cress (Cardaria draba), and common flax (Linum usitatissimums), whereas seedling growth on white mustard (Sinapis alba) was markedly stimulated.
D. SOCIO-ECONOMIC EFFECTS	
I. Positive aspects of the species to the economy/society:	Notes: Fair nutritional value for energy and protein; unpalatable to cattle – taints milk, horses, and listed as good for sheep; used medicinally (3). A. absinthium is the plant from which the psychedelic drink, absinthe, is made (6).
	Based on the 2011 WNA Economic Impact Survey, the following information was reported for this plant. Out of the 204 nurseries responding, 10 reported selling this plant. 9 reported it comprised <1% of their gross plant sales. 1 reported it comprised 1 – 2.9% of their gross plant sales. The estimated total dollar amount contributed to Wisconsin's economy by this plant is \$26,253. It ranks 32nd among the 63 taxa. The estimated wholesale value of plants in production is \$7,250. The majority of respondents said it took <6 months to produce this plant. The trend for the 2011 season was to remain unchanged (8).
II. Potential Socio-Economic	Positive:
Effects of Requiring Controls: III. Direct and indirect Socio- Economic Effects of Plant:	Negative: Notes:
IV. Increased Costs to Sectors Caused by the Plant:	Notes:
V. Effects on human health:	Notes: Used medicinallly (3). Any part of the plant is very toxic (6).
VI. Potential socio-economic effects of restricting use:	Positive: Negative: Nurseries/online distributors of seeds/seedlings would have to deplete stock.
E. CONTROL AND PREVENTION	
I. Costs of Prevention (please be as specific as possible):	Notes:
II. Responsiveness to prevention efforts:	Notes:
III. Effective Control tactics: (provide only basic info)	Mechanical Biological Chemical Simes and uses: It is easily controlled by herbicides and/or vigorous competition from grasses. Picloram provides the most rapid and complete control of absinth wormwood, but dicamba, 2, 4-D, and glyphosate are also effective (3).
IV. Costs of Control:	Notes: Cost of herbicide and labor for spraying/pulling
V. Cost of prevention or control vs. Cost of allowing invasion to occur:	Notes:

VI. Non-Target Effects of Control:	Notes:
VII. Efficacy of monitoring:	Notes: Monitoring is not considered necessary as the problem patches of A. absinthium are relatively small and highly localized, and abundance seems to be stable or decreasing (7)
VIII. Legal and landowner issues:	Notes:
F. HYBRIDS AND CULTIVARS AND	VARIETIES
I. Known hybrids?	Name of hybrid:
YES NO	Names of hybrid cultivars: Artemisia X 'Powis Castle' [A. absinthium x A. arborescens] (6)
II. Species cultivars and varieties	Names of cultivars, varieties and any information about the invasive behaviors of each:
	'Lambrook Silver' (6)
	Of ten nursery survey respondents growing the plant, three provided cultivar information. Two are growing Silver Mound and one each are growing Limelight, Lambrook Mist, and Lambrook Silver. None reported on invasiveness of <i>A. wormwort</i> . (8)
	Notes:

G.	REFERENCES USED:
\boxtimes	UW Herbarium (Madison or Stevens Point)
	WI DNR
\boxtimes	Bugwood (Element Stewardship Abstracts
	Native Plant Conservation Alliance
	IPANE
\boxtimes	USDA Plants

Number	Reference
1	USDA, NRCS. 2011. The PLANTS Database (http://plants.usda.gov , 13 December 2011). National Plant Data Team, Greensboro, NC 27401-4901 USA.
2	Retrieved [12/13/2011], from the Integrated Taxonomic Information System on-line database http://www.itis.gov/servlet/SingleRpt/SingleRpt?search_topic=TSN&search_value=35445
3	Carey, Jennifer H. 1994. Artemisia absinthium. In: Fire Effects Information System, [Online]. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (Producer). Available: http://www.fs.fed.us/database/feis/ [2011, December 13].
4	Robert W. Freckmann Herbarium, University of Wisconsin-Stevens Point. Wisconsin Plants web site (http://wisplants.uwsp.edu)
5	Evans, J.E.; and N. Eckardt, Global Invasive Species Team, The Nature Conservancy. http://wiki.bugwood.org/Artemisia_absinthium
6	FloriData. Tallahassee, Florida, USA. http://www.floridata.com/ref/a/arte_abs.cfm
7	NatureServe. 2011. NatureServe Explorer: An online encyclopedia of life [web application]. Version 7.1. NatureServe, Arlington, Virginia. Available http://www.natureserve.org/explorer. (Accessed: December 13, 2011).
8	Wiegrefe, Susan. 2011. Wisconsin Nursery Association Survey of the Economic impact of potentially invasive species in Wisconsin

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