NAME OF SPECIES: Oplismenus hirtellus_(L.) P. Beauv. (1)				
Synonyms: Oplismenus hirtellus ssp. undulatifolius (Ard.) U. Scholz, Oplismenus undulatifolius (Ard.) Beauv., Panicum				
undulatifolium Ard. (2)				
Common Name: basketgrass (1) or wavyleaf basketgrass Cultivars? YES NO			YES NO	
(2)	, J			
A. CURRENT STATUS AND DISTRI	BUTION			
I. In Wisconsin?	1. YES	NO		
	2. Abundance:			
	3. <u>Geographic Range</u> : No	t currently knov	vn in Wl	
	4. <u>Habitat Invaded</u> : In Mar			
	ability to invade both distu	irbed areas as w	vell as mature forests that	
	have no disturbance (3).			
	Disturbed Areas Undisturbed Areas			
	5. <u>Historical Status and Rate of Spread in Wisconsin</u> :			
	6. Proportion of potential i			
	currently only found in Ma about 30% of the U.S. is su			
	southeastern Wisconsin. T			
	USDA Plant Hardiness Zor			
	annual precipitation, and t	· ·		
	tropical rainforest, tropical	savannah, med	literranean, humid	
	subtropical, marine west coast, humid continental warm summers,			
	and humid continental co			
II. Invasive in Similar Climate	1. YES 🔀	NO		
III. Invasive in Which Habitat	Where (include trends): N			
Types	1. Upland			
Types	Marsh Lake Strea			
	The species invades temper		ents and is typically founc	
	in full canopy hardwood fo		3 .	
	zones. It has been recorded in coastal plain, piedmont, and			
	montane regions (6).			
IV. Habitat Affected	1. Soil types favored or tole			
	of pH and is primarily four			
	2. <u>Conservation significand</u> known to spread rapidly the			
	and crowd out all herbace			
V. Native Range and Habitat	1. List countries and native		3 ()	
	Europe and east to India, I	9 .		
VI. Legal Classification	1. Listed by government e			
	2. <u>Illegal to sell?</u> YES	NO 🛛		
	Notes:			
B. ESTABLISHMENT POTENTIAL AND LIFE HISTORY TRAITS				
I. Life History	1. Type of plant: Annual		Monocarpic Perennial	
	Herbaceous Perennial 🛛			
	2. <u>Time to Maturity</u> : Typica	•		
	and then seedlings emerg	e in late spring.	Seeds can germinate	

Seed Viability: Further investigation into the seed bank viability of the species needs to be completed; however, it is though that the species has a seed dormancy of up to five years, though this could be affected by factors such as weathering and oxygen [7]. 4. Methods of Reproduction: Asexual Sexual Notes: The species is able to regenerate both vegetatively, through stolons, and from seeds. Stands of the species can produce upwards of 1,000 seeds per m² per year [4]. 5. Hybridization potential: 1. Climate		within a few days and after about 4 months, the seedling is mature enough to produce viable seeds. However, plants that are
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2. <u>Competition with native species</u> : The ability of the plant to reproduce vegetatively as well as ability to invade undisturbed areas and shade out other plant species makes it very competitive		
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areas and shade out other plant species makes it very competitive		
(3, T).		
2. Rate of Spread:		, ,
-changes in relative dominance over time:		
-change in acreage over time:		-change in acreage over time:
HIGH(1-3 yrs)		
II Environmental Effects 1 Alteration of ecosystem/community composition?	II. Environmental Effects	1. <u>Alteration of ecosystem/community composition?</u> YES ☑ NO □
ii. Environmentali Enects 1. <u>Atteration of ecosystem/community composition:</u>		YES NO

	Notes: Once the species has established, it crowds out native herbaceous plant species and prevents tree seedling establishment, eventually forming a monoculture of the species (4, 8). However, this species is fairly new in the U.S., therefore, its long-term ecological impacts are still relatively unknown (10).
	2. Alteration of ecosystem/community structure?
	YES NO Notes: No Notes: Once the species becomes established, it prevents the regeneration of native hardwood tree species. Furthermore, it forms a dense layer in the forest understory and crowds out native herbaceous plants (4). However, this species is fairly new in the U.S., therefore, its long-term ecological impacts are still relatively unknown (10).
	3. Alteration of ecosystem/community functions and processes? YES NO Notes: There is no evidence that the species alters the physical properties of the ecosystem (4). However, this species is fairly new in the U.S., therefore, its long-term ecological impacts are still relatively unknown (10).
	4. <u>Allelopathic properties?</u> YES NO Notes: Although no studies have been conducted, from observations, other plants appear to grow with the species (i.e. <i>Microstegium vimineum</i>) and there is no evidence that any member of the <i>Oplismenus</i> genus is allelopathic (4).
D. SOCIO-ECONOMIC EFFECTS	
I. Positive aspects of the species to the economy/society:	Notes:
II. Potential Socio-Economic Effects of Requiring Controls:	Positive: Negative:
III. Direct and indirect Socio- Economic Effects of Plant :	Notes: Some people do not want to visit infested areas and do activities such as dog walking, moutain biking, and hunting because the seeds stick to clothing, pets, and equipment. In Virginia, the species has been found in lawns as well (4).
IV. Increased Costs to Sectors Caused by the Plant::	Notes: n/a
V. Effects on human health:	Notes: None
VI. Potential socio-economic effects of restricting use:	Positive: Negative:
E. CONTROL AND PREVENTION	
I. Costs of Prevention (please be as specific as possible):	Notes: Education about the species and how to identify it is the primary prevention cost. Also, preventing the spread of the species is most effective by avoiding or closing off infested areas when the sticky seeds are present. Duct tape can be used to remove the seeds from clothing, but the tape must be destroyed (i.e., burned) to prevent the possibility of seed spread (9).
II. Responsiveness to prevention efforts:	Notes: Because the species rapidly spreads, early detection and rapid response is necessary in preventing monocultures of large populations and in preventing the spread to new areas. If populations are detected and controlled quickly, the possibility for

	eradication exists (10).
III. Effective Control tactics:	Mechanical ⊠ Biological □ Chemical ⊠
(provide only basic info)	Times and uses: Because the species has shallow roots, it can be
(provide any source and)	easily hand pulled, which is thought to be more effective than
	chemical treatment. Chemical treatment includes an application of
	1-2% solution of glyphosate. Roundup works well late in the year,
	while a grass-specific herbicide is more effective early in the season
	(5, 7).
IV. Costs of Control:	Notes: Low, but it depends on the size of the population – large
	stands will require more people and hours to hand-pull and/or
	treat the population. Also, because the seeds can stick to almost
	anything, it is suggested that control efforts use separate clothing
	and gear when working in infested areas, then decontaminating
	before using those clothes and gear again (7). Finally, because O .
	hirtellus ssp. undulatifolius can form dense monocultures, after it
	has been eliminated, revegetation work will need to be completed
	to ensure other invasive species do not invade the newly cleared
	area.
V. Cost of prevention or control	Notes: O. hirtellus ssp. undulatifolius is not present in WI and a
vs. Cost of allowing invasion to	relatively new invasive species in the United States. As a result,
occur:	early implementation of prevention and control methods would
	result in lower eradication overall control costs.
VI. Non-Target Effects of	Notes: Because glyphosate is a broad-spectrum herbicide, it can kill
Control:	other native species growing with <i>O. hirtellus ssp. undulatifolius</i> .
	Likewise, a grass-specific herbicide is not specific to <i>O. hirtellus ssp.</i>
	undulatifolius and can kill surrounding non-target graminoid
) (II = 555	species.
VII. Efficacy of monitoring:	Notes: The species is very similar in appearance to Japanese
	stiltgrass (<i>Microstegium vimineum</i>), but it is possible to differentiate between the two species in the field (8). Furthermore, any
	sightings of the species should be reported immediately since the
	species is not present in WI.
VIII. Legal and landowner issues:	
VIII. Legar arra larra ovvi ler issues.	necessary.
F. HYBRIDS AND CULTIVARS AND	
I. Known hybrids?	Name of hybrid:
YES □ NO ⊠	Names of hybrid cultivars:
II. Species cultivars and varieties	Names of cultivars, varieties and any information about the
	invasive behaviors of each:
	The variegated pink, green and white form, sold as <i>O. hirtellus</i>
	'Variegatus' (Ribbon grass or basket grass), is an ornamental for
	hanging baskets. Under greenhouse conditions, it is has
	spontaneously reverted to an all-green, wavy-leafed, aggressive
	form, though this reversion is questioned (11, 12, 6).
	Oplismenus hirtellus ssp. undulatifolius is not known to be
	cultivated. However, the closely related taxon, <i>O. hirtellus</i> ssp.
	varigatus, is sold as an ornamental grass by the horticulture

industry, though this horticultural variety appears to be a hybrid and is believed to be sterile (4).

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

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Reviewer(s) and date reviewed: Nisa Karimi, 4-30-2013

Approved and Completed Date: Nisa Karimi, 05-29-2013