	in ante (Dume Course) C. Dom (1)
NAME OF SPECIES: Lespedeza cuneata (Dum.Cours.) G.Don (1)	
Synonyms: • Lespedeza juncea (l	f.) Pers. var. sericea Forbes & Hemsl.
 Lespedeza sericea (Thunb.) Miq. (1). Aspalathus cuneata D. Don (3).
 Anthyllis cuneata Dum. Co 	urs. (basionym)
Hedysarum sericeum Thur	ıb.
 Lespedeza juncea f. latissin 	na Matsum. [= Lespedeza cuneata var. serpens]
Lespedeza juncea subsp. se	ericea (Maxim.) Steenis
Lespedeza juncea var. serie	ea Maxim.
Lespedeza latissima (Matsu	im.) Nakai [= Lespedeza cuneata var. serpens]
Lespedeza serpens Nakai [= Lespedeza cuneata var. serpensj (6)
Common Namer Chinese lossed	r_{22} corises sills bush dever (1). Chippes bush dever (4)
	PLITION
A. CORRENT STATUS AND DISTRI	BOTION
I. In Wisconsin?	1. YES 🛛 NO 🗌
	2. <u>Abundance</u> : One occurrence reported from Green County,
	1956. (1) This species is probably under-reported.
	3. <u>Geographic Range</u> : Green County, south of Brodhead.
	4. <u>Habitat Invaded</u> : Roadside (1).
	Disturbed Areas 🔟 Undisturbed Areas 🔄
	5. <u>Historical Status and Rate of Spread in Wisconsin</u> : First reported
	in 1956 (1). Recorded again in 2006 in Waukesha County.
	6. <u>Proportion of potential range occupied</u> :
II. Invasive in Similar Climate	1. YES 🛛 NO 🗌
Zones	<u>Where (include trends)</u> : Chinese lespedeza now occurs from
	southern New England and Ontario, west to southern Wisconsin,
	Iowa and Nebraska, and south to Texas and Florida. A "range of
	adaptation" was identified from southern New Jersey, west
	through the southern portions of Pennsylvania, Onio, Indiana, and
	Illinois, into eastern Kansas, and south to eastern Texas and Fiorida.
	While this range was originally meant to indicate where Chinese
	describe a general range where it is likely to be investive (4). In
	Belly Country, IA, species is spreading rapidly and and is very
	difficult to control (9)
III. Invasivo in Similar Habitat	annound to control. (9)
	\square I. Opiand \square wettand \square Durie \square Praine \square Aquatic \square
Types	$March \square Laka \square Stroam \square Other: open woodlands$
	thickets stream valleys around lakes and ponds waste places and
	roadsides prairies and prairie rempants tallgrass prairie within oak
	savanna abandoned pastures meadows and pine savannas (4)
IV Habitat Effected	1 Soil types favored or tolerated. Chinese lespedeza grows on a
	variety of soil types with soil textures ranging from clays to sands
	Roots can penetrate heavy clay subsoils and it will grow over
	hardpan, provided there is a minimum 18 inches (46 cm) of
	permeable surface soil for root development. Chinese lespedeza
	will also grow in deep sands that are well supplied with organic
	matter. It is also apparently somewhat flood tolerant, especially in
	winter and if flood waters are cool and flowing.
	Deep, well-developed root systems allow serice a lespedeza to grow
	on droughty or infertile sites, and it grows relatively well on

	infertile soils where many other plants do not thrive and is
	probably less competitive on fertile soils. Sercia lespedeza grows on
	soils ranging from strongly acid to alkaline (pH ranges of 4.0 - 6.5).
	Sericea lespedeza is relatively tolerant of high levels of soil-soluble
	aluminum, typical in acidic soils. It appears that aluminum binds
	with phosphate groups in the DNA of growing root tips.
	accumulating on root cell walls. Sericea lespedeza thereby can
	avoid uptake of aluminum at levels that might otherwise be toxic
	(4) Can grow in very eroded and sterile soils (2)
	2 Conservation significance of threatened babitats: In Kansas and
	Oklahoma lespedeza has spread to Conservation Reserve Program
	(CRP) lands from nearby rangelands that used grass seed mixes
	containing lespedeza (4) Some of the prairies and grasslands in
	W that could be threatened by bound's tongue are ranked G2-G3
	and $S1-S3$ Some of the savannas and woodlands in W/I that could
	be threatened by bound's tongue are ranked G1-G2 and S1-S2 (8)
V Nativo Habitat	1 List countries and native habitat types: Native in Asia: China:
	In <u>List countries and native habitat types</u> . Native in Asia. China,
	Myanmar: Indonesia Java: Panua New Guinea: Philippines: Also in
	Australia (6) In its nativo rango in Asia, it grows on ovposod
	around and arassy lowlands (2)
V/L Logal Classification	ground and grassy lowiands (5).
VI. Legal Classification	1. <u>Listed by government entities?</u> Listed as noxious weeds in CO,
	KA, MO, NE, OK (5).
	2. Illegal to sell? YES 🛛 NO 🗌
	Notes: Colorado, Kansas (5).
B. ESTABLISHMENT POTENTIAL AND LIFE HISTORY TRAITS	
I. Life History	1. <u>Type of plant</u> : Annual Biennial Monocarpic Perennial
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	Young seedlings are relatively cold tolerant and can withstand freezes severe enough to kill early-season sprouts on established plants. A late-spring freeze can damage plants once winter- dormant buds have commenced growth and are exposed. Best growth in habitats with greater than 30 inches precipitation per
	year. (4)
	2. Effects of potential climate change:
III. Dispersal Potential	I. <u>Pathways - Please check all that apply</u> :
	Unintentional: Bird Animal Vehicles/Human Wind Water Other: Haying activities will spread Chinese seed, and livestock can disperse seed in manure. It has spread westward in Kansas and Oklahoma on Conservation Reserve Program (CRP) lands via contaminated native grass seed mixtures collected from Chinese lespedeza-infested rangelands. No Studies have been done to determine if viable seed is spread by birds, wind or water. (4)
	Intentional: Ornamental Forage/Erosion control Medicine/Food: Other: Chinese lespedeza is used for hay, pasture, erosion control, cover crops, and wildlife food and cover. Commercially available cultivars adapted to the northeast include 'Interstate', 'Serala', 'Caricea', and 'Appalow' (Japan). 'Appalow' is a prostrate form developed at the Ouicksand Plant Materials Center in Kentucky. (5) Seed sold for wildlife plantings (7).
	2. Distinguishing characteristics that aid in its survival and/or inhibit its control: After Chinese lespedeza has crowded out native species, it is able to create a highly productive seed bank. It has a deep tap root and extensive root system, and can tolerate drought, shallow and low fertility soils. Young seedlings can survive freezes that are cold enough to kill other plants, however, this ability is short-lived and decreases as the plant matures. (2) (4).
IV. Ability to go Undetected	
	Notes: Plants are difficult to identify in the first year of growth and
C. DAMAGE POTENTIAL	
I. Competitive Ability	1. Presence of Natural Enemies: Preliminary investigations indicate
	potential for lespedeza webworm (Tetralopha scortealis) as a biological control agent. (4)
	2. <u>Competition with native species</u> : At the Hempstead Plains Grassland, Long Island, New York, invasive sericea lespedeza and Cypress spurge (Euphorbia cyparissias) are threatening to displace "the best population" of the federeally endangered sandplain false foxglove (Agalinis acuta). Sandplain false foxglove is also state listed as endangered in New York, Massachusetts, Maryland, Connecticut, and Rhode Island. (4)
	-changes in relative dominance over time:

	-change in acreage over time: HIGH(1-3 yrs) MEDIUM (4-6 yrs) LOW (7-10 yrs) Notes: It was initially planted in the U.S. in 1896 by the North Carolina Agricultural Experiment Station, and has since been widely planted in the U.S. Stands of sericea lespedeza, planted in research plots in coal mine overburden at a rate 9 kilograms of seed per hectare, formed 100% aerial cover within 3 years. (4)
II. Environmental Effects	1. <u>Alteration of ecosystem/community composition?</u>
	YES NO Notes: No Notes: Communities dominated by sericea lespedeza have fewer native plant and macroinvertebrate species. In a study of sericea lespedeza invasion of tallgrass prairie "clearings" within a Kansas oak savanna researchers found sericea lespedeza had a negative effect on native vegetation. Stem densities in invaded plots ranged from 141/m2 to 466/m2, with a mean value of 352/m2. Invasion resulted in reduced native plant cover and species diversity. Native grasses represented 5% and native forbs 10% of canopy coverage in invaded plots, compared with 79% and 28%, respectively, where sericea lespedeza was not present. Invaded plots contained 4 species of native grasses and 8 species of native forbs, while uninvaded plots contained 12 grass and 24 forb species. In addition to effects on native plants, sericea lespedeza invasion
	reduced macroinvertebrate diversity from 65 species representing
	30 families, to 24 species and 14 families. (4)
	2. <u>Alteration of ecosystem/community structure?</u> YES 🛛 NO 🗌
	Notes: Forms a dense montypic herb layer which can prevent forest regeneration (7).
	The tall, upright growth habit, multiple branches, and dense foliage typical of established sericea lespedeza plants confers considerable competitive advantage for light in grassland habitats. Cool-season grasses are more likely to withstand shading from invasive sericea lespedeza than warm-season grasses. (4)
	3. Alteration of ecosystem/community functions and processes?
	YES X NO Notes: Sericea lespedeza-dominated areas (>60% coverage) exhibited significantly (p<0.01) less woody plant encroachment than areas dominated by grasses. Inhibition of woody plant succession in sericea lespedeza-dominated areas was attributed, in part, to constraints on woody plant seed germination due to substantial sericea lespedeza leaf litter. (4)
	4. <u>Allelopathic properties?</u> YES 🔀 NO 📋
	supress forest regeneration. (4) (7)
D. SOCIO-ECONOMIC Effects	
I. Positive aspects of the species to the economy/society:	Notes: Sericea lespedeza has been used for revegetation, erosion control, and soil improvement in many areas of the eastern U.S. It has been planted on disturbed soils in areas such as highway embankments, utility rights-of-way, and disposal areas associated with construction sites. It has been used for reclamation of surface coal mine sites in the eastern U.S. For reveaetation purposes.

	sericea lespedeza can provide long-term cover with little to no maintenance requirements. Sericea lespedeza has also been planted as a cover species around borders of agricultural fields, and it is considered a good honey plant. (4) Lespedeza is used for the following medical conditions: Ache(Tooth); Alexiteric; Ascariasis; Bite(Dog); Bite(Snake); Caries; Dysentery; Enteritis; Hernia; Kidney; Marasmus; Refrigerant; Skin; Sore; Testicle; Tuberculosis; Vermifuge. (6)
II. Potential socio-economic effects of requiring controls: Positive:	Notes: Not sold in the upper Midwest.
Negative:	Natao Tanaina and mara dia ang ƙwatang alant walaritan
economic effects of plant:	notes: Tanning and woodiness of mature plant make it an undesirable forage crop. Because it is generally not palatable to cattle for much of the growing season and is of doubtful worth to wildlife, invasion can degrade forage quality in rangelands, pastures, and other plant communities. (4)
IV. Increased cost to sectors caused by the plant:	Notes: Chinese lespedeza invasion can degrade forage quality in rangelands, and pastures (4), which may increase costs to farmers and ranchers to rotect forage.
V. Effects on human health:	Notes: NA
VI. Potential socio-economic effects of restricting use: Positive: Negative:	Notes: Positive: Prevent future expenses due to habitat loss and conservation failures. Negative: Use alternative species for erosion control.
E. CONTROL AND PREVENTION	
I. Costs of Prevention (including education; please be as specific as possible):	Notes:
II. Responsiveness to prevention efforts:	Notes: In the USA, the increasing range of L. cuneata can be slowed if it is no longer sold or planted as erosion control along highways or around reservoirs. Its use as a forage plant should also be halted. Listing of L. cuneata as a noxious species will facilitate stopping its spread. (3).
III. Effective Control tactics:	Mechanical A Biological Chemical A Times and uses: The best control method combines both mechanical and chemical treatments. Hand pulling is impractical due to its extensive perennial root system, but mowing plants at the flower bud stage for two to three consecutive years can significantly thin these stands as well as control further spread, this plant cannot survive with repeated defoliation. Mowing followed by an herbicide treatment is likely the most effective option for the successful control. Prescribed burning, by itself, does not control populations of L. cuneata. Spring burns actually stimulate resprouting and encourage seed dermination.

	then mowed for good control results.
	A 0.5% clopyralid solution is effective in controlling L. cuneata
	during the vegetative stage prior to branching or during flowering.
	In wet sites, a 2% solution of an aquatic-approved glyphosate
	formulation is effective from early summer until seed set (3)
IV. Minimum Effort:	Notes: Controlling populations of invasive sericea lespedeza will
	likely require multiple treatments, perhaps over several seasons.
	Established plants may sprout in response to mechanical damage
	of aboveground tissue. A seed bank may be present, with the
	potential for establishment of new seedlings for many subsequent
	years. (4)
V. Costs of Control:	Notes: Spot spraying 640 acres-\$2000, REmedy-\$15.75 per acre in
	July, Ally–\$10.25 per acre in September.
VI. Cost of prevention or control	Notes: Despite reports of invasive potential, escaped populations
vs. Cost of allowing invasion to	of sericea lespedeza may not always be strongly competitive.
occur:	Seedlings are weak and compete poorly with spring and summer
	weeds. Even once established, it can maintain at low population
	levels. (4)
VII. Non-Target Effects of	Notes: Initial impacts on non-target species from herbicide and
Control:	mowing/burning, but these have quick recovery (7)
VIII. Efficacy of monitoring:	Notes:
IX. Legal and landowner issues:	Notes: Still planted by some land owners because of its presence
	in grazing seed mixtures.

F. REFERENCES USED:

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9	Loren Lown, Polk County, IA. Land Stewardship Coordinator
10	Tomr Eddy from Kansas has done a lot of research on Lespedza and biocontrols

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