	Ohio Invasive Plant Assessment Protocol - 2015							
	Botanical Name: Common Name: Family Name: Assessment conduct	Lonicera tatarica Tartian honeysuckle Caprifoliaceae ted by: Allison Mastalerz, Theresa Culley	Step Outcome: Step Score: Step Outcome:	Continue 51 Invasive		Team Score	Notes	References
	Directions: Place an	"X" in the Score column next to the selected answer	to each of the four que	stions.				
	I. Is this plant known to occur in the state and listed as "noxious" on any federal or Ohio Department of Agriculture plant list? Has this plant demonstrated widespread dispersion and establishment (i.e. high numbers of individuals forming dense stands)		Yes. Place on invasive plant list, no further investigation needed. STOP No. Continue on to question 2.		x			
			Yes. Place on invasive plant list, no further investigation needed. STOP			X	Species occurs in all 5 regions, but information on individual populations size is lacking.	1,7
	in natural areas across two or more regions in Ohio?a		No. Continue on to q	uestion 3.		^	populations size is lacking.	
Step I	3. Does this plant form self-replicating populations outside of cultivation in Ohio and is it documented to alter the composition, structure, or normal processes or functions of a natural ecosystem?		Yes No Unknown			x		
			Yes			x		
	4. Is the plant listed	as invasive in an adjoining state or a nearby state						
	east of the Mississip	ppi within the USDA Plant Hardiness zones 5-6? ^{b,c}	No				PA, IN, MI, WV	1,2,3,4,5
	Unknown If the answer was yes for both questions 3 and 4, the plant is placed on the invasive plant list and no further research is needed. Stop here. If the answer is no for both questions 3 and 4, the plant							
	not considered invasive	e and no further investigation is warranted. Otherwise, p	Step II: Invasio	n Status				
		e appropriate numerical score (or "U") in the Score co	olumn next to the selec	ted answer to each of these 18 questions.				
	1. Current Invasion in Ohio - plant is not found in natural areas (0 pts.) - plant is found in natural areas but only because it persist from previous planting in that location (e.g. old home sites) (0 pts.) - plant is only expanding from sites of previous planting (1 pt.) - plant occurs in natural areas away from site of planting (3 pts.) - information unknown (U)					3		12
	 plant is naturalize plant is naturalize plant is naturalize plant is naturalize 	alized in any region of Ohio (0 pts.) ed in only one region in Ohio (1 pt.) ed in two regions in Ohio (2 pts.) ed in three regions in Ohio (3 pts.) ed in four regions in Ohio (4 pts.) ed in five regions in Ohio (5 pts.)				5		1,7,12
	 plant is not consider plant has been re plant has been re plant has been re plant has been re 	Regional/US Distribution - plant is not considered to be a problem in any other state (0 pts.) - plant has been reported as a widespread problem in another non-neighboring state within the USDA Plant Hardiness Zones 5-6 (1 pt.) - plant has been reported to be a widespread problem in 1-2 adjoining states (3 pts.) - plant has been reported to be a widespread problem in 3 or more adjoining states (5 pts.) - plant has been reported to be a widespread problem in similar habitat outside the US (1 pt.) - Information unknown (U)				5	CT, MA, PA, IN, MI, WV, NY	1,2,3,4,5,6
	Step II: Biological Characters							
	4. Vegetative Reproduction - no vegetative reproduction (0 pts.) - reproduces readily within the original site (1 pt.) - has runners or spreading rhizomes that root easily (3 pts.) - fragments easily and fragments can be easily dispersed (4 pts.) - has runners or spreading rhizomes that root easily AND fragments easily and fragments can be easily dispersed (5 pts.) - Information unknown (U)					U	Could potentially reproduce asexually by root suckering and layering, as Bell's honeysuckle has been documented to do, but data are lacking.	13
	5. Sexual Reproduct - no sexual reprodu - infrequent sexua						10: nroduces large quantities of shown hird-disnessed	

	 frequent sexual reproduction, but high variation among years in seed production (3 pts.) frequent sexual reproduction (one or more events per year) (5 pts.) Information unknown (U) 	5	10. produces large quantities of snowy, bird-dispersed berries.	10,13
	6. Number of Viable Seeds or Propagules per Plant - few (0-10) (1 pt.) - moderate (11-1,000) (3 pts.) - prolific (>1,000) (5 pts.) - Information unknown (U)	5	References indicate that species is a prolific seed producer, but numerical values were not found. 10: produces large quantities of showy, bird-dispersed berries.	10,12,13
	7. Flowering Period - one month or less per year (0 pts.) - two months (1 pt.) - three to five months (2 pts.) - longer than five months (3 pts.) - Information unknown (U)	1	Мау	12, 13
	8. Dispersal Ability - low potential for long-distance seed/propagule dispersal (>1km) (0 pts.) - medium potential for long-distance seed/propagule dispersal (3 pts.) - high potential for long-distance seed/propagule dispersal (5 pts.) - Information unknown (U)	5	Bird dispersed	10,12,13
	9. Generation Time - long juvenile period (>5 or more years for trees, 3 or more years for other growth forms) (0 pts.) - short juvenile period (<5 years for trees, <3 years for other forms) (3 pts.) - Information unknown (U)	U	No specific age was found for when species first fruits.	10,13
Step II	10. Establishment - unable to invade natural areas (0 pts.) - can only colonize certain habitat stages (e.g. early successional habitats) (1 pt.) - aggressively colonizes and establishes in edge habitats (3 pts.) - aggressively colonizes and establishes in intact and healthy natural areas (6 pts.) - Information unknown (U)	3		10,11,12,13
	Step II: Ecological Importance			
	11. Impact on Ecosystem Processes no known effect on ecosystem-level processes (0 pts.) moderate effects on ecosystem-level processes (e.g., changes in nutrient cycling)(3 pts.)			
	- causes long-term, substantial alterations in the ecosystem (e.g., changing fire regime of an area, changing hydrology of wetlands) (6 pts.)	3	8: Has been found to alter nutrient soil content. Also produces allelopathic compounds, which could alter ecosystem processes, but more evidence is needed.	8, 11,13
		0	produces allelopathic compounds, which could alter	8, 11,13
	 causes long-term, substantial alterations in the ecosystem (e.g., changing fire regime of an area, changing hydrology of wetlands) (6 pts.) 12. Impact on Rare Organisms no known negative impact on Ohio State-listed or federal-listed plants or animals (0 pts.) 	0	produces allelopathic compounds, which could alter ecosystem processes, but more evidence is needed. negatively affect nesting songbirds, herpe to fauna, spider richness, and invertebrate biomass. Cedar Waxwings and Baltimore Oreoles have been confirmed to eat berries which	9, 13
	 causes long-term, substantial alterations in the ecosystem (e.g., changing fire regime of an area, changing hydrology of wetlands) (6 pts.) 12. Impact on Rare Organisms no known negative impact on Ohio State-listed or federal-listed plants or animals (0 pts.) negatively impacts listed species, such as through displacement or interbreeding (3 pts.) 13. Impact on Native Animals 	0 3	produces allelopathic compounds, which could alter ecosystem processes, but more evidence is needed. negatively affect nesting songbirds, herpe to fauna, spider richness, and invertebrate biomass. Cedar Waxwings and	
	 causes long-term, substantial alterations in the ecosystem (e.g., changing fire regime of an area, changing hydrology of wetlands) (6 pts.) 12. Impact on Rare Organisms no known negative impact on Ohio State-listed or federal-listed plants or animals (0 pts.) negatively impacts listed species, such as through displacement or interbreeding (3 pts.) 13. Impact on Native Animals no known negative impact on animals (0 pts.) 	3 0	produces allelopathic compounds, which could alter ecosystem processes, but more evidence is needed. negatively affect nesting songbirds, herpe to fauna, spider richness, and invertebrate biomass. Cedar Waxwings and Baltimore Oreoles have been confirmed to eat berries which	

16. Population Density

- occurs only as small, sporadic populations or individuals (1 pt.)
- typically forms small, monospecific patches (3 pts.)
- is a dominant plant in area where population occurs (absolute cover 15-50%) (4 pts.)
- forms an extensive, monospecific stand (absolute cover >50%) (5 pts.)

17. Role in Succession in Natural Areas

- successional information is unknown (0 pts.)
- is an early successional species that temporarily invades a disturbed site but does not persist as the site matures (0 pts.)
- readily invades disturbed sites and persists, but does not interfere with succession (1 pt.)
- readily invades disturbed sites, persists and interferes with succession of native plants (4 pts.)

18. Number of Habitats Invaded

Forestlands: Floodplain forest, hemlock-hardwood forest, mixed mesophytic forest, beech-maple forest, oak-maple forest, oak-hickory forest.

Grasslands: Alvar*, beach-dune community*, bur oak savanna*, slough-grass-bluejoint prairie*, sand barren*, big bluestem prairie, little bluestem prairie (xeric limestone prairie*+),

Wetlands: Bog*, fen*, twigrush-wiregrass wet prairie*, marsh, buttonbush swamp, mixed shrub swamp, hemlock-hardwood swamp*, maple-ash-oak swamp, white pine-red maple

* Considered a rare plant community in Ohio by ODW's Biodiversity Database Program.

+ = xeric limestone prairies or cedar glades and post oak openings are unique to the Interior Low Plateau Region of Adams, Highland and Pike counties, and are not included in Schneider and Cochrane (1997).

- not found in any natural habitats in Ohio (0 pts.)
- only found in 1 broad category (1 pt.)
- found in 2 broad categories or 2 rare habitat types (3 pts.)
- found in 3 broad categories or 3 rare habitat types (4 pts.)
- found in 4 or more rare habitat types (5 pts.)

Forest edges, abandoned fields, pastures, roadsides and disturbed woodlands

Total Score: 51 Number of Unknowns: 2

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Outcome: Invasive

Total Points	Assessment Decision
4 or more U	Insufficient Data
0-34	Not Known to be Invasive
35-44	Pending Further Review
45-80	Invasive

Ref. 10: In New England, "With L. tatarica cover, it is possible

that suppression of advance regeneration could lead to changes in canopy composition or even failure of canopy tree

replacement and conversion of forests to more open canopies or shrublands." Formation of dense stands of species significantly alters species composition and structure.

9,12

10,12,13

10,12,13