

## Assessment of Non-native Plants in Florida's Natural Areas

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Assessment date 23 July 2015

	ient date 25 July 2015		
	Ipomoea setosa North	Answer	Score
1.01	Is the species highly domesticated?	n	0
1.02	Has the species become naturalised where grown?		
1.03	Does the species have weedy races?		
2.01	Species suited to Florida's USDA climate zones (0-low; 1-intermediate; 2-high) North Zone: suited to Zones 8, 9 Central Zone: suited to Zones 9, 10 South Zone: suited to Zone 10	2	
2.02	Quality of climate match data (0-low; 1-intermediate; 2-high)	1	
2.03	Broad climate suitability (environmental versatility)	у	1
2.04	Native or naturalized in habitats with periodic inundation  North Zone: mean annual precipitation 50-70 inches  Central Zone: mean annual precipitation 40-60 inches	У	
	South Zone: mean annual precipitation 40-60 inches		1
2.05	Does the species have a history of repeated introductions outside its natural range?	у	
3.01	Naturalized beyond native range	У	2
3.02	Garden/amenity/disturbance weed	unk	
3.03	Weed of agriculture	unk	
3.04	Environmental weed	unk	
3.05	Congeneric weed	у	2
4.01	Produces spines, thorns or burrs	у	1
4.02	Allelopathic	unk	0
4.03	Parasitic	n	0
4.04	Unpalatable to grazing animals	n	-1
4.05	Toxic to animals	unk	0
4.06	Host for recognised pests and pathogens	n	0
4.07	Causes allergies or is otherwise toxic to humans	unk	0
4.08	Creates a fire hazard in natural ecosystems	unk	0
4.09	Is a shade tolerant plant at some stage of its life cycle	n	0
4.10	Grows on infertile soils (oligotrophic, limerock, or excessively draining soils). North & Central Zones: infertile soils; South Zone: shallow limerock or Histisols.	unk	0
4.11	Climbing or smothering growth habit	unk	0
4.12	Forms dense thickets	unk	0
5.01	Aquatic	n	0
5.02	Grass	n	0
5.03	Nitrogen fixing woody plant	n	0
5.04	Geophyte	n	0
6.01	Evidence of substantial reproductive failure in native habitat	n	0
6.02	Produces viable seed	у	1

	Risk Assessment Results	Lo	w
	Implemented Pacific Second Screening	n	0
	Total Score	(	)
8.05		?	
8.04	Tolerates, or benefits from, mutilation or cultivation	unk	-1
8.03	Well controlled by herbicides	unk	1
8.02	Evidence that a persistent propagule bank is formed (>1 yr)	unk	-1
8.01	Prolific seed production	unk	-1
7.08	Propagules dispersed by other animals (internally)		
7.07	Propagules dispersed by other animals (externally)	unk	-1
7.06	Propagules bird dispersed		
7.05	Propagules water dispersed		
7.04	Propagules adapted to wind dispersal	n	-1
7.03	Propagules likely to disperse as a produce contaminant	unk	-1
7.02	Propagules dispersed intentionally by people	у	1
	areas)		-1
7.01	Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked	unk	
6.07	Minimum generative time (years)		-1
6.06	Reproduction by vegetative propagation unk		-1
6.05	Requires specialist pollinators		C
6.04	Self-compatible or apomictic		1
6.03	Hybridizes naturally	unk	-1

section	# questions answered	satisfy
_	# questions answered	minimum?
A B		8 yes
		5 yes
C		10 yes
total		23 yes



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Assessment date 23 July 2015

A33C3311	lent date 25 July 2015		
	Ipomoea setosa Central South	Answer	Score
1.01	Is the species highly domesticated?	n	0
1.02	Has the species become naturalised where grown?		
1.03	Does the species have weedy races?		
2.01	Species suited to Florida's USDA climate zones (0-low; 1-intermediate; 2-high)  North Zone: suited to Zones 8, 9  Central Zone: suited to Zones 9, 10  South Zone: suited to Zone 10	2	
2.02	Quality of climate match data (0-low; 1-intermediate; 2-high)	2	
2.03	Broad climate suitability (environmental versatility)	у	1
2.04	Native or naturalized in habitats with periodic inundation  North Zone: mean annual precipitation 50-70 inches  Central Zone: mean annual precipitation 40-60 inches  South Zone: mean annual precipitation 40-60 inches	У	1
2.05	Does the species have a history of repeated introductions outside its natural range?	у	
3.01	Naturalized beyond native range	у	2
3.02	Garden/amenity/disturbance weed	unk	
3.03	Weed of agriculture	unk	
3.04	Environmental weed	unk	
3.05	Congeneric weed	у	2
4.01	Produces spines, thorns or burrs	у	1
4.02	Allelopathic	unk	0
4.03	Parasitic	n	0
4.04	Unpalatable to grazing animals	n	-1
4.05	Toxic to animals	unk	0
4.06	Host for recognised pests and pathogens	n	0
4.07	Causes allergies or is otherwise toxic to humans	unk	0
4.08	Creates a fire hazard in natural ecosystems	unk	0
4.09	Is a shade tolerant plant at some stage of its life cycle	n	0
4.10	Grows on infertile soils (oligotrophic, limerock, or excessively draining soils). North & Central Zones: infertile soils; South Zone: shallow limerock or Histisols.	unk	0
4.11	Climbing or smothering growth habit	unk	0
4.12	Forms dense thickets	unk	0
5.01	Aquatic	n	0
5.02	Grass	n	0
5.03	Nitrogen fixing woody plant	n	0
5.04	Geophyte	n	0
6.01	Evidence of substantial reproductive failure in native habitat	n	0
6.02	Produces viable seed	у	1

	Risk Assessment Results	Lo	w
	Implemented Pacific Second Screening	n	0
	Total Score	(	)
8.05		?	
8.04	Tolerates, or benefits from, mutilation or cultivation	unk	-1
8.03	Well controlled by herbicides	unk	1
8.02	Evidence that a persistent propagule bank is formed (>1 yr)	unk	-1
8.01	Prolific seed production	unk	-1
7.08	Propagules dispersed by other animals (internally)		
7.07	Propagules dispersed by other animals (externally)	unk	-1
7.06	Propagules bird dispersed		
7.05	Propagules water dispersed		
7.04	Propagules adapted to wind dispersal	n	-1
7.03	Propagules likely to disperse as a produce contaminant	unk	-1
7.02	Propagules dispersed intentionally by people	у	1
	areas)		-1
7.01	Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked	unk	
6.07	Minimum generative time (years)		-1
6.06	Reproduction by vegetative propagation unk		-1
6.05	Requires specialist pollinators		C
6.04	Self-compatible or apomictic		1
6.03	Hybridizes naturally	unk	-1

section	# questions answered	satisfy
_	# questions answered	minimum?
A B		8 yes
		5 yes
C		10 yes
total		23 yes

	Reference	Source data
1.01		No evidence of selection for reduced weediness
1.02		Skip to question 2.01
1.03		Skip to question 2.01
2.01	1. PERAL NAPPFAST Global Plant Hardiness. http://www.nappfast.org/Plant_hardiness/2012/PHZ%20update 201230%20yr%20%20300dpi.tif (Accessed: 16 July 2015) 2. Dave's Garden. http://davesgarden.com/guides/pf/go/106134/ (Accessed: 16 July 2015) 3. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network - (GRIN) [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland. http://www.ars-grin.gov/cgi- bin/npgs/html/taxon.pl?20223 (Accessed: 16 July 2015)	
2.02		No computer analysis was performed. Native range is well known. Hardiness zone 9 only accounts for part of the North Zone. Refer to 2.01 source data.
2.03	1. The University of Melbourne. Köppen-Geiger Climate Map of the World.  http://people.eng.unimelb.edu.au/mpeel/koppen.html (Accessed: 16 July 2015) 2. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network - (GRIN) [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland. http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?20223 (Accessed: 16 July 2015)	1. Native to the following Köppen-Geiger Climate Zones: Am, Aw, BWh, BSh, BSk, Cwa, Cwb, Cfa, Cfb. 2. Native to Mexico, Belize, Costa Rica, Guatemala, Nicaragua, Panama, Brazil, Ecuador, Peru, and Argentina.
2.04	1. Climate Charts. World Climate Maps. http://www.climate-charts.com/World-Climate-Maps.html#rain (Accessed: 16 July 2015)	1. Native to areas with rainfall in this range.
2.05	1. Checklist of Plants of Mississippi. https://www.mdwfp.com/media/128993/exotic_plants_checklist .pdf (Accessed: 17 July 2015) 2. Dave's Garden. http://davesgarden.com/guides/pf/go/106134/#b (Accessed: 17 July 2015)	1. Documented introduction to Mississippi 2. "This plant has been said to grow in the following regions: Alabama, California, Florida, Hawaii, Kansas, Kentucky, Louisiana, Oregon, Pennsylvania, Tennessee, and Texas"
	1. Flora of China. http://www.tropicos.org/Name/8500742?projectid=8 (Accessed: 21 July 2015) 2. Inventory, Plant Material Introduced. https://books.google.com/books?id=8LlHAQAAMAAJ&pg=RA5-PA13&lpg=RA5-PA13&dq=%22Ipomoea+setosa%22+naturalized&source=bl&ots=lsx-agOXyy&sig=ySQeZALDfEDv-atfBkONY2Ht9Ek&hl=en&sa=X&ved=0CCQQ6AEwAmoVChMI7KLGovnsxgIVQx0eCh1zmwky#v=onepage&q=%22Ipomoea%20setosa%22%20naturalized&f=false (Accessed: 21 July 2015) 3. HEAR.Global Compendium of Weeds. http://www.hear.org/gcw/species/ipomoea_setosa/ (Accessed: 21 July 2015)	
3.02		No evidnece
3.03		No evidence
3.04		No evidence

3.05	1. A Geographical Atlas of World Weeds. Kreiger Publishing	1. Ipomoea acuminata, Ipomoea alba, Ipomoea amoena,
3.03	Company. (Holm, Pancho, Herberger, Plucknett, 1991) (Accessed:	·
	16 July 2015)	Ipomoea barbigera, Ipomoea batatas, Ipomoeablepharosepala,
	10 July 2013)	Ipomoea cairica, Ipomoea calobra, Ipomoea caloneura, Ipomoea
		cardiosepala, Ipomoea chryseides, Ipomoea coccinea, Ipomoea
		congesta, Ipomoea cordofana, Ipomoea coscinosperma, Ipomoea
		crassifolia, Ipomoea cymosa, Ipomoea cynanchifolia, Ipomoea
		eriocarpa, Ipomoea fistulosa, Ipomoea gossypioides, Ipomoea
		gracilis, Ipomoea hardwikii, Ipomoea herderacea, Ipomoea
		hederifolia, Ipomoea hisutula, Ipomoea indivisa, Ipomoea
		involucrata, Ipomoea lacunosa, Ipomoea leari, Ipomoea mulleri,
		Ipomoea nil, Ipomoea obscura, Ipomoea pandurata, Ipomoea pes
		caprae, Ipomoea pes-tigridis, Ipomoea plebeia, Ipomoea
		polyantha, Ipomoea purpurea, Ipomoea quamoclit, Ipomoea
		setifera, Ipomoea stolonifera, Ipomoea tiliacea, Ipomoea
		trichocarpa, Ipomoea trifida, Ipomoea triloba, and Ipomoea
		tuboides are all listed as weeds.
4.01	1. Dave's Garden.	1. "Plant has spines or sharp edges; use extreme caution when
	http://davesgarden.com/guides/pf/go/106134/#b (Accessed: 17	handling" Photo evidence in file
	July 2015)	
4.02		No evidence
4.03		No evidence
4.04	1. Discover Life	Food Source Large & small Mammals, water birds, terrestrial
	(http://www.discoverlife.org/mp/20q?search=Ipomoea+setosa	birds
	[accessed 7/22/2015])	
4.05	1. B&T World Seeds. https://b-and-t-world-	1. "Parts of Ipomoea setosa are considered toxic." 2. "Seed is
		poisonous if ingested; Parts of plant are poisonous if ingested; All
	(Accessed: 21 July 2015) 2. Dave's Garden.	parts of plant are poisonous if ingested" unknown if toxic to
	http://davesgarden.com/guides/pf/go/106134/#b (Accessed: 21 July 2015)	animals or only humans
4.06		No evidece that the taxon is a significant primary or alternate
1.00		host.
4.07		No evidence
4.08	1. B&T World Seeds. https://b-and-t-world-	1. "Ipomoea setosa is included in the following B and T World
	seeds.com/cartall.asp?species=Ipomoea%20setosa&sref=454283	Seeds flowing plant categories 720: Fire Resistant Plants"
	(Accessed: 21 July 2015)	
4.09	1. Dave's Garden.	1. "Sun Exposure: Full Sun to Partial Shade"
	http://davesgarden.com/guides/pf/go/106134/#b (Accessed: 17	
	July 2015)	
4.10		No evidence
4.11	1. B&T World Seeds. https://b-and-t-world-	1. "Ipomoea setosa is included in the following B and T World
	seeds.com/cartall.asp?species=Ipomoea%20setosa&sref=454283	
1.12	(Accessed: 21 July 2015)	insufficient evidence
4.12	1. Flora of China.	1. "Dense forests or thickets in valleys" insufficient evidene;
	http://www.efloras.org/florataxon.aspx?flora_id=2&taxon_id=21	
F 01	0000744 (Accessed: 21 July 2015)	No evidence
5.01 5.02	USDA, ARS, National Genetic Resources Program. Germplasm	1. "Family: Convolvulaceae"
3.02	Resources Information Network - (GRIN) [Online Database].	1. Tanniy. Convolvulacede
	National Germplasm Resources Laboratory, Beltsville, Maryland.	
	http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?20223	
	(Accessed: 21 July 2015)	
	1	

5.03	1. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network - (GRIN) [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland. http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?20223 (Accessed: 21 July 2015)	1. "Family: Convolvulaceae"
5.04		No evidence of specialized organs
6.01		No evidence found of substantial reproductive failure
6.02	1. USDA Plants Database. http://plants.usda.gov/core/profile?symbol=IPSE3 (Accessed: 21 July 2015) 2. Dave's Garden. http://davesgarden.com/guides/pf/go/106134/#b (Accessed: 21 July 2015) 3. UC IPM (http://www.ipm.ucdavis.edu/PMG/WEEDS/morningglories.html [accessed 7/22/2015])	
6.03		No evidence
6.04	1. Dave's Garden. http://davesgarden.com/guides/pf/go/106134/#b (Accessed: 21 July 2015)	"Self-sows freely; deadhead if you do not want volunteer seedlings next season"
6.05	1. Dave's Garden. http://davesgarden.com/guides/pf/go/106134/#b (Accessed: 21 July 2015)	"This plant is attractive to bees, butterflies and/or birds" typically these insects are generalist pollinators
6.06	1. Dave's Garden. http://davesgarden.com/guides/pf/go/106134/#b (Accessed: 21 July 2015)	Propagation Methods: From herbaceous stem cuttings" no evidence of this occuring naturally
6.07		No evidence
7.01		No evidence
7.02	1. Georgia Vines. http://www.georgiavines.com/cart/index.php?main_page=product_info&products_id=1740 (Accessed: 17 July 2015)	1. Seeds sold online. Described as: "A vigorous grower with huge deep pink blossoms that produced tons of blossoms off and on all summer"
7.03		No evidence
7.04	1. USDA Plants Database. http://plants.usda.gov/core/profile?symbol=IPSE3 (Accessed: 21 July 2015)	No evidence, however 1. seed does not have traits indicating wind dispersal (see photo)
7.05		No evidence
7.06	1. Dave's Garden. http://davesgarden.com/guides/pf/go/106134/#b (Accessed: 21 July 2015)	"This plant is attractive to bees, butterflies and/or birds" insufficient evidence
7.07		No evidence
7.08		No evidence
8.01		No evidence
8.02	1.UC IPM (http://www.ipm.ucdavis.edu/PMG/WEEDS/morningglories.html [accessed 7/22/2015])	
8.03		No evidence
8.04		No evidence
8.05		No evidence