

Assessment date 2 November 2015

<b><i>Cydista aequinoctialis (Bignonia aequinoctialis)</i> All Zones</b>		<b>Answer</b>	<b>Score</b>
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)	y	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	y	1
2.05	Does the species have a history of repeated introductions outside its natural range?	y	
3.01	Naturalized beyond native range	unk	
3.02	Garden/amenity/disturbance weed	n	0
3.03	Weed of agriculture	n	0
3.04	Environmental weed	n	0
3.05	Congeneric weed	n	0
4.01	Produces spines, thorns or burrs		
4.02	Allelopathic	n	0
4.03	Parasitic	n	0
4.04	Unpalatable to grazing animals		
4.05	Toxic to animals	unk	0
4.06	Host for recognised pests and pathogens	unk	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	y	1
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	y	1

6.03	Hybridizes naturally	unk	-1
6.04	Self-compatible or apomictic	unk	-1
6.05	Requires specialist pollinators	n	0
6.06	Reproduction by vegetative propagation	unk	-1
6.07	Minimum generative time (years)	unk	-1
7.01	Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked areas)	unk	-1
7.02	Propagules dispersed intentionally by people	y	1
7.03	Propagules likely to disperse as a produce contaminant	unk	-1
7.04	Propagules adapted to wind dispersal		
7.05	Propagules water dispersed		
7.06	Propagules bird dispersed		
7.07	Propagules dispersed by other animals (externally)		
7.08	Propagules dispersed by other animals (internally)		
8.01	Prolific seed production	unk	-1
8.02	Evidence that a persistent propagule bank is formed (>1 yr)	unk	-1
8.03	Well controlled by herbicides	unk	1
8.04	Tolerates, or benefits from, mutilation or cultivation	unk	-1
8.05		?	
<b>Total Score</b>			<b>-3</b>
<b>Implemented Pacific Second Screening</b>			<b>No</b>
<b>Risk Assessment Results</b>			<b>Low</b>

section	# questions answered	satisfy minimum?
A		10 yes
B		4 yes
C		8 yes
total		22 yes

	Reference	Source data
1.01		cultivated, but no evidence of selection for reduced weediness
1.02		
1.03		
2.01	<p>1. PERAL NAPPFAST Global Plant Hardiness (<a href="http://www.nappfast.org/Plant_hardiness/NAPPFAST%20Global%20zones/10-year%20climate/PLANT_HARDINESS_10YR%20lgnd.tif">http://www.nappfast.org/Plant_hardiness/NAPPFAST%20Global%20zones/10-year%20climate/PLANT_HARDINESS_10YR%20lgnd.tif</a>). 2. USDA, ARS, National Genetic Resources Program. Germplasm Resources Information Network - (GRIN) [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland. <a href="http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?409896">http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?409896</a> (0-00-0000).</p>	<p>No computer analysis was performed. 1. Global hardiness zone: 9, 10, 11, 12, 13; equivalent to USDA Hardiness zones: 9a: to -6.6 iC (20 iF) USDA Zone 9b: to -3.8 iC (25 iF) USDA Zone 10a: to -1.1 iC (30 iF) USDA Zone 10b: to 1.7 iC (35 iF) USDA Zone 11a: to USDA Zone (40 iF) USDA Zone 11b: to (45 iF) USDA Zone 12a: to (50 iF) USDA Zone 12b: to (55 iF).. 2. Native to</p> <p>NORTHERN AMERICA Northern Mexico: Mexico - Sinaloa Southern Mexico: Mexico - Chiapas, Colima, Guerrero, Jalisco, Nayarit, Oaxaca, Tabasco, Veracruz, Yucatan</p> <p>SOUTHERN AMERICA Caribbean: Antigua and Barbuda; Barbados; Cuba; Dominican Republic; Grenada; Guadeloupe; Haiti; Martinique; Puerto Rico; St. Lucia; St. Vincent and Grenadines; Trinidad and Tobago Mesoamerica: Belize; Costa Rica; El Salvador; Guatemala; Honduras; Nicaragua; Panama Northern South America: French Guiana; Guyana; Suriname; Venezuela - Amazonas, Anzoategui, Apure, Aragua, Barinas, Bolivar, Carabobo, Delta Amacuro, Falcon, Federal District, Lara, Merida, Miranda, Monagas, Sucre, Tachira, Trujillo, Zulia Brazil: Brazil - Acre, Amapa, Amazonas, Goias, Maranhao, Mato Grosso, Para, Rondonia, Roraima Western South America: Bolivia - Beni, La Paz, Pando, Santa Cruz; Colombia - Amazonas, Antioquia, Atlantico, Bolivar, Boyaca, Caqueta, Cesar, Choco, Cordoba, Cundinamarca, Guaviare, Magdalena, Meta, Narino, Norte de Santander, Santander, Sucre, Tolima, Valle, Vaupes, Vichada; Ecuador - Napo, Pastaza, Sucumbios; Peru - Amazonas, Junin, Loreto, Madre de Dios, Ucayali</p>
2.02		
2.03	<p>1. Kšppen-Geiger climate map (<a href="http://www.hydrol-earth-syst-sci.net/11/1633/2007/hess-11-1633-2007.pdf">http://www.hydrol-earth-syst-sci.net/11/1633/2007/hess-11-1633-2007.pdf</a>). 2. Global Biodiversity Information Facility (<a href="http://www.gbif.org/species/3172558">http://www.gbif.org/species/3172558</a> accessed 11/3/2015)</p>	<p>1. Distribution in the native/cultivated range occurs in Aw, Af, Am, As</p>
2.04	<p>1. Climate Charts. World Climate Maps. <a href="http://www.climate-charts.com/World-Climate-Maps.html#rain">http://www.climate-charts.com/World-Climate-Maps.html#rain</a> (8-19-2015) 2. Global Biodiversity Information Facility (<a href="http://www.gbif.org/species/3172558">http://www.gbif.org/species/3172558</a> accessed 11/3/2015)</p>	<p>1. Native to areas with rainfall 19 - 97 inches annually.</p>
2.05	<p>1. 2. Global Biodiversity Information Facility (<a href="http://www.gbif.org/species/3172558">http://www.gbif.org/species/3172558</a> accessed 11/3/2015)</p>	<p>1. Southern Marianas (introduced) (Guam (introduced)), Myanmar [Burma] (introduced),</p>
3.01		No evidence
3.02		No evidence
3.03		No evidence
3.04		No evidence
3.05		No evidence
4.01	<p>1. Smithsonian Institution <a href="http://www.sil.si.edu/smithsoniancontributions/botany/pdf_hi/sctb-0081.pdf">http://www.sil.si.edu/smithsoniancontributions/botany/pdf_hi/sctb-0081.pdf</a> (10-20-2015)</p>	<p>1. These features are not evident in the species description.</p>
4.02		No evidence

4.03	1. Smithsonian Institution <a href="http://www.sil.si.edu/smithsoniancontributions/botany/pdf_hi/sctb-0081.pdf">http://www.sil.si.edu/smithsoniancontributions/botany/pdf_hi/sctb-0081.pdf</a> (10-20-2015)	1. These features are not evident in the species description.
4.04		No evidence
4.05		No evidence
4.06		No evidence
4.07		No evidence
4.08		No evidence
4.09	1. Dave's Garden <a href="http://davesgarden.com/guides/pf/go/119636/#b">http://davesgarden.com/guides/pf/go/119636/#b</a> (10-19-2015) 2. University of Florida IFAS <a href="http://gcrec.ifas.ufl.edu/GCREC-Garden/docs/pdf/Garlic_Vine.pdf">http://gcrec.ifas.ufl.edu/GCREC-Garden/docs/pdf/Garlic_Vine.pdf</a> (10-19-2015) 3. Useful Tropical Plants <a href="http://tropical.theferns.info/viewtropical.php?id=Bignonia+aequinoctialis">http://tropical.theferns.info/viewtropical.php?id=Bignonia+aequinoctialis</a> (10-23-2015)	1. Full sun 2. Full sun/Shade 3. Succeeds in a sunny position with some protection from the hottest sun, and also in light shade
4.10		No evidence
4.11	1. University of Florida IFAS <a href="http://gcrec.ifas.ufl.edu/GCREC-Garden/docs/pdf/Garlic_Vine.pdf">http://gcrec.ifas.ufl.edu/GCREC-Garden/docs/pdf/Garlic_Vine.pdf</a> (10-19-2015) 2. SouthWest Florida Water Management District <a href="http://www.sfwmd.gov/portal/page/portal/xrepository/sfwmd_repository_pdf/ww6_waterwise_vines.pdf">http://www.sfwmd.gov/portal/page/portal/xrepository/sfwmd_repository_pdf/ww6_waterwise_vines.pdf</a> (10-20-2015) 3. Useful Tropical Plants <a href="http://tropical.theferns.info/viewtropical.php?id=Bignonia+aequinoctialis">http://tropical.theferns.info/viewtropical.php?id=Bignonia+aequinoctialis</a> (10-23-2015)	1. Twining and climbing 2. Climbing 3. A fast-growing, ornamental climbing plant, it can be used as a covering for walls and fences
4.12		No evidence
5.01	GRIN ( <a href="http://www.ars-grin.gov">http://www.ars-grin.gov</a> accessed 11/2/2015)	Family: Bignoniaceae
5.02	GRIN ( <a href="http://www.ars-grin.gov">http://www.ars-grin.gov</a> accessed 11/2/2015)	Family: Bignoniaceae
5.03	GRIN ( <a href="http://www.ars-grin.gov">http://www.ars-grin.gov</a> accessed 11/2/2015)	Family: Bignoniaceae
5.04	1. Smithsonian Institution <a href="http://www.sil.si.edu/smithsoniancontributions/botany/pdf_hi/sctb-0081.pdf">http://www.sil.si.edu/smithsoniancontributions/botany/pdf_hi/sctb-0081.pdf</a> (10-20-2015)	1. These features are not evident in the species description.
6.01		no evidence
6.02	1. Dave's Garden <a href="http://davesgarden.com/guides/pf/go/119636/#b">http://davesgarden.com/guides/pf/go/119636/#b</a> (10-19-2015) 2. Useful Tropical Plants <a href="http://tropical.theferns.info/viewtropical.php?id=Bignonia+aequinoctialis">http://tropical.theferns.info/viewtropical.php?id=Bignonia+aequinoctialis</a> (10-23-2015)	1. Propagated by seed 2. Propagated by seed.
6.03		No evidence
6.04		No evidence
6.05	1. Dave's Garden <a href="http://davesgarden.com/guides/pf/go/119636/#b">http://davesgarden.com/guides/pf/go/119636/#b</a> (10-19-2015) 2. <a href="http://www.nybg.org/botany/tlobova/hequet/plant_gallery.html#Cydista_aequinoctialis">http://www.nybg.org/botany/tlobova/hequet/plant_gallery.html#Cydista_aequinoctialis</a> (10-20-2015)	1. This plant is attractive to bees, butterflies and/or birds 2. Potentially pollinated by bats
6.06		No evidence
6.07	1. Gardino Nursery Corp. <a href="https://www.rareflora.com/cydistaec.htm">https://www.rareflora.com/cydistaec.htm</a>	Flowers twice a year per nursery website, but no information regarding time to first flower
7.01		No evidence
7.02	1. Mariposa Nursery <a href="http://mariposanursery.com/garlic-vine-cydista-aequinoctialis/">http://mariposanursery.com/garlic-vine-cydista-aequinoctialis/</a> (10-23-2015) 2. Especies Belize Tropical Seeds <a href="http://www.especiesbelizetropicalseeds.com/cydista-aequinoctialis-flowering-garlic-vine-50-seed/">http://www.especiesbelizetropicalseeds.com/cydista-aequinoctialis-flowering-garlic-vine-50-seed/</a> (10-23-2015) 3. Tropical Plants for Sale <a href="http://tropicalplantsforsale.blogspot.com/2013/03/live-semi-tropical-plant-garlic-vine.html">http://tropicalplantsforsale.blogspot.com/2013/03/live-semi-tropical-plant-garlic-vine.html</a> (10-23-2015)	1, 2, 3. Popular ornamental for outdoor gardens, widely available on Internet nurseries.
7.03		No evidence
7.04		No evidence
7.05		No evidence
7.06		No evidence
7.07		No evidence

7.08		No evidence
8.01		No evidence
8.02		No evidence
8.03		No evidence
8.04		No evidence
8.05		No evidence