	Dendrocalamus giganteus (Sinocalamus giganteus, Bambusa gigantea) giant	Answer	Score
	bamboo,long zhu FLORIDA		
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 FL climates (USDA hardiness zones; 0-low, 1-intermediate, 2-high)	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 regions with an average of 11-60 inches of annual precipitation	у	1
2.05	Does the species have a history of repeated introductions outside its natural range?	у	<u>.</u>
3.01	Naturalized beyond native range	?	
3.02	Garden/amenity/disturbance weed	•	
3.03	Weed of agriculture		
3.04	Environmental weed		
3.05	Congeneric weed		
4.01	Produces spines, thorns or burrs	n	0
4.02	Allelopathic	?	
4.02	Parasitic		0
4.03		n	0
	Unpalatable to grazing animals Toxic to animals		
4.05		n	0
4.06	Host for recognised pests and pathogens	n	0
4.07	Causes allergies or is otherwise toxic to humans		
4.08	Creates a fire hazard in natural ecosystems		
4.09	Is a shade tolerant plant at some stage of its life cycle	?	
4.10	Grows on infertile soils (oligotrophic, limerock, or excessively draining soils). North &	unk	
	Central Zones: infertile soils; South Zone: shallow limerock or Histisols.		
4.11	Climbing or smothering growth habit	n	0
4.12	Forms dense thickets	?	
5.01	Aquatic	n	0
5.02	Grass	у	1
5.03	Nitrogen fixing woody plant	n	0
5.04	Geophyte	n	0
6.01	Evidence of substantial reproductive failure in native habitat	?	
6.02	Produces viable seed	у	1
6.03	Hybridizes naturally	n	-1
6.04	Self-compatible or apomictic	?	
6.05	Requires specialist pollinators	n	0
6.06	Reproduction by vegetative propagation	у	1
6.07	Minimum generative time (years)	24	-1
7.01	Propagules likely to be dispersed unintentionally (plants growing in heavily trafficked		
	areas)		
7.02	Propagules dispersed intentionally by people	у	1
7.03	Propagules likely to disperse as a produce contaminant	n	-1
7.04	Propagules adapted to wind dispersal	n	-1
7.05	Propagules water dispersed	n	-1
7.06	Propagules bird dispersed	n	-1
7.07	Propagules dispersed by other animals (externally)	n	-1
7.08	Propagules dispersed by other animals (internally)	n	-1

8.05	Effective natural enemies present in U.S. Total Score		
8.04	Tolerates, or benefits from, mutilation or cultivation		<u> </u>
8.03	Well controlled by herbicides		
8.02	Evidence that a persistent propagule bank is formed (>1 yr)	n n	
8.01	Prolific seed production	n	

section	# questions answered		satisfy minimum?
Α		8	yes
В		10	yes
С		17	yes
total		35	yes

	Reference	Source data
1.01		Cultivated, but no evidence of selection for reduced weediness.
1.02		Skip to question 2.01
1.03		Skip to question 2.01
2.01	1. Clayton et al. (2006 onwards) Grassbase-the Online World Grass Flora. (http://www.kew.org/data/grasses-db.html [accessed 22 Jan 2014]). 2. Flora of China (http://flora.huh.harvard.edu/china/index.html [accessed 22 Jan 2014]). 3. Dave's garden(davesgarden.com/guides [accessed 22 Jan 2014]). 4. PERAL NAPPFAST Global Plant Hardiness (http://www.nappfast.org/Plant_hardiness/NAPPFAST%20Global %20zones/10-year%20climate/PLANT_HARDINESS_10YR%20lgnd.tif). 5. USDA/ARS-GRIN [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland (http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?405679 [accessed 22 Jan 2014]). 6. Eco Crop, Food and Agriculture Organization of the UN (http://ecocrop.fao.org/ecocrop [accessed 29 Jan 2014])	No computer analysis was performed. 1. Distribution in Africa (western Indian Ocean), Asia-temperate (China and eastern Asia), and Asia-tropical (India, Indo-China, and Malasia). 2. Yunnan provence of China, cultivated in Taiwan, Malaysia, and Thailand. 3. Hardiness USDA Zone 9b to 11. 4. Global plant hardiness zones: 9-12. 5. Native: Asia-temperate China (Yunnan), Asia-tropical Myanmar, Thailand. Uncertain Origin in Malaysia. Cultivated in Africa (Madagascar), Asia-temperate (Taiwan), Asia-tropical (Bangladesh, Bhutan, India, Sri Lanka, Laos, Myanmar, Thailand, Vietnam, Indonesia, Malaysia). 6. Bamboos grow between the latitudes 40°N and S. Though the big bamboo forests usually occur between 15-25°N and S.
2.02	(Http://ecocrop.rao.org/ecocrop (accessed 29 Jan 2014))	No computer analysis was performed. Native range is well known; refer to 2.01 source data.
2.03	1. Köppen-Geiger climate map (http://www.hydrol-earth-syst-sci.net/11/1633/2007/hess-11-1633-2007.pdf). See source data for 2.01.	Distribution in the native and cultivated ranges in at least 3 climatic groups (Cfa, Am, Aw, Af)
2.04	1. World Climate Maps (http://www.climate-charts.com [accessed 29 Jan 2014]). 2. China Climate Map of Annual Average Precipitation (http://www.chinamaps.org [accessed 29 Jan 2014]) 3. Average Weather and Climate in Madagascar (http://www.weather-and-climate.com [accessed 29 Jan 2014]).	1. Distibution includes areas receiving up to 97 inches of rain. 2. For example, the portion of the native range in the Yunnan Provence of China receives 15-47 inches of precipitation annually. 3. Present in Madagascar where the annual precipitation ranges between 39 and 59 inches.
2.05	1. Flora of China (http://flora.huh.harvard.edu/china/index.html [accessed 22 Jan 2014]). 2. USDA/ARS-GRIN [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland (http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?405679 [accessed 22 Jan 2014]). 3. Crowley Nursery & Gardens, Inc. (http://crowleynursery.net/bamboo_old.htm [accessed 29 Jan 2014]). 4. Tropical Bamboo (http://www.tropicalbamboo.com/shopping.asp [accessed 29 Jan 2014]).	1. Cultivated in Taiwan, Malaysia, and Thailand. 2. Cultivated in Africa (Madagascar), Asia-temperate (Taiwan), Asia-tropical (Bangladesh, Bhutan, India, Sri Lanka, Laos, Myanmar, Thailand, Vietnam, Indonesia, Malaysia). 3. Available for the public to purchase in Sarasota. 4. Available for purchase online.
3.01	1. Ramanayake & Yakandawala (1998) Incidence of flowering, death, and phenology of development in the giant bamboo giganteus Wall. Ex Munro). Annals Bot 82:779-785.	Introduced population in Sri Lanka flowered, but did not exhibit mast seeding. There were some seedlings observed under a few flowering clumps, but there was no indication naturalization was occurring.
3.02		No Evidence
3.03		No Evidence
3.04		No Evidence
3.05		No Evidence
4.01	1. Schultz et al. (2010) Alelopatia de bambu (Dendrocalamus giganteus MU RO). Cultivando 3:31-39.	No Evidence 1. Aqueous extracts of D. giganteus did not affect % germination or the length of the primary root of lettuce (as indicator species), but did affect the timing of germination with reduced germination rates with increases in extract concentration.
4.03		No Evidence
4.04		No Evidence

	I	T
4.05	1. PROSEA detail Dendrocalamus giganteus	1. Young shoots are edible. 2. The newly emerging, tender
	(http://proseanet.org/prosea/e-prosea_detail.php?frt=&id=41	juvenile shoots of bamboos that belong to the tribe Bambuseae,
	[accessed 29 Jan 2014]). 2. Chongtham et al (2007) Changes in	subfamily Bambusoideae of family Poaceae, are edible.
	nutrient components during ageing of emerging juvenile bamboo	
	shoots. Int J Food Sci Nutrition 58:612-619.	
4.06	1. PROSEA detail Dendrocalamus giganteus	1. No serious diseases or pests , but ther fungus Pycnoporus
	(http://proseanet.org/prosea/e-prosea_detail.php?frt=&id=41	sanguinus and powder-post beetles may attack harvested
	[accessed 29 Jan 2014])	material.
4.07		No Evidence
4.08		No Evidence
4.09		Many nursery sites indicate grows in full sun to partial shade, but
		no definitive evidence of shade tolerance.
4.10		No Evidence
4.11	1. Ramanayake & Yakandawala (1998) Incidence of flowering,	1. D. giganteus is a clumping bamboo (not a running bamboo)
	death, and phenology of development in the giant bamboo	
	giganteus Wall. Ex Munro). Annals Bot 82:779-785. 2. PROSEA	
	detail Dendrocalamus giganteus (http://proseanet.org/prosea/e-	
	prosea_detail.php?frt=&id=41 [accessed 29 Jan 2014]).	
4.12	1. Ramanayake & Yakandawala (1998) Incidence of flowering,	No direct evidence of forming dense thickets 1. D. giganteus is a
	death, and phenology of development in the giant bamboo	clumping bamboo (not a running bamboo). Culm density in
	giganteus Wall. Ex Munro). Annals Bot 82:779-785.	clumps growing in Sri Lanka were described as "massive" with a
		mean 208.7 culms per clump.
5.01	1. USDA/ARS-GRIN [Online Database]. National Germplasm	No evidence of aquatic growth habit. 1 & 2. Family Poaceae.
	Resources Laboratory, Beltsville, Maryland (http://www.ars-	
	grin.gov/cgi-bin/npgs/html/taxon.pl?405679 [accessed 22 Jan	
	[2014]). 2. Clayton et al. (2006 onwards) Grassbase-the Online	
	World Grass Flora. (http://www.kew.org/data/grasses-db.html	
	[accessed 22 Jan 2014]).	
5.02	USDA/ARS-GRIN [Online Database]. National Germplasm	1 & 2. Family Poaceae
	Resources Laboratory, Beltsville, Maryland (http://www.ars-	
	grin.gov/cgi-bin/npgs/html/taxon.pl?405679 [accessed 22 Jan	
	2014]). 2. Clayton et al. (2006 onwards) Grassbase-the Online	
	World Grass Flora. (http://www.kew.org/data/grasses-db.html	
	[accessed 22 Jan 2014]).	
5.03	USDA/ARS-GRIN [Online Database]. National Germplasm	1 & 2. Family Poaceae
5.05	Resources Laboratory, Beltsville, Maryland (http://www.ars-	1 & 2. Fairing Foaceae
	grin.gov/cgi-bin/npgs/html/taxon.pl?405679 [accessed 22 Jan	
	2014]). 2. Clayton et al. (2006 onwards) Grassbase-the Online	
	World Grass Flora. (http://www.kew.org/data/grasses-db.html	
	[accessed 22 Jan 2014]).	
E 04		1. Coophyta with lang invanila pariod
5.04	1. Ziv & Noar (2006) Flowering of geophytes in vitro. Propagation	11. Geophyte with long juvenile period.
6.01	of Ornamental Plants 6: 3-16	1. Dambagg are woody parrenials that grace is rely flavors and
6.01	1. Jantzen (1976) Why bamboos wait so long to flower. Ann Rev	1. Bamboos are woody perrenials that gregaiously flower, seed,
	Ecol Syst 7:347-391. 2. Ramanayake & Yakandawala (1998)	and die with intermast periods of 29-76 years. Introduced
	Incidence of flowering, death, and phenology of development in	population of D. giganteus observed to survive after flowering
	the giant bamboo giganteus Wall. Ex Munro). Annals Bot 82:779-	with no indication of mast seeding.
	785.	
6.02	1. Ramanayake & Yakandawala (1998) Incidence of flowering,	1. Although seed set was rare in populations introduced to Sri
	death, and phenology of development in the giant bamboo	Lanka, some seeds germinated in virto in the laboratory and
	giganteus Wall. Ex Munro). Annals Bot 82:779-785.	there were seedlings observed under a few flowering clumps.
6.03		No Evidence
6.04	1. Ramanayake & Yakandawala (1998) Incidence of flowering,	1. Little to no seed set indicates some form of incompatibility.
	death, and phenology of development in the giant bamboo	
	giganteus Wall. Ex Munro). Annals Bot 82:779-785.	

6.05	1. IUCN Red List of Threatened Species	1. Wind pollinated 2. Insects observed to visit flowers but do not
	(http://www.iucnredlist.org [accessed 24 Jan 2014]) 2.	act as pollinating agents. Insect pollination is rare among grasses.
	Ramanayake & Yakandawala (1998) Incidence of flowering,	
	death, and phenology of development in the giant bamboo	
	giganteus Wall. Ex Munro). Annals Bot 82:779-785.	
6.06	1. PROSEA detail Dendrocalamus giganteus	1. Offsets consisted of young shoots with portions of rhizomes
	(http://proseanet.org/prosea/e-prosea_detail.php?frt=&id=41	attached producing new culms. It is usually propagated by clump
	[accessed 29 Jan 2014]). 2. Clayton et al. (2006 onwards)	division. 2. Rhizomes are short, pachymorph.
	Grassbase-the Online World Grass Flora.	
	(http://www.kew.org/data/grasses-db.html [accessed 22 Jan 2014]).	
6.07	1. Jantzen (1976) Why bamboos wait so long to flower. Ann Rev	1. Jantzen suggests intermast period of 76 years. 2. flowering
	Ecol Syst 7:347-391. 2. Ramanayake & Yakandawala (1998)	intervals of this species observed after 29, 43 to 47 years after
	Incidence of flowering, death, and phenology of development in	the introduction of species in Sri Lanka.
	the giant bamboo giganteus Wall. Ex Munro). Annals Bot 82:779-	
	785.	
7.01		No Evidence, but transportation of rhizome pieces in garden
		refuse could spread plants as is the case with other rhizomatous
		plants (i.e. Arundo donax)
7.02	1. Flora of China (http://flora.huh.harvard.edu/china/index.html	1. Cultivated in Taiwan, Malaysia, and Thailand. 2. Cultivated in
	[accessed 22 Jan 2014]). 2. USDA/ARS-GRIN [Online Database].	Africa (Madagascar), Asia-temperate (Taiwan), Asia-tropical
	National Germplasm Resources Laboratory, Beltsville, Maryland	(Bangladesh, Bhutan, India, Sri Lanka, Laos, Myanmar, Thailand,
	(http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?405679	Vietnam, Indonesia, Malaysia). 3. Available for the public to
	[accessed 22 Jan 2014]). 3. Crowley Nursery & Gardens, Inc.	purchase in Sarasota. 4. Available for purchase online.
	(http://crowleynursery.net/bamboo_old.htm [accessed 29 Jan	
	2014]). 4. Tropical Bamboo	
	(http://www.tropicalbamboo.com/shopping.asp [accessed 29 Jan	
	2014]).	
7.03		Contamination unlikely based on the growth form, biology,
		ecology, or habitat of the species.
7.04		No Evidence
7.05		No Evidence
7.06		No Evidence
7.07		No Evidence
7.08		No Evidence
8.01	1. Ramanayake & Yakandawala (1998) Incidence of flowering,	1. Little to no seed set in clumps, one clump set 9% seed
	death, and phenology of development in the giant bamboo	(calculated as % of seeds found in total florets in four spikes). D.
	giganteus Wall. Ex Munro). Annals Bot 82:779-785.	giganteus does not appear to exhibit mast seeding.
8.02	1. Ramanayake & Yakandawala (1998) Incidence of flowering,	1. Little to no seed set in clumps and seedlings were seen under
	death, and phenology of development in the giant bamboo	flowing culms indicating quick germination.
	giganteus Wall. Ex Munro). Annals Bot 82:779-785.	
8.03		No Evidence
8.04		No Evidence
8.05		No Evidence