Sansevieria trifasciata (Snake plant, Bowstring hemp, Mother-in-		Answer	Score
law's-tongue)			
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-	2	
2.02	Might,	2	
2.02	Quality of climate match data (0-low; 1-intermediate; 2-nigh).	Z	1
2.03	Broad climate suitability (environmental versatility).	y	1
2.04	Native or naturalized with mean annual precipitation of 40-70 incres.	У	1
2.05	range?	У	
3.01	Naturalized beyond native range.	у	2
3.02	Garden/amenity/disturbance weed	n	0
3.03	Weed of agriculture	n	0
3.04	Environmental weed	у	4
3.05	Congeneric weed	y	2
4.01	Produces spines, thorns or burrs	n	0
4.02	Allelopathic	n	0
4.03	Parasitic	n	0
4.04	Unpalatable to grazing animals	?	
4.05	Toxic to animals	?	
4.06	Host for recognised pests and pathogens	n	0
4.07	Causes allergies or is otherwise toxic to humans.	n	0
4.08	Creates a fire hazard in natural ecosystems	n	0
4.09	Is a shade tolerant plant at some stage of its life cycle	у	1
4.10	Grows on infertile soils (oligotrophic, limerock, or excessively draining soils).	У	1
4.11	Climbing or smothering growth habit	n	0
4.12	Forms dense thickets	n	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
6.03	Hybridizes naturally		
6.04	Self-compatible or apomictic		
6.05	Requires specialist pollinators		
6.06	Reproduction by vegetative propagation	у	1
6.07	Minimum generative time (years)		
7.01	Propagules likely to be dispersed unintentionally (plants growing in heavily	n	
	trafficked areas)		-1
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

	Risk Assessment Results		Reject	
	Implemented Pacific Second Screening		No	
	Total Score		11	
8.05	Effective natural enemies present in Florida, or east of the continental divide.			
8.04	Tolerates, or benefits from, mutilation or cultivation			
8.03	Well controlled by herbicides	у	-1	
8.02	Evidence that a persistent propagule bank is formed (>1 yr)			
8.01	Prolific seed production			
7.08	Propagules dispersed by other animals (internally)	У	1	
7.07	Propagules dispersed by other animals (externally)		-1	
7.06	Propagules bird dispersed	У	1	
7.05	Propagules water dispersed	n	-1	

	Reference	Source data
1.01		Widely cultivated, but no evidence of selection for reduced weediness.
1.02		
1.03		
2.01	1. PERAL NAPPFAST Global Plant Hardiness	No computer analysis was performed. 1. Global plant
	(http://www.nappfast.org/Plant_hardiness/NAPPFAST%20	hardiness zones: 11-13. 2. Native to Nigeria, Zaire (known
2.02		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-	1. Distribution in the native and naturalized/distributed
	syst-sci.net/11/1633/2007/hess-11-1633-2007.pdf). 2.	ranges is very widespread and occurs in more than 3
	Refer to all references in question 2.01.	climatic groups. Also refer to source data in question 2.01.
2.04	1. Globalis (http://globalis.gvu.unu.edu/).	Data for native range only. 1. Nigeria: 600mm - 3000mm (24"-118"); Zaire (Democratic Republic of the Congo): 400mm - 3000mm (16"-118").
2.05	1. Global Invasive Species Database, 2005. Sansevieria	1. Alien range: Anguilla, Australia, Bermuda, British Indian
	trifasciata. Available from:	Ocean Territory, Christmas Island, Cook Islands, Ecuador,
	http://www.issg.org/database/species/ecology.asp?si=179	Fiji, French Polynesia, Guam, Kiribati, Marshall Islands,
	7&fr=1&sts=sss⟨=EN [Accessed 28 February 2011]. 2.	Federated States of Micronesia, Nauru, New Caledonia,
	USDA/ARS-GRIN [Online Database]. National Germplasm	Niue, Northern Mariana Islands, Palau, Samoa, Soloman
	Resources Laboratory, Beltsville, Maryland (http://www.ars- grin.gov/cgi-bin/npgs/html/taxon.pl?15948.	Islands, United States, United States Minor Outlying Islands, Wallis and Futuna. 2. Naturalized everywhere.
3.01	1. USDA/ARS-GRIN [Online Database]. National Germplasm Resources Laboratory, Beltsville, Maryland (http://www.ars- grin.gov/cgi-bin/npgs/html/taxon.pl?15948. 2. Horticopia professional software. http://www.horticopia.com/. 3. Csurhes, S. & R. Edwards. 1998. Potential Environmental Weeds in Australia: Candidate Species for Preventative Control. Biodiversity Group, Environment Australia, Canberra.	 Naturalized everywhere. Attributes: naturalizing, invasive. Has naturalized in urban bushland around Brisbane and on nearby islands in Moreton Bay.
3.02		No evidence.
3.03		No evidence.
3.04	1. TNC Global Invasive Species Team page, http://www.invasive.org/gist/global/australia/aca.html.	1. Recognized as an environmental weed.
3.05	1. TNC Global Invasive Species Team page.	1. Sansevieria quineensis is a weed in Australia and
	http://www.invasive.org/gist/global/australia/aca.html.	elsewhere, Australian Naturalized and/or Noxious Taxa.
4.01		
4.02		No evidence.
4.03		

4.04	1. Arnold. M.A. 2004. Intended for future inclusion in	Not likely. 1. Sword-shaped leaves that more closely
	I andscape Plants for Texas and Environs, 3rd edition	resemble a succulent of cacti than a garden perennial:
	http://aggie-	plants are plesantly coarse textured.
	horticulture.tamu.edu/svllabi/608/Lists/second%20ed/Sans	
	evieriatrifasciata.pdf.	
4.05	1. Cornell University Department of Animal Science's Plants	1. Not listed on Cornell University Department of Animal
	Poisonous to Livestock.	Science's Plants Poisonous to Livestock list. 2. The plant is
	http://www.ansci.cornell.edu/plants/php/plants.php?actio	reportedly poisonous.
	n=indiv&byname=scientific&keynum=1, 2, Arnold, M.A.	
	2004. Intended for future inclusion in Landscape Plants for	
	Texas and Environs. 3rd edition. http://aggie-	
	horticulture.tamu.edu/svllabi/608/Lists/second%20ed/Sans	
	evieriatrifasciata.pdf.	
4.06	1. Missouri Botanical Garden, Kemper Center for Home	1. No serious insect or disease problems.
	Gardening. http://www.mobot.org.	
4.07		No evidence.
4.08		
4.09	1. Horticopia professional software.	1. Full shade to full sun.
	http://www.horticopia.com/.	
4.10	1. Horticopia professional software.	1. Sandy, clay, loamy. 2. A highly versatile species surviving
	http://www.horticopia.com/. 2. Arnold, M.A. 2004.	in soils with a wide range of pH, fertility and textures as
	Intended for future inclusion in Landscape Plants for Texas	long as they are not consistently poorly drained; as with
	and Environs, 3rd edition. http://aggie-	most succulent-like plants they possess excellent drought
	horticulture.tamu.edu/syllabi/608/Lists/second%20ed/Sans	tolerance and tolerance to soil and foliar salt exposure is
	evieriatrifasciata.pdf.	also high.
4.11		
4.12		
5.01		Family: Agavaceae
5.02		Family: Agavaceae
5.03		Family: Agavaceae
5.04		Family: Agavaceae
6.01		No evidence.
6.02	1. Henley, A.R. et al. Sansevieria Production Guide. CFREC-A	1. Although several species can be propagated from seed,
	Foliage Plant Note RH-91-30.	this technique is not employed because the large number of
	http://mrec.ifas.ufl.edu/foliage/folnotes/sansevie.htm.	seeds needed by commercial growers is not available and
		normally plants can be produced faster by cutting or
		division.

6.03	1. Pate, J.B. et al. 1954. Interspecific and intervarietal	1. Twenty-three crosses, involving S. trifasciata, S.
	hybridization in Sansevieria . Journal of Heredity , 45(2): 69-	trifasciata var. laurentri, S. thyrsi flora, S. parva, S.
	73.	longiflora, S. liberica, S. cylindrica and S. deserti were
		made. All combinations were not possible because of
		species differences in season of flowering. Hybrids were
		obtained in four interspecific crosses: <i>S. trifasciata</i> × <i>S.</i>
		parva (also S. trifasciata var. lonrentii × S. parva), S.
		trifasciata × S. liberica, S. trifasciata × S. deserti and S.
		parva × S. deserti and in the intervarietal cross of S.
		trifasciata × S. trifasciata var. laurentii . Maternal
		stimulation occurred in the cross of <i>S. trifasciata</i> × <i>S.</i>
		cylindrica .
6.04		
6.05		
6.06	1. Csurhes, S. & R. Edwards. 1998. Potential Environmental	1. Perennial plant which produces from rhizomes. 2.
	Weeds in Australia: Candidate Species for Preventative	Spreads by cuttings, pieces.
	Control. Biodiversity Group, Environment Australia,	
	Canberra. 2. The Department of Natural Resources and	
	Mines. 2001. Eds : Di Ward, Steve Goosem, & Garry	
	Werren. Weed Pocket Guide: Agricultural and	
	Environmental Weeds, Far North Queensland .	
	http://www.wettropics.gov.au/st/rainforest_explorer/Reso	
	urces/Documents/8to9/WeedIDHandbook.pdf.	
6.07		
7.01		
7.02	1. Csurhes, S. & R. Edwards. 1998. Potential Environmental	1. Widely planted as a garden ornamental and has probably
	Weeds in Australia: Candidate Species for Preventative	been spread into new areas as as result of people dumping
	Control. Biodiversity Group, Environment Australia,	garden waste. 2. Economic importance: ornamental. 3.
	Canberra. 2. USDA/ARS-GRIN [Online Database]. National	Spreads by humans.
	Germplasm Resources Laboratory, Beltsville, Maryland	
	(http://www.ars-grin.gov/cgi-	
	bin/npgs/html/taxon.pl?15948). 3. The Department of	
	Natural Resources and Mines. 2001. Eds : Di Ward, Steve	
	Goosem, & Garry Werren. Weed Pocket Guide: Agricultural	
	and Environmental Weeds, Far North Queensland .	
	http://www.wettropics.gov.au/st/rainforest explorer/Reso	
	urces/Documents/8to9/WeedIDHandbook.pdf.	
7.03		
7.04		Seed does not have characteristics that adapted for wind
		dispersal.
7.05		

7.06	1. The Department of Natural Resources and Mines. 2001.	1. Spreads by birds.
	Eds : Di Ward, Steve Goosem, & Garry Werren. Weed	
	Pocket Guide: Agricultural and Environmental Weeds, Far	
	North Queensland .	
	http://www.wettropics.gov.au/st/rainforest_explorer/Reso	
	urces/Documents/8to9/WeedIDHandbook.pdf.	
7.07		
7.08	1. The Department of Natural Resources and Mines. 2001.	1. Spreads by animals.
	Eds : Di Ward, Steve Goosem, & Garry Werren. Weed	
	Pocket Guide: Agricultural and Environmental Weeds, Far	
	North Queensland .	
	http://www.wettropics.gov.au/st/rainforest_explorer/Reso	
	urces/Documents/8to9/WeedIDHandbook.pdf.	
8.01		
8.02		
8.03	1. Henley, A.R. et al. Sansevieria Production Guide. CFREC-A	1. At present there are no herbicides labeled for use on
	Foliage Plant Note RH-91-30.	Sansevieria beds which selectively kill established weeds
	http://mrec.ifas.ufl.edu/foliage/folnotes/sansevie.htm.	without damaging the crop. Research has demonstrated a
		few preemergence herbicides to be rather effective in
		Sansevieria stock if the beds are thoroughly weeded prior
		to application of the herbicide.
8.04		
8.05		