

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

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Assessment date 25 June 2015

	Senna pendula var glabrata ALL ZONES	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	У	
	Central Zone: mean annual precipitation 40-60 inches		1
2.05	South Zone: mean annual precipitation 40-60 inches Does the species have a history of repeated introductions outside its natural range?	V	
3.01	Naturalized beyond native range	y v	2
3.02	Garden/amenity/disturbance weed	y	2
3.02	Weed of agriculture	unk	
3.04	Environmental weed	у	4
3.04	Congeneric weed	y	2
4.01	Produces spines, thorns or burrs	n	0
4.01	Allelopathic	unk	0
4.02	Parasitic	n	0
4.03		y	1
4.04	Unpalatable to grazing animals Toxic to animals	unk	0
4.05		unk	0
4.06	Host for recognised pests and pathogens	unk	0
4.07	Creates a fire hazard in natural accounts	unk	
4.08	Creates a fire hazard in natural ecosystems	n	0
4.10	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 & Central Zones: infertile soils; South Zone: shallow limerock or Histisols.	ulik	0
4.11	Climbing or smothering growth habit	У	1
4.12	Forms dense thickets	У	1
5.01	Aquatic	n	0
5.02	Grass	n	0
5.03	Nitrogen fixing woody plant	у	1
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 High		gh
	Implemented Pacific Second Screening	no	
	Total Score	2	1
8.05		?	
8.04	Tolerates, or benefits from, mutilation or cultivation	у	1
8.03	Well controlled by herbicides		-1
8.02	Evidence that a persistent propagule bank is formed (>1 yr)	у	1
8.01	Prolific seed production	у	1
7.08	Propagules dispersed by other animals (internally)		1
7.07	Propagules dispersed by other animals (externally) y		1
7.06	Propagules bird dispersed		1
7.05	Propagules water dispersed		1
7.04	Propagules adapted to wind dispersal		-1
7.03	Propagules likely to disperse as a produce contaminant	у	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	у	
6.07	Minimum generative time (years)		-1
6.06	Reproduction by vegetative propagation		-1
6.05	Requires specialist pollinators		0
6.04	Self-compatible or apomictic		-1
6.03	Hybridizes naturally	unk	-1

section	# questions answered	satisfy
	# questions answered	minimum?
Α		10 yes
В		6 yes
С		20 yes
total		36 yes

	Reference	Source data
1.01		Cultivated, but no evidence of selection for reduced weediness
1.02		Skip to 2.01
1.03		Skip to 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: 2 August 2015) 2. Dave's Garden. http://davesgarden.com/guides/pf/go/142451/ (Accessed: 2 August 2015)	No computer analysis was performed. 1. Florida North Zone: Hardiness zones 8 and 9. Central Zone: Hardiness zones 9 and 10. South Zone: Hardiness zone 10. 2. Plant found in USDA hardiness zones 8b through 11.
2.03	The University of Melbourne. Köppen-Geiger Climate Map of	1. Found in the following Köppen-Geiger Climate Zones: Af, Am,
2.03	the World. http://people.eng.unimelb.edu.au/mpeel/koppen.html (Accessed: 2 August 2015) 2. USDA Germplasm Resources Information Network. http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?404359 (Accessed: 2 August 2015) 3. Florida Exotic Pest Plant Council. http://www.fleppc.org/ID_book/senna%20pendula.pdf (Accessed: 2 August 2015) 4. USDA Plants Database. http://plants.usda.gov/core/profile?symbol=SEPEG (Accessed: 2 August 2015)	Aw, BWh, BWk, BSh, BSk, Csa, Csb, Cwa, Cwb, and Cfa. 2. Native to Brazil and Paraguay. 3. Native to Brazil, Peru, Bolivia, Paraguay, and Argentina. Naturalized in the Bahamas, Florida, Alabama, and Mississippi. 4. Native to Florida, Texas, Arizona, and California.
2.04	1. Climate Charts. World Climate Maps. http://www.climate-charts.com/World-Climate-Maps.html#rain (Accessed: 2 August 2015) 2. USDA Germplasm Resources Information Network. http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?404359 (Accessed: 2 August 2015) 3. Florida Exotic Pest Plant Council. http://www.fleppc.org/ID_book/senna%20pendula.pdf (Accessed: 2 August 2015) 4. USDA Plants Database. http://plants.usda.gov/core/profile?symbol=SEPEG (Accessed: 2 August 2015)	1. Found in areas with rainfall within these ranges. 2. Native to Brazil and Paraguay. 3. Native to Brazil, Peru, Bolivia, Paraguay, and Argentina. Naturalized in the Bahamas, Florida, Alabama, and Mississippi. 4. Native to Florida, Texas, Arizona, and California.
2.05	1. Florida Exotic Pest Plant Council.	1. Naturalized in the Bahamas, Florida, Alabama, and Mississippi.
12.03	http://www.fleppc.org/ID_book/senna%20pendula.pdf (Accessed: 2 August 2015) 2. Australia's Tropical Rainforest Plants. http://keys.trin.org.au/key-server/data/0e0f0504-0103-430d-8004-060d07080d04/media/Html/taxon/Senna_pendula_varglabrat a.htm (Accessed: 3 August 2015)	Introduced to Australia and later naturalized
3.01	1. Florida Exotic Pest Plant Council.	1. Naturalized in the Bahamas, Florida, Alabama, and Mississippi.
	http://www.fleppc.org/ID_book/senna%20pendula.pdf (Accessed: 2 August 2015) 2. Australia's Tropical Rainforest Plants. http://keys.trin.org.au/key-server/data/0e0f0504-0103-430d-8004-060d07080d04/media/Html/taxon/Senna_pendula_varglabrat a.htm (Accessed: 3 August 2015)	2. Introduced to Australia and later naturalized
	1. Fraser Coast Regional Council. http://www.frasercoast.qld.gov.au/en_US/weed-busting/- /asset_publisher/4jRk/content/easter-cassia-senna-pendula-var- glabrata (Accessed: 2 August 2015) 2. Queensland Government Department of Agriculture and Fisheries. https://www.daf.qld.gov.au/plants/weeds-pest-animals- ants/weeds/a-z-listing-of-weeds/photo-guide-to-weeds/easter- cassia (Accessed: 2 August 2015)	"Easily colonises disturbed areas and invades bushland." 2. "The seedlings come up in bushland, disturbed areas and road sides." "The seedlings come up in bushland, disturbed areas and road sides."
3.03		No evidence

2.04	14. 0	1
3.04	1. Queensland Government.	1. "Easter cassia (Senna pendula var. glabrata) is regarded as a
	http://keyserver.lucidcentral.org/weeds/data/080c0106-040c-	significant environmental weed in New South Wales and
	4508-8300-	Queensland. It was recently listed as a priority environmental
	0b0a06060e01/media/Html/Senna_pendula_varglabrata.htm	weed in two Natural Resource Management regions, and is
	(Accessed: 2 August 2015) 2. Queensland Government	actively managed by community groups in Queensland." 2.
	Department of Agriculture and Fisheries.	"Impacts: Environmental:
	https://www.daf.qld.gov.au/plants/weeds-pest-animals-	Invades disturbed or modified areas.
	ants/weeds/a-z-listing-of-weeds/photo-guide-to-weeds/easter-	Smothers native vegetation." 3. "Displaces native vegetation in
	cassia (Accessed: 2 August 2015) 3. Florida Exotic Pest Plant	disturbed and undisturbed areas of Florida's tropical hammocks,
	Council. http://www.fleppc.org/ID_book/senna%20pendula.pdf	coastal strands, and canal banks"
	(Accessed: 2 August 2015)	
3.05	1. Global Compendium of Weeds.	1. Several taxa with similar biology are listed as weeds. For
	http://www.hear.org/gcw/scientificnames/scinames.htm	example, Senna occidentalis is listed as an agricultural weed,
	(Accessed: 3 August 2015)	environmental weed, and noxius weed. Senna septemtrionalis is
		listed as an agricultural weed and environmental weed. Senna
		surattensis is listed as an agricultural weed and an environmental
		weed. Senna tora is listed as an agricultural weed, environmental
		weed, and noxious weed.
4.01	1. Florida Exotic Pest Plant Council.	1&2. Features not in the description of the plant
	http://www.fleppc.org/ID_book/senna%20pendula.pdf	
	(Accessed: 2 August 2015) 2. Queensland Government.	
	http://keyserver.lucidcentral.org/weeds/data/080c0106-040c-	
	4508-8300-	
	0b0a06060e01/media/Html/Senna_pendula_varglabrata.htm	
	(Accessed: 2 August 2015)	
4.02		No evidence
4.03		No evidence
4.04	1. Livestock Research for Rural Development.	1. Chickens did not eat no other evidence of consumption by
	http://www.lrrd.org/lrrd21/10/simo21170.htm (Accessed: 3	livestock
	August 2015)	
4.05		No evidence
4.06		No evidence
4.07		No evidence
4.08		No evidence
4.09	1. Florida Exotic Pest Plant Council.	1. "Often becomes established in sunny openings and then
	http://www.fleppc.org/ID_book/senna%20pendula.pdf	clambers over adjacent canopy" 2. "Sun exposure: Full sun to
	(Accessed: 2 August 2015) 2. Dave's Garden.	partial shade"
	http://davesgarden.com/guides/pf/go/142451/ (Accessed: 2	
	August 2015)	
4.10	1. Waterright. http://www.waterright.com.au/soil_maker.html	1. "Our work has focused on using Eater Casia (Senna pendula
	(Accessed: 2 August 2015)	var. glabrata) to regenerate soil. It is a pioneer species and can
		grow on severely degraded soil. It is an extremely robust plant
		which thrives in poor soils, providing large quantities of succulent
		foliage which can be used for food by the soil biology, It is a
		legume and can capture nitrogen and with its deep and effective
		roots system is very efficient at mining phosphorous from deep
		in the soil." Insufficient evidence
4.11	Queensland Government Department of Agriculture and	"Smothers native vegetation."
	Fisheries. https://www.daf.qld.gov.au/plants/weeds-pest-	1. Smothers halive vegetation.
	animals-ants/weeds/a-z-listing-of-weeds/photo-guide-to-	
	weeds/easter-cassia (Accessed: 2 August 2015)	
	weeds/ Easter-cassia (Accessed, 2 August 2013)	

4.12	1. Weeds of Byron Shire.	1. Lists control methods for a "dense thicket" of Senna pendula
	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=we	<u>-</u>
	b&cd=12&ved=0CCMQFjABOApqFQoTCKnMns6CjccCFUmSDQod	
	WO4FzA&url=http%3A%2F%2Fwww.byron.nsw.gov.au%2Ffiles%	
	2Fpublications%2FWeed_Profile	
	Winter_Senna.pdf&ei=ymy_Vam_KcmkNtjcl-	
	AM&usg=AFQjCNEtW-DlepveNhxPjw7clUh-	
	ZJLCVg&sig2=kSM3B7SS3CRq-	
	Jr0fQjang&bvm=bv.99261572,d.eXY (Accessed: 2 August 2015)	
5.01	USDA Germplasm Resources Information Network.	1. "Family: Fabaceae"
3.01	http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?404359	11 Talling Tabaccac
	(Accessed: 2 August 2015)	
5.02	USDA Germplasm Resources Information Network.	1. "Family: Fabaceae"
	http://www.ars-grin.gov/cgi-bin/npgs/html/taxon.pl?404359	,
	(Accessed: 2 August 2015)	
5.03	1. Waterright. http://www.waterright.com.au/soil_maker.html	1. "It is a legume and can capture nitrogen" 2. "A woody, multi-
	(Accessed: 2 August 2015) 2. Redland City Council News.	branched shrub"
	https://news.redland.qld.gov.au/2013/03/weed-of-the-week-	
	easter-cassia/ (Accessed: 2 August 2015)	
5.04		No evidence of specialized structures
6.01		No evidence of substantial reproductive failure
6.02	1. Biosecurtiy Queensland.	1. "Flowering is followed by hundreds of brown, slender seed
	https://www.moretonbay.qld.gov.au/uploadedFiles/moretonbay	pods up to 12 cm long and each containing 5–10 seeds." 2. "This
	/environment/vegetation/easter-cassia-deedi.pdf (Accessed: 2	plant reproduces by seeds."
	August 2015) 2. Queensland Government.	
	http://keyserver.lucidcentral.org/weeds/data/080c0106-040c-	
	4508-8300-	
	0b0a06060e01/media/Html/Senna_pendula_varglabrata.htm	
	(Accessed: 2 August 2015)	
6.03		No evidence
6.04		No evidence
6.05	1. University of Florida IFAS Extension.	1. Formerly recommended for Monarch butterflied prior to being
	https://edis.ifas.ufl.edu/uw311 (Accessed: 2 August 2015)	found invasive
6.06	1. Biosecurtiy Queensland.	1. "Flowering is followed by hundreds of brown, slender seed
	https://www.moretonbay.qld.gov.au/uploadedFiles/moretonbay	pods up to 12 cm long and each containing 5–10 seeds." 2. "This
	/environment/vegetation/easter-cassia-deedi.pdf (Accessed: 2	plant reproduces by seeds." no evidence of vegetative
	August 2015) 2. Queensland Government.	propagation
	http://keyserver.lucidcentral.org/weeds/data/080c0106-040c-	
	4508-8300-	
	0b0a06060e01/media/Html/Senna_pendula_varglabrata.htm	
	(Accessed: 2 August 2015)	
6.07		No evidence

L. Biosecurtiy Queensland. https://www.moretonbay.qld.gov.au/uploadedFiles/moretonbay/environment/vegetation/easter-cassia-deedi.pdf (Accessed: 2	· · · · · · · · · · · · · · · · · · ·
• • • • • • • • • • • • • • • • • • • •	· · · · · · · · · · · · · · · · · · ·
	waste. They may also be spread by water or in contaminated
August 2015) 2. Queensland Government.	soil." 3. "Spread by machinery"
http://keyserver.lucidcentral.org/weeds/data/080c0106-040c-	, ,
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	1. "Widely cultivated as a garden ornamental, particularly in the
	wetter coastal districts of Australia."
-	
L. Whitsunday Catchment Landcare.	1. "Spread by contaminated harvest material and fodder"
nttps://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=we	
PMIsQ&url=http%3A%2F%2Fwww.whitsundaylandcare.org.au%2	
_literature_100852%2FWCL_Newsletter_June_2012&ei=LHG_V	
Abvm=bv.99261572,d.eXY (Accessed: 2 August 2015)	
L. Queensland Government.	No features adapting the seeds or pods to wind dispersal
http://keyserver.lucidcentral.org/weeds/data/080c0106-040c-	
	4. Illa is face a country occur along an adeidos and on the books of
•	1. "It is frequently seen along roadsides and on the banks of
	waterways. 1. They may also be spread by water
-	
- '	1. "from where its seed can be carried by birds or by dumping" 2.
•	· · · · · · · · · · · · · · · · · · ·
•	animals and remain viable in the soil for more than 5 years." 3.
Council.	"Seed dispersed by water, ants, birds, rodents."
http://doc.shoalhaven.nsw.gov.au/displaydoc.aspx?record=D11/	
137881 (Accessed: 2 August 2015) 3. Weeds of Byron Shire.	
https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=we	
0&cd=12&ved=0CCMQFjABOApqFQoTCKnMns6CjccCFUmSDQod	
NO4FzA&url=http%3A%2F%2Fwww.byron.nsw.gov.au%2Ffiles%	
Profile	
_Winter_Senna.pdf&ei=ymy_Vam_KcmkNtjcl-	
AM&usg=AFQjCNEtW-DlepveNhxPjw7clUh-	
ZJLCVg&sig2=kSM3B7SS3CRq-	
r0fQjang&bvm=bv.99261572,d.eXY (Accessed: 2 August 2015)	
TO PAIL TO PA	ttps://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=we&cd=16&ved=OCD8QFjAFOApqFQoTCJXqoeWGjccCFQLUgAodUMIsQ&url=http%3A%2F%2Fwww.whitsundaylandcare.org.au%2_literature_100852%2FWCL_Newsletter_June_2012&ei=LHG_VWkK4KogwTQ5qOICw&usg=AFQjCNFvjZ-t160tVEm7BHsARLV0mph_A&sig2=3Uy7f9CEVNXn9FuIRSmArAtbvm=bv.99261572,d.eXY (Accessed: 2 August 2015) Queensland Government. ttp://keyserver.lucidcentral.org/weeds/data/080c0106-040c-508-8300-b0a06060e01/media/Html/Senna_pendula_varglabrata.htmAccessed: 2 August 2015) Biosecurtiy Queensland. ttps://www.moretonbay.qld.gov.au/uploadedFiles/moretonbayenvironment/vegetation/easter-cassia-deedi.pdf (Accessed: 2 ugust 2015) 2. Queensland Government. ttp://keyserver.lucidcentral.org/weeds/data/080c0106-040c-508-8300-b0a06060e01/media/Html/Senna_pendula_varglabrata.htmAccessed: 2 August 2015) Save Our Waterways Now. ttp://www.saveourwaterwaysnow.com.au/01_cms/details_popasp?ID=374 (Accessed: 2 August 2015) 2. Shoalhaven Cityouncil. ttp://doc.shoalhaven.nsw.gov.au/displaydoc.aspx?record=D11/37881 (Accessed: 2 August 2015) 3. Weeds of Byron Shire. ttps://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=we&cd=12&ved=0CCMQFjABOApqFQoTCKnMns6CjccCFUmSDQod/O4FzA&url=http%3A%2F%2Fwww.byron.nsw.gov.au%2Ffiles%Fpublications%2FWeed_Profile Winter_Senna.pdf&ei=ymy_Vam_KcmkNtjcl-M&usg=AFQjCNEtW-DlepveNhxPjw7clUh-JICCVg&sig2=kSM3B7SS3CRq-

7.07	1 Whitsunday Catchment Landsare	1. "Spread by animal hooves"
17.07	1. Whitsunday Catchment Landcare.	1. Spread by animal hooves
	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=we	
	b&cd=16&ved=0CD8QFjAFOApqFQoTCJXqoeWGjccCFQLUgAodU	
	PMIsQ&url=http%3A%2F%2Fwww.whitsundaylandcare.org.au%2	
	F_literature_100852%2FWCL_Newsletter_June_2012&ei=LHG_V	
	ZWkK4KogwTQ5qOICw&usg=AFQjCNFvjZ-	
	jk160tVEm7BHsARLV0mph_A&sig2=3Uy7f9CEVNXn9FuIRSmArA	
	&bvm=bv.99261572,d.eXY (Accessed: 2 August 2015)	
7.08	1. Shoalhaven City Council.	1. "These seeds are spread long distances by birds and other
	1	animals and remain viable in the soil for more than 5 years." 2.
	137881 (Accessed: 2 August 2015) 2. Weeds of Byron Shire.	"Seed dispersed by water, ants, birds, rodents."
	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=we	
	b&cd=12&ved=0CCMQFjABOApqFQoTCKnMns6CjccCFUmSDQod	
	WO4FzA&url=http%3A%2F%2Fwww.byron.nsw.gov.au%2Ffiles%	
	2Fpublications%2FWeed_Profile	
	Winter_Senna.pdf&ei=ymy_Vam_KcmkNtjcl-	
	AM&usg=AFQjCNEtW-DlepveNhxPjw7clUh-	
	ZJLCVg&sig2=kSM3B7SS3CRq-	
	Jr0fQjang&bvm=bv.99261572,d.eXY (Accessed: 2 August 2015)	
8.01	1. Biosecurtiy Queensland.	1. "Flowering is followed by hundreds of brown, slender seed
	https://www.moretonbay.qld.gov.au/uploadedFiles/moretonbay	pods up to 12 cm long and each containing 5–10 seeds."
	/environment/vegetation/easter-cassia-deedi.pdf (Accessed: 2	
	August 2015)	
8.02	1. Shoalhaven City Council.	1. "remain viable in the soil for more than 5 years" 3. "Seed is
	l ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	long-lived (3-5 years or more) in the soil"
	137881 (Accessed: 2 August 2015) 2. Weeds of Byron Shire.	
	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=we	
	b&cd=12&ved=0CCMQFjABOApqFQoTCKnMns6CjccCFUmSDQod	
	WO4FzA&url=http%3A%2F%2Fwww.byron.nsw.gov.au%2Ffiles%	
	2Fpublications%2FWeed_Profile	
	Winter_Senna.pdf&ei=ymy_Vam_KcmkNtjcl-	
	AM&usg=AFQjCNEtW-DlepveNhxPjw7clUh-	
	ZJLCVg&sig2=kSM3B7SS3CRq-	
	Jr0fQjang&bvm=bv.99261572,d.eXY (Accessed: 2 August 2015)	
8.03	1. Biosecurtiy Queensland.	1. "This plant can be controlled with herbicides." 2. "Herbicides
	1 1 2 1 1	are effective." 3. "Chemical control by cut stump with Glyphosate
	I	or basal bark spray with fluoxypyr and diesel."
	August 2015) 2. Queensland Government Department of	
	Agriculture and Fisheries.	
	https://www.daf.qld.gov.au/plants/weeds-pest-animals-	
	ants/weeds/a-z-listing-of-weeds/photo-guide-to-weeds/easter-	
	cassia (Accessed: 2 August 2015) 3. Fraser Coast Regional	
	Council. http://www.frasercoast.qld.gov.au/en_US/weed-	
1	busting/-/asset_publisher/4jRk/content/easter-cassia-senna-	
1	pendula-var-glabrata (Accessed: 2 August 2015)	l l

8.04	1. Weeds of Byron Shire.	1. "germination is likely to be stimulated by fire. Plants also re-
	https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=we	sprout from the roots after fire." 2. "Remove the whole crown
	b&cd=12&ved=0CCMQFjABOApqFQoTCKnMns6CjccCFUmSDQod	for the achievement of long term control. This approach may be
	WO4FzA&url=http%3A%2F%2Fwww.byron.nsw.gov.au%2Ffiles%	deemed too labour intensive for more established individual
	2Fpublications%2FWeed_Profile	plants or for larger infestations."
	Winter_Senna.pdf&ei=ymy_Vam_KcmkNtjcl-	
	AM&usg=AFQjCNEtW-DlepveNhxPjw7clUh-	
	ZJLCVg&sig2=kSM3B7SS3CRq-	
	Jr0fQjang&bvm=bv.99261572,d.eXY (Accessed: 2 August 2015) 2.	
	Queensland Government Department of Agriculture and	
	Fisheries. https://www.daf.qld.gov.au/plants/weeds-pest-	
	animals-ants/weeds/a-z-listing-of-weeds/photo-guide-to-	
	weeds/easter-cassia (Accessed: 3 August 2015)	
8.05		No evidence