

<b>Weed (Scientific name)</b>	<b>Senna pendula var glabrata - Caesalpinoidae - Fabaceae</b>		
<b>Region</b>	<b>Sydney</b>		
<b>Management Area</b>			
<b>Landuse</b>	<b>1. CONSERVATION AND NATURAL ENVIRONMENTS</b>		
<b>Assumptions</b>			
<b><i>Invasiveness</i></b>	<b>Score</b>	<b>Total</b>	
<b>Q1. What is the ability of the weed to establish amongst existing plants?</b>		<b>2.0</b>	Seedlings establish within open vegetation or weeds Q1
<b>Q2. What is the weed's tolerance to average weed management practices in the land use?</b>		<b>1.0</b>	Between 5 and 50% of weeds survive Q2
<b>Q3. What is the reproductive ability of the weed in the land use?</b>		<b>1.0</b>	
(a) Time to seeding	1.0		>1-3 yrs Q3
(b) Annual seed production	1.0		Low
(c) Vegetative reproduction	0.0		None
<b>Q4. How likely is long-distance dispersal (&gt;100m) by natural means?</b>		<b>2.0</b>	
(a) Flying animals	1.0		Occasional Q4
(b) Other wild animals	1.0		Occasional
(c) Water	1.0		Occasional
(d) Wind	0.0		Unlikely
<b>Q5. How likely is long-distance dispersal (&gt;100 m) by human means?</b>		<b>1.0</b>	
(a) Deliberate spread by people	2.0		Common Q5
(b) Accidentally by people and vehicles	0.0		Unlikely
(c) Contaminated produce	0.0		Unlikely
(d) Domestic/farm animals	0.0		Unlikely
<b>Total</b>		<b>4.7</b>	

<b>Impacts</b>	<b>Score</b>	<b>Total</b>		
Q1. Does the weed reduce the establishment of desired plants?		<b>1.0</b>	< 10% reduction	Q1
Q2. Does the weed reduce the yield or amount of desired vegetation?		<b>1.0</b>	< 10% reduction	Q2
Q3. Does the weed reduce the quality of products, diversity or services available from the land use?		<b>1.0</b>	Low	Q3
Q4. What is the weed's potential to restrict the physical movement of people, animals, vehicles, machinery and/or water?		<b>0.0</b>	None	Q4
Q5. What is the weed's potential to negatively affect the health of animals and/or people?		<b>1.0</b>	Low	Q5
Q6. Does the weed have major positive or negative effects on environmental health?		<b>1.0</b>		Q6
(a) food/shelter	0.0		Minor or no effect	
(b) fire regime	0.0		Minor or no effect	
(c) altered nutrient levels	0.0		Minor or no effect	
(d) soil salinity	?		Do not know	
(e) soil stability	0.0		Minor or no effect	
(f) soil water table	0.0		Minor or no effect	
<b>Total</b>		<b>2.6</b>		
<b>Potential Distribution</b>				
Q1. Within the geographic area being considered, what is the percentage area of land use that is suitable for the weed?		<b>8.0</b>	60-80% of land use	Q1
<b>Comparative weed risk score</b>		<b>98</b>		
<b>Weed risk category</b>		<b>Medium</b>		

<b>Control Costs</b>		<b>Score</b>	<b>Total</b>	
<b>Q1. How detectable is the weed?</b>			<b>2</b>	Q1
(a) Distinguishing features	0			
(b) Period of year shoot growth visible	0			
(c) Height at maturity	1			
(d) Pre-reproductive height in relation to other vegetation	2			
<b>Q2. What is the general accessibility of known infestations at the optimum time of treatment?</b>			<b>0</b>	Q2
<b>Q3. How expensive is management of the weed in the first year of targeted control?</b>			<b>4</b>	Q3
(a) Chemical costs/ha	2			
(b) Labour costs/ha	4			
(c) Equipment costs	1			
<b>Q4. What is the likely level of participation from landholders/volunteers within the land use at risk?</b>			<b>0.0</b>	Q4
<b>Total</b>			<b>5.0</b>	
<b>Persistence</b>		<b>Score</b>	<b>Total</b>	
<b>Q1. How effective are targeted management treatments applied to infestations of the weed?</b>			<b>1</b>	Q1
<b>Q2. What is the minimum time period for reproduction of sexual or vegetative propagules?</b>			<b>0</b>	Q2
<b>Q3. What is the maximum longevity of sexual or vegetative propagules?</b>			<b>2</b>	Q3
<b>Q4. How likely are new propagules to continue to arrive at control sites, or to start new infestations?</b>			<b>2.0</b>	Q4
(a) Long-distance (>100m) dispersal by natural means	1			
(b) Long-distance (>100m) dispersal by human means	1			
<b>Total</b>			<b>4.5</b>	
<b>Current distribution</b>				
<b>Q1. What percentage area of the land use in the geographical area is currently infested by the weed?</b>			<b>0.1</b>	Q1
<b>Q2. What is the number of infestations, and weed distribution within the geographic area being considered?</b>			<b>1.0</b>	Q2
<b>Total</b>			<b>0.9</b>	
<b>Comparative feasibility of coordinated control score</b>			<b>21</b>	
<b>Feasibility of coordinated control category</b>			<b>High</b>	

<p style="text-align: center;"><b>Management priority category</b></p> <p style="text-align: center;"><b>Calculation of overall uncertainty score</b></p> <p style="text-align: center;"><b>Response</b></p>	<p>Protect priority sites</p> <p>1%</p> <p><b>Submit Assessment</b></p>
<p style="text-align: center;"><b>Positive Impacts</b></p>	
<p><b>References/Other comments</b></p>	

Re: Sources: Many of the questions above answered as a group by: C Williams - Sydney North WC, R Adlmayer Sydney Central WC, M Costigan Sydney West/Blue Mountains WC, and

**Source and comments**

<http://www.esc.nsw.gov.au/weeds/Sheets/shrubs/S%20Cassia.htm>  
[http://www.fleppc.org/ID\\_book/senna%20pendula.pdf](http://www.fleppc.org/ID_book/senna%20pendula.pdf).

see below

[http://www.weedsbluemountains.org.au/more\\_weeds\\_woody.asp](http://www.weedsbluemountains.org.au/more_weeds_woody.asp)  
[http://www.fleppc.org/ID\\_book/senna%20pendula.pdf](http://www.fleppc.org/ID_book/senna%20pendula.pdf)

<http://www.esc.nsw.gov.au/weeds/Sheets/shrubs/S%20Cassia.htm>

<http://www.esc.nsw.gov.au/weeds/Sheets/shrubs/S%20Cassia.htm> Also dispersed  
by soil movement. [http://www.fleppc.org/ID\\_book/senna%20pendula.pdf](http://www.fleppc.org/ID_book/senna%20pendula.pdf)

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[http://www.fleppc.org/ID\\_book/senna%20pendula.pdf](http://www.fleppc.org/ID_book/senna%20pendula.pdf)

Medicinal use, can also be toxic.

Salt tolerant. [http://www.fleppc.org/ID\\_book/senna%20pendula.pdf](http://www.fleppc.org/ID_book/senna%20pendula.pdf)  
Germination stimulated by fire. Plants resprout from roots after fire.  
<http://www.esc.nsw.gov.au/weeds/Sheets/shrubs/S%20Cassia.htm> Nitrogen fixer.

Grows in most habitats including sand dunes and ephemeral wetlands/waterways.

<http://www.esc.nsw.gov.au/weeds/Sheets/shrubs/S%20Cassia.htm> Occasional plants have been seen to reach 4m.

<http://www.esc.nsw.gov.au/weeds/Sheets/shrubs/S%20Cassia.htm>

[http://www.fleppc.org/ID\\_book/senna%20pendula.pdf](http://www.fleppc.org/ID_book/senna%20pendula.pdf)

Size of existing infestations varies across Sydney region.

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M Hall & L Kaye NPWS, with the assistance of Sue Stevens.