

Weed (Scientific name)	Salix nigra - Salicaceae		
Region			
Management Area			
Landuse			
Assumptions	Much willow biology/ecology information is genus - specific only (info excludes sterile spp.). SS		
<i>Invasiveness</i>	Score	Total	
Q1. What is the ability of the weed to establish amongst existing plants?		1.0	Seedlings establish after moderate disturbance Q1
Q2. What is the weed's tolerance to average weed management practices in the land use?			Q2
Q3. What is the reproductive ability of the weed in the land use?		3.0	Q3
(a) Time to seeding	?		Do not know
(b) Annual seed production	2.0		High
(c) Vegetative reproduction	2.0		Frequent
Q4. How likely is long-distance dispersal (>100m) by natural means?		3.0	Q4
(a) Flying animals	2.0		Common
(b) Other wild animals	1.0		Occasional
(c) Water	2.0		Common
(d) Wind	2.0		Common
Q5. How likely is long-distance dispersal (>100 m) by human means?		2.0	Q5
(a) Deliberate spread by people	2.0		Common
(b) Accidentally by people and vehicles	1.0		Occasional
(c) Contaminated produce	0.0		Unlikely
(d) Domestic/farm animals	0.0		Unlikely
Total			

Impacts	Score	Total	
Q1. Does the weed reduce the establishment of desired plants?		3.0	> 50% reduction Q1
Q2. Does the weed reduce the yield or amount of desired vegetation?		4.0	> 50% reduction Q2
Q3. Does the weed reduce the quality of products, diversity or services available from the land use?		3.0	High Q3
Q4. What is the weed's potential to restrict the physical movement of people, animals, vehicles, machinery and/or water?		3.0	High Q4
Q5. What is the weed's potential to negatively affect the health of animals and/or people?		3.0	High Q5
Q6. Does the weed have major positive or negative effects on environmental health?		3.0	Q6
(a) food/shelter	1.0		Major negative effect
(b) fire regime	?		Do not know
(c) altered nutrient levels	1.0		Major negative effect
(d) soil salinity	?		Do not know
(e) soil stability	1.0		Major negative effect
(f) soil water table	1.0		Major negative effect
Total		10.0	
Potential Distribution			
Q1. Within the geographic area being considered, what is the percentage area of land use that is suitable for the weed?			Q1
Comparative weed risk score			
Weed risk category			

<p>Control Costs</p> <p>Q1. How detectable is the weed? (a) Distinguishing features (b) Period of year shoot growth visible (c) Height at maturity (d) Pre-reproductive height in relation to other vegetation</p> <p>Q2. What is the general accessibility of known infestations at the optimum time of treatment?</p> <p>Q3. How expensive is management of the weed in the first year of targeted control? (a) Chemical costs/ha (b) Labour costs/ha (c) Equipment costs</p> <p>Q4. What is the likely level of participation from landholders/volunteers within the land use at risk?</p> <p style="text-align: right;">Total</p>	<p>Score</p> <p>1 1 0 2</p>	<p>Total</p> <p>2</p> <p>sometimes distinct 4-8 months > 2 m below canopy</p>	<p>Q1 Q2 Q3 Q4</p>
<p>Persistence</p> <p>Q1. How effective are targeted management treatments applied to infestations of the weed?</p> <p>Q2. What is the minimum time period for reproduction of sexual or vegetative propagules?</p> <p>Q3. What is the maximum longevity of sexual or vegetative propagules?</p> <p>Q4. How likely are new propagules to continue to arrive at control sites, or to start new infestations? (a) Long-distance (>100m) dispersal by natural means (b) Long-distance (>100m) dispersal by human means</p> <p style="text-align: right;">Total</p>	<p>Score</p> <p>2 1</p>	<p>Total</p> <p>3 < 6 months 0 < 2 years 2.0 frequent occasional</p>	<p>Q1 Q2 Q3 Q4</p>
<p>Current distribution</p> <p>Q1. What percentage area of the land use in the geographical area is currently infested by the weed?</p> <p>Q2. What is the number of infestations, and weed distribution within the geographic area being considered?</p> <p style="text-align: right;">Total</p>			<p>Q1 Q2</p>
<p style="text-align: center;">Comparative feasibility of coordinated control score Feasibility of coordinated control category</p>			

<p style="text-align: center;">Management priority category</p> <p style="text-align: center;">Calculation of overall uncertainty score</p> <p style="text-align: center;">Response</p>	
<p style="text-align: center;">Positive Impacts</p>	
<p>References/Other comments</p>	

Source and comments

? Spreads mostly along creeklines and rivers. http://www.dpi.qld.gov.au/4790_7422.htm

http://www.dpi.qld.gov.au/4790_7422.htm

http://www.weeds.org.au/WoNS/willows/docs/Willows_Sect1.pdf

http://www.dpi.qld.gov.au/4790_7422.htm

http://www.weeds.org.au/WoNS/willows/docs/Willows_Sect1.pdf Richardson, Richardson & Shepherd

Still planted as a measure to reduce stream bank erosion, but this only has a temporary effect. http://www.weeds.org.au/WoNS/willows/docs/Willows_Sect1.pdf

Shade out terrestrial and aquatic plants.
http://www.weeds.org.au/WoNS/willows/docs/Willows_Sect1.pdf

http://www.weeds.org.au/WoNS/willows/docs/Willows_Sect1.pdf

Roots spread into beds of watercourses, which slows water flow, reduces aeration and causes flooding and erosion. http://www.dpi.qld.gov.au/4790_7422.htm Not as much as some other Salix spp.

Not poisonous http://www.weeds.org.au/WoNS/willows/resources.htm#risk_assessment but See Q6.

Shade out rivers, damaging their natural ecology, killing aquatic fauna and flora. Consume large amounts of water. Cause increased erosion and flooding.
http://www.weeds.org.au/WoNS/willows/docs/Willows_Sect1.pdf Reduces bird habitat.
http://www.weeds.org.au/WoNS/willows/resources.htm#risk_assessment

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