Weed (Scientific name)	**Lycium ferocissimum - Solanaceae**
Region	**Sydney**
Management Area	**Sydney**
Landuse	**1. CONSERVATION AND NATURAL ENVIRONMENTS**
Assumptions	

Invasiveness	**Score**	**Total**		
Q1. What is the ability of the weed to establish amongst existing plants?		**2.0**	Seedlings establish within open vegetation or weeds	Q1
Q2. What is the weed's tolerance to average weed management practices in the land use?		**2.0**	Between 50 and 95% of weeds survive	Q2
Q3. What is the reproductive ability of the weed in the land use?		**2.0**		Q3
(a) Time to seeding	1.0		>1-3 yrs	
(b) Annual seed production	2.0		High	
(c) Vegetative reproduction	1.0		Infrequent	
Q4. How likely is long-distance dispersal (>100m) by natural means?		**2.0**		Q4
(a) Flying animals	2.0		Common	
(b) Other wild animals	2.0		Common	
(c) Water	1.0		Occasional	
(d) Wind	0.0		Unlikely	
Q5. How likely is long-distance dispersal (>100 m) by human means?		**0.0**		Q5
(a) Deliberate spread by people	0.0		Unlikely	
(b) Accidentally by people and vehicles	0.0		Unlikely	
(c) Contaminated produce	0.0		Unlikely	
(d) Domestic/farm animals	0.0		Unlikely	
Total		**5.3**		

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?		**3.0**	25 - 50% reduction	Q2
Q3. Does the weed reduce the quality of products, diversity or services available from the land use?		**1.0**	Low	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?		**2.0**	Medium	Q5
Q6. Does the weed have major positive or negative effects on environmental health?		**1.0**		Q6
(a) food/shelter	0.0		Minor or no effect	
(b) fire regime	?		Do not know	
(c) altered nutrient levels	0.0		Minor or no effect	
(d) soil salinity	0.0		Minor or no effect	
(e) soil stability	0.0		Minor or no effect	
(f) soil water table	0.0		Minor or no effect	
Total		**6.8**		
Potential Distribution				
Q1. Within the geographic area being considered, what is the percentage area of land use that is suitable for the weed?		**4.0**	20-40% of land use	Q1
Comparative weed risk score		**146**		
Weed risk category		**High**		

Control Costs	Score	Total		
Q1. How detectable is the weed?		**2**		Q1
(a) Distinguishing features	1		sometimes distinct	
(b) Period of year shoot growth visible	0		> 8 months	
(c) Height at maturity	0		> 2 m	
(d) Pre-reproductive height in relation to other vegetation	2		below canopy	
Q2. What is the general accessibility of known infestations at the optimum time of treatment?		**0**	high	Q2
Q3. How expensive is management of the weed in the first year of targeted control?		**4**		Q3
(a) Chemical costs/ha	3		high ($250-$500/ha)	
(b) Labour costs/ha	4		very high (>$500/ha)	
(c) Equipment costs	1		low	
Q4. What is the likely level of participation from landholders/volunteers within the land use at risk?		**1.0**	medium	Q4
Total		**5.8**		

Persistence	Score	Total		
Q1. How effective are targeted management treatments applied to infestations of the weed?		**2**	medium	Q1
Q2. What is the minimum time period for reproduction of sexual or vegetative propagules?		**0**	>2 years	Q2
Q3. What is the maximum longevity of sexual or vegetative propagules?		**?**	do not know	Q3
Q4. How likely are new propagules to continue to arrive at control sites, or to start new infestations?		**2.0**		Q4
(a) Long-distance (>100m) dispersal by natural means	2		frequent	
(b) Long-distance (>100m) dispersal by human means	0		rare	
Total		**4.5**		

Current distribution				
Q1. What percentage area of the land use in the geographical area is currently infested by the weed?		**0.1**	<1% of land use	Q1
Q2. What is the number of infestations, and weed distribution within the geographic area being considered?		**1.0**	scattered	Q2
Total		**0.9**		

Comparative feasibility of coordinated control score	**24**	
Feasibility of coordinated control category	**High**	

Management priority category	**Contain spread**
Calculation of overall uncertainty score	**4%**
Response	**Submit Assessment**
Positive Impacts	

References/Other comments

Re: Sources: Many of the questions above answered as a group by: J Vollmer & S Granger - Sydney North WC, D Walker & K Harper Sydney Central WC, and N Booth & D Simmons Sy

Source and comments
http://www.dpi.qld.gov.au/4790_7105.htm
see below
At least 2 years to flowering. http://www.dpi.qld.gov.au/documents/Biosecurity_EnvironmentalPests/IPA-African-Boxthorn-PP8.pdf http://www.dpi.vic.gov.au/dpi/vro/vrosite.nsf/pages/invasive_african_boxthorn
http://www.dpi.qld.gov.au/documents/Biosecurity_EnvironmentalPests/IPA-African-Boxthorn-PP8.pdf http://www.dpi.vic.gov.au/dpi/vro/vrosite.nsf/pages/invasive_african_boxthorn
Formerly popular as hedge plant. http://www.dpi.qld.gov.au/documents/Biosecurity_EnvironmentalPests/IPA-African-Boxthorn-PP8.pdf

Depending of level of infestation. http://www.dpi.vic.gov.au/dpi/vro/vrosite.nsf/pages/impact_african_boxthorn
http://www.dpi.vic.gov.au/dpi/vro/vrosite.nsf/pages/impact_african_boxthorn
http://www.dpi.vic.gov.au/dpi/vro/vrosite.nsf/pages/impact_african_boxthorn
http://www.dpi.qld.gov.au/4790_7105.htm http://www.dpi.vic.gov.au/dpi/vro/vrosite.nsf/pages/impact_african_boxthorn
Spines can reach 15 cm long. Muyt
Harbour for rabbits and foxes and small native mammals. http://www.dpi.vic.gov.au/dpi/vro/vrosite.nsf/pages/impact_african_boxthorn Also major positive effect for small bird habitat. SS Depends on vegetation community it is occurring in, so answer to (a) is generally major positive in woodlands, and major negative in riparian areas.

http://www.dpi.qld.gov.au/4790_7105.htm Could be confused with native Bursaria spinosa

http://www.dpi.vic.gov.au/dpi/vro/vrosite.nsf/pages/invasive_african_boxthorn
http://www.dpi.vic.gov.au/dpi/vro/vrosite.nsf/pages/invasive_african_boxthorn
http://www.dpi.vic.gov.au/dpi/vro/vrosite.nsf/pages/invasive_african_boxthorn

Restricted to western Sydney, but scattered across that area.

ydney West/Blue Mountains WC, with the assistance of Sue Stevens.