

NSW Weed Risk management assessment: *Olea europaea* ssp. *cuspidata*

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		<i>Olea</i>		
		<i>europaea</i>		
		ssp. <i>cuspidata</i>	African olive	
		Olive		
		Oleaceae		
	Area considered:	across Sydney basin		
	Landuse:	Nature conservation		
	Density:	High density in landuse		
		Standard weed management is site treatment with a range of labour-intensive tools.		
Invasiveness			Do not know	
Q1	score	3	0.0	Virtue (2004) Native landuse WRM assessment.
Q2	score	3	0.0	Virtue (2004) Native landuse WRM assessment.
Q3	a	0	0.0	Cuneo and Leishman (2006), pg. 552.
	b	2	0.0	Cuneo and Leishman (2006), pg. 550.
	c	0	0.0	Virtue (2004) Native landuse WRM assessment.
	total	2		
Q3	score	1		
Q4	a	2	0.0	Cuneo and Leishman (2006), pg. 552.
	b	2	0.0	Cuneo and Leishman (2006), pg. 552.
	c	0	0.0	Cuneo and Leishman (2006), not mentioned.
	d	0	0.0	Cuneo and Leishman (2006), not mentioned.
	total	4		
Q4	score	2		
Q5	a	1	0.0	Intentional human plantings now rare - species out of vogue.
	b	0	0.0	Cuneo and Leishman (2006), not mentioned.
	c	0	0.0	Cuneo and Leishman (2006), not mentioned.
	d	0	0.0	Cuneo and Leishman (2006), not mentioned.
	total	1		
Q5	score	1		
Invasiveness score		10		
Impacts				
Q1	score	3	0.0	Cuneo and Leishman (2006), pg. 552-554.
Q2	score	4	0.0	Cuneo and Leishman (2006), pg. 552-554.
Q3	score	3	0.0	Cuneo and Leishman (2006), pg. 552-554.
Q4	score	2	0.0	Virtue (2004) Native landuse WRM assessment.
Q5	score	1	0.0	Some hay fever can occur.
Q6	a	0	0.0	Cuneo and Leishman (2006), not mentioned.
	b	1	0.0	Virtue (2004) Native landuse WRM assessment.
	c	0	0.0	Cuneo and Leishman (2006), not mentioned.

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	<i>d</i>	0	0.0	Cuneo and Leishman (2006), not mentioned.
	<i>e</i>	0	0.0	Cuneo and Leishman (2006), not mentioned.
	<i>f</i>	0	0.0	Cuneo and Leishman (2006), not mentioned.
	<i>total</i>	1		
Q6	score	1		
Impacts score		14		
Potential distribution				
	score	1	0.0	Estimate of 10-20% (higher than Virtue of 5-10%).
Comparative weed risk and Uncertainty scores				
Corrected Invasiveness		6.7		
Corrected Impacts		7.4		
Corrected Potential distribution		1.0		
Comparative Weed Risk		49		
		Medium		
Uncertainty Invasiveness		0.0		
Uncertainty Impacts		0.0		
Uncertainty Invasiveness	Potential Distribution	0.0		
Control costs				
Q1	<i>a</i>	0	0.0	Virtue (2004) Native landuse WRM assessment.
	<i>b</i>	0	0.0	Virtue (2004) Native landuse WRM assessment.
	<i>c</i>	0	0.0	Virtue (2004) Native landuse WRM assessment.
	<i>d</i>	1	0.0	In woodland.
	<i>total</i>	1		
Q1	score	1		
Q2	score	0	0.0	All sites likely to be readily accessible.
Q3	<i>a</i>	1	0.0	Virtue (2004) Native landuse WRM assessment around \$100/ha
	<i>b</i>	4	0.0	Virtue (2004) Native landuse WRM assessment around \$1000/ha
	<i>c</i>	1	0.0	Likely to be low equipment cost.
	<i>total</i>	6		
Q3	score	3		
Q4	score	2	0.0	Weed control rarely undertaken in land use unless at specific sites.
Control costs score		6		
Persistence				
Q1	score	1	0.0	Virtue (2004) Native landuse WRM assessment

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Q2	score	0	0.0	Cuneo and Leishman (2006), pg. 552.
Q3	score	0	0.0	Cuneo and Leishman (2006), pg. 550.
Q4	<i>a</i>	2	0.0	Cuneo and Leishman (2006), pg. 552.
	<i>b</i>	0	0.0	Intentional human plantings now rare - species out of vogue.
	<i>total</i>	2		
Q4	score	2	0.0	
Persistence score		3		
Current Distribution				
Q1	score	2	0.0	Far more widespread than European olive. Estimate from Cuneo and Leishman map and data - 13% of Cumberland plain still intact native vegetation.
Q2	score	2	0.0	More than three outbreaks up and down the coast but not many small infestations.
Current Distribution score		4		
Comparative Feasibility of Coordinated Control and Uncertainty scores				
Corrected Control costs		5.0		
Corrected Persistence		2.7		
Corrected Current distribution		3.3		
Comparative Feasibility of Coordinated Control		45		
		Medium		
Uncertainty Control costs		0.0		
Uncertainty Persistence		0.0		
Uncertainty Current distribution		0.0		
Overall Uncertainty score		0		
Positive impacts		Previously commonly planted in gardens. Historic tree and hedge plantings still in landscape.		
Other comments		None		

Determining priorities

Weed risk is MEDIUM

Feasibility of Coordinated control is MEDIUM

On the Management action matrix the weed falls into 'Manage sites' in the middle of the matrix

Aims to maintain the overall economic, environmental and/or social value of key sites/assets through improved general weed management

Suggested Management actions of 'Manage sites'

- Promote general IWM principles to landholders, including the range of control techniques. Maintaining competitive vegetation and property management plans.
- Identify key sites/assets in the geographic area and ensure adequate resourcing to manage these to maintain their value.
- Broaden focus beyond weeds to all threatening processes.

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References

Cuneo, P. and Leishman, M. R. (2006). African olive (*Olea europaea* subsp. *cuspidata*) as an environmental weed in eastern Australia. *Cunninghamia*, **9**, 545-577.

Virtue, J. (2004). 'Native landuse' sheet. Weed Risk Assessment Microsoft Excel spreadsheet. Online at http://www.dwlbc.sa.gov.au/assets/files/wra_2004.xls Access date 27 June 2008.