

NSW Weed Risk Management assessment: *Senecio madagascariensis*

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		<i>Senecio</i>		
		<i>madagascariensis</i>		
		Fireweed		
		Asteraceae		
		Coastal NSW		
	Landuse:	Grazing modified pastures (dryland agriculture)		
	Density:	Medium density in landuse		
		Standard management is limited. Pasture management for competitive pastures and varying stocking rates most common. Fertiliser application is relatively common (e.g. superphosphate). Herbicide application is sometimes used but is expensive. Hand weeding is used in limited areas. Cultivation and resowing of some areas occurs.		
Invasiveness			Do not know	
Q1	score	1	0.0	Sindel <i>et al.</i> (1998)
Q2	score	3	0.0	Sindel <i>et al.</i> (1998)
Q3	a	2	0.0	Sindel <i>et al.</i> (1998)
	b	2	0.0	Sindel <i>et al.</i> (1998)
	c	0	0.0	Sindel <i>et al.</i> (1998)
	total	4		
Q3	score	1		
Q4	a	0	0.0	Sindel <i>et al.</i> (1998)
	b	0	0.0	Sindel <i>et al.</i> (1998)
	c	0	0.0	Sindel <i>et al.</i> (1998)
	d	2	0.0	Sindel <i>et al.</i> (1998)
	total	2		
Q4	score	1		
Q5	a	0	0.0	Sindel <i>et al.</i> (1998)
	b	1	0.0	Sindel <i>et al.</i> (1998)
	c	1	0.0	Sindel <i>et al.</i> (1998)
	d	1	0.0	Sindel <i>et al.</i> (1998)
	total	3		
Q5	score	2		
Invasiveness score		8		
Impacts				
Q1	score	1.5	1.5	do not know
Q2	score	4	0.0	Sindel <i>et al.</i> (1998)
Q3	score	1	0.0	Sindel <i>et al.</i> (1998)
Q4	score	0	0.0	Sindel <i>et al.</i> (1998)
Q5	score	2	0.0	Sindel <i>et al.</i> (1998)
Q6	a	0	0.0	Sindel <i>et al.</i> (1998)
	b	0	0.0	Sindel <i>et al.</i> (1998)
	c	0	0.0	Sindel <i>et al.</i> (1998)

Senecio madagascariensis (cont.)

	<i>d</i>	0	0.0	Sindel <i>et al.</i> (1998)
	<i>e</i>	0	0.0	Sindel <i>et al.</i> (1998)
	<i>f</i>	0	0.0	Sindel <i>et al.</i> (1998)
	<i>total</i>	0		
Q6	score	0		
Impacts score		8.5		
Potential distribution				
	score	10	0.0	Estimate of greater than 80%
Comparative weed risk and Uncertainty scores				
	Corrected Invasiveness	5.3		
	Corrected Impacts	4.5		
	Corrected Potential distribution	10.0		
Comparative Weed Risk				
		239		
		Very high		
Uncertainty Invasiveness				
		0.0		
Uncertainty Impacts				
		13.6		
Uncertainty Potential Distribution				
		0.0		
Control costs				
Q1	<i>a</i>	0	0.0	Sindel <i>et al.</i> (1998)
	<i>b</i>	1	0.0	Sindel <i>et al.</i> (1998)
	<i>c</i>	2	0.0	Sindel <i>et al.</i> (1998)
	<i>d</i>	0	0.0	pers. obs.
	<i>total</i>	3		
Q1	score	2		
Q2	score	0	0.0	pers. obs.
Q3	<i>a</i>	2	2.0	do not know
	<i>b</i>	1	0.0	pers. obs.
	<i>c</i>	1	0.0	pers. obs.
	<i>total</i>	4		
Q3	score	2		
Q4	score	2	0.0	pers. obs.
Control costs score		6		
Persistence				
Q1	score	2	0.0	Sindel <i>et al.</i> (1998)
Q2	score	3	0.0	Sindel <i>et al.</i> (1998)
Q3	score	2	0.0	Sindel <i>et al.</i> (1998)
Q4	<i>a</i>	2	0.0	Sindel <i>et al.</i> (1998)

Senecio madagascariensis (cont.)

	<i>b</i>	1	0.0	Sindel <i>et al.</i> (1998)
	<i>total</i>	3		
Q4	score	2	0.0	
	Persistence score	9		
Current Distribution				
Q1	score	10	0.0	Sindel <i>et al.</i> (1998)
Q2	score	2	0.0	Sindel <i>et al.</i> (1998)
	Current Distribution score	12		
Comparative Feasibility of Coordinated Control and Uncertainty scores				
	Corrected Control costs	5.0		
	Corrected Persistence	8.2		
	Corrected Current distribution	10.0		
	Comparative Feasibility of Coordinated Control	409		
		Negligible		
	Uncertainty Control costs	16.7		
	Uncertainty Persistence	0.0		
	Uncertainty Current distribution	0.0		
	Overall Uncertainty score	5		
	Positive impacts	none known		Sindel <i>et al.</i> (1998)
	Other comments	none		

Determining priorities

Weed risk is VERY HIGH

Feasibility of Coordinated control is NEGLIGIBLE

On the Management action matrix the weed falls into 'Manage weed' on the lower left of the matrix

Suggested Management actions of 'Destroy infestations'

Aims to reduce the overall economic, environmental and/or social impacts of the weed species through targeted management

- Research and develop Integrated Weed Management (IWM) packages for the species, including herbicides and biological control where feasible.
- Promote IWM packages to landholders.
- Monitor decrease in weed impacts with improved management.
- Identify key sites/assets in the geographic area and ensure adequate resourcing to manage the weed species.
- Monitor progress towards reduction.

References

Sindel, B. M., Radford, I. J., Holtkamp, R. H. and Michael, P. W. (1998). *Senecio madagascariensis*. In *The Biology of Australian Weeds*. Editors F. D. Panetta, R. H. Groves, and R. C. H. Shepherd. Publishers R. G. and F. J. Richardson, Meredith, Victoria, Australia. pp. 247-267.