

**Online Appendix 2:** Results of the weed risk assessment for *Asphodelus fistulosus*.

**TABLE 1-A2:** Australian Weed Risk Assessment Protocol (following Pheloung et al. 1999).

Question	Answer	Reference/notes	Score	Possible scores
1.01 Is the species highly domesticated?	No	-	0	0 or -3
1.02 Has the species become naturalised where grown?	-	-	?	-1 or 1
1.03 Does the species have weedy races?	-	-	?	-1 or 1
2.01 Species suited to South African climates	2	Bioclimatic model. This study.	2	2
2.02 Quality of climate match data (0 – low; 1 – intermediate; 2 – high)	2	Bioclimatic model. This study.	2	0, 1 or 2
2.03 Broad climate suitability (environmental versatility)	No	Bioclimatic model. This study.	0	0, 1 or 2
2.04 Native or naturalised in regions with extended dry periods	-	-	?	0 or 1
2.05 Does the species have a history of repeated introductions outside its natural range?	Yes	<a href="http://www.hear.org/gcw">http://www.hear.org/gcw</a>	2	0, 1 or 2
3.01 Naturalised beyond native range	Yes	-	2	-2, -1, 0, 1, 2
3.02 Garden/amenity/disturbance weed	Yes	-	2	0, 1, 2
3.03 Weed of agriculture/horticulture/forestry	Yes	-	4	0, 1, 2, 3, 4
3.04 Environmental weed	Yes	-	4	0, 1, 2, 3, 4
3.05 Congeneric weed	Yes	-	2	0, 1, 2
4.01 Produces spines, thorns or burrs	No	Pers. obs.	0	0 or 1
4.02 Allelopathic	No	-	0	0 or 1
4.03 Parasitic	No	-	0	0 or 1
4.04 Unpalatable to grazing animals	Yes	Patterson 1996.	1	-1 or 1
4.05 Toxic to animals	No	-	0	0 or 1
4.06 Host for recognised pests and pathogens	No	-	0	0 or 1
4.07 Causes allergies or is otherwise toxic to humans	Yes	-	1	0 or 1
4.08 Creates a fire hazard in natural ecosystems	No	-	0	0 or 1
4.09 Is a shade-tolerant plant at some stage of its life cycle	No	-	0	0 or 1
4.10 Grows on infertile soils	Yes	-	1	0 or 1
4.11 Climbing or smothering growth habit	No	-	0	0 or 1
4.12 Forms dense thickets	Yes	Pers. obs.	1	0 or 1
5.01 Aquatic	No	-	0	0 or 5
5.02 Grass	No	-	0	0 or 1
5.03 Nitrogen-fixing woody plant	No	-	0	0 or 1
5.04 Geophyte	No	-	0	0 or 1

6.01 Evidence of substantial reproductive failure in native habitat	No	-	0	0 or 1
6.02 Produces viable seed	Yes	This study.	1	-1 or 1
6.03 Hybridises naturally	-	-	?	-1 or 1
6.04 Self-fertilisation	-	-	?	-1 or 1
6.05 Requires specialist pollinators	No	-	0	0 or -1
6.06 Reproduction by vegetative propagation	No	-	-1	-1 or 1
6.07 Minimum generative time (years)	3	<a href="http://www.ellura.info/Reference/Discussion-paper-on-controlling-Onion-Weed-2014-04-06.pdf">http://www.ellura.info/Reference/Discussion-paper-on-controlling-Onion-Weed-2014-04-06.pdf</a>	0	0, 1, -1
7.01 Propagules likely to be dispersed unintentionally	Yes	-	1	-1 or 1
7.02 Propagules dispersed intentionally by people	Yes	-	1	-1 or 1
7.03 Propagules likely to disperse as a produce contaminant	Yes	-	1	-1 or 1
7.04 Propagules adapted to wind dispersal	Yes	<a href="https://keyserver.lucidcentral.org/weeds/data/media/Html/asphodelus_fistulosus.htm">https://keyserver.lucidcentral.org/weeds/data/media/Html/asphodelus_fistulosus.htm</a>	1	-1 or 1
7.05 Propagules buoyant	Yes	-	1	-1 or 1
7.06 Propagules bird dispersed	Yes	-	1	-1 or 1
7.07 Propagules dispersed by other animals (externally)	No	<a href="https://keyserver.lucidcentral.org/weeds/data/media/Html/asphodelus_fistulosus.htm">https://keyserver.lucidcentral.org/weeds/data/media/Html/asphodelus_fistulosus.htm</a>	-1	-1 or 1
7.08 Propagules dispersed by other animals (internally)	Yes	-	1	-1 or 1
8.01 Prolific seed production	Yes	-	1	-1 or 1
8.02 Evidence that a persistent propagule bank is formed (> 1 year)	Yes	Smith and Smith, n.d.	1	-1 or 1
8.03 Well controlled by herbicides	Yes	This study.	-1	-1 or 1
8.04 Tolerates or benefits from mutilation, cultivation or fire	Yes	Pers. obs.	1	-1 or 1
8.05 Effective natural enemies present in South Africa	No	-	1	-1 or 1