QUESTION	COMMENTS	REFERENCE	RANKING
Social			
1. Restrict human access?	"An erect annual or short-lived perennial herb, to 75 cm high." Stems much-branched which terminate in a single floret armed with spines approximately 1 to 2.5 cm long. "This thistle often occurs in dense patches which restrict stock movement." "It can alsoreduce access to recreational areas." People access recreational facilities with difficulty.	P & C (2001) DiTomaso (2001) ¹	МН
2. Reduce tourism?	As above. Some recreational activities may be affected.		MH
3. Injurious to people?	"injure dogs and grazing animals particularly in the eyes, mouth and feet." Potential to harm humans as well. Spines present throughout the year.	P & C (2001)	Н
4. Damage to cultural sites?	Dense infestations likely to cause moderate negative visual effect.		ML
Abiotic			
5. Impact flow?	Terrestrial species.	P & C (2001)	L
6. Impact water quality?	Terrestrial species.	P & C (2001)	L
7. Increase soil erosion?	It has become a weed in Australia on neglected areas and roadsides, occasionally invading unimproved grazing land." The plant has a taproot about 20 cm long with numerous laterals. Not likely to increase soil erosion.	P & C (2001)	L
8. Reduce biomass?	It has become a weed in Australia on neglected areas and roadsides, occasionally invading unimproved grazing land." In dense patches, biomass may increase.	P & C (2001)	L
9. Change fire regime?	"Additionally, dense infestations of yellow starthistle may change the fire regime by changing the fuel characteristics at a given sitedried skeletons of yellow starthistle can provide fuel for late summer wildfires." Likely to increase the frequency of fire risk in late summer.	Zouhar (2002) ²	ML
Community Habitat			
10. Impact on composition (a) high value EVC	EVC=Plains grassland (E); CMA=Goulburn Broken; Bioreg=Victorian Riverina; VH CLIMATE potential. Not known as an environmental weed in Victoria. However in the U.S. "C. solstitialis is a winter annual that can form dense impenetrable stands. Over the past 40 years, C. solstitialis has spread exponentially to infest rangelands [and] native grasses. C. solstitialis is best adapted to open grasslands." Major displacement of grasses/forbs.	DiTomaso (2001)	МН
(b) medium value EVC	EVC=Heathy woodland (D); CMA=Port Phillip; Bioreg=Central Victorian Uplands; VH CLIMATE potential. "C. solstitialis is best adapted to open grasslands." Population density reduced due to overstorey cover.	DiTomaso (2001)	ML
(c) low value EVC	EVC=Montane dry woodland (LC); CMA=North East; Bioreg=Northern Inland Slopes; VH CLIMATE potential. Impact as in 10(b) above.	DiTomaso (2001)	ML
11. Impact on structure?	Not known as an environmental weed in Victoria (it is not documented in Carr <i>et al</i> 1992). However, in the U.S., " <i>C. solstitialis</i> is a winter annual that can form dense impenetrable stands that displace desirable vegetation in natural areas, rangelands and other places. <i>C. solstitialis</i> is best adapted to open grasslands." Potential to have a major effect on grasses/forbs.	DiTomaso (2001)	ML
12. Effect on threatened flora?			

Scientific Name: Centaurea solstitialis

Common name: St Barnaby's thistle

QUESTION	COMMENTS	REFERENCE	RANKING
Fauna			
13. Effect on threatened fauna?			
14. Effect on non-threatened fauna?	"In addition, <i>C. solstitialis</i> infestations can reduce wildlife habitat and forageand decrease native plant and animal diversity." Reduction in habitat for fauna spp. leading to a reduction in numbers.	DiTomaso (2001)	MH
15. Benefits fauna?	No documented benefits.		Н
16. Injurious to fauna?	"This thistle often occurs in dense patches whichinjure dogs and grazing animals particularly in the eyes, mouth and feet." Potentially injurious to fauna spp.	P & C (2001)	Н
Pest Animal			
17. Food source to pests?	Not known as a food source to pests in Australia.		L
18. Provides harbor?	Not known to provide harbor.		L
Agriculture			
19. Impact yield?	"St Barnaby's thistle competes with pastures and crops for moisture and nutrients and the large rosettes shade useful pasture species. Stories are quoted from north-eastern Victoriaof wheat crops with a potential yield of 2 tonnes per hectare being reduced to practically nothing." Serious impact on yield.	P & C (2001)	Н
20. Impact quality?	"Contributes to vegetable fault in wool. Seed can also be spreadas a contaminant of agricultural produce including commercial seed." Level of impact not quantified; consider to be a minor component	P & C (2001)	ML
21. Affect land value?	Although the plant can have a serious detrimental effect on agricultural yield, control is relatively straightforward by repeated shallow cultivations and by, "encouraging legume-based pastures which provide maximum competition to the weed." Left untreated, the land value may be affected.	P & C (2001)	M
22. Change land use?	Although the plant can have a serious detrimental effect on agricultural yield, control is relatively straightforward by repeated shallow cultivations and by, "encouraging legume-based pastures which provide maximum competition to the weed." Land use may be restricted during treatment period.	P & C (2001)	M
23. Increase harvest costs?	Not known to increase harvest costs.		L
24. Disease host/vector?	None evident.		L

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¹ DiTomaso, J 2001. Centaurea solstitialis. Element Stewardship Abstract. Available: http://tncweeds.ucdavis.edu/esadocs/documnts/centsol.html The Nature Conservancy. Date accessed 05/05/03

² Zouhar, K. 2002. Centaurea solstitialis. U.S. Department of Agriculture, Forest Service, Rocky Mountain Research Station, Fire Sciences Laboratory (2003, April). Fire Effects Information System, [Online] http://www.fs.fed.us/database/feis/plants/forb/censol/all.html Date accessed 05/05/03