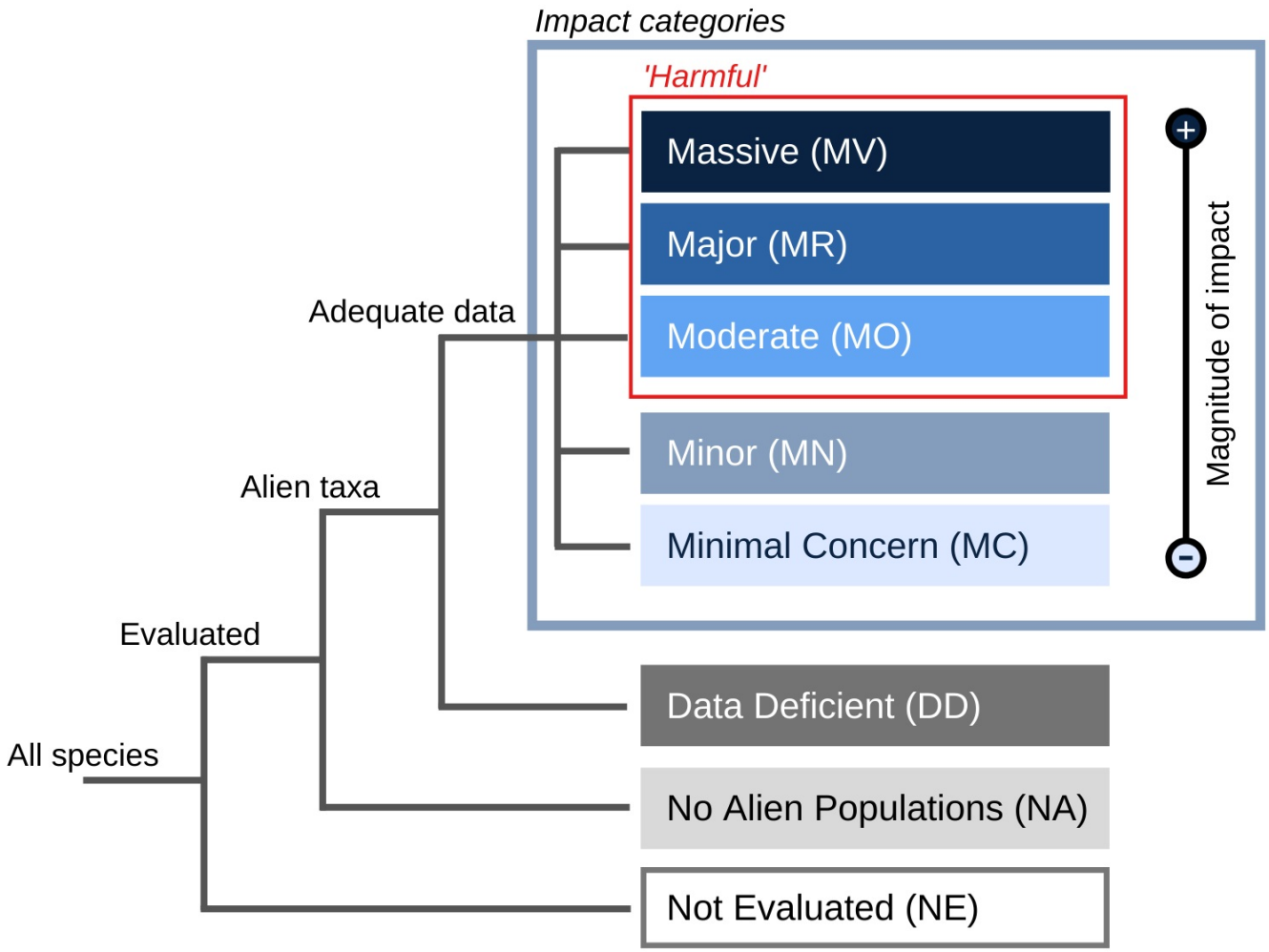
MR (Major)Acacia cyclops

Date assessed	2020-09-27
Year published	2022
Eicat category	MR (Major)
Justification for EICAT assessment	The indigenous species under Acacia cyclops did not differ significantly from that in uninvaded sites, but species richness was lower under Acacia and soils were very enriched (Gaertner et al., 2011). Native species richness was significantly lower in the Acacia thicket compared to the natural site. Native plant cover did not differ significantly between Acacia thicket and the uninvaded site. Diversity and evenness was significantly lower in the invaded site compared to the uninvaded site. The total N and soil microelement concentrations (Na, C and Mg) were approximately double that of the uninvaded site. Potassium was the only microelement with a higher conentration in the uninvaded site. In the invaded site, temperatures were constantly lower than in the uninvaded sites. In the Acacia invaded thicket relative soil moisture was lower than in the uninvaded site from August to October 2007, between October and December 2007 both sites had similar soil moisture levels except for November, where it was lower in the Acacia invaded site.
Confidence rating	Medium
Mechanism(s) of maximum impact	Chemical impact on ecosystem
Countries of most severe impact	South Africa
Description of impact	A. cyclops had mostly chemical (through soil nutrient enrichment) and structural impacts on the ecosystem. Structural having the most by impacting indigenous species richness and abundance, such as birds or insect species. Other mechanism included competition and physical inmpacts on ecosystems, but were less common. Overall, moderate was the most common impact category (occurred 3 out of 6 times, excluding DD papers).
Assessor	Cally Jansen
Contributors	
Reviewers	EICAT authority
Recommended citation	Cally Jansen. (2026). *Acacia cyclops* . IUCN Environmental Impact Classification for Alien Taxa (EICAT).


Impact categories
'Harmful'
Massive (MV)
Major (MR)
Moderate (MO)
Minor (MN)
Minimal Concern (MC)
Magnitude of impact
Adequate data
Alien taxa
Evaluated
All species
Data Deficient (DD)
No Alien Populations (NA)
Not Evaluated (NE)