

## Predicting the Feasibility and Cost of Weed Biological Control

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### **Abstract**

We reviewed previous work related to selection and prioritisation of weed biological control targets and developed and tested hypotheses regarding which attributes make weeds more or less amenable to biological control. Our analyses revealed that biocontrol impacts have, on average, been greater against, biennial and perennial versus annual weeds, plants capable of vegetative reproduction versus plant that reproduce solely by seed or spores, aquatic and wetland weeds versus terrestrial weeds, and plants that are not reported to be weedy in the native range versus those which are known to be weedy in the native range. We incorporated these criteria affecting biological control success into a feasibility scoring framework that should enable practitioners to better prioritise targets for biological control in the future.