

Blackberry Control Manual

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Weeds of National Significance

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Management and control options for blackberry (*Rubus* spp.) in Australia

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For further information on the WoNS National Blackberry Program visit the Weeds Australia website at

www.weeds.org.au/WoNS/blackberry

Copies of this manual can be downloaded or ordered from the above website.

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Mapping of blackberry in the Nungatta Valley, NSW

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Dispersal of blackberry seeds by emus and foxes

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To retreat or not

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Examples of using herbicides to control blackberry

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Use of the splatter gun

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The Maatsuyker Island experience

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Burning blackberry

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Outcomes of biological control in Victorian studies

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Integrating biological control with chemical control methods

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Integrating methods to control a range of blackberry species

John Moore and **Andrew Reeves**, Department of Agriculture and Food, WA

An example of blackberry management in practice

Rachel Butterworth, **Franz Peters** and **Phil Reichelt**, Department of Environment and Climate Change, NSW



Foreword

The manual will be a valuable guide for the management and control of the weedy blackberry species in Australia.

Blackberry has been recognised as a Weed of National Significance (WoNS) in Australia because of its high degree of invasiveness, its aggressive spread, and its economic and environmental impacts. Blackberry seriously threatens both agricultural and natural ecosystems. It is estimated that annual primary production losses and blackberry control cost at least \$70 million (CRC 2006).

For successful blackberry management in Australia, the greatest need is to understand that there are 26 introduced *Rubus* species in Australia. Although blackberry, as a long-established weed, may have reached the limits of its potential range in Australia, some individual species may spread further within these climatic limits. For successful control and management of this weed it is important that we are able to recognise the different species. The development of the Blackberry Identification CD-ROM by Robyn and Bill Barker of the Department for Environment and Heritage, South Australia was a valuable step forward.

The WoNS National Blackberry Taskforce recognises that the challenges for blackberry management are to prevent further spread of the blackberry species, contain existing infestations, and rehabilitate treated areas to prevent reinfestation. To achieve success in management it will also be essential that effective biological controls continue to be developed. We will need to be innovative in our future research programs.

Designed to help provide effective management solutions for blackberry within the context of integrated weed management, this manual brings together detailed information about the plant itself, as well as best practice information about existing control and management options. By reading this document you will discover that there is no one best method for control; instead, there is a range of factors that need to be considered and weighed up for each particular situation.

This manual is a living document that will be reviewed and updated as we gain new knowledge and a better understanding of how to control blackberry and prevent its spread. As new information becomes available, we will endeavour to place it on our web page (www.weeds.org.au/WoNS/blackberry) so that you have the most up-to-date information at your finger tips.

The National Blackberry Taskforce is aware that the task ahead to control and manage this weed is formidable, but we will only win if we give it a go.

A very big thanks to all the people who have contributed to developing the manual.



Alex Arbuthnot AM

Chair, National Blackberry Taskforce

A guide to using this manual

This manual is designed to provide current information on blackberry best practice management for land managers, weeds officers, extension services and others involved in the management of blackberry.

The information presented is based on published information, existing research and the experiences of individuals and organisations currently managing blackberry in Australia.

The manual is divided into six parts that are colour coded to help access information quickly. A summary page is provided at the start of each section to give the reader an overview of the information contained in the section.

All key references for this manual are contained in Part 6 (p. 78).

The six parts of this manual

Part 1: Blackberry profile

- an overview of blackberry in Australia
- the problems, benefits and costs of blackberry
- the current and potential distribution of blackberry in Australia
- a description of the physical characteristics, life cycle, reproduction and spread of blackberry.

Part 4: Blackberry control practices

- an overview of the control practices available for blackberry:
 - herbicides
 - physical methods
 - biological control.

Part 2: Identification of blackberry (*Rubus*) species in Australia

- an overview of the *Rubus* genus in Australia
- a list of all known *Rubus* species present in Australia
- information to help differentiate between species in the *Rubus* genus
- the importance of identifying *Rubus* species.

Part 5: An example of blackberry management in practice

- an example of how the information presented throughout the manual can be used in practice to deliver positive weed management and environmental and social outcomes.

Part 3: Developing a blackberry management plan

- an outline of the steps involved in developing a blackberry management plan:
 - Assess the problem.
 - Prioritise the areas for management.
 - Set goals.
 - Prepare, document and implement an integrated plan.
 - Monitor, record, retreat and rehabilitate.

Part 6: Further information

- references, glossary and acronyms
- appendices are attached at the end of the manual.

Contents

Acknowledgments | **2**

Foreword | **5**

A guide to using this manual | **6**

Part 1:

Blackberry profile

1.1 Blackberry in Australia | **10**

1.2 Description | **14**

1.3 Lifecycle, reproduction and spread | **16**

Part 2:

*Identification of blackberry (*Rubus*) species in Australia*

2.1 The genus *Rubus* in Australia | **20**

2.2 Identifying species | **22**

Part 3:

Developing a blackberry management plan

3.1 Developing a management plan | **28**

3.2 Assess the problem | **29**

3.3 Prioritise the areas for management | **33**

3.4 Set goals | **35**

3.5 The management plan | **36**

3.6 Monitor and evaluate | **37**

3.7 Follow up and rehabilitate | **37**

Part 4:

Blackberry control practices

4.1 Control with herbicides | **39**

4.2 Physical control methods | **57**

4.3 Biological control | **64**

Part 5:

An example of blackberry management in practice

5.1 Introduction | **71**

5.2 The problem | **71**

5.3 GRILCO's approach | **71**

5.4 What was done | **72**

5.5 Future plans | **77**

Part 6:

Further information

Glossary | **79**

Acronyms and abbreviations | **80**

References and further reading | **81**

Appendices

1 Noxious weed legislation for blackberry | **83**

2 Weed management: collecting blackberry specimens for identification | **85**

3 List of State herbaria | **87**

4 Weed management: helpsheet for using the blackberry Lucid Key | **88**

5 Field data sheet | **90**

6 Establishing photo points | **91**

7 Visual assessment of density | **92**

8 Herbicide resistance | **93**

9 Contacts for State/Territory agencies | **94**

10 Calibrating equipment for spraying blackberry | **95**

11 Information on hollow-cone orifice discs for handguns @ 14 bar (1400 kPa) | **96**

Case studies

The following case studies can be found throughout the manual and provide examples of how to implement the principles recommended within each part.

Part 1: Blackberry profile

Impact of blackberry | **18**

Part 2: Identification of blackberry (Rubus) species in Australia

Importance of blackberry identification | **26**

Part 3: Developing a blackberry management plan

Importance of site assessment | **28**

A community approach to developing a blackberry management plan | **29**

Mapping of blackberry in the Nungatta Valley, NSW | **32**

Dispersal of blackberry seeds by emus and foxes | **36**

To retreat or not | **37**

Part 4: Blackberry control practices

Consider the long-term effects when selecting herbicides | **40**

The Western Australia experience | **41**

Tumbarumba Shire Council | **42**

Examples of using herbicides to control blackberry | **48**

Use of the splatter gun | **54**

The Spraying Mantis | **55**

The Maatsuyker Island experience | **56**

Improving access for controlling blackberry | **58**

Huonville Landcare Group | **59**

Manual removal of blackberry on a Melaleuca floodplain | **60**

Using goats for blackberry control | **62**

Burning blackberry | **64**

Outcomes of biological control in Victorian studies | **66**

Integrating biological control with chemical control methods | **68**

Integrating methods to control a range of blackberry species | **69**