



2009-10

2009-10 Cotton Pest Management Guide



Cotton CRC Extension Team



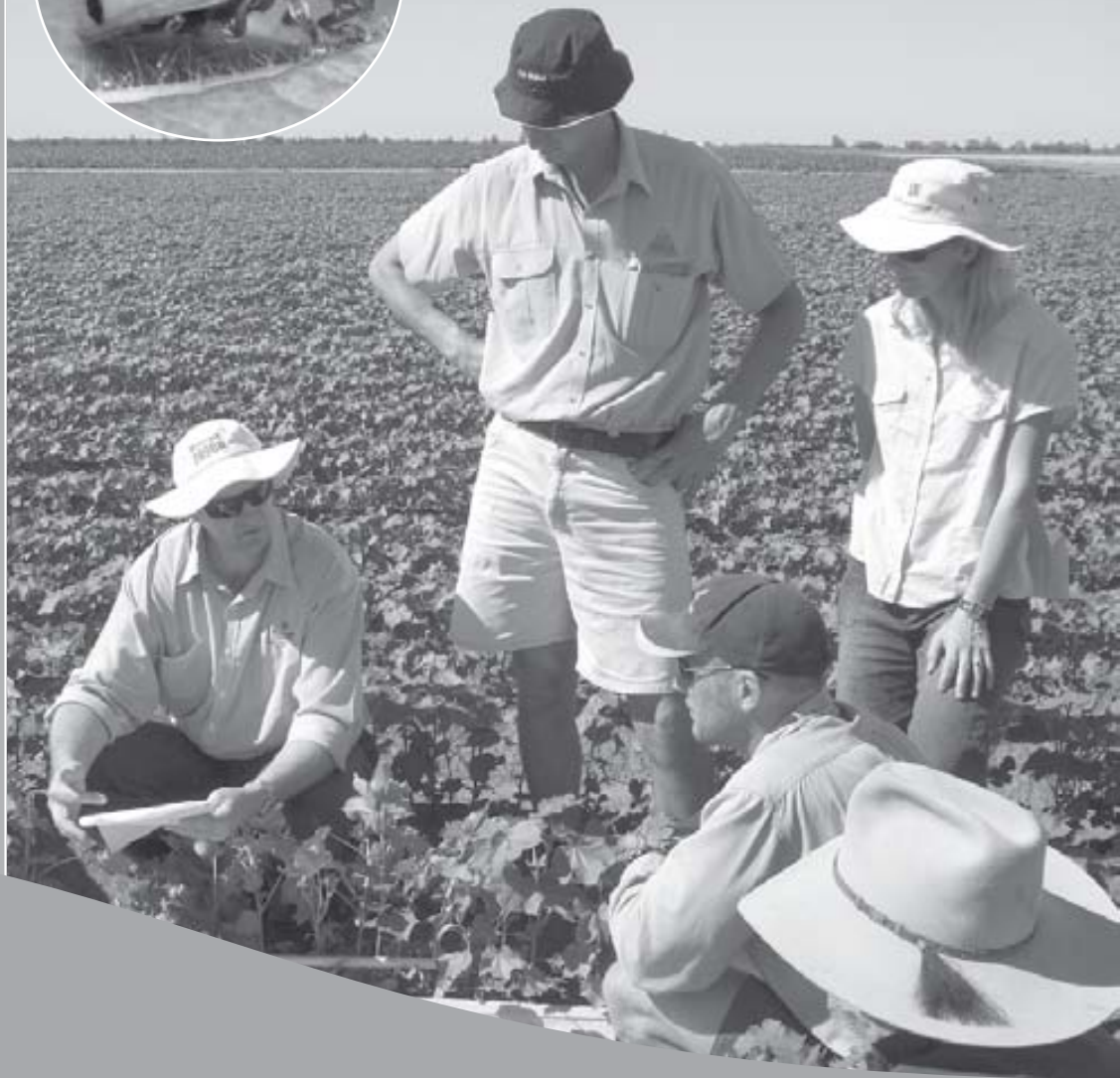
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Users of agricultural chemical products must always read the label and any Permit before using the product, and strictly comply with the directions on the label and the conditions of any Permit. Users are not absolved from compliance with the directions on the label or the conditions of the permit by reason of any statement made or not made in this publication.

IMPORTANT: USE OF PESTICIDES

Pesticides must only be used for the purpose for which they are registered and must not be used in any other situation or in any manner contrary to the directions on the label. Some chemical products have more than one retail name. All retail products containing the same chemical may not be registered for use on the same crops. Registration may also vary between States. Check carefully that the label on the retail product carries information on the crop to be sprayed.

This publication is only a guide to the use of pesticides. The correct choice of chemical, selection of rate, and method of application is the responsibility of the user. Pesticides may contaminate the environment. When spraying, care must be taken to avoid spray drift on to adjoining land or waterways.

Pesticide residues may accumulate in animals treated with any pesticides or fed any crop product, including crop residues, which have been sprayed with pesticides. In the absence of any specified grazing withholding period(s), grazing of any treated crop is at the owner's risk. Withholding periods for stock treated with any pesticides or fed on any pesticide treated plant matter must also be observed. Animals which test positive for chemical residues (i.e. with readings which exceed maximum residue limits for certain chemicals) at slaughter will be rejected. Pesticide residues may also contaminate grains, oils and other plant products for human use and consumption. Growers should observe harvest withholding periods on the pesticide label and should not assume that in the absence of a withholding period or after the expiry of a withholding period that the plant products will be free of pesticide residues.

Some of the chemical use patterns quoted in this publication are approved under Permits issued by the Australian Pesticides and Veterinary Medicines Authority (APVMA) at the time the publication was prepared. Persons wishing to use a chemical in a manner approved under Permit should obtain a copy of the relevant Permit from the APVMA and must read all the details, conditions and limitations relevant to that Permit, and must comply with the details, conditions and limitations prior to use.

The product trade names in this publication are supplied on the understanding that no preference between equivalent products is intended and that the inclusion of a product does not imply endorsement by Industry & Investment NSW over any other equivalent product from another manufacturer.

Bollgard II®, Roundup Ready® and Roundup Ready Flex® are registered trademarks of Monsanto Technology LLC used under licence by Monsanto Australia Ltd.

This publication replaces all previous cotton pesticide guides and cotton pest management guides.

The author:
Cotton CRC Extension Team

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Note from the editor

The Australian cotton industry continues to remain innovative and proactive despite a number of challenges. The 2009/10 Cotton Pest Management Guide is the key resource in cotton crop protection and this year's updates reflect many of the new and ongoing challenges the industry faces. Adopting best practice in pest management is vital in protecting yields, maximising returns and ensuring viability of the industry into the future.

The Cotton CRC extension team have all contributed to coordinating the many changes to the 2009/10 Cotton Pest Management Guide. Both the weed and spray application sectors have been fully reviewed and there are some great practical tips including what to do if you suspect herbicide resistance and how to set up spray equipment to maximise efficacy. There is an excellent description of the current situation for Bt resistance in the preamble to the Bollgard II® Resistance Management Plan (RMP).

Additions to this year's Guide include the;

- Profiling of cotton stainers in the Key Insect and Mite Pests section.
- Description of Q-biotype in the whitefly profile.
- Explanation of neonicotinoid resistance situation in the aphid profile.
- Inclusion of photographs in the Biosecurity section to assist in field identification of exotic pests and diseases that are threats to the Australian cotton industry.

Thank you to Bayer, Caltex, and Syngenta for supporting the Cotton Pest Management Guide in these difficult times. The annual production of this resource is dependent upon advertising revenue. Thank you to Cotton Catchment Communities CRC and CRDC for meeting the substantial shortfall and allowing the 2009/10 edition to proceed.

Special thanks also to Tracey Farrell, editor of the Cotton Pest Management Guide for the previous five years. Her continued contribution, is a reflection of her dedication to this publication and to the industry. Thanks to Yvette Cunningham for her contribution to the layout of the Guide.

Good luck for the season ahead.

Regards,

Susan Maas

Cotton CRC Extension Team

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Cover photos Mary Whitehouse, Alison Seyb, Todd Green, Helen Squires and James Hill.

FURTHER INFORMATION AND PUBLICATIONS

For further information contact your regional cotton extension officer, district agronomist or the Technology Resource Centre of the CRC;

Cotton Catchment Communities CRC
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Australian Cotton Research Institute
Locked Bag 59 Narrabri, NSW 2390
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Publications available from the TRC include; *CottonLOGIC CD*, *Cotton Pest and Beneficial Insect Guide*, *Integrated Pest Management Guidelines for Cotton Production Systems in Australia*, *ENTOpak*, *MACHINEpak*, *SOILpak*, *WEEDpak*, *NUTRIpak*, *SPRAYpak*, *Integrated Disease Management Guidelines*, *WATERpak*, *Managing riparian lands in the cotton industry*, **COTTONpaks CD (includes all above publications)**, *Cotton CRC Info Sheets*.

Other publications including *Australian Cotton Industry Best Management Practice (BMP) Manual* are also available from:

Cotton Research and Development Corporation
PO Box 282, Narrabri NSW 2390
Phone (02) 6792 4088 Fax (02) 6792 4400

Websites for further information

Cotton Catchment Communities CRC (Cotton CRC)
www.cottoncrc.org.au

Cotton Research & Development Corporation (CRDC) www.crdc.com.au

Cotton Australia (CA)
www.cottonaustralia.com.au

Industry & Investment NSW (I&I NSW)
www.industry.nsw.gov.au

Department of Employment, Economic Development and Innovation (DEEDI)
www.dpi.qld.gov.au

Australian Pesticides & Veterinary Medicines Authority (APVMA) www.apvma.gov.au

Spotted anything unusual?



Cotton growers are the key to protecting Australia's crops from exotic insects and diseases like cotton leaf curl virus.

It is important that you are aware of the risk, and if you spot anything unusual on your crop you should always check it out and call your local entomologist, pathologist or the Exotic Plant Pest Hotline on 1800 084 881. The call is free (except from mobiles) and early detection will help protect your industry.

Visit www.planthealthaustralia.com.au for further information about specific pests of concern.



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AUSTRALIAN COTTON GROWERS
RESEARCH ASSOCIATION INC.

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