

# Integrated Pest Management Guidelines for Cotton Production Systems in Australia



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## Sources of information

Many of the information packages have titles which end in 'pak'. For example, WEEDpak, ENTOPak, NUTRIpak, MACHINEpak, WATERpak, SPRAYpak and DISEASEpak. The majority of these packages are delivered in a folder format, although all of the 'paks' are now being delivered on a 'Cottonpaks' CD for more efficient delivery. There are a number of research reviews published on specific issues, such as mite ecology, aphid management, whiteflies, and so on, which are referred to in the IPM guidelines. All information paks and research reviews are available from the Australian Cotton CRC Technology Resource Centre (TRC) and also on the Australian Cotton CRC website ([cotton.crc.org.au](http://cotton.crc.org.au)). The coordinator of the TRC can be contacted on 02 6799 1534.

Two other key tools are also available on the Australian Cotton CRC website. These are the '*Cotton Pest Management Guide*', which details all of the insecticides available for use in cotton, and the '*Pest and Beneficial Guide*', which provides detailed information and pictures for the range of pests and beneficials found on cotton.

The computerised decision support packages developed by the CSIRO and the Australian Cotton Cooperative Research Centre, are identified by the term 'LOGIC' as they belong to the suite of CottonLOGIC tools. For example, HydroLOGIC, NutriLOGIC and EntomoLOGIC. The software is available from the TRC and the latest software upgrades can be downloaded from the Australian Cotton CRC website.

## Disclaimer

The 'Integrated Pest Management Guidelines for Australian Cotton Production Systems', 2nd edition (IPM guidelines) is designed to be used as a tool to help improve pest management in cotton. It is not a substitute for personnel with expert knowledge of pest management or any other aspects of cotton crop management.

The IPM guidelines is made available to the cotton industry in anticipation of feedback from the users regarding potential improvements or problems encountered. This process ensures continuing development and improvement of the guidelines.

The Australian Cotton CRC and its core partners do not warrant or make any representation regarding the use of, or the results of the use of, the IPM guidelines. In particular the Australian Cotton CRC and its core partners do not warrant or represent that any of the management strategies within the IPM guidelines are correct, accurate or reliable. The user relies on the guidelines at their own risk.

### 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. Residues may accumulate in animals 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.

## Definitions

Throughout these guidelines the term 'Bollgard II® refuge' is used to refer to crops grown specifically as a requirement of the Bollgard II® licence to produce *Bacillus thuringiensis* (BT) susceptible *Helicoverpa* spp. The term 'beneficial insect refuge' is used to refer to crops planted specifically as a source of refuge for beneficial insects and spiders.

Sprays that could be applied for pest management are defined as food sprays, selective biological's, selective synthetic insecticides and broad-spectrum synthetic insecticides. Selective insecticides are those with a low negative effect on beneficials, while broad-spectrum insecticides are those that have a high negative effect on beneficials. Many insecticides fall in between these two ends of the spectrum.

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## **IPM Guidelines 2nd Edition**

These guidelines have been designed to assist growers implement IPM strategies to suit their individual farming system.

The original IPM guidelines were developed in response to requests from growers and consultants for information to work with when implementing an IPM program.

The original version was a collaborative effort between growers and consultants attempting to practice IPM, researchers and extension officers.