

CONTROL OF COTTON SUCKING PEST WITH BIOPEST IN MIXTURES WITH GLYPHOSATE

TECH NOTE SERIES



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KEY POINTS

- Use **BIOPEST®** with glyphosate to minimise oviposition and prevent a population build up of white fly, aphids and mirids.
- **BIOPEST®** is compatible with a broad range of insecticides.
- **BIOPEST®** is safe on beneficials.

COMPATIBLE WITH GLYPHOSATE

BIOPEST® is an effective early season sucking pest suppression product in mixtures with glyphosate. Weeds such as bladder ketmia provide an alternate host for pests like whitefly so the aim should be to achieve 100% control, with **BIOPEST®** providing useful reduction in sucking pest numbers.

BIOPEST® has been proven in field trial work to be safe to cotton plants when applied in mixtures with Roundup Ready® herbicides or Weedmaster DST®, with no evidence of any leaf damage observed.

WHITEFLY, APHIDS AND MIRIDS

Like aphids, whitefly produce honeydew which is difficult to remove during inking. Mirids cause early season damage to terminals and buds and mid to late season damage to squares and small bolls (see Figure 1).

BIOPEST® is registered for control of sucking pests like whitefly, aphids and mirids in a range of crops, including cotton.

sucking pests, decreasing oviposition and abates the transmission of virus. **BIOPEST®** can cause direct mortality to all immature life stages of a number of sucking pests once the lifestages come into contact with the **BIOPEST®** sprayed on the leaf surfaces. Targeting infested leaf surfaces will reduce the number of immature pests reaching adult stage.



Figure 1: Mirid damage on bolls
(Source: Cotton CRC)

BIOPEST® control of whitefly in glyphosate mixtures

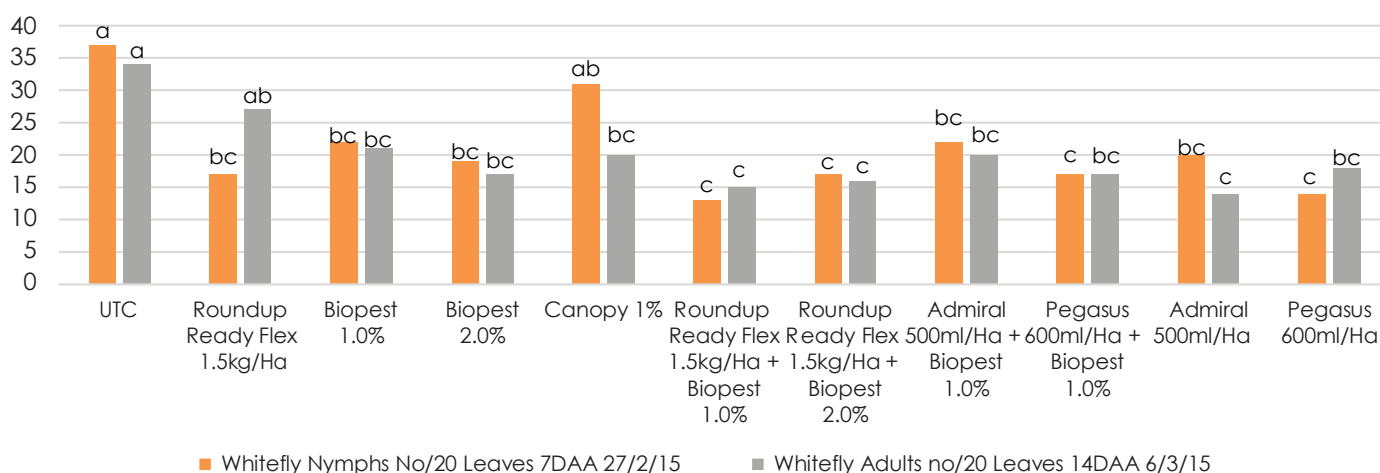


Chart 1: **BIOPEST®** performed well in glyphosate mixes in cotton. Source: KA14-1127 **BIOPEST®** RR mixtures for whitefly suppression in cotton

NOTE: Means followed by the same letter are not significantly different.

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COMPATIBLE WITH INSECTICIDES

BIOPEST® has been proven in field trial work in the 2014 and 2015 seasons to provide effective control of a range of sucking pests including mirids and whitefly, both alone and in mixtures with insecticides (see Charts 1 and 2). In our February 2015 whitefly work, BIOPEST® alone was found to be as effective in controlling of whitefly as commonly used insecticides.

SAFE ON BENEFICIALS

Late season pests, such as mirids and whitefly, are generally not an issue in conventional cotton due to the use of a broader range of larvicides. There are a number of predators that prey on sucking pests – ideally a sustainable whitefly management strategy should aim to preserve these.

BIOPEST® has been proven to be extremely soft on beneficials.

REFERENCES

- COTTON CRC
www.cottoncrc.org.au/industry/Publications/Pests_and_Beneficials/Cotton_Insect_Pest_and_Beneficial_Guide/Pests_by_common_name/Whitefly
- Kalyx Report – KA14-1127: Biopest RR mixtures for whitefly suppression in cotton
- Kalyx Report – W12-474: Use of Biopest in Glyphosate mixtures. March 2013
- Kalyx Report – KA13-827: Biopest for green mirids in cotton. May 2014

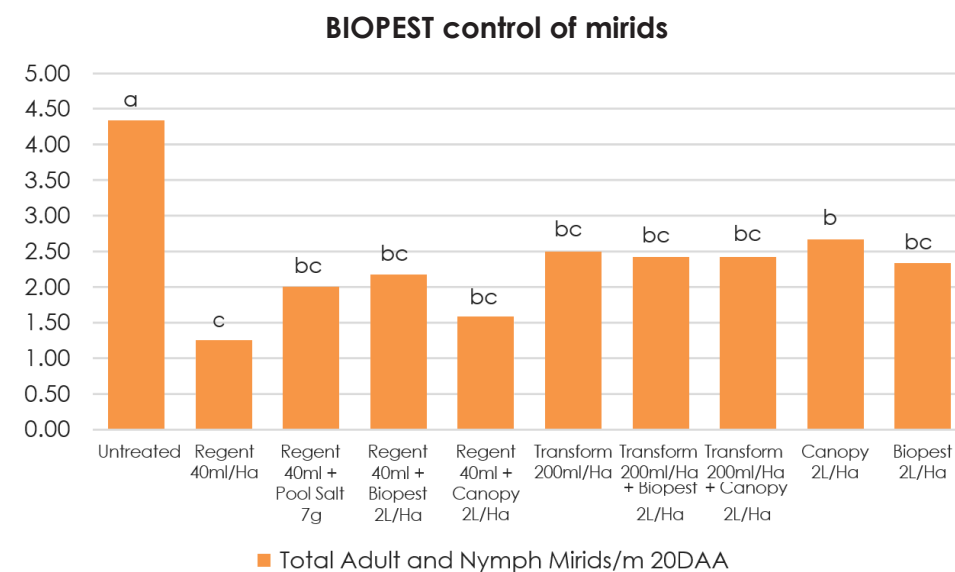


Chart 3: BIOPEST® provides effective control of adult and nymph mirids in cotton.

(Source: February 2014 – Kalyx Narrabri KA13-827)

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- Jamie Cox
North Eastern Regional Manager
0427 100 065

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