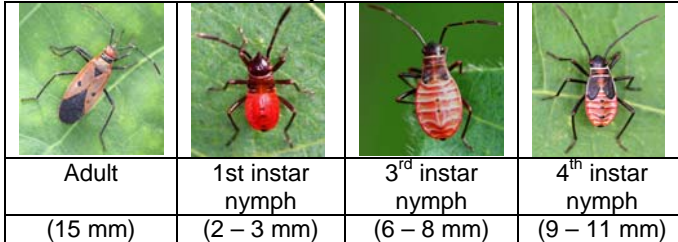


Pale Cotton Stainer Bug (CSB) Preliminary Trial

Reports of infestations of Pale Cotton Stainer Bugs (CSB) have prompted a preliminary trial to be conducted using common chemicals to determine their efficacy.



Researchers Moazzem Khan, Adam Quade (DPI&F), & Murray Boshammer (Total Ag. Services) ran a preliminary trial in dryland cotton crop assessing different control options.

Table 1. Treatments and rates used in the trial

Treatment	Formulation (g/L)	Rate (mL/ha)
Control	Untreated	0
Decis	Deltamethrin 27.5 EC	700
Decis	Deltamethrin 27.5 EC	400
Decis + Salt	Deltamethrin 27.5 EC + Table Salt	400+ 10 g/L water
Steward	Indoxacarb 150 EC	850
Steward	Indoxacarb 150 EC	400
Steward + Salt	Indoxacarb 150 EC + Table Salt	400+ 10 g/L water
Regent	Fipronil 200 SC	125
Regent	Fipronil 200 SC	60
Regent + Salt	Fipronil 200 SC + Table salt	60 + 10 g/L water

Pre-treatment CSB No's were moderate, ranging from 1 to 9/m (adults). The main beneficials were spiders (59%) & brown smudge bug (BSB) (37%).

Trial - The treatments are presented above in Table 1. There were 3 treatments replicated 3 times. Application was with a ground rig. Pre-treatment counts, 0 days after treatment (0 DAT), were made the day before application. Post-treatment counts were made at 3 & 7 DAT.

Effect on Cotton Stainer Bugs

- **Decis** full rate & 400ml + salt reduced the numbers of CSB below 95% of the original population 3 DAT & 100% after 7 days.
- **Steward** 400 ml plus salt reduced CSB population by 71% & 98% at 3 & 7 DAT. Efficacy of Steward 400 ml was poor & the full rate of Steward gave 64% kill at 7 DAT.
- **Regent** full rate, 60 and 60 ml plus salt gave 71, 63 and 73% kill at 3 DAT & 74, 80 and 92% kill at 7 DAT, respectively

Impact on beneficials - The population of BSB & spiders increased for all treatments except for Decis full rate & Decis 400 ml plus salt at 3 DAT where spider population reduced by 8% & 20%, respectively.

The results should be **considered as a guide & not as a recommendation**. The risk of flaring other secondary pests such as whitefly should be considered when using broad spectrum chemicals.

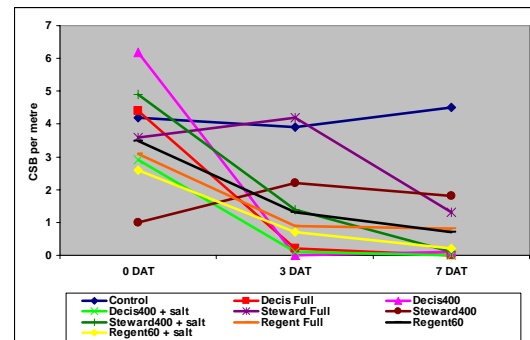


Figure 1. Effect of different chemicals on CSB showing % kill (A) and kill over time (B)

Please refer to the April edition of the Australian Cotton Grower magazine for full trial results. The Cotton CRC has a fact sheet on Cotton Stainers that can be downloaded from their website:

[www.cottoncrc.org.au/files/0b8ff5f6-38c5-44b8-bb7b-9a5400d35b02/Cotton Stainer.pdf](http://www.cottoncrc.org.au/files/0b8ff5f6-38c5-44b8-bb7b-9a5400d35b02/Cotton%20Stainer.pdf)

The Redeveloped NutriLOGIC

The NutriLOGIC program has recently undergone a major revision; it is now more userfriendly, provides information and analytical support for all major nutrients, provides interpretation of soil, petiole and leaf analyses and is relevant for cotton crops at all yield levels. NutriLOGIC can be found on the Cotton Catchment Communities web site at <http://tools.cottoncrc.org.au/CottonLOGIC/>

LAST CHANCE! WATERTrack Rapid Demos!

There are still opportunities available for free on farm demonstrations of WATERTrack RAPID. This demonstration takes about 1 hour and will provide a concise summary of your on farm water use for the season.. Dave Williams (NSW DPI) will be available in the last week of April for these one-on-one visits. Some data is needed prior to the visit **SO RSVP now!** Check out WATERTrack RAPID at <http://rapid.watertrack.com.au/Default.aspx> For more info or to register contact Lance.