

GRDC investment in R, D & E to address important issues identified by the Southern Regional Cropping Solutions Network

List of investments was current at 31 May 2019



CROP PROTECTION - PESTS

- Biology and management of snails and slugs in grain crops
- Control of Snails and Slugs - New products for snail and slug control* - Biological control of slugs using ciliate protozoa
- Current invertebrate pest management options
- Diamondback moth (*Plutella xylostella*) control and insecticide resistance management
- Economic thresholds for the major pests of grain crops
- Improved management of snails and slugs
- Improving plant pest management through cross industry deployment of smart sensors, diagnostics and forecasting
- Improved surveillance and management options for mice in Australian grain crops
- Insecticide resistance management in Red Legged Earth Mite (RLEM) and chemical sensitives of other grain pests
- Management of invertebrate pests on farms
- MouseAlert
- National co-ordination of invertebrate pest research and insecticide resistance management
- National Pest Information Service
- New knowledge to improve the timing of pest management decisions in grain crops
- Opportunities for SMART surveillance for biotic threats in the Australian grains industry
- Predicting insect pest issues in Australian grain crops
- Russian Wheat Aphid
 - » Tactics for future control guide and monologue
 - » Evaluation of insecticide options for the control of RWA in wheat and barley
 - » Insecticide options for the management of RWA in establishing crops
 - » Cultivar / varietal screening and biotype determination for RWA resistance
- Snail bio-control re-visited – Phase 2
- Stubble Initiative
 - » Maintaining profitable farming systems with retained stubble - research support - insects
 - » Maintaining profitable farming systems with retained stubble
 - Victoria & Tasmania
 - Upper Eyre Peninsula
 - Lower Eyre Peninsula
 - South East & Kangaroo Island
 - Yorke Peninsula & Mid North
 - Upper North
 - Riverine Plains
 - Mallee
- Supporting the sustainable use of insecticides and local on-farm implementation of integrated pest management strategies in the GRDC Southern region
- Surveillance of mouse populations across the grain-belt of Australia
- Survey of vertebrate and invertebrate pests and beneficials harbouring in harvest weed-seed control systems
- The development of economic thresholds for the management of Russian wheat aphid across rainfall zones of the Australian grain industry