

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



CROP PROTECTION - WEEDS

- Ag chemical priority forum
- AgVet Access Grants
- Air Inversion Modelling to Manage Spray Drift
- Australian Glyphosate Sustainability Working Group
- Australian Herbicide Resistance Initiative - Phase V
 - » Resistance evolution
 - » Resistance mechanisms
 - » Resistance management
 - » Communications
- Automated Weed and Plant Recognition for Agricultural Applications - Grains Industry Research Scholarship
- Benchmarking and managing soil herbicide residues for improved crop protection
- Best Practice Spray Efficiency and Spray Equipment Setup Discussion Days
- Broadleaf herbicide resistance survey for Victorian Wimmera Mallee
- Cultural weed management
- Development of local strategies to enable the integrated and profitable management of annual ryegrass seed banks in high rainfall zone farming systems of the Southern Region
- Development of new non-chemical weed control technologies - microwave control of weeds
- Demonstrating and validating the implementation of integrated weed management strategies to control Barley Grass in low rainfall farming systems
- Emerging weeds
- Evaluation of pesticide tank mix impacts on nozzle spray quality
- Evolved glyphosate resistance in wild radish populations with the use of glyphosate resistant genetically modified canola - Grains Industry Research Scholarship
- Genetically improving wheat's ability to out-compete weeds
- GRDC - Bayer Crop Science Herbicide Innovation Partnership
- Harvest weed seed control for the southern region
- Improving IWM practice of emerging weeds in the southern and western regions
- Improving weed management in pulse crops through herbicide tolerance
- Locally important weeds
- Low weed seed bank persistence under sustained integrated weed management
- Management of residual herbicides in broadacre cropping
- Mechanisms, evolution and inheritance of resistance
- Mechanisms of weed suppression by early vigour and other novel wheat genotypes
- Minor use applications
- New biocontrol solutions for sustainable management of weed impacts
- New uses for existing chemistry
- Over-dependence on agrichemicals
- Pathways to registration
- Practical and applied workshops and communications to promote key messages and resources to maximise the effectiveness of spray applications in the Southern Region
- Regional Agronomy SA - Improving weed management in high break crop intensity farming
- Surveillance of herbicide resistant weeds in Australian grain cropping
- Technical workshops - Southern Region - Herbicide resistance management

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List of investments was current at 31 May 2019



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- Understanding and management of weed resistance to glyphosate
- Understanding the value of Delta T for ground spray application with VC, XC and UC spray qualities
- Updating GRDC spray application resources
- Validation of the persistence of common residual herbicides in the low rainfall zone
- Weed management in the southern region mixed farming systems - strategies to combat herbicide resistance
- Weedsmart