

Name of research project:

Understanding and Management of Glyphosate Resistant Weeds

Research organisation(s):

GRDC

GRDC Project code:

UA00104

Key contacts:

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Project objectives:

The intensive use of glyphosate in certain situations has resulted in the evolution of glyphosate resistance in three weed species. Glyphosate remains a key herbicide for the management of weeds in no-till cropping systems in Australia. It is important to reduce the risks of glyphosate resistance evolving and to manage glyphosate resistant weeds where they occur.

This research seeks to understand the risk factors that result in the evolution of glyphosate resistant weeds and to identify techniques for the control of glyphosate resistant weeds. Documentation of glyphosate resistant weed populations demonstrate that resistance can occur in any weed species and tends to occur where glyphosate is used intensively, little other weed control is practiced and there is little competition. Changing any one of these will reduce the risks of resistance appearing. Experiments to manage glyphosate resistant weeds will explore the impact of competition and the usefulness of alternative herbicides.

Project period: Start and finish dates

01/07/2008 to 30/06/2011

Project outcomes and status:

This project will provide recommendations to farm advisors and growers of ways to avoid and manage resistance to glyphosate and the long-term impact of such strategies on the risks of glyphosate resistance. This will allow growers to choose strategies that best fit their farming system.

Links: