

Developing new options for weed control in Australian cotton systems

James Neilsen, Meredith Conaty and Kate Lang

Monsanto Australia, Level 12, 600 St Kilda Road, Melbourne, Victoria 3004, Australia

Summary Glyphosate plays a critical role for Australian cotton growers through its use in the Roundup Ready® Flex crop system. A 2017 survey of 180 Australian cotton growers and crop consultants showed that while almost 90% of cotton growers rated their weed control with glyphosate as good or excellent, 74% of cotton growers have observed glyphosate resistant weeds on their farms, with the resistance appearing both in crop and on other parts of the farm. In addition, 2 of the top 5 weeds growers are looking to control are not listed on the Roundup Ready® Herbicide with PLANTSHIELD® label, despite growers and consultants believing they should achieve control with glyphosate. Increasing rates of glyphosate

resistance and the prevalence of difficult-to-control weeds means that growers must diversify their weed control system and ensure they are rotating chemistries. The Xtend® Crop System Monsanto's new weed control tool that will help growers manage glyphosate resistant and difficult-to-control weeds in their cotton crop and will play a role in on-farm weed management through the ability to use multiple in-crop modes of action. This will provide better management of their current weed situation as well as protecting glyphosate into the future.

Keywords Cotton, dicamba, XtendFlex, glyphosate resistance.