

Improving control of Blackberry using **PROTEC PLUS**® Spray Adjuvant

Blackberry (*Rubus fruticosus* agg.) is a serious weed pest in many parts of New South Wales, invading many areas including grazing lands and natural areas including national parks and forests.

The dense thickets that form exclude native fauna and plant species, eventually leading to complete dominance of the understory and in cases the canopy. Blackberry thickets also constrain access, and in pastoral areas, reduce availability of pasture species, and feed, and limit ability of stock to access feed.

Blackberry is a declared noxious weed in New South Wales, and is listed as a weed of national significance. (Further information on Blackberry, its description, life cycle, habitat and distribution can be found in fact sheets on the NSW National Parks website.)

A wide range of products is recommended for control including foliar sprays such as Grazon®, Starane®, Garlon® 600, Tordon 75-D, 2,4-D 720, Amicide 625 Low Odour, Surpass® 300, Kamba 500, MCPB 400, Ally®, Brushhoff®, Glyphosate and soil active products Velpar® L and prometryne.

Protec Plus Spray Adjuvant, when combined with the foliar sprays in the spray mixture, can significantly improve the herbicide spray performance, enabling better control of the Blackberry thicket, and improving control of larger plants.

- Dramatically improves wetting, sticking and penetrating ability of chemicals, especially on hairy/shiny leaves and woody stems of the Blackberry bush.
- Reduces drift, particularly in environmentally sensitive areas through elimination of fine droplets, leading to more spray reaching and depositing on the leaf surface.
- More uniform plant coverage for better control
- Significantly improves rainfastness
- Decreases spray odours.
- Oil base reduces evaporation of the spray mix.
- Use where an emulsifier oil or non-ionic surfactant is recommended.
- Mixes instantaneously
- Compatible with and enhances performance of most products
- No special equipment required

Protec Plus Directions for Use:

Situation	Rate	Critical Comments
Broadacre & Boom Spray	200ml – 1L/100L water	Use the lower rate when using low application rate products
Aerial, CDA, or ULV	200ml – 2L/Ha	
Handgun	(Spot spraying) 150 – 300ml/100L water	
Knapsack	15ml – 20ml/10L water	
Tree Orchard Plantation Spraying	(High Volume) 100ml – 200ml/ 100L	

For further information on use of Protec Plus, contact Grevillia Ag on 1300 669 556.