

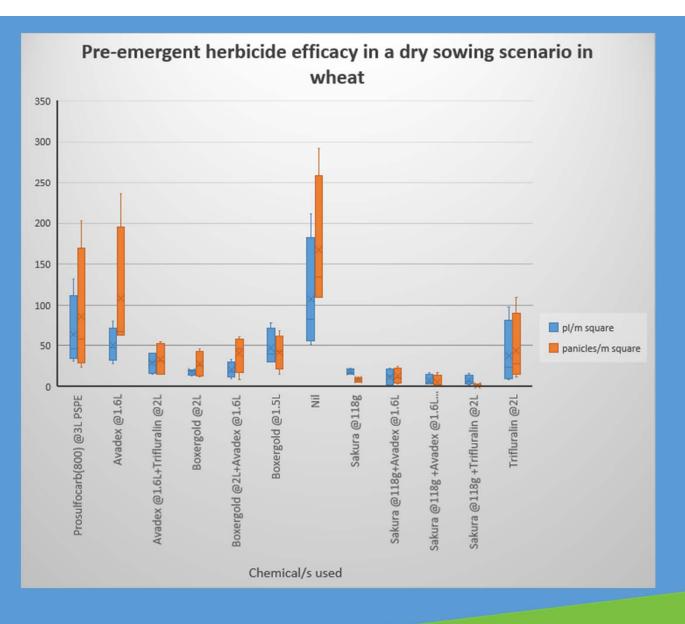
of South Australia

**Primary Industries** 

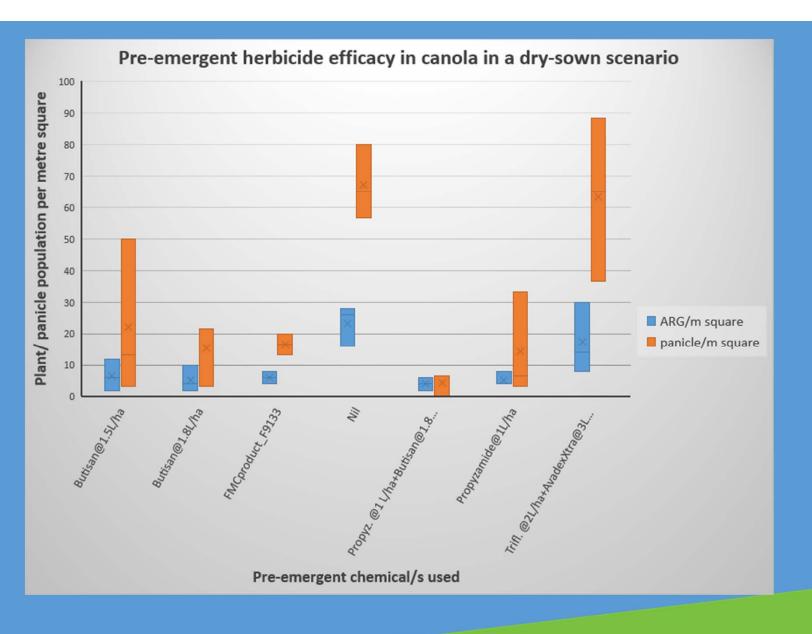
and Regions SA

RESEARCH AND

DEVELOPMENT



- Cutting chemical rates is not advised where conditions may compromise results.
- Boxer Gold® and Sakura® both showed proficient levels of establishment control (83%).
- Sakura® had a prolonged effect beyond establishment as panicle numbers were lower than establishment number across all treatments.
- Prosulfocarb PSPE did not provide adequate ARG control.



- Butisan®, Propyzamide and FMCproduct all provided proficient control when sown 2 weeks dry.
- Older chemistry
   (Trifluralin + AvadexXtra)
   provided poor control.
- Stacking chemistries shows best results with a greater residual effect also seen, (Propyzamide + Butisan®).

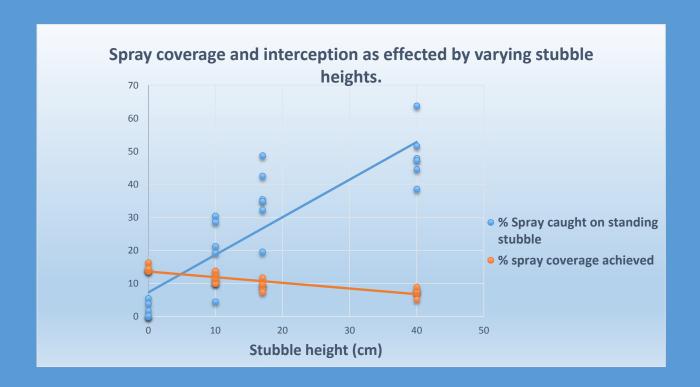
## Water rates

Water Rate (L)	Ryegrass (plants/m²)	Reduction from control (%)
50	21 <sup>a</sup>	52
100	12 <sup>b</sup>	73
150	<b>11</b> <sup>b</sup>	75

Gontar, B 2015 'Improving Pre-emergent Herbicide Efficacy in Retained Stubble'

- High water rates attribute to a more regular distribution of chemical per area. Through this efficacy is not dependent on the mobility of this chemical, which in turn ensures a better outcome.
- A 21% increase in control was seen where rates were increased from 50 to 100L
- No significant difference in control was seen when water rate was increased to 150L

## Standing stubble and its potential to effect efficacy of pre-emergent herbicides.



Stubble height (cm)	Percentage of chemical contacting soil
0	0
10	79
17	63
40	50

Avoid using pre-emergent that are highly volatile or maintain a high binding coefficient in stubble retained systems.

Consider rainfall events post application as a means of minimising this effect. The degree of stubble 'wash off' will depend on rainfall proximity and the chemistry utilised.