

THE GROWING THREAT OF BROME

Background

As an arable weed, the bromes can be split into two key groups; the Anisantha spp, which includes sterile and great brome, and the Bromus spp which includes rye brome, meadow brome and soft brome. As a weed that thrives in notill scenarios, it is becoming increasingly common as growers reduce the intensity of tillage.





Great brome

Rye brome

Meadow brome



Sterile brome (barren brome)



Soft brome

Timing is everything

In a species where there can be a significant cohort of spring emerging plants (35% of total plants in the trial), and the control options (ALS herbicides) require a balance between small plants but active growth, control can be difficult. This effect was clearly demonstrated in the 2018/19 field trial, where an application of Broadway Star in February gave the greatest control.

Recommendations for ALS herbicide applications:

- Mean 7-day air temperature 8°C
- Soil temperature (at 10cm) 6°C

80 -

70 (%)

60

50

40

30

20

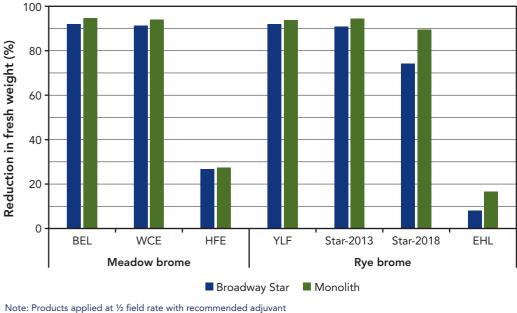
Control of black-grass heads

Sensitivity to ALS herbicides across populations

populations were tested for effectiveness

In populations known to be sensitive, there was no difference in the level of observed control, however in populations where sensitivity to ALS herbicides was lower, then it was apparent that Monolith gave greater, and more robust, control.

brome species



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To complement the field trials, a series of meadow brome and rye brome of two commonly used products -Monolith and Broadway Star (Figure 2).



Figure 1. Control of rye brome from Broadway Star applied at four different timings

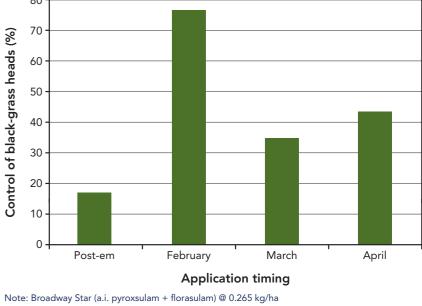


Figure 2. The effect of two ALS herbicides on a range of



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