Investigating the distribution and presence, and potential for herbicide resistance of UK brome species in arable farming



Introduction



- 5 main arable brome species in UK, last full survey in 1989
- ALS, ACCase and glyphosate resistant populations outside UK

Aims and objectives

- Assess distribution of UK arable brome populations and understand how herbicide resistance may evolve
- 1. Survey UK farmers for the presence of bromes
- 2. Investigate range in herbicide sensitivity within and between brome species



Survey results

- Bromes present across all UK cereal growing areas
- Anisantha species more problematic than Bromus
- Brome ID poor
- 60% respondents reported an increase in presence of brome



ALS herbicide screen results



Brome species and herbicide treatment

Summary and conclusions

- Bromes are wide-spread in UK arable farming with populations present across all cereal growing areas
- Herbicide control problems are developing
- Less sensitive populations will be further studied in glasshouse dose-response tests



