Annual grass-weeds e.g. black-grass, rye-grass, brome

Most arable accept they will have to:
Adopt better rotations, including grass leys
Sow winter wheat later in autumn
Grow more spring-sown crops
Change tillage practices and use cover crops
Become less reliant on herbicides

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Black-grass agro-ecology

1. Emergence pattern – 80% in early autumn Is this changing – more spring emergence? 2. Seedling emergence – max 5 cm deep How to maximize benefit of ploughing? 3. Seed longevity in soil – 74% decline/year Can we capitalize on this weakness? 4. Seed shedding pattern – mid June onwards How to time field tasks for greatest effect? 5. Competitive $-12 \text{ plants/m}^2 = 5\% \text{ crop loss}$ What is best way to increase competition?

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