



Technical Bulletin: Spring 2021

Grass weed control in spring cereals can be varied and complex. Yes, Black-grass is often the focus however it's all too easy to forget spring germinating bromes, the Wild-oat burden and even humble Annual Meadow-grass.

But let's start with Black-grass. Last autumn, ADAS reported dormancy levels were 'High' so perhaps we can expect more spring germination this year pushing levels towards the top end of the 15-20% of Black-grass typically found germinating in spring.

What are the options for Black-grass control in spring cereals? With the exception of Avadex[®] Factor, Avadex[®] Excel 15G and some of the pendimethalin-containing products, the vast majority of pre-emergence herbicides have greatly reduced spring application rates with individual flufenacet products being limited to rates delivering just 120g of active per hectare, that's just 50% of the autumn black-grass rate.

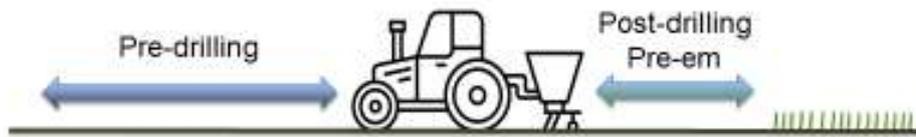
Both Avadex products deliver a full effective grass weed dose at all cereal drilling dates – autumn or spring. Remember, Avadex Excel 15G can be used on both Spring Barley and Spring Wheat whereas with Avadex Factor it's just Spring Barley.

Product	Spring pre-em rate (g ai/ha) of key grass-active ingredient	Proportion of Autumn black-grass rate	Spring Barley Use	Spring Wheat* Use
Avadex [®] 15G	2250g Tri-allate	100%		
Avadex [®] Factor	1620g Tri-allate	100%		
Liberator [®]	120g Flufenacet	50%		
Crystal [®]	120g Flufenacet	50%	EAMU	
Herold [®]	60g Flufenacet	25%	EAMU	EAMU
Firestorm/..starter [®]	120g Flufenacet	50%		
Defy [®] , Spinnaker [®]	2400g Prosulfocarb	60%	EAMU	
PDM (Various)	1320g Pendimethalin	100%		Varies
Orient [®] /etc.	1320g Pendimethalin	100%		
Chronicle [®] /etc.	960g Pendimethalin	73%		
Tower [®] /Tribal [®]	604g PDM + 500g CTU	50%?		

*CRD consider all wheat drilled from 1st February as spring wheat.

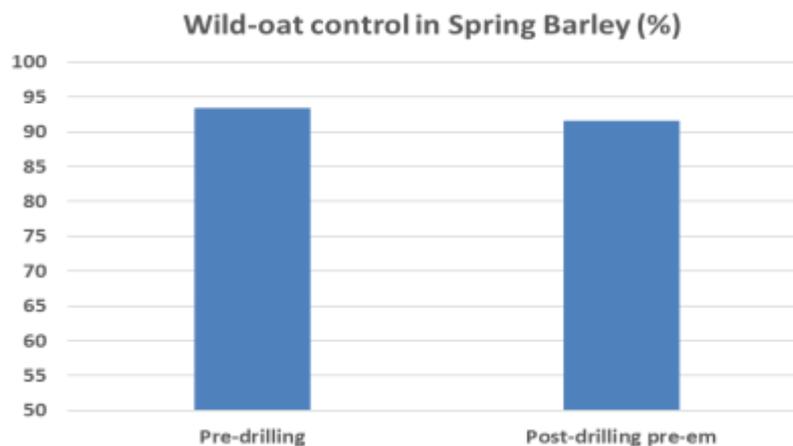
The wide application window for both Avadex Factor and Avadex Excel 15G in Spring Barley was widely appreciated during last season's record spring plantings. The option to apply ahead of drilling, as well as the classic post-drilling pre-emergence slot, allowed plenty of time to get on. Remember, performance doesn't change whether it's applied pre- or post-drilling.

Spring Barley



Wild-oats are having a moment in the limelight just at present so it's important not to forget that Avadex was originally introduced as a Wild-oat herbicide specifically in spring barley and excellent control is still being delivered even after 60 years! Wild-oats are yield sapping, with early emerging plants having twice the impact on yield than later germinators. Early removal with Avadex maximises both yield and control of this most competitive of weeds.

Timing-wise, pre- or post-drilling applications are equally effective in spring barley.



Source: 20 UK trials over 4 years; Tri-allate 2250 g ai/ha

Besides spring cereals, Avadex Factor and Excel 15G can both be used in Spring Linseed, under an EAMU. In fact, the Avadex products are the only non-ACCase herbicides for Black-grass or Wild-oats available for use in Spring Linseed. They are also the only pre-emergence graminicides available and, just like in spring cereals, the full autumn Black-grass rate can be applied.

Last but not least, it's important to remember the useful contribution from both Avadex Factor and Avadex Excel 15G to broad-leaved weed control. Whilst not targeted as a broad leaf herbicide, Avadex provides a useful start to the control of a wide range of broad-leaved weeds helping to reduce weed pressure during the important early phase of crop establishment when the crop is so sensitive to competition.

Whether in spring cereals or linseed, Avadex Factor and Avadex Excel 15G continue to be the cornerstone of any Black-grass or Wild-oat programme delivering reliable and consistent control ensuring crops get off to the best start.

USE PLANT PROTECTION PRODUCTS SAFELY. Always read the label and product information before use. For more information visit www.Avadex.co.uk. Avadex® contains tri-allate. Avadex is a registered trademark used under licence by Gowan Crop Protection Ltd. All trademarks duly acknowledged.

