

# lifescientific

ENGINEERED BENEFITS

FIRESTARTER



## FIRESTARTER

FIRESTARTER contains 400 g/l flufenacet and 100 g/l diflufenican and is a pre and post-emergence herbicide for the control of grass and annual broad-leaved weeds in crops of wheat and barley.

FIRESTARTER contains flufenacet which is a contact and residual herbicide and is regarded as an essential component of any Black-grass control and resistance management strategy .

FIRESTARTER is formulated as a suspension concentrate and has been registered by CRD based on equivalence to its reference product Liberator.

For more information including product label, safety data sheet and compatible tank-mixes see the Life Scientific website

<https://lifescientific.com/products/uk/firestarter/>

or download the App to get product information direct to your phone.

## Approved uses

CROP	MAX IND. DOSE (litres/Ha)	MAX TOTAL. DOSE (litres/Ha)	MAX NO. TREATMENTS (per crop)	LATEST TIME OF APPLICATION
Wheat (winter)	0.6	0.9 (max of 2 applications with second application not to exceed 0.3L/Ha and a min 6 week interval between applications)	-	Before third tiller stage (before GS 23) and 31 <sup>st</sup> March in the year of harvest.
Barley (winter)	0.6	0.9 (max of 2 applications with second application not to exceed 0.3L/Ha and a min 6 week interval between applications)	-	Before fourth tiller stage (before GS 24) and 31 <sup>st</sup> March in the year of harvest.
Wheat (spring)	0.3	-	1	Before fourth true leaf stage (before GS 14).
Barley (spring)	0.3	-	1	Pre-emergence.

# Black-grass control

Black-grass is one of the most competitive weeds in winter cereals with as few as 10 plants/m<sup>2</sup> resulting in a 13% yield loss. Given that Black-grass plants can produce as many as 1000 seeds per plant, populations can build rapidly. Add to this the fact that most UK Black-grass populations show some level of resistance to ACCase and ALS herbicides, Black-grass control remains the most challenging issue for cereals growers in many areas.

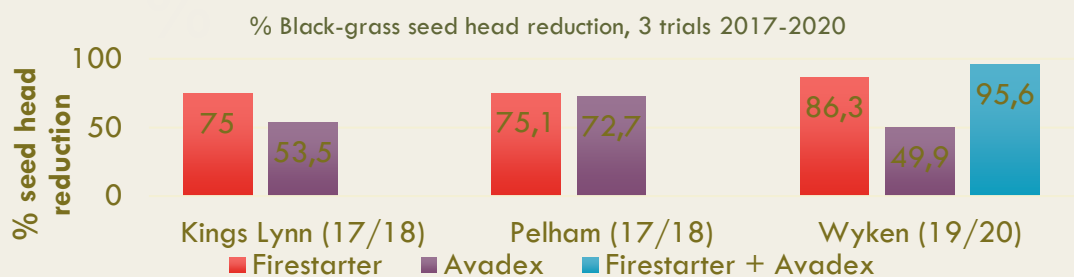
Control of the weed requires a whole rotation approach, utilising rotations, cultivations, and contact and residual chemistry from different chemical groups. 95-100% control of Black-grass is required in the cereal crop to prevent the field population increasing.

Whilst there are a number of chemical tools available, resistance has made a programmed or stacked approach to herbicide choice vital. FIRESTARTER contains flufenacet, one of the herbicide active ingredients currently least affected by resistance, and one that is critical to any Black-grass programme.

The dormancy of Black-grass seed depends on weather conditions at flowering, with hot dry conditions favouring lower dormancy.



## FIRESTARTER Field Trials



Trials conducted at 3 sites between 2017 and 2020 by Prime Crop Research Ltd demonstrated the continuing efficacy of flufenacet in combination with diflufenican as a key tool in Black-grass programmes.

The results above are from sites with high Black-grass populations and show the percentage reduction of seed heads relative to the untreated plots. Untreated populations ranged from 62 to 527 heads/m<sup>2</sup>.

FIRESTARTER was compared with another important Black-grass herbicide, Avadex, containing tri-allate. When both were used in a programme, levels of control at one site reached 95%.

FIRESTARTER can be used pre or early post-emergence, or used in a sequence of 0.6 L/Ha followed by 0.3 L/Ha in Winter wheat and barley.

## About Life Scientific

We specialise in bringing high quality off-patent crop protection products to market. Our goal is to give our customers better options to meet their plant protection needs.

So if it's under the Life Scientific brand you can be confident it's as effective as the current leading standards in the market.

**For product queries in the UK, call our new free phone helpline 0800 044 5025 or email [infoUK@lifescientific.com](mailto:infoUK@lifescientific.com)**

As well as Black-grass, FIRESTARTER is approved for the control Annual Meadow-grass and a range of annual broad-leaved weeds including Common Chickweed, Common Field-speedwell, Field Pansy, Field Forget-me-not, Groundsel, Mayweed and Red Dead-nettle.

FIRESTARTER contains flufenacet and diflufenican.

All other products are those of other manufacturers where proprietary rights may exist. Use plant protection products safely. Always read the label and product information before use. For further product information including warning phrases and symbols refer to [www.lifescientific.com](http://www.lifescientific.com)