

XERTON

(MAPP 17335)

August 2017

XERTON is a selective systemic herbicide, absorbed by the emerging shoots (grasses) and roots (broad-leaved plants), with translocation to the foliage.

XERTON Product Profile	
Active ingredient	ethofumesate
Inclusion rate	417g/L
Formulation	Suspension Concentrate (SC)
Crops	Winter wheat
Maximum individual dose	0.6L/ha
Maximum total dose	0.6L/ha
Application timing	Between GS12 and GS16 of the crop (two and six leaves)
Pack size	5L
LERAP	—
Water volume	200L/ha*

* Label water volume can be reduced according to guidelines given in the Code of Practice for Using Plant Protection Products to allow application at 80 – 100L/ha.

Black-grass (*Alopecurus myosuroides*)

Where difficult to control black-grass is found in winter wheat rotations, robust residual pre-emergence and post-emergence applications, most based around a flufenacet foundation and containing a range of additional active ingredients, are necessary. Contact acting products may also be applied once the black-grass has reached the appropriate growth stage.

XERTON - Part of a Black-grass Programme

XERTON offers useful black-grass activity at 0.6L/ha but should be used as part of a herbicide programme – see Photo 1.

XERTON is compatible with a wide range of herbicides and is a useful tank-mix partner. Used as part of a flufenacet based programme, XERTON at 0.6L/ha can significantly increase black-grass control.

Graphs 1 and 2 on the following page demonstrate the activity of XERTON on black-grass when included in a herbicide programme. XERTON should be applied pre-emergence of the black-grass where possible to maximise control.

Numerous trials over different seasons have shown that XERTON, when added to black-grass herbicide programmes, will add an average of 10% to black-grass control when applied pre-emergence of the weed. Control is less robust once black-grass is emerged, however, XERTON has still shown an average increase of 6% control when included.

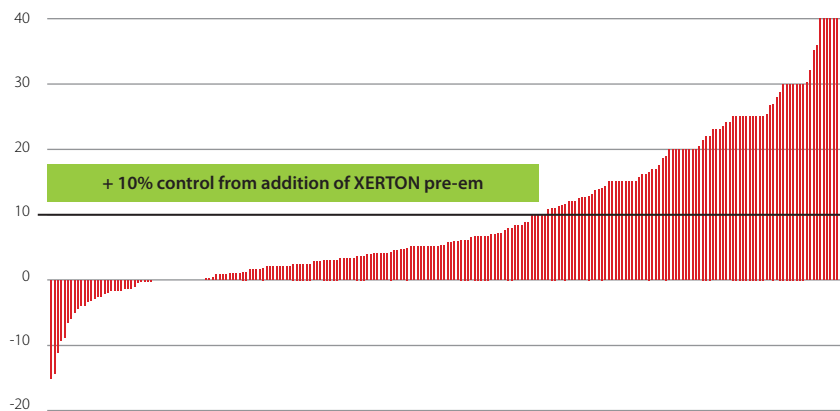
XERTON can be included as part of the residual application early post crop emergence or may be applied with any contact herbicide application.



XERTON 0.6L/ha pre-em XERTON 0.6L/ha post-em Untreated

Photo 1. UPL trials show that control is more reliable when applied pre-emergence of the weed

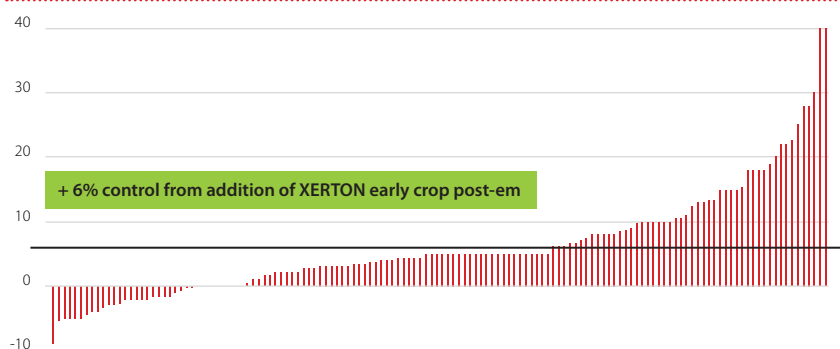
Graph 1. % Increase in Black-grass Control (headcount) – Pre-emergence Application



Graph 1 shows the control performance of XERTON when applied within a herbicide programme pre-emergence of the black-grass. XERTON can offer an average of 10% improvement in control of any black-grass population.

Source:
Distributor trials
2011 – 2016, n=237

Graph 2. % Increase in Black-grass Control (headcount) – Post-emergence Application



Graph 2 shows the control performance of XERTON when applied early post-emergence of the black-grass. Activity is reduced, however will still offer an average increase of 6% black-grass control when added to a programme.

Source:
Distributor trials
2011 – 2016, n=141

XERTON Recommendations

- Use as part of a flufenacet based herbicide programme.
- Sequencing or tank-mix options include flufenacet, diflufenican, pendimethalin, mesosulfuron, iodosulfuron.
- Avadex Excel 15G useful as part of the sequence.
- Apply pre-emergence of the black-grass.
- Apply at crop GS12-16.

XERTON Resistance Management

XERTON (ethofumesate) belongs to the benzofuran chemical family (Group N) and the mode of action is by inhibition of lipid synthesis – not ACCase inhibition. Avadex Excel 15G (triallate), QUIDAM/Defy (prosofocarb) also belong to Group N. There has been no resistance to ethofumesate recorded within the UK.

Photo 2 demonstrates XERTON activity across a number of known UK black-grass strains (1 per tray).

For resistance management, XERTON should only be used as part of a resistance management strategy including sequences with products with different modes of action and cultural control techniques.

Key Elements of The Resistance Management Strategy for XERTON:

- Maximise the use of cultural control measures wherever possible (e.g. crop rotation, ploughing, stale seedbeds, delayed drilling, etc.).
- Use tank mixes or sequences of effective herbicides with different modes of action within individual crops, or successive crops.
- Apply pre-emergence of weeds wherever possible. If applications are delayed, apply post-emergence products/mixtures to small and actively growing weeds, especially where high levels of resistance are suspected and to reduce the risk of resistance development.

For the latest information on tank mix recommendations, please visit our website at www.upleurope.com.

BASIS points for the technical information provided by this update are CP/58801/1718/g (1 CPD). To claim please e-mail: assistant@basis-reg.co.uk.

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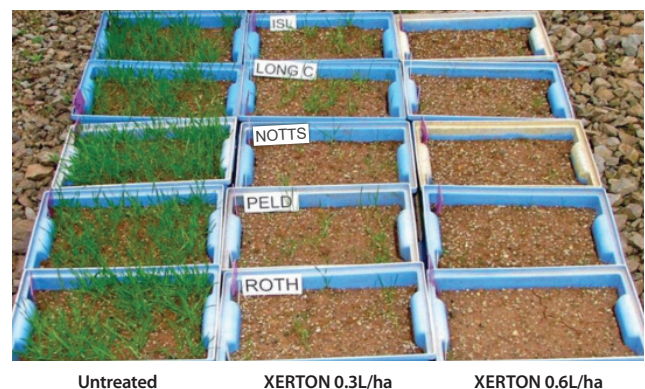


Photo 2. Testing with different strains of black-grass confirms that there is currently no known black-grass resistance to XERTON (ethofumesate) in the UK.