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.

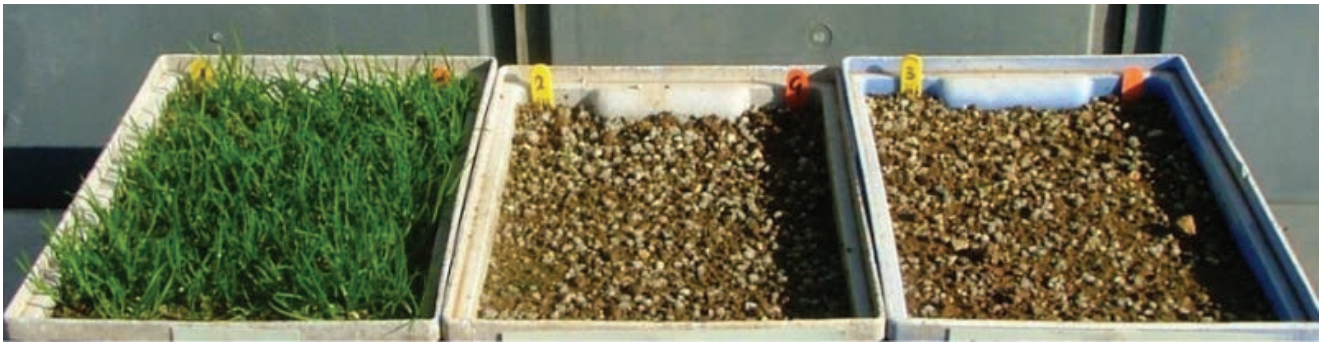
XERTON can be applied to winter wheat for the control of annual meadow-grass, and in addition offers activity against black-grass and sterile brome with some beneficial effects on wild oats and other brome species. XERTON also provides activity against a range of annual broad-leaved weeds, in particular, chickweed and shepherd's purse.

Grass Weed

XERTON is an extremely useful part of any herbicide programme, giving activity against a range of problem grass weeds. This includes excellent control of annual meadow-grass, and when used as part of an integrated grass weed programme, XERTON is active against black-grass and sterile brome, and also adds useful activity on other brome species and wild oats.

Annual Meadow Grass (*Poa annua*)

XERTON is particularly active on annual meadow-grass. Whilst best control is achieved when applied pre-emergence (Photo 1), XERTON continues to offer good control up to the early tillering stage.



Untreated | **XERTON 0.3L/ha pre-em** | **XERTON 0.6L/ha pre-em**

Photo 1. Annual meadow-grass control from pre-emergence sprays.

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Black-grass (*Alopecurus myosuroides*)

XERTON offers useful activity against black-grass when used as part of an integrated herbicide programme at 0.6L/ha.

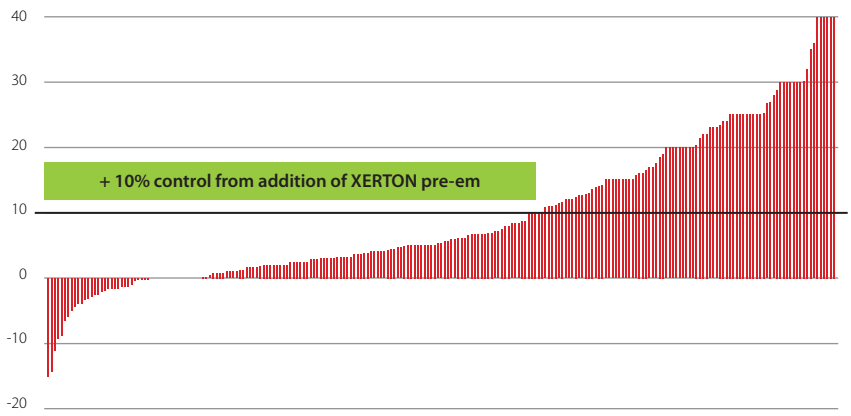
There is no known black-grass resistance to XERTON and activity is equal across all black-grass populations regardless of resistance status.

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

XERTON should be applied pre-emergence of the black-grass wherever possible to maximise control opportunities.

In distributor trials over many years, XERTON applied early pre-emergence has given an average reduction in black-grass ears of over 10% when included as part of a black-grass herbicide programme – see Graph 1.

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



Source:
Distributor trials
2011 – 2016, n=237

If applied post-emergence of the black-grass an overall improvement in control of 6% may be expected when used as part of a programme of treatments.

Sterile Brome (*Anisantha steriis*)

XERTON offers good control of sterile brome when applied pre-emergence of the weed. Control is reduced when using a post-emergence application. However, when used in a programme targeting sterile brome, XERTON will provide good levels of additional activity.

Photo 2 shows the excellent activity XERTON offers when applied pre-emergence of the sterile brome, it also offers some activity from post-emergence applications.

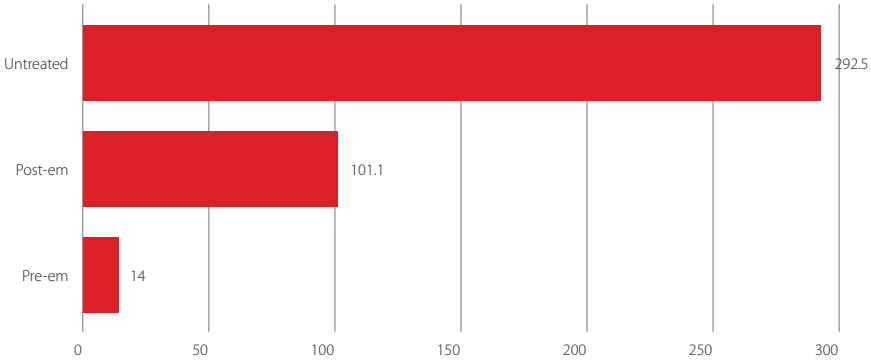
Graph 2 demonstrates the reduction in sterile brome plant material from the same applications.

Results shown are from a container screen, they are a good indication as to what can be expected from field applications under ideal conditions.

Untreated **XERTON 0.3L/ha pre-em** **XERTON 0.6 L/ha post-em**

Photo 2. Sterile brome control from pre-emergence and post-emergence applications of XERTON.

Graph 2. XERTON - Sterile Brome Control



Key:
= Mean fresh weight (g) of Sterile Brome following pre or post em application of XERTON.

Source:
ADAS Boxworth 2017

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Winter Wild Oats (*Avena sterilis ssp ludoviciana*)

XERTON will provide a level of activity against wild oats. As with other grass weeds, applications made pre-emergence of the wild oat provide higher levels of control compared to applications at the one or two leaf stage. Whilst full control cannot be expected, XERTON will reduce population numbers in most cases – see Photo 3.

Studies have demonstrated that all resistant, as well as non-resistant types are all equally susceptible.

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

Photo 3. Pre-emergence control of wild oats with XERTON.

Key Points

- To protect ground-water the maximum total dose must not exceed 1kg of ethofumesate per hectare in any three-year period.
- Do not use on water-logged soils or soils prone to water logging.
- XERTON should not be used on sands or very light soils containing a high percentage of stones.
- Always use in tank-mix with a partner product.

Mode of Action of XERTON (ethofumesate)

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

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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