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## Avadex<sup>®</sup> Xtra

Avadex Xtra is a selective herbicide for the pre-plant, pre-emergence control of wild oats in wheat, barley and linseed and suppression of ryegrass in wheat. Avadex Xtra offers an additional control timing for grass weeds in wheat.

### Active ingredient

500g/L tri-alleate.

### Formulation

Emulsifiable concentrate.

GROUP	15	HERBICIDE
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### Benefits

- Provides a herbicide resistance management strategy for use in cereals to enable longevity of weed control options.
- Controls and suppresses weeds prior to emergence, making control easier with pre or post-emergent options.
- Great for use where grass weeds and wild oats are known to be a problem.

### Weeds controlled

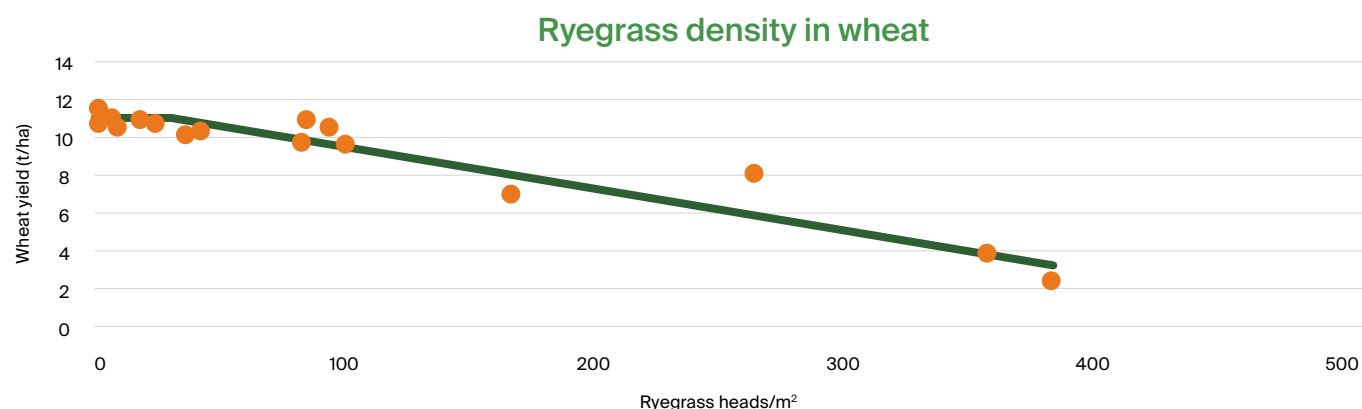
**Controlled:** Wild oats.

**Suppressed:** Ryegrass.

### General information

Foundation for Arable Research (FAR) trials have shown the detrimental effect of grass weeds on the yield of crops. FAR Research Results from 2022 suggest that approximately 21 ryegrass heads per m<sup>2</sup> is sufficient to reduce the yield of the crop. In populations where Group 1 and 2 resistance is reported, controlling these plant numbers post-emergence is difficult. Therefore, a reduction in yield is inevitable.

Utilising Avadex Xtra as a pre-plant pre-emergence herbicide reduces plant numbers before they emerge. Used in programme with other herbicides, eg Sakura<sup>®</sup> in wheat, can offer full control.



**Figure 1:** Relationship between density of ryegrass seed heads and yield in an autumn-sown wheat crop grown at Chertsey, mid-Canterbury, 2021-22 season, assessed on 1 December 2021. Split-point regression identified a break point at 21.4 heads/m<sup>2</sup> (which represented 94% weed control), below which yield was not affected.

Adapted from FAR Research Results 2022.

## Additional information

Avadex Xtra needs to be incorporated immediately following application to 5cm.

Avadex Xtra is converted to a gas then taken up by the germinating coleoptile. Incorporation retains Avadex Xtra within the soil and inside the germination zone. Any weeds which have already germinated will not be controlled.

Ensure soil is not wet prior to application to prevent uneven incorporation. Apply Avadex Xtra to a clod free, friable seedbed prior to sowing crop. Ensure all seeds on the soil surface are buried by cultivation prior to application. Avadex Xtra may be used when crops are undersown with legumes.

If practical, sow the crop at right angles to the direction of spray incorporation.

## Resistance weed warning

Resistance to herbicides can develop from excessive use of a singular herbicide mode of action or group. To prevent or delay the development of resistance, use Avadex Xtra in a programme or in rotation with other herbicides.

Continual use of the same active ingredients can result in the development of resistance.

## Application timing and use rates

CROP	RATE/HA	TIMING	COMMENT
Wheat	2.8L/ha	Apply up to 3 weeks prior to sowing. Incorporate immediately to 5cm. Any plants already germinated will not be controlled.	Follow with another labelled grass weed herbicide to get complete grass control.
Barley			Tri-allele requires moisture to be activated, in dry conditions efficacy may be compromised.
Linseed	2.8–3.4L/ha		



*Left hand side: No herbicide*

*Right hand side: Avadex Xtra used in a programme for grass control*

The information contained is a quick reference only. Always consult the product label before use.



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