

# Bird protection for Arable crops.



## Key **BENEFITS**

- ✓ Two modes of action - visual and taste
- ✓ Lasts 2 to 4 weeks depending on weather, crop growth etc
- ✓ Repels many bird species
- ✓ Low toxicity, No REI
- ✓ Use on higher value crops



## Key **BENEFITS**

- ✓ Lasts 7 - 10 days depending on weather crop growth etc
- ✓ Repels many bird species
- ✓ Cost effective
- ✓ Low toxicity, No REI
- ✓ Use on feed grain crops

Birds can punish seed and grain yields, particularly in early or late crops, when there are few alternative food sources.

**Avex** (anthraquinone) and **Flock-Off** (methyl anthranilate) are both low toxicity, naturally derived bird repellent alternatives.

Detailed small plot trials in cereals over the 2011/12 and 2012/13 seasons have consistently demonstrated an excellent return on investment.

# Reduce yield losses with Avex and Flock-Off

Foundation for Arable Research estimates up to \$30 million per season is lost from arable crops due to bird damage.

- 1: Apply in low water volumes (only need to target edible part of the crop).
- 2: Add **Bond-Xtra®** or **Du-Wett®WeatherMAX®** to ensure coverage and rainfastness.
- 3: Both products have a taste deterrent effect. (Avex also has a visual mode of action). Only a small percentage of the bird population will feed and communicate to the rest of the flock/population.
- 4: Ensure perimeter of crop is treated particularly, near hedgerows and nesting sites.
- 5: Use two applications for greater levels of bird control in high pressure situations.

## Questions Answers

### Q: Do these Bird Repellents work?

A: YES. Trials in cereals in 2012 & 2013 showed a 2 - 4 tonne yield benefit under high bird pressure\*. \* Two applications 2012 and 2013.



### Q: What is the difference between Flock-Off and Avex?

A: Flock-off lasts 7-10 days and works by taste. Avex is even more effective, lasts 3 to 4 weeks, works by taste as well as visual recognition. While more expensive than Flock-off, Avex is the better option for high value crops.

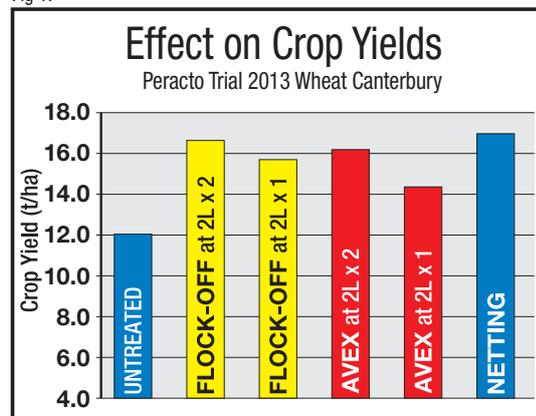
### Q: Can I tank mix these Bird Repellent products with other products?

A: YES, both products can be mixed with Diquat and/or Podlock®. They are best applied in low water volumes with a rain proofing products like Bond Xtra® or Du-Wett WeatherMAX®.

### Q: Can I just treat around the outside of the crop?

A: Study the bird feeding habits. These products work by aversion. Birds get a taste and communicate to others in the flock. Treating a wide strip around the outside of the paddock can be effective sometimes.

Fig 1:



**EFFECT ON CROP YIELDS:** Figures 1 & 2 are summaries of results in feed wheat from Leeston, North Canterbury. Mean Effect on crop yields at harvest (08-Feb-13)

Fig 2:

Treatment	Number of Applications and cost	% Yield Increase over untreated	Margin over product and costs*
UNTREATED	-	-	-
FLOCK-OFF 2L/ha	2x=\$185/ha	32.4	\$1,172.86
FLOCK-OFF 2L/ha	1x=\$92.50/ha	24.8	\$947.36
AVEX 2L/ha	2x=\$346/ha	30.6	\$935.54
AVEX 2L/ha	1x=\$173/ha	21.8	\$739.66
BIRD NETTING	1x=\$1,150/ha	36.0	\$360.50

Applying **Avex** or **Flock-Off** at 2L / ha on one or two occasions resulted in significant reductions of bird damage.

Two applications of **Avex** or **Flock-Off** achieved 30% and 32% yield increases (respectively) over the untreated control.

\* Product and wheat pricing is accurate as at Nov 2015 and excludes GST.

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For further information contact: Etec Crop Solutions Ltd.

**Phone: 0800 100 325 WWW.ETEC.CO.NZ**

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