



Peacock Industries  
Seeding innovation since 1985.

# Eco Bran Frequently Asked Questions



## What is Eco Bran?

Eco Bran is an insecticide bait used to control grasshoppers, crickets, mole crickets, cutworms, ants and other target pests. Please consult local regulatory for target pests and species.

## What is the Chemical in Eco Bran?

The active moiety in Eco Bran is Carbaryl. Carbaryl is impregnated onto a wheat bran carrier at 2% by weight along with proprietary attractants, and formulations components.

## How do I apply Eco Bran?

Eco bran is applied using a standard disc or mechanical spreader. For best results use with a Valmar machine or similar applicator and calculate a test strip (by distance and weight) to calibrate and confirm application rates.

Depending on the individual set up, some growers are applying Eco Bran without mixing with other additives when using a Valmar or similar applicator. Other growers are blending with an inert like oat hulls or even granular fertilizer to get the required bulk to ensure consistent application. If a Valmar applicator or similar spreader is not available, the product can also be application with a standard disc spreader.

A test strip (pre-weight wait and distance) should be used to calibrate application rates.



## **Does Peacock offer Applicators for Eco Bran?**

### MODEL 20 Applicator

The Model 20 is a small applicator that holds approximately 40lbs to 60lbs of Eco Bran and is designed to be mounted on the back of an ATV, side by side or pick up. The Model 20 runs off of a 12V motor that plugs into the cigarette lighter and blows Eco Bran between 4ft - 8ft depending on set up. It can also be used to apply light seeds like grass seed.

To calibrate the machine take a pre-weighed amount of Eco Bran and a known distance and run at a set speed with the “release gate” opened at one of the predetermined intervals. Make adjustments until desired rate is achieved.

### MODEL 60 Applicator

The Model 60 is a larger applicator that holds approximately 150lbs - 200lbs of Eco Bran and is designed to be mounted on the back of an ATV, side by side or pick up. This applicator runs on a 5.0hp Honda gas engine and that plugs into the cigarette lighter and blows Eco Bran between 15ft - 30ft depending on set up. It can also be used to apply light seeds like grass seed.

To calibrate the machine take a pre-weighed amount of Eco Bran and a known distance and run at a set speed with the “release gate” opened at one of the predetermined intervals. Make adjustments until desired rate is achieved.



## **What is the application rate of Eco Bran?**

The application rate of Eco Bran varies between 1.5lbs and 4.0lbs to the treated acre. There are two main things that determine the application rate for Eco Bran:

1. The size of the grasshoppers (the bigger the grasshopper the more they consume and the higher application rate is needed)
2. The number of grasshoppers per sqft or sq metre (Population density). The higher the population density the higher the application rates.

A bag of Eco Bran (44lbs) will treat just over 29 acres at the low rate (44/1.5lbs) to 11 acres at the high rate (44/4lbs)

## **Where and when to apply Eco Bran?**

It is best to apply Eco Bran as soon as you see grasshoppers in your field. The smaller the grasshopper the less product they need to consume to reach mortality (therefore not only more effective but cheaper in cost). It also prevents them from laying eggs which can translate to an additional outbreak at a later day.

Eco Bran should be applied on tree lines, ditches road sides and field parameters. Where regulatory allows it should also be applied on the crop making a swath around the field edges/perimeter of 50ft to 100ft. Eco bran can also be used to treat hot spots and infested areas within the field where regulations allow.



## **What is the impact of weather on Eco Bran?**

deally apply bait early in the morning prior to air temperatures reaching ~27C. Upon reaching 27C hoppers begin to feed and will feed throughout the day as long as temperatures remain below ~32C.

Best to avoid application when temperatures exceed 35C, winds exceed 15mph or during rain. Grasshoppers take shelter during these conditions and refrain from eating.

## **How does Rain impact Eco Bran?**

After a rain we recommend walking the treated areas. If you can still see Eco Bran is will usually dry up and be good to go. However, if Eco Bran is no longer visible or it is sitting within puddles, like most insecticides after a heavy rain, it will need to be reapplied.

## **How long does Eco Bran Last/What is it's residual?**

Eco bran is formulated to not breakdown under UV light for up to 21 days when applied in the field. This is a major advantage as it will be available for consumption by multiple hatching cycles of grasshoppers that may not have been present during application.

However, if the insecticide pressure is high, once Eco Bran has been consumed it will no longer be available to control other infestations and an new application is required.

## **How long before mortality is obtained?**

Following consumption of Eco bran by the target pest, mortality should occur anywhere from 18hours to 3 days.

The variation is due to both species and weather variability. Some species are more susceptible than others, and warmer weather speeds up the time to mortality

## **Is Eco Bran safe for beneficial insects such as bees?**

Unlike foliar contact insecticides, Eco Bran is an insecticide bait. This means it must be consumed in order for it to have a negative impact on the pest.

For the most part beneficial insects such as bees, pollinators, butterflies and lady bugs do not consume the bait and as such are minimally impacted by its use. This advantage actually provides favourable application labels for use in crops that rely heavily on pollinators. Always follow label guidelines

## **How should Eco Bran be stored?**

Eco Bran should be stored in a cool dry place, out of direct sunlight and ideally kept above freezing. Where possible Eco Bran should not be stored in areas of high humidity

## **What is the shelf life of Eco Bran?**

If stored correctly Eco Bran has a shelf life of approximately 5 years from the date of manufacture

## **What happens if Eco Bran freezes?**

Ideally Eco Bran should not freeze. If it does freeze the chemistry should still be active, however the product may become clumpy which may lead to difficulty in achieving consistency with application rates

## Can Eco Bran be used around domesticated birds?

Eco Bran should not be applied where captive or livestock poultry have access to the product. Not only will the chickens or other poultry livestock eat the Eco Bran (making it ineffective and not available to kill target pests) but it will also not be beneficial to the birds. Eggs and meat should not be eaten from chickens if they have eaten Eco Bran recently.

## Can Eco Bran be used around wild birds?

Wild birds are not actively eating Eco Bran, equally as a insecticide bait a lot of product would have to be consumed (based on percentage of body weight) to have any negative impact. It is still beneficial to not apply Eco Bran close to areas designed to attract wild birds such as bird feeders, bird baths or bird houses.



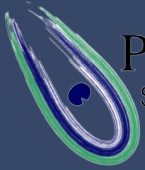
## What happens if wild birds eat poisoned pests?

This is not a major concern, a wild bird would have to eat an extensive volume of poisoned pests for this to be of concern.

## Can Eco Bran be used around pets?

As an insecticide bait Eco Bran has to be consumed in order to have any negative impact.

Also its impact is based on consumption by body weight. Grasshoppers and crickets are substantially smaller than dogs and cats. Dogs and cats are not drawn to Eco Bran and it is not a desirable food source for them. Even then a large extensive amount would have to be consumed to be of any concern.



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