



# Quality Pheromones and Trapping Systems

Insects Limited, Inc. researches, tests, develops, manufactures, and distributes quality pheromones and trapping systems for food infesting insects to a global marketplace with a focus on the statement above. At our core, Insects Limited focuses on bringing **Science, Education, and Innovation to the Stored Product Industry.**

## All Beetle Rice Weevil Kit IL-700



### Product Description

This kit combines the power of Insects Limited's signature Bullet™ Lures for Rice Weevil, *Sitophilus oryzae*, with the innovation of the three-part All Beetle Trap™

The All Beetle trap has a clear view lid for easy inspection, a sturdy polypropylene base and a replaceable tray that snaps in from below. The Bullet lure snaps into a custom clip built into the clear lid of the trap. This ensures that the lure does not take up valuable space in the glue pad below.

This low-profile trap slides easily beneath equipment or fits nicely into corners or along walls where Rice Weevil are found.

### Features and Benefits

The All Beetle trap with Rice Weevil Bullet Lures will allow you to monitor the areas needed to help determine:

- If there is a presence of insects in the suspected area?
- If the number of insects in your facility is increasing or decreasing?
- Where insect populations are coming from. (The All Beetle trap can help pinpoint the infestation.)
- If further investigation or professional measures need to be taken.

The clear top of the All Beetle trap allows professionals to simply glance down at the device to find out if there is a presence of insects. If not, they simply keep moving along their route, allowing more time for inspection. The loop on the top allows the device to be tethered to a permanent object, therefore reducing the possibility of a lost device as well as lost insect data.

To ensure the lid will not pull off with the tether, Insects limited has created deeper hooks as well as securing joints between the clear top and the blue base. The top is vented in 3 places to allow for the disbursement of pheromone and food attractants.

Each kit comes with 10 sets of the clear tops, blue bases, and snap-in replaceable trays as well as 10 Rice Weevil Bullet Lures and 10 All Beetle glue boards to help monitor for the pest insects that you are trying to control.

### How the All Beetle Trap is Designed

The All Beetle trap was methodically designed by entomologists who work with and study the target insects every day, and who understand the need for an efficient means of inspecting traps. They ensured the device lay flat so as to not have any obstacles for the insects to climb.

The slope of the device is mathematically calculated to ensure the insects will create momentum ascending the trap. As the insects reach the top, they meet a slippery curved cliff edge which forces them to fall into the adhesive below.

Our entomologists spent hours observing the insects to determine a texture of the slope to complement the insect's behaviors that were observed.

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## How This Product Can Help You

How to be certain this is the right product for your needs.

Pheromone monitoring is tedious, but necessary. Through third-party efficacy confirmation, and the forethought of an easy to inspect clear top, the All Beetle trap with Rice Weevil Bullet Lures will ensure you are getting the most accurate insect data while making your inspection and allowing you to efficiently determine and solve the problem.

## What to Expect with Your Order

Many customers purchasing the All Beetle trap with Rice Weevil Bullet Lures are doing so because they suspect the presence of these food-infesting insects.

Once the traps are received, you will take them out of the box. Remove a strip of unopened pheromone Bullet Lures™. Each pheromone lure is individually packaged to keep them fresh until you are ready to place them into a trap. Although the pheromone in the Bullet Lures™ is non-toxic, avoid direct contact with your skin if possible or simply wash your hands with warm water and soap if contact is made. Pheromone Bullet Lures™ are non-pesticidal and only act as an insect attractant. When you are ready to place the traps, the lures should be removed from their packaging by cutting or tearing the plastic package. The lures should then be placed into the custom clip built into the clear lid of the trap.

The All Beetle glue boards, held together with a rubber band, should be located in the box. Take out a single glue board. Before you remove the contact paper, place the board upright into the thin, bottom tray of the All Beetle trap. Remove the contact paper to reveal the sticky surface below. The entire tray/glue board combination can now be snapped into the blue base of the All Beetle trap. At this point the clear All Beetle trap cover that is holding the Rice Weevil Bullet Lure can be snapped onto the blue base and the trap is ready to go. Place the traps on a flat surface roughly 2-5m (5-15ft) apart to begin monitoring for the pests. Depending on the levels of infestation, insect catches could happen within 24 hours to two weeks.

## The Story Behind the Trap

### Who made it?

The All Beetle trap was designed by Insects Limited entomologists and tested by pest control operators. We decided to manufacture the product with a plastic injection company local to Indiana, USA.

### What inspired its creation?

As a company based in science, innovation, and quality products (and education), our entomologists realized there was no trap available in the market created with the behavior and biology of the insects taken into account.

We also knew the need for a trap that was easy to inspect. The All Beetle trap is the only monitor available that was designed thinking of both the science of the insect and the art of pest control.

### Obstacles We Overcame to Make a Great Product

Getting the dimensions of the trap correct was difficult. Some insects crawl well. Some have more trouble.

In particular, our trap was designed to suit the needs of the weakest crawling insect, the flour beetles. These beetles have little hairs on their tarsals (feet) making it difficult to climb up smooth surfaces.

Our entomologists spent many hours observing these insects attempting to climb different iterations of the trap. After purchasing the device, be sure to take note of all of the intricate details included because of our scientific observations.

### How was the product tested?

We first start with intense lab testing. Our entomology lab has 1x1 meter arenas set up where we actively attempt to create an environment the insect will not want to leave. We give them everything they need, but we also present them with the opportunity to travel to our trap and the attractant inside. If our attractant and trap can pull the insect out of the optimal environment in the lab then we are ready to test the devices in the field. We have created relationships with some of the best pest control operators in the industry. We trust these PCOs to test our products thoroughly and give us honest feedback. If we receive not only positive feedback, but feedback that our product works better than others, then we are ready to take our design to manufacturing and make it available to everyone.

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