

SPLAT LBAM™

Mating Disruption for the Light Brown Apple Moth *Epiphyas postvittana*

ISCA Technologies is proud to introduce its Specialized Pheromone & Lure Application Technology (SPLAT) for the management of the light brown apple moth *Epiphyas postvittana*. SPLAT LBAM is an environmentally friendly mating disruption product that provides sustained and controlled release of the light brown apple moth pheromone. Independent field studies have shown SPLAT LBAM to be as or more effective than leading mating disruption products. For most orchards, one application of SPLAT LBAM has been demonstrated to provide mating disruption protection for the whole season. SPLAT LBAM is an outstanding alternative to standard pesticide treatments, where moths are found to develop resistance to insecticides. Additionally, SPLAT products are less expensive to apply than other conventional pheromone dispensers since application is less labor intensive; mechanical applications include the use of: tractors, metered backpack sprayers, caulking guns, metered dosing guns, paintball guns, aircrafts, etc. (see photos).



SPLAT dollop applied on the branch of a peach tree

SPLAT Methods of Application



Dosing Gun



Caulking Gun



Metered Sprayer



Paintball Gun



Tractor



Aircraft

...and more



Light brown apple moth trap and lure
available for sale

LBAM lure: IT157 Iscalure-Postvittana
Trap: AR907 Paper Delta Trap

Distributors welcome

SPLAT vs. Traditional Pheromone Dispensers

ISCA's proprietary SPLAT formulation offers many advantages over traditional dispensing technologies:

- Multiple methods of application:**
 Having a wide range of viscosities and application (e.g. applicator sprays, aerial applicator sprays, caulking gun type tubes, etc.), SPLAT increases productivity by mechanizing the application of pheromone dispensing points.
- Easy Application for Small-scale and Large-scale Operations:**
 The amorphous and flowable quality of this highly adaptable product allows for an easy transition from small-scale manual applications to large-scale mechanical applications.
- Adjustable Strategies Same Amount of AI:**
 A fixed quantity of this material can be applied differently depending on the pest population pressure. The application of this matrix can be tailored by the user to best match the pest distribution and density in the field.
 Using a fixed amount of SPLAT per area, one can choose:
 - A high density of small point-sources (**Figure 1b**), thus maximizing the mating disruption effect (recommended for high pest pressure).
 - A low density of larger point-sources (**Figure 1c**), thus increasing the longevity of the application (recommended for lower pest population pressure).
- Rain Fast, Biologically Inert and Bio-degradable Formulation:**
 SPLAT is a biologically inert and bio-degradable matrix. Once cured, SPLAT will not wash off of vegetation while providing rain and UV protection for the pheromone and/or the pesticide.
- Season-long Protection and More:**
 SPLAT can remain effective in managing pest populations for up to a six months.
- Mixes with Kairomones and Feeding Stimulants:**
 SPLAT can be mixed with a variety of feeding stimulants or attractants including liquids, solids and oils to enhance attraction or stimulate feeding. It is also possible to develop formulations to target more than one pest with the SPLAT formulation mix of desired pheromones and/or pesticides.
- SPLAT Ingredients are safe:**
 An independent science review has stated that SPLAT inert ingredients "are cleared for food use."

Traditional Pheromone Dispensers

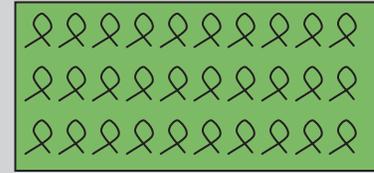


Figure 1a: For traditional dispensers, changes in the number of dispensers, changes amount of AI per acre.

SPLAT Pheromone Dispensers

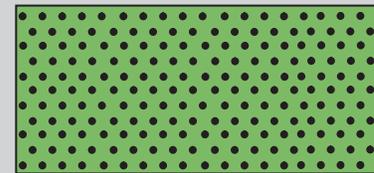


Figure 1b: For high pest pressure, number of applied dispensers can be increased while size of each dispenser is decreased; AI per acre remains unchanged.

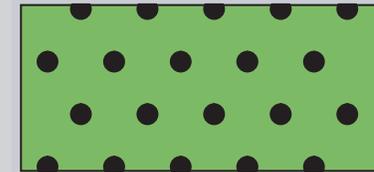


Figure 1c: For low pest pressure, number of applied dispensers can be decreased while size of each dispenser is increased; AI per acre remains unchanged.

Unlike traditional dispensers (1a), the number of SPLAT point sources can be tailored according to the pest density without changing the amount of AI per acre. For high pest densities, the use of many small point sources (1b) are more effective; for low pest densities, the use of fewer large point sources (1c) will provide adequate protection while providing protection for the entire season.