

Biologically Inert Matrix for the Release of Semiochemicals and/or Pesticides

Methods of Application



Dosing Gun



Caulking Gun



Backpack Sprayer



Tractor



Aircraft

...and more

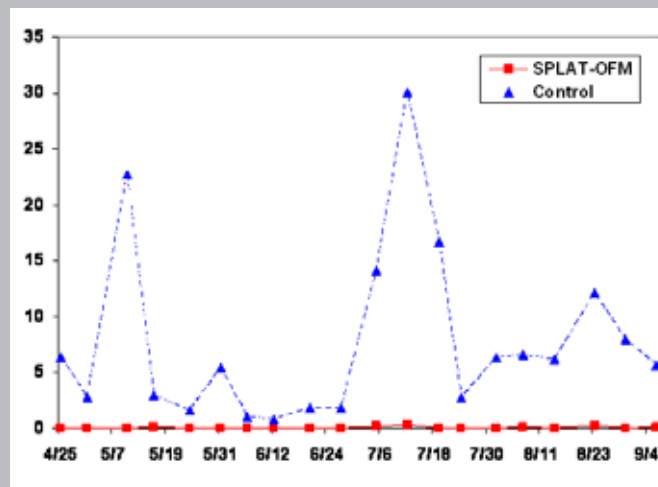
SPLAT[®] (Specialized Pheromone & Lure Application Technology) is a proprietary base matrix formulation of biologically inert materials used to control the release of semiochemicals and/or odors with or without pesticides. Extensive research on SPLAT using a variety of lures demonstrates that this matrix emits semiochemicals at effective pest suppression levels for a time interval ranging from 2 - 32 weeks.

Having a wide range of viscosities and application methods (e.g. tractor, metered backpack sprayer, caulking gun, dosing gun, aircraft, etc.), SPLAT increases productivity by mechanizing the application of pheromone dispensing points. 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.

SPLAT pheromone formulations are successfully deployed in pheromone Mating Disruption and Attract & Kill programs for the following pests:

- Gypsy moth, *Lymantria dispar*
- Codling moth, *Cydia pomonella*
- Oriental fruit moth, *Grapholita molesta*
- Brazilian apple leafroller, *Bonagota cranaodes*
- Fruit flies, *Bactrocera* and *Dacus* species

SPLAT OFM Mating Disruption Study



The graph shows SPLAT OFM performing with > 99% disruption in mating of male oriental fruit moths for the duration of an entire season with a single application.

ISCA welcomes collaborative projects to develop applications using the SPLAT formulation.

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:**

A recent EPA review has stated that SPLAT inert ingredients "are cleared for food use."

Traditional Pheromone Dispensers

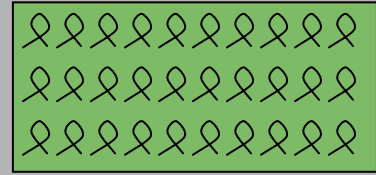


Figure 1a: For traditional dispensers, changes in the number of dispensers, changes amount of AI per acre.

SPLAT Pheromone Dispensers

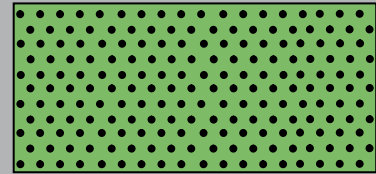


Figure 1b: For high pest pressure, number of applied dispensers can be increased while size of each dispenser is decreased; AI per acre remains unchanged.

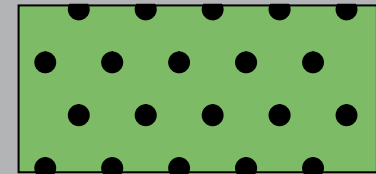


Figure 1c: For low pest pressure, number of applied dispensers can be decreased while size of each dispenser is increased; AI per remains unchanged.

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.

ORDER PLACEMENT, PAYMENT AND DELIVERY INFORMATION

- Normal sales tax applies for sales within California.
- Prices are FOB Riverside, California, shipping fees apply. Delivery cost will be shown in invoice or you may request an estimate. Order is delivered within 14 days after receipt of payment. Please inform us of any special request for delivery, extra charges may apply e.g. for rush deliveries.
- ISCA Technologies' standard terms and conditions of sale apply, which can be viewed at <http://www.iscatech.com/exec/sales.htm>, or you may request that a copy be e-mailed or faxed to you.
- To place your order, please send us your purchase order, or you may place your order online at: www.iscatech.com/ecommerce/
- Payment terms : payment in advance.
- Payment options : credit card, check, or wire transfer.
- Typographical errors subject to correction.

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