FRUIT GROWERS NEWS

25 YEARS OF COLUMNS WRITTEN BY BELOVED GROWER JERRY MILLS Produced & Published By: FRUIT GROWERS NEWS VEGETABLE GROWERS NEWS



MAR 7, 2017

# Attracticidal sphere lures spotted wing drosophila to their demise

It looks like a fruit, but it's definitely not as healthy.

- **f** According to Entomology Today, it's the attracticidal sphere, and a new study
- shows it to be a promising tool for managing the invasive fruit fly *Drosophila suzukii*. Published in the *Journal of Economic Entomology*, the research experiment found the attract-and-kill method, previously developed by the late Ron Prokopy and his graduate students at the University of Massachusetts to manage apple maggot (*Rhagoletis pomonella*) in orchards, to be similarly effective as a tool against *D. suzukii* in raspberry fields.

Lead author Kevin Rice, Ph.D., a post-doc at the U.S. Department of Agriculture-Agricultural Research Service Appalachian Fruit Research Station, in the lab of Tracy Leskey assembled the attracticidal sphere – which get their name from combining both an attractant and an insecticide – using a plastic base and a domed top made from a mixture including sugar feeding stimulant, wax, red dye, and insecticide. They first tested more than a dozen different insecticides in the sphere tool in the lab, and then they tested the spheres using the most effective insecticides (dinotefuran, spinetoram, spinosad, permethrin, and lambdacyhalothrin) in the field.

### LATEST NEWS

Producers who received 'top-up payments' face premium payment deadline JANUARY 24

2020 Adverse Effect Wage Rates kick in for H-2A employers JANUARY 24

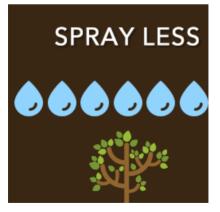
Report: Florida strawberries attacked by aggressive fungus JANUARY 24

Conference and trade show on Comprehensive Crop Care set in California JANUARY 24

Tim Nourse presented NASGA's 'Service with Impact Award' JANUARY 23

Josh Neyhart joins MDARD as senior environmental policy advisor JANUARY 23

#### See All News »



#### spray events."

In their article, the researchers note that the weekly harvesting of ripe fruit should be combined with the use of the attracticidal spheres, which have shown in other studies to be less effective at high levels of pest presence. When more fruit is left on the plant, it is exposed longer and serves as more competition for the spheres in attracting the attention of *D. suzukii*, which is also known as spotted wing drosophila (SWD).

"Attracticidal spheres can help manage SWD infestations while reducing pesticide applications, non-target effects, and secondary pest outbreaks," says Rice. "However, like most behaviorally based management strategies, attracticidal spheres will likely be most effective under low to moderate SWD population pressure. When SWD densities are extremely high, other strategies such as more frequent harvesting of ripe fruit as well as conventional insecticide applications will be necessary as well, though attracticidal spheres can provide an additional mechanism for managing this pest."

Rice says ongoing research is examining the optimal placement of attracticidal spheres within plants and in fields to manage *D. suzukii* as well as the longevity of the spheres through exposure to sunlight and rainfall.





# RELATED

Spotted lanternfly among invasives targeted in Pennsylvania

Pindar GT herbicide seen as dormancy weed control plan

Update on brown marmorated stink bugs

2018 Global Cleantech 100 includes Vestaron

Organic, conventional crop product available from Kocide

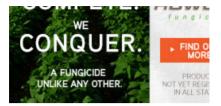
Harvest-time applications approved for Delegate WG





d & d By: Fruit Growers News Vegetable Grower







Prir	nary Business
-	- Select One
Stat	e
	Select One
	Special Offers 🕑 Week in Review 🗹
	Organic Grower Weekly I have read Policy.
	SUBMIT

Terms of Use Privacy Policy Cookie Policy





#### CURRENT ISSUE

#### TECHNOLOGY

New technology more precise in weather monitoring



#### FARM MARKET

Jerry Mills: Book has successful launch; products, tools help out

#### WATER

Columbia-Snake River litigation has 90,000-plus acres in balance

#### TECHNOLOGY

Pruner maker points to counterfeits purchased online

#### GRAPES

Nematodes tough on Washington winegrapes

See All Current Issue »

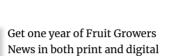
# FRUIT GROWERS NEWS

- 75 Applewood Drive, Suite A
  P.O. Box 128
  Sparta, MI 49345
- frontdesk@greatamericanpublish.com
- 616.887.9008

ABOUT SUBSCRIBE/RENEW ADVERTISE CONTACT UPDATE YOUR SUBSCRIPTION ADDRESS PLACE A CLASSIFIED AD PRIVACY POLICY COOKIE POLICY TERMS OF USE



*Be sure to check out our sister sites:* 



Adjuvant system for conventional & organic attune

EARN

Interested in reading the print edition of Fruit Growers News?

Subscribe Today »

editions for only \$15.50.

Vegetable Growers New Spudman Processing

© 2020 Great American Media Services & Fruit Growers News. All rights reserved. *website development by deyo designs*