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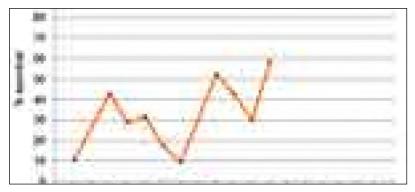
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EPA Seeks Public Comments on Dicamba Registration

Virginia Soybeans: Pyrethroid Resistance Hits High Levels, So Understand Treatment Options

By Ames Herbert, Virginia Tech Extension Entomologist August 20, 2012



The current season average is 40% survival (a total of 2,041 moths have been tested). As a general rule, anything above 30% means that resistance problems are likely to occur in certain fields.

Scott Reiter brought to my attention a possible pyrethroid failure in a soybean field in Prince George County.

This field had high numbers of large, medium, and small worms (in the range of 5-7 per 15 sweeps). They were still picking up about 5 worms per 15 sweeps two days after a pyrethroid application. We'll want to verify the species to see if tobacco budworms were in the

Budworms are visually similar to corn earworm larvae, but budworms are not effectively managed with pyrethroids. To tell the difference between species, we

have to dissect the larva's mouthparts. The farmer applied a 2nd spray containing indoxacarb today.

Back to the topic of interpreting the vial test results: our season average of 40% survival in the vials does NOT mean that 40% of our corn earworm population is resistant to pyrethroids. The vial tests should be considered an "indicator" of possible problems.

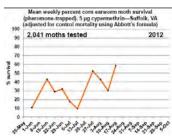
The values obtained with a pyrethroid other than cypermethrin (e.g., beta-cyfluthrin, bifenthrin, lambda-cyhalothrin, gamma-cyhalothrin, esfenvalerate) would likely differ. Also, we are testing adults (moths) under laboratory conditions in an enclosed glass vial. Soybean field conditions are entirely different, and it is the larval stage that is targeted by farmers (please don't target the adults with field sprays—they are strong fliers and can easily fly into and out of your field; wait until their eggs hatch and base treatments on threshold numbers of larvae).

If you decide to apply a pyrethroid, you may not have any problems controlling corn earworm larvae, and pyrethroids will also help manage stink bugs. Remember, please do not apply pyrethroids (or any other pesticide) at rates higher than the label permits. It is illegal to do so, and would really only work as a "resistance management" technique if absolutely no survivors remained after the application.

What would likely happen is that the high, off-label rate would kill off the susceptible larvae, leaving some resistant ones to grow up and mate with other resistant individuals, leading to greater resistance problems down the road.

On the other hand, too low of a rate may not kill enough pests, creating the need for additional applications, thereby increasing selection for resistance. For better resistance management, you'll want to use the lowest effective rate, and avoid repeat applications of the same chemical class. You may want to consider:

 Non-pyrethroid chemistries (e.g., indoxacarb, Bacillus thuringiensis, flubendiamide, spinosad, carbamate)



CLICK GRAPH TO ENLARGE: Pyrethroid resistance trend for bollworms/com earworms in Virginia into late August 2012.

MARKETS

WEATHER

Current

Local

Radar

Satellite

Surface

Rain Est.

Drought Soil Temps

24-Hr.Storm

48-Hr Storm

Wind

DTN

 Cotton
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 Soy
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 Wheat
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 Cotton Daily
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 Cotton Daily
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 Ark. Farm Bureau Daily

 U.S. Grain Review

STATE GRAINS

Ark. Rice	Д
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Ky. Elev.	K
La. Gulf	N
Mo. Daily	<u>N</u>
N.C. Week	C
S.C. Daily	S
<u>Memphis</u>	<u>I</u>
Va. Daily	<u>V</u>

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The Andersons Signs lowa Assets to MaxY April 1, 2016

Precision Ag: Compa Plans Not Tied to Equ March 29, 2016

Nematodes: Valent ar Develop New Biocont Soybeans March 29,

Rice Planting Widens
Mixed March 28, 2010

South Carolina: Dicar Latest Bollgard Cotton Soybeans March 23,

SUGARCANE AF

Texas Sorghum: Keer Sugarcane Aphids Ma

Georgia Sorghum: Be Sugarcane Aphids in 2016

How to Properly Scou Aphids – Video Decer

Texas: Transform Sec

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Weekly Cotton Market Review - USDA

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USDA: Peanut Price Highlights

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DTN Grain Close: Soybeans Lead Push **Higher**

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DTN Livestock Midday: Sluggish **Morning Trade**

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DTN Grain Midday: Traders Chewing Over USDA Numbers

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Xtend Technology - EPA Opens Comment Period On Dicamba Use

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USDA Lending Rates Increase Over

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More News Items

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Mississippi: 5 Row Crop Scout Schools, April 4-13

April 4 @ 8:00 am - April 13 @ 5:00 pm Texas Panhandle Scout School, Amarillo, April 5

April 5 @ 8:00 am - 5:00 pm Georgia: Beginning Pecan Grower Workshop, Tifton, April 11

April 11 @ 8:00 am - 5:00 pm

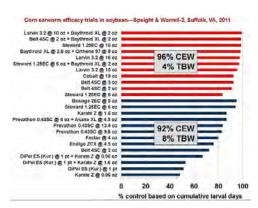
· Products containing dual modes of action (e.g., a pyrethroid plus an organophosphate; a pyrethroid plus a spinosad)

· Tank mixing products to achieve dual modes of action (remember to consider other pests—acephate would be good to add to a pyrethroid if you have both worms and

Please see the tables that follow, they should help. There should be more options available for soybean in 2013, such as anthranilic diamides.

Here are some resources that you may want to check out:

- · To learn more about the classification of pesticide modes of action, please see the Insecticide Resistance Action Committee's website, www.irac-online.org.
- · For more details on sampling and decision making, refer to Dr. Herbert's soybean insect chapter in the 2012 Virginia Cooperative Extension Field Crops Pest Management Guide (www.pubs.ext.vt.edu/456/456-016/Section 4 Insects-8.pdf)
- · Also see tehe customizable Corn Earworm Threshold Calculator (www.ipm.vt.edu/cew/) it lets you input multiple variables for your scenario.



CLICK GRAPH TO ENLARGE: Virginia soybean insecticide efficacy comparisons on bollworm/corn

Note: CEW = corn earworm; TBW = tobacco budworm. Not all products evaluated are currently labeled for use in soybean; please check the label.

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By Ames Herbert, Virginia Tech Extension Entomologist August 20, 2012

bollworm corn earworm insecticide resistance

pyrethroid resistance soybeans

Editor's Picks



AgFax Weekend – Deere's Latest Acquisition; Dicambia Tech 1 Step Closer; Farming Income Report



Farm Business: Does the IRS Consider You a Farmer? Maybe not. - DTN

Rose on Cotton: Upward



Cleveland on Cotton: Demand is Key - What About Adidas No U.S. Cotton Policy?

Louisiana Corn: More Planting

for Sugarcane Aphids

Sugarcane Aphids: N

States, 417 Counties

11, 2015

12. 2015

Spider mits

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soybeans.

Insecticides registered for use on

Arkansas: Feral Hog Control Workshop, Fordyce, April 12

April 12 @ 8:00 am - 5:00 pm California: Tree Nut Theft Training Seminar. Modesto, April 14

April 14 @ 8:00 am - 5:00 pm Louisiana: Wheat, Oat Field Day, Winnsboro, April 20

April 20 @ 8:00 am - 5:00 pm Texas: Small Acreage Farm Equipment Field Day. Cameron, April 30

April 30 @ 8:00 am - 5:00 pm



Movement Wrapped Up the Week



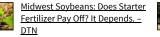
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Farming Income Projected 2nd Lowest in 30-Plus Years – Fed Reserve



Drought Resistant Plants - Purdue

Researchers Have the Gene Ready



DTN Fertilizer Trends: Nitrogen Price Increases Accelerate

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