



# DuPont™ Vydate® C-LV

insecticide/nematicide

## Manage nematodes and maximize your return on each acre

Count on DuPont™ Vydate® C-LV for insect control plus nematode suppression to help protect your cotton yields and preserve the maximum value for your crop.

### Protect your profits

Nematodes are taking a bite out of cotton plants and growers' profits in most of the cotton growing areas of the United States.

In areas with known, high populations of nematodes, growers have come to rely on in-furrow applications of Temik 15G at planting followed by a foliar application of Vydate® C-LV insecticide/nematicide. However, with the introduction of nematicide-treated seeds cotton producers are beginning to reconsider this option.

Proponents of seed treatments cite convenience as a primary reason for their use. Treatments are delivered on the seed at a standard rate,

eliminating the need to calibrate in-furrow application equipment while also avoiding some handling issues associated with Temik.

However, three years of field tests confirm that this convenience comes at a price. Simply put, producers who switch to seed treatments are leaving money in the ground.

### 2006-2008 Field Trials

Several common treatments were evaluated in 2006, 2007 and 2008. Regimes that included seed treatments, Vydate® C-LV and/or Temik were evaluated.

### Results: Net value of treatment

No effect was noted on cotton lint grades in any of the years. The value of the southern root-knot nematode treatments for all three years is shown below.

All of the treatments resulted in higher yields versus the untreated check. However, the value of the yield increase achieved by the use of Aeris alone (1074 lbs lint/A) did not cover the costs of the treatment. Following up the Aeris seed treatment with a foliar application of Vydate® C-LV yielded a positive return, but researchers actually recorded better results when Vydate® C-LV was used, alone, on untreated seed.

Of all of the treatments tested, none could surpass the value of an in-furrow application of Temik 15G followed by Vydate® C-LV. It provided significantly higher average yield (1323 lbs lint/A) and a net value of \$121.19 per acre.

## Value of southern root-knot nematode treatments 2006-2008, Hockley and Cochran Counties, Texas

Southern root-knot nematode Treatments	Cost of Treatment <sup>1</sup> /Acre	Value <sup>2</sup> of Yield Change/Acre	Value of Treatment <sup>3</sup>
Check	\$0.00	\$0.00	\$0.00
Aeris	\$19.06	\$10.08	-\$8.98
Aeris followed by DuPont™ Vydate® C-LV at 17 oz/A	\$30.14	\$46.48	\$16.34
Vydate® C-LV at 17 oz/A	\$11.08	\$66.08	\$55.00
Temik 15G at 5 lbs/A	\$17.25	\$90.72	\$73.47
Temik followed by Vydate® C-LV at 17 oz/A	\$28.33	\$149.52	\$121.19

<sup>1</sup> Cost based on 2009 local price.

<sup>2</sup> Value is based on average cotton loan price for 2008 on 31-3-36 cotton, \$0.563

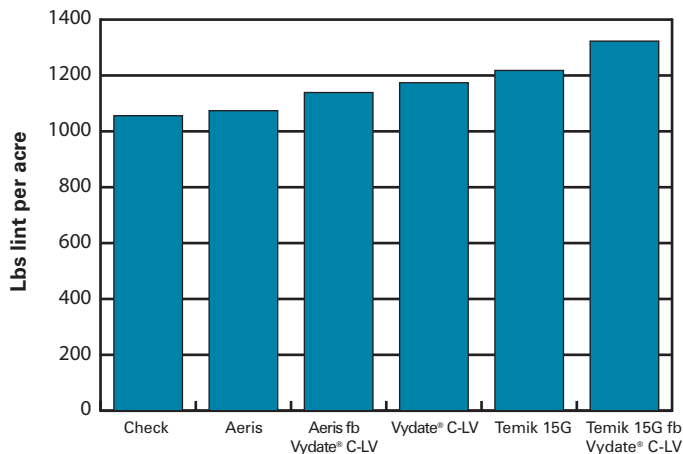
<sup>3</sup> Value of treatment is difference in cost of treatment minus value of yield change

## Results: Yield improvements

Each of the treatments provided significantly higher cotton lint yields than the untreated check (1056 lbs lint/A).

### Average Lint Yields 2006-2008 Hockley and Cochran Counties, Texas

Average Yield (Lbs-lint/A) of cotton subjected to six treatments targeting southern root-knot nematode 2006-2008



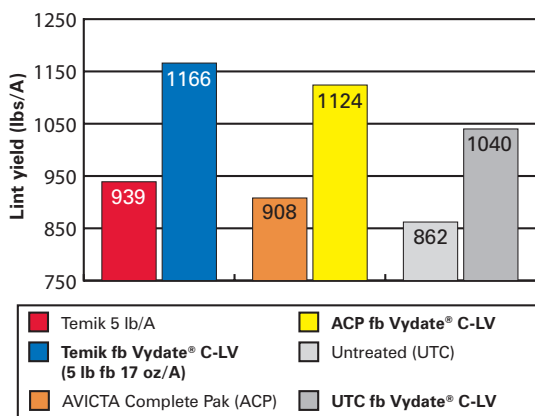
Source: Kerry Siders, Texas AgriLife Extension Service, Levelland, Texas

### Vydate® C-LV helps deliver higher yields

In a related study, Vydate® C-LV was shown to improve the performance of the treatment it followed.

The following graph illustrates the potential yield gain resulting from the use of Vydate® C-LV. As the data show, Vydate® C-LV effectively protected the growing plant from nematode attack and provided growers with an economic benefit through greater yields at harvest.

Vydate® C-LV: Root-Knot Nematodes



Source: Kerry Siders, Texas Cooperative Extension, Whiteface, Texas 2006

\* Kerry Siders, Texas AgriLife Extension Service, Levelland, Texas

\*\* This Vydate® C-LV recommendation is made as permitted under FIFRA Section 2(ee) for use on cotton to suppress reniform, root-knot and lance nematodes following planting of nematicide-treated seed in the states of AL, AR, GA, LA, MS, MO, NC, NM, OK, TN, VA and TX. This recommendation has not been submitted to or approved by the EPA. The 2(ee) expiration date is 12/31/2011 for all states except SC. In SC the 2(ee) expiration date is 12/31/2009.

Avicta, Temik 15G and Vydate® C-LV are restricted-use pesticides.

**This reference guide is not intended as a substitute for the product label for the product(s) referenced herein. Product labels for the above product(s) contain important precautions, directions for use and product warranty and liability limitations that must be read before using the product. Applicators must be in possession of the product label(s) at the time of application. Always read and follow all label directions and precautions for use when using any pesticide alone or in tank mix combinations.**

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## Vydate® C-LV delivers more value per acre

After reviewing three years of field data, researchers\* confirmed that best defense against southern root-knot nematodes begins with in-furrow application of Temik 15G at planting, followed by a foliar application of Vydate® C-LV.

### How to get the best results with Vydate® C-LV

Start the season by applying Temik 15G at planting, then follow with Vydate® C-LV.

#### Vydate® C-LV for nematode suppression\*\*

Apply Vydate® C-LV at the rate 17 ounces per acre at early square (5-7 leaf).

Or make two applications of Vydate® C-LV at the rate of 8.5 ounces per acre — make the first at 2-5 leaf stage, followed by a second application 10 to 14 days later.

#### Insect control and nematode protection

When it comes to managing nematodes in cotton, only Vydate® C-LV suppresses nematodes while also controlling fleahopper and lygus populations. No other product can match the unique above- and below-ground plant health benefits and protection of Vydate® C-LV.

#### Vydate® C-LV fleahopper control plus nematode suppression

Apply Vydate® C-LV at the rate 17 ounces per acre at early square (5-7 leaf) when insects appear and reach threshold.

For additional nematode suppression, make a second application of Vydate® C-LV at the rate of 8.5 ounces per acre 10 to 14 days later.

#### Vydate® C-LV for lygus control plus nematode suppression

Apply Vydate® C-LV at the rate of 17 ounces per acre when insects reach threshold.

Applications will need to be made at 1st to 7th leaf instar to take advantage of maximum nematode suppression.

**IMPORTANT:** Please refer to the product label for complete directions for use and precautions.

### For more information

Protect your cotton yields from nematodes, fleahoppers and lygus and get the most value per acre. Contact your local DuPont crop protection retailer or DuPont representative to learn more about Vydate® C-LV insecticide/nematicide. And visit us on the Web at [vydateclv.dupont.com](http://vydateclv.dupont.com).



The miracles of science™