

LACA Meeting

February 12 - 14, 2014

Keith Griffith
Chemtura AgroSolutions
Technical Sales Service Rep
Orlando, FL
407 - 256 - 9296





DoubleTakeTM

INSECTICIDE



CONFIDENTIAL



Double Take™ Features and Benefits

- **Very broad pest spectrum**
 - Over 60 labeled pests, including Brown Marmorated Stink Bug and Kudzu Bug
- **Superior knockdown & lasting residual control**
 - One of the longest residual insecticides available
- **Controls all stages of insect life**
 - From eggs to adults
- **Multiple modes of action**
 - Diflubenzuron IRAC Group 15 & lambda cyhalothrin IRAC Group 3
 - Both IGR & neurotoxic effects
 - Reduces potential for tolerance/resistance development

DoubleTake Labeled Crops

- Cotton
- Soybean
- Peanut
- Pepper

Key Facts

- Premix of Diflubenzuron + Lambda-cyhalothrin
- SC formulation (22 :11% ratio)
- Labeled Use Rate: 2 – 4 fl oz/A

Key Insect Pests

- Kudzu bug
- Stink bugs (Including Brown Marmorated)
- Worms (armyworms (fall, beet, southern, yellow-stripped, true, et al.), corn earworm, velvetbean caterpillar, lesser cornstalk borer, green cloverworm, and others)
- Bean leaf beetle
- Three-cornered alfalfa hopper
- Grasshoppers
- Pepper weevil
- Aphids (Suppression)

The Kudzu Bug or Bean Plataspid (*Megacopta cribraria*)

- Growing concern for soybean farmers in Mid-Atlantic, Southeast, and Mid-south regions
- **DoubleTake provides control of Kudzu Bug..**



Southeast & Mid-south Soybeans

DoubleTake Application Programs:

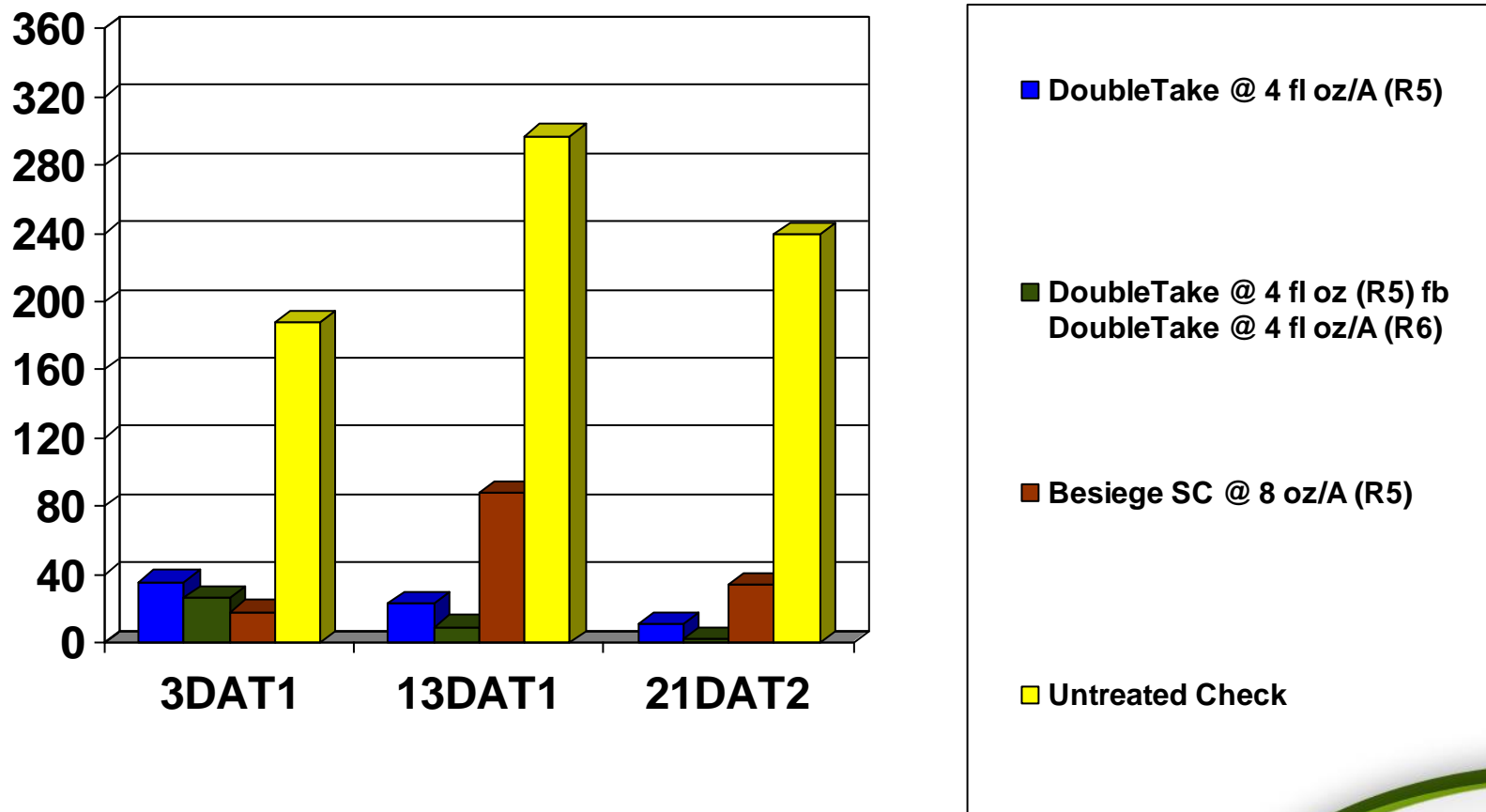
- Apply at R3 stage alone or in fungicide applications (diflubenzuron yield enhancement benefit requires this timing)
- Apply when pests reach treatable threshold levels
 - kudzu bug; stink bugs; worms, TCAH, BLB
- Effective residual control at low 4 fl oz/A rate

DoubleTake Efficacy On Soybeans

Dr. Jeremy Greene – Blackville, SC 2013

Treatments delayed due to rain events and applied on 8/27(R5) & 9/9(R6)

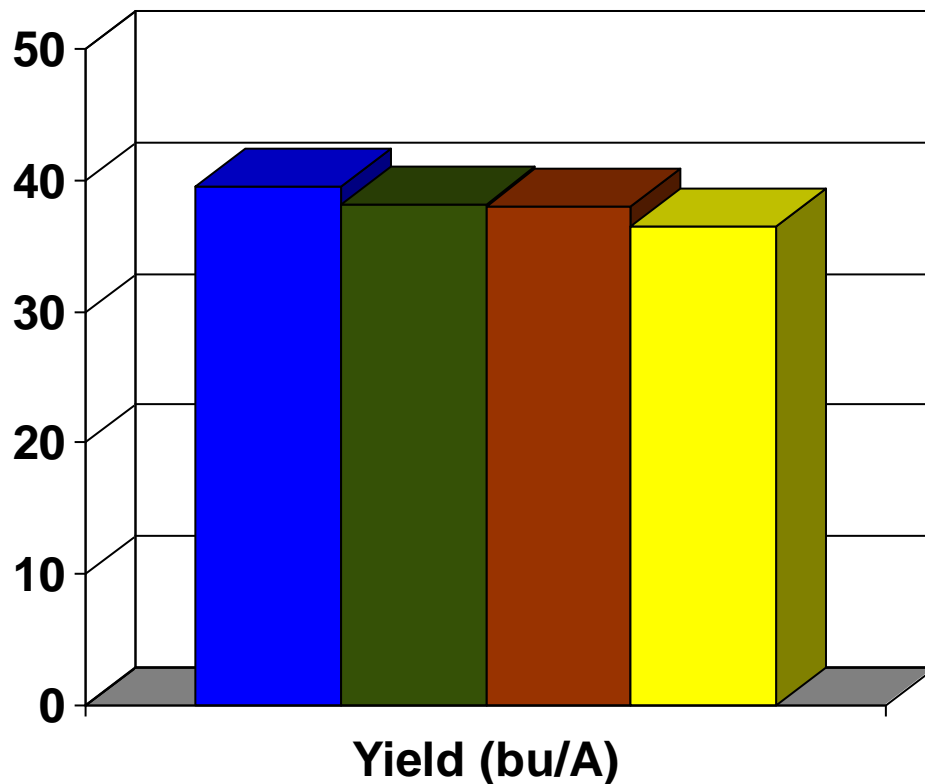
Total Kudzu bugs / 20 sweeps – (Adults + Nymphs)



DoubleTake Efficacy On Soybeans

Dr. Jeremy Greene – Blackville, SC 2013

Treatments delayed due to rain events and applied on 8/27(R5) & 9/9(R6)



■ DoubleTake @ 4 fl oz/A (R5)

■ DoubleTake @ 4 fl oz (R5) fb
DoubleTake @ 4 fl oz/A (R6)

■ Besiege SC @ 8 oz/A (R5)

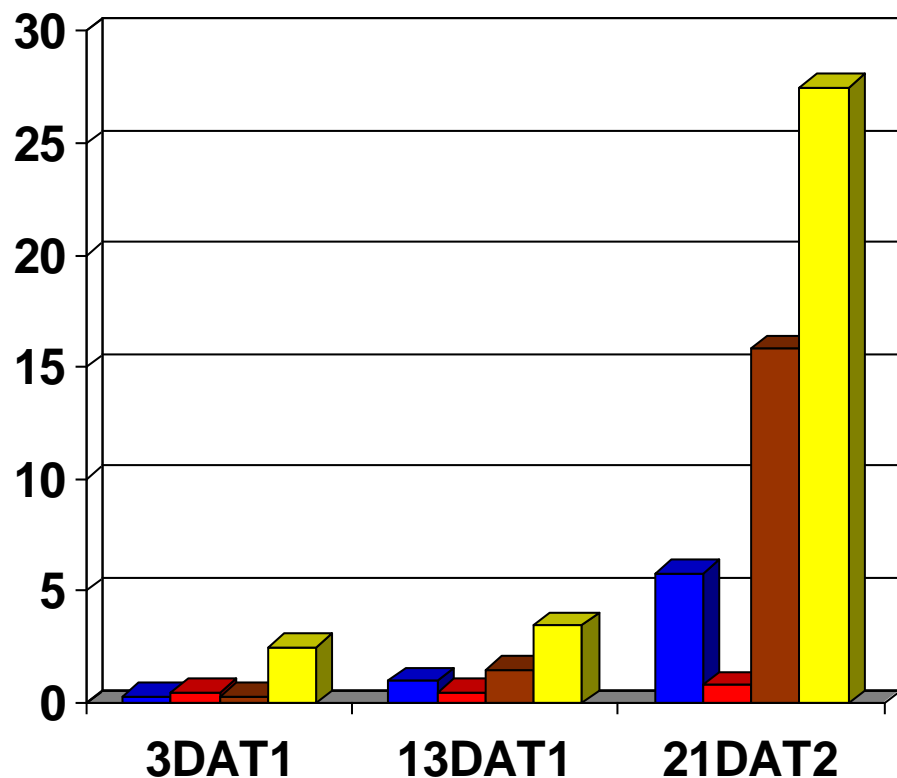
■ Untreated Check

DoubleTake Efficacy On Soybeans

Dr. Jeremy Greene – Blackville, SC 2013

Treatments delayed due to rain events and applied on 8/27(R5) & 9/9(R6)

Total Stink Bug Adults + Nymphs (Green + S. Green + Brown) / 20 sweeps



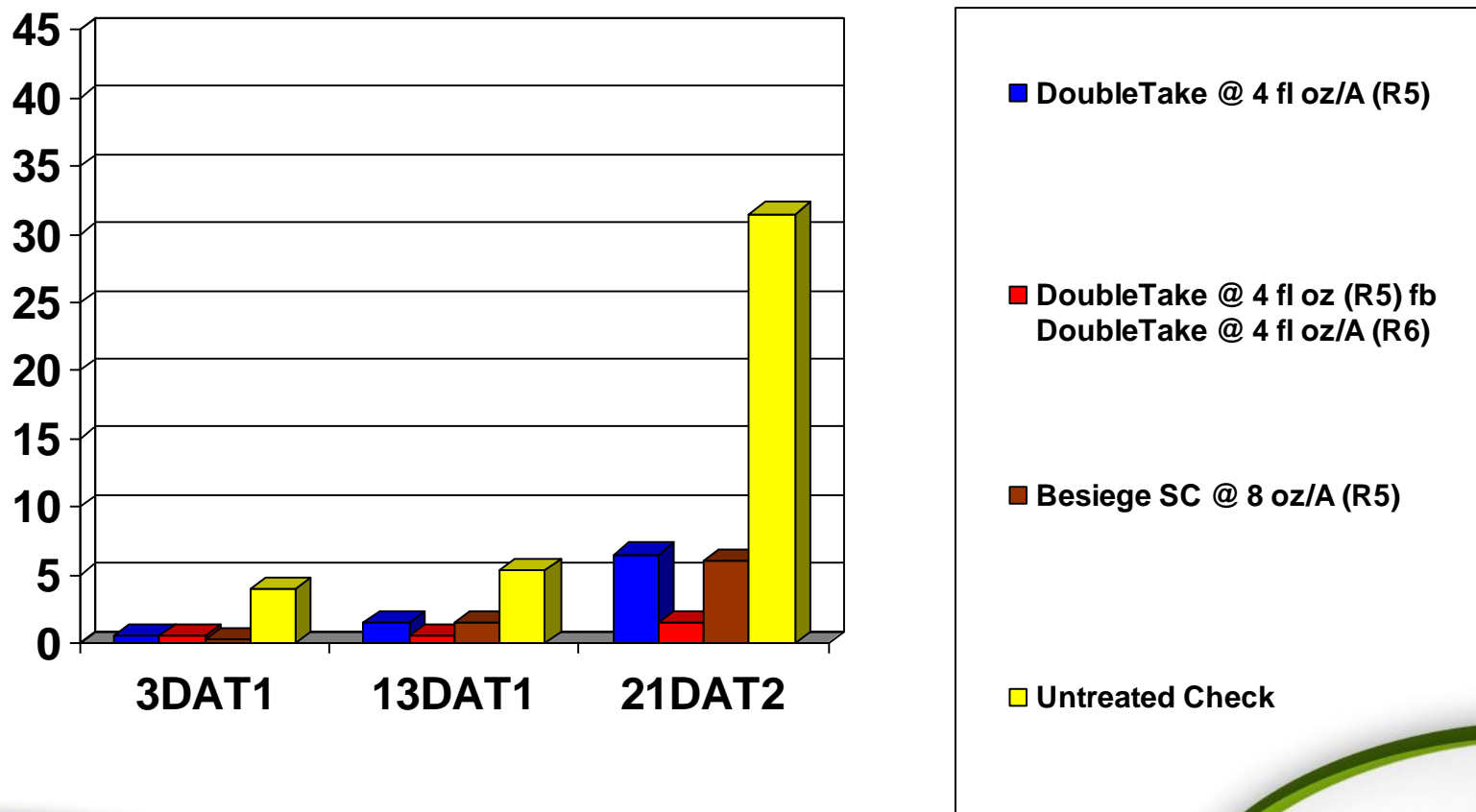
- DoubleTake @ 4 fl oz/A (R5)
- DoubleTake @ 4 fl oz (R5) fb DoubleTake @ 4 fl oz/A (R6)
- Besiege SC @ 8 oz/A (R5)
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DoubleTake Efficacy On Soybeans

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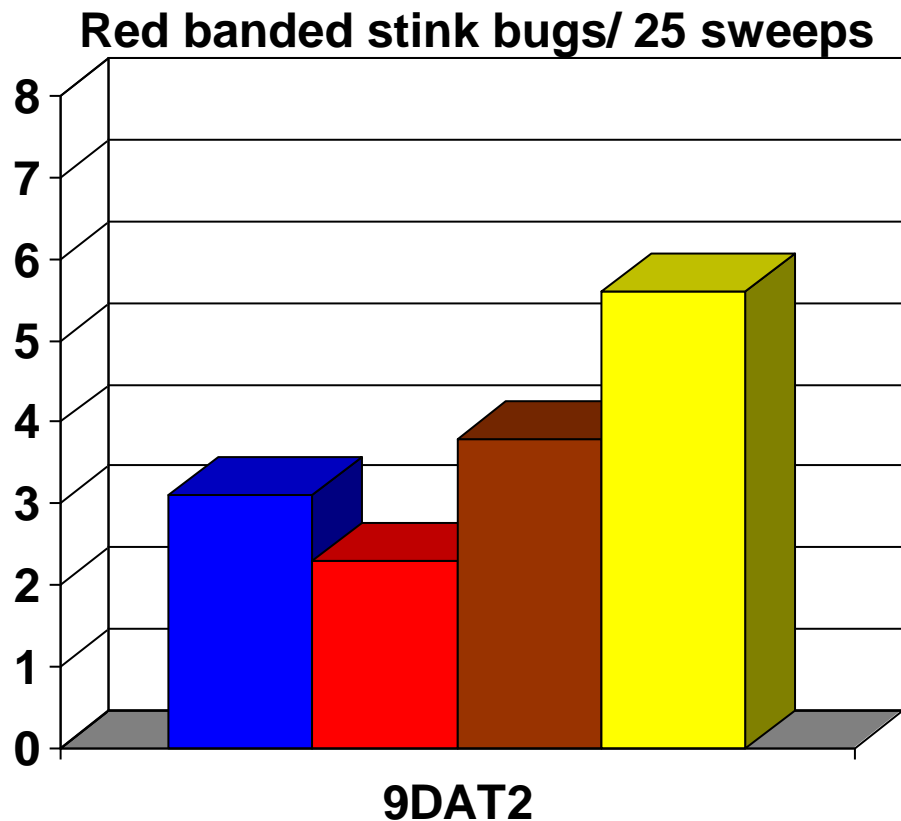
Three-cornered alfalfa hopper (adults + nymphs) / 20 sweeps



DoubleTake Efficacy On Soybeans

Dr. David Kerns – LSU- St. Joseph REC - 2013

Treatments applied on soybeans by ground



■ DoubleTake @ 4 fl oz/A (R3)

■ DoubleTake @ 4 fl oz (R3) fb
DoubleTake @ 4 fl oz/A (R5)

■ Brigade @ 6.4 oz (R3) fb Brigade @
6.4 oz/A (R5)

■ Non-treated Ck

Key Crop Markets

Cotton

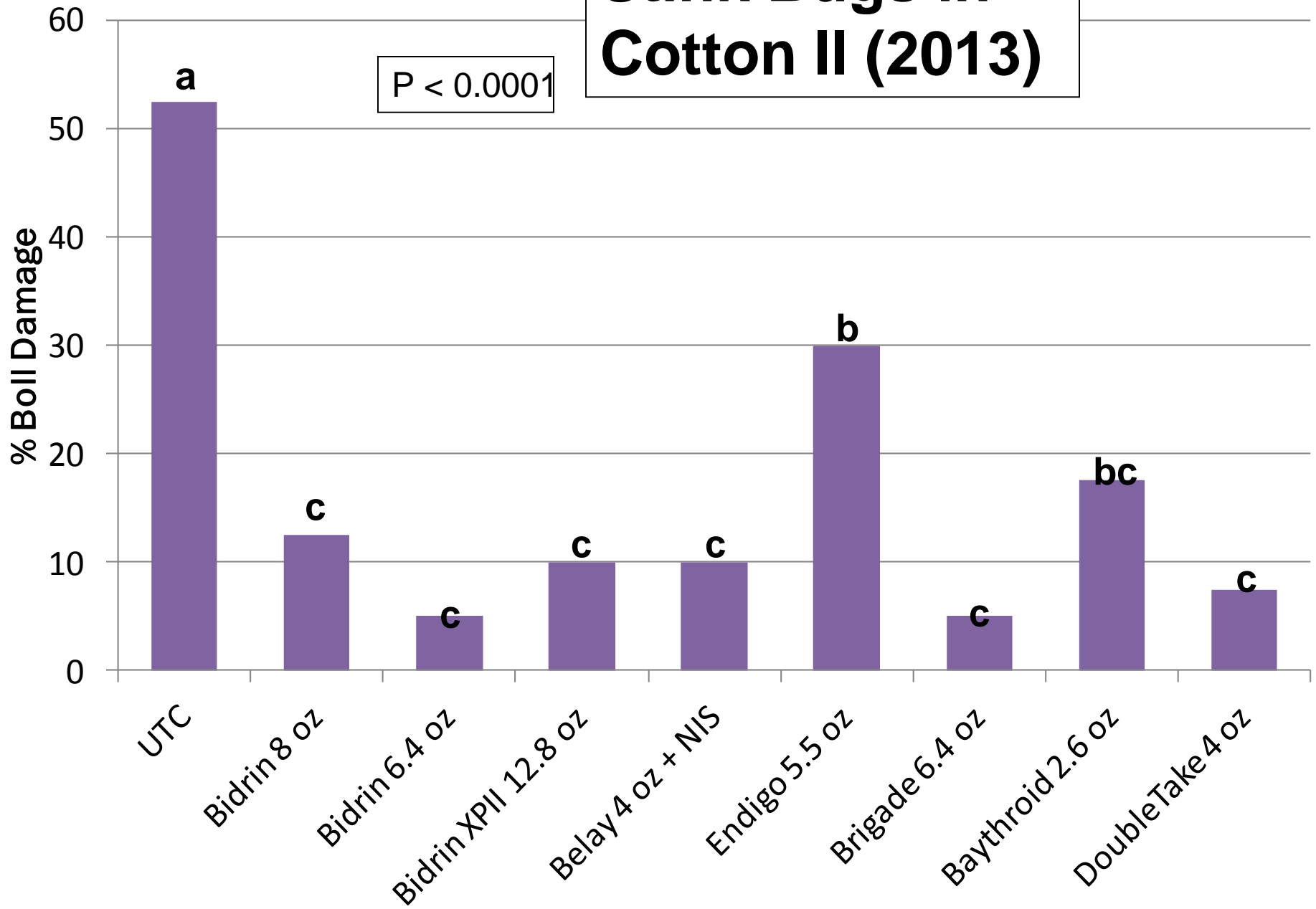


- **Key targets at treatment thresholds – 4 fl oz/A**
 - Stink bugs (all species)
 - Cotton bollworm
 - Armyworms (beet, fall, southern, yellow-striped)
 - Grasshoppers

Stink Bugs in Cotton II (2013)

■ % Boll Dam (23-Sept - 10 DAT2)

P < 0.0001



Two Pronged Activity Providing:

Broad Spectrum Residual Insect Control

DoubleTakeTM
INSECTICIDE

Comite[®] II

MITICIDE

CONFIDENTIAL

 **Chemtura**
AGROSOLUTIONS™

Comite II – Corn, Cotton, Peanuts, & Sorghum

Use Rate: 24 - 36 fl oz/A

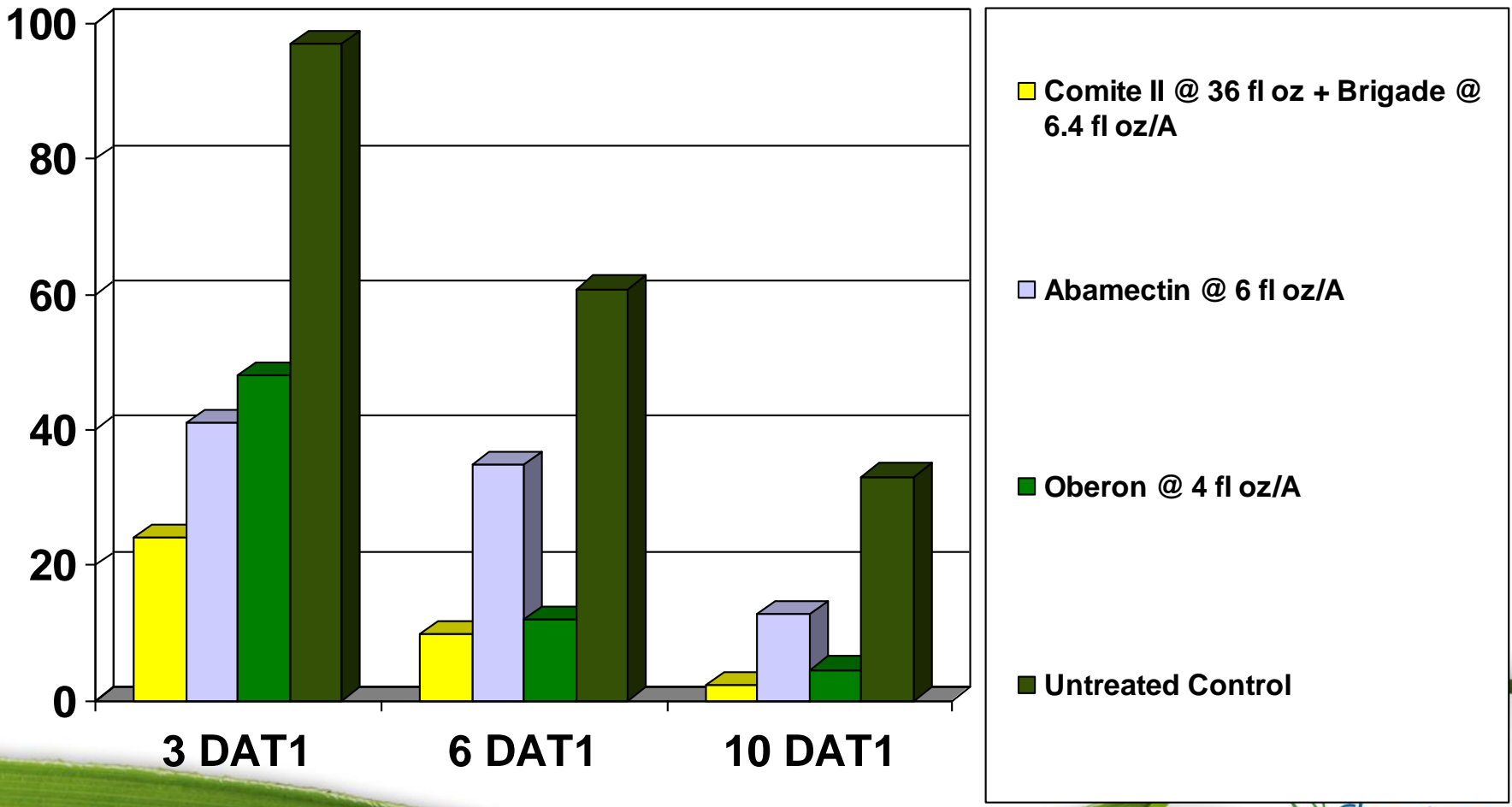
- **Target: Spider Mites**

Two spotted spider mite,
Banks grass mite, & other mites

Comite + Brigade Efficacy on TSSM in Cotton

Dr. Jeff Gore – Delta Research Center – Stoneville, MS – 2013

Mean Number of TSSM / Square Inch



THE VERSATILE PRODUCT

Dimilin[®] ***2L***

INSECT GROWTH REGULATOR

CONFIDENTIAL

The logo for Chemtura AgroSolutions, featuring a stylized green leaf icon to the left of the text "Chemtura" in blue and "AGROSOLUTIONS" in green below it.

Chemtura
AGROSOLUTIONS™

Dimilin Timing - R3 Growth Stage of Soybean

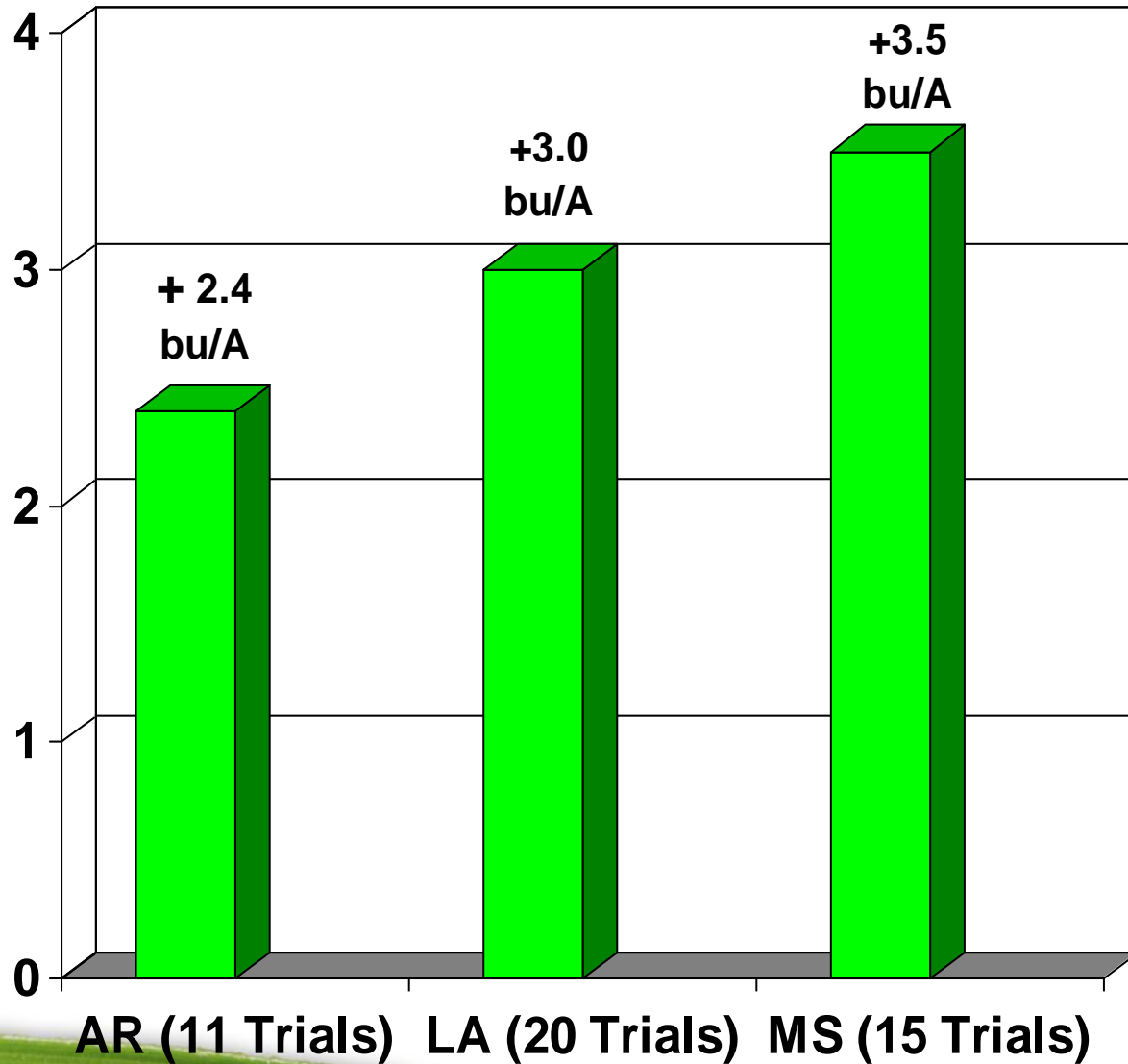
- R3 Stage Application
- Sets more pods
- Increases seed/pod
- Provides residual insect control



Dimilin Soybean Timing For Yield Enhancement

- R3 Growth Stage – early-pod fill.
- **R2 is too early and R4 is too late!**
- Apply in fungicide spray
- Very economical
- Use Rate: 2 – 4 fl oz/A

Dimilin Soybean Yield Demonstration Trials Mid-South Region – AR, LA, MS - 2013



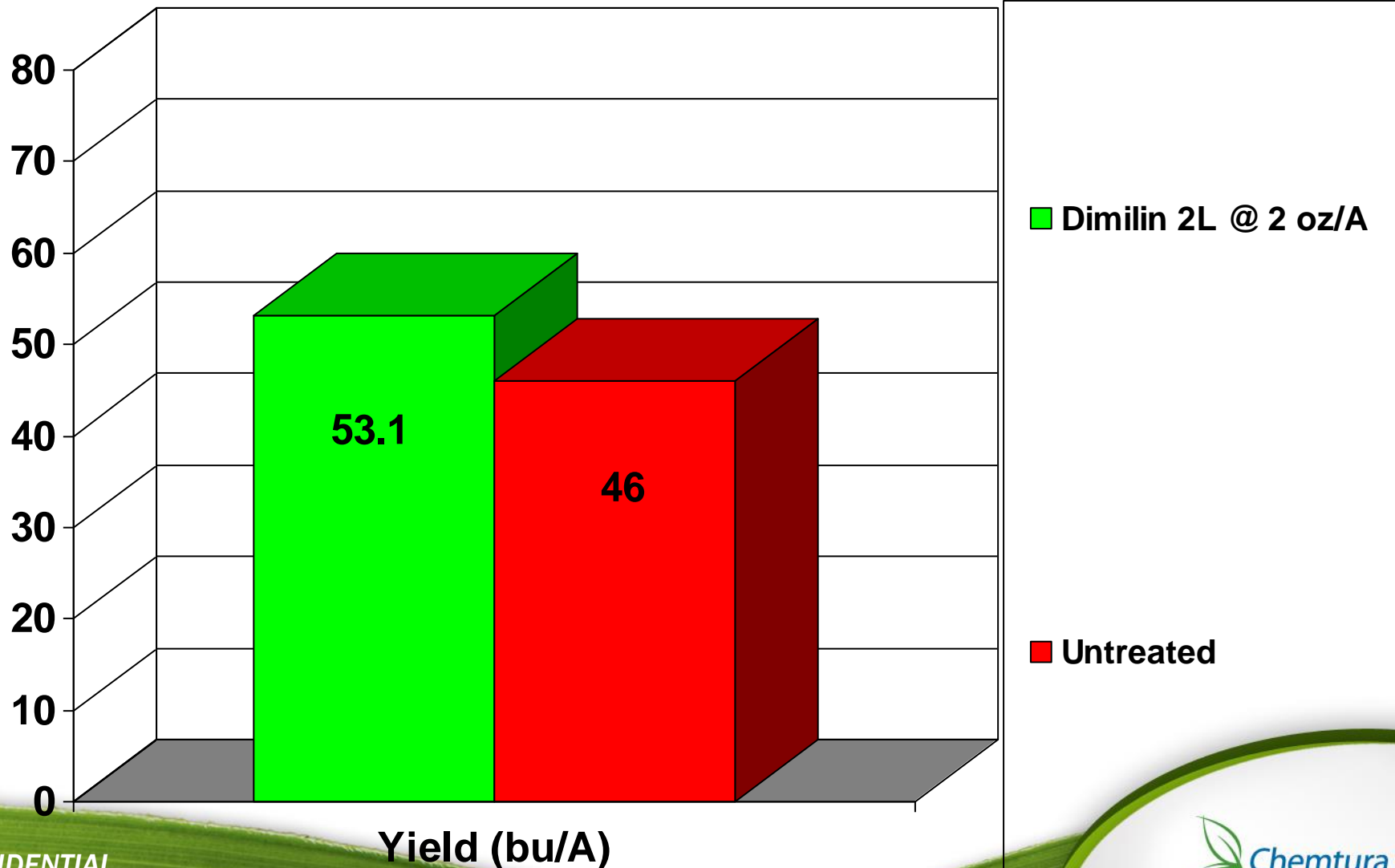
■ Dimilin @ 2 fl oz/A

■ Grower Check

Soybean Yield Demonstration Trials

J. K. Bordelon Farms, Moreauville, LA – 2013

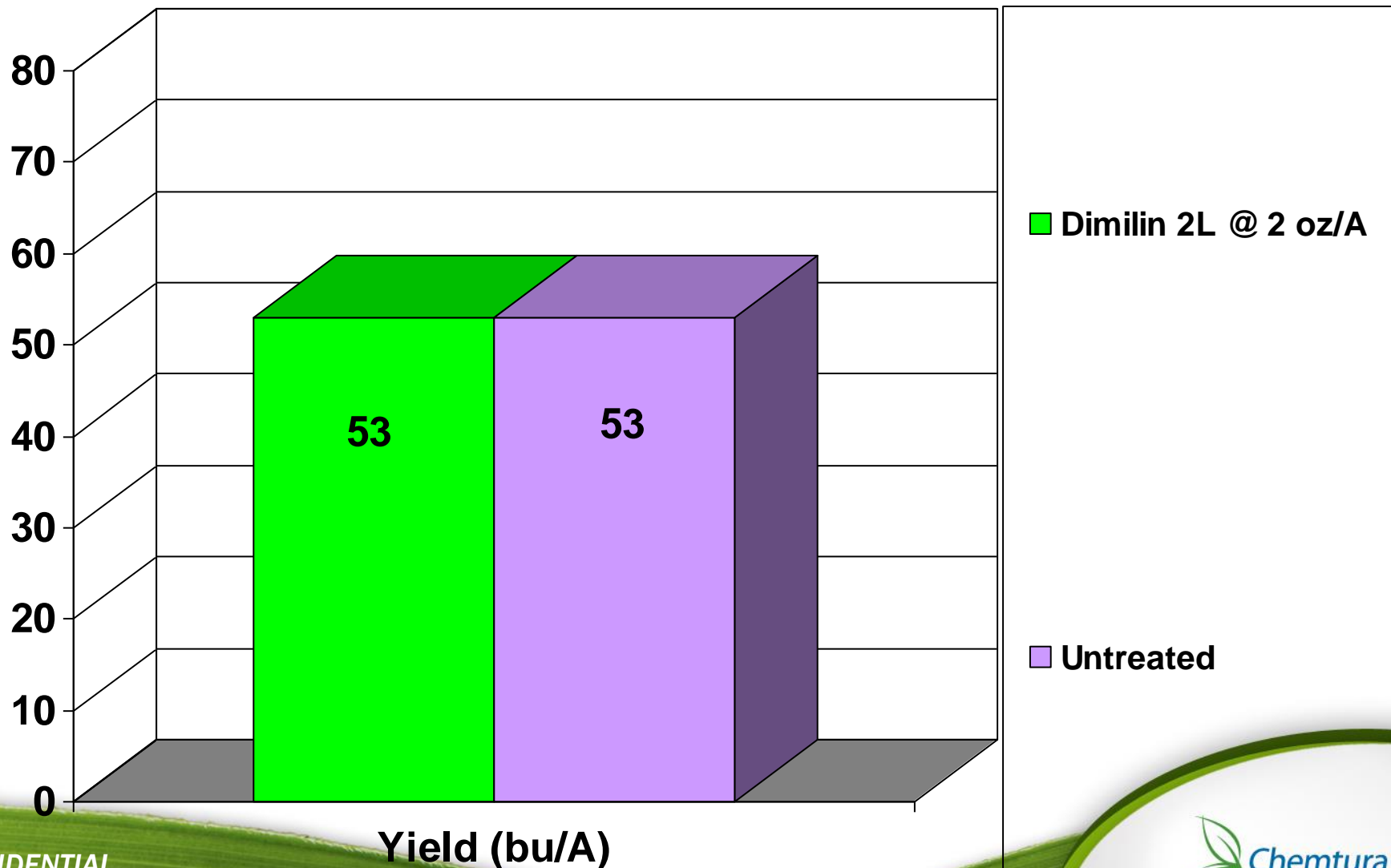
Soybeans sprayed at R3.6 stage



Soybean Yield Demonstration Trials

Hamburg Mills Farms, Hamburg, LA - 2013

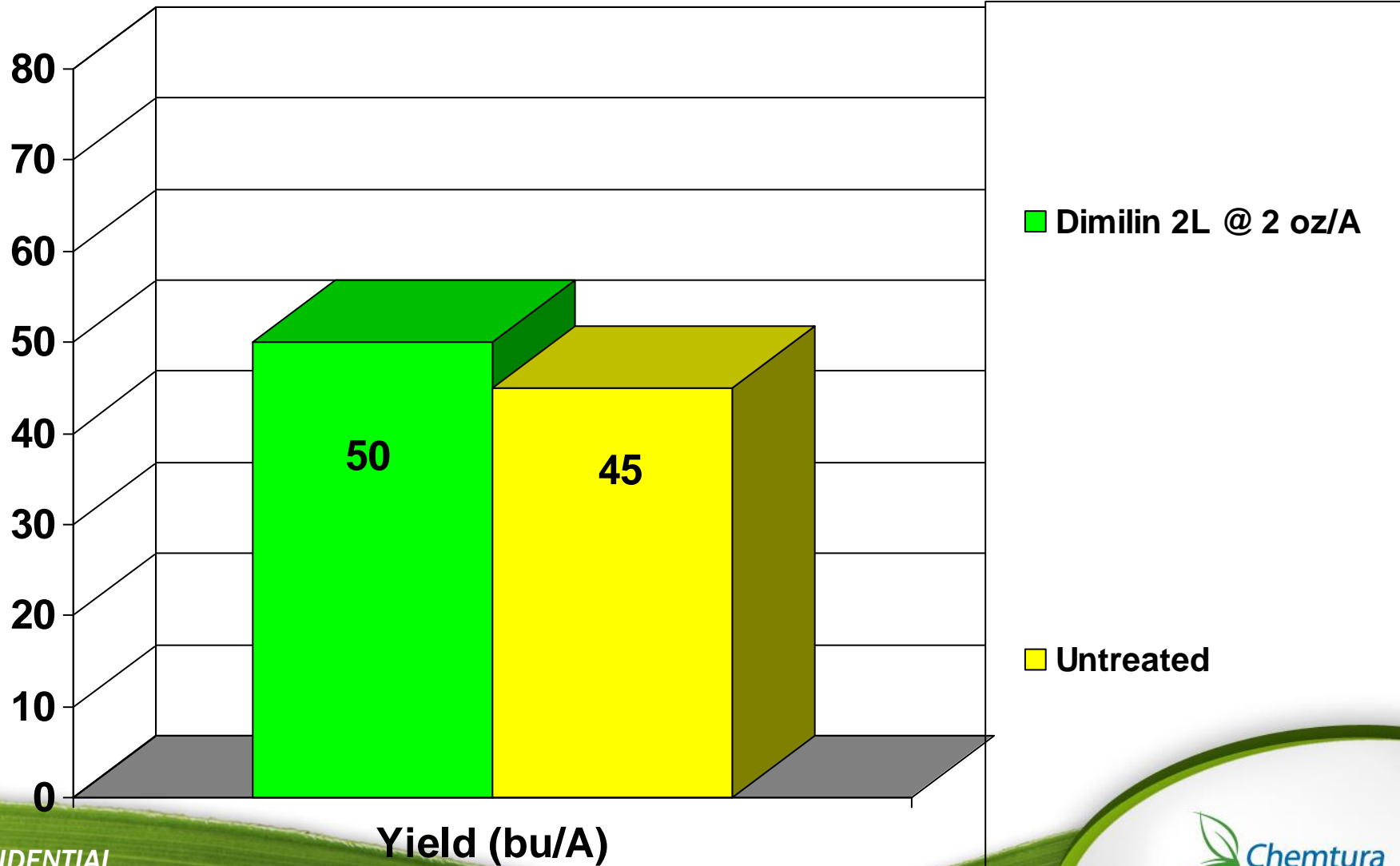
Maturity Group 4.6 soybeans sprayed at R4 stage



Soybean Yield Demonstration Trials

Eric McCoy Farms - Bunkie, LA - 2013

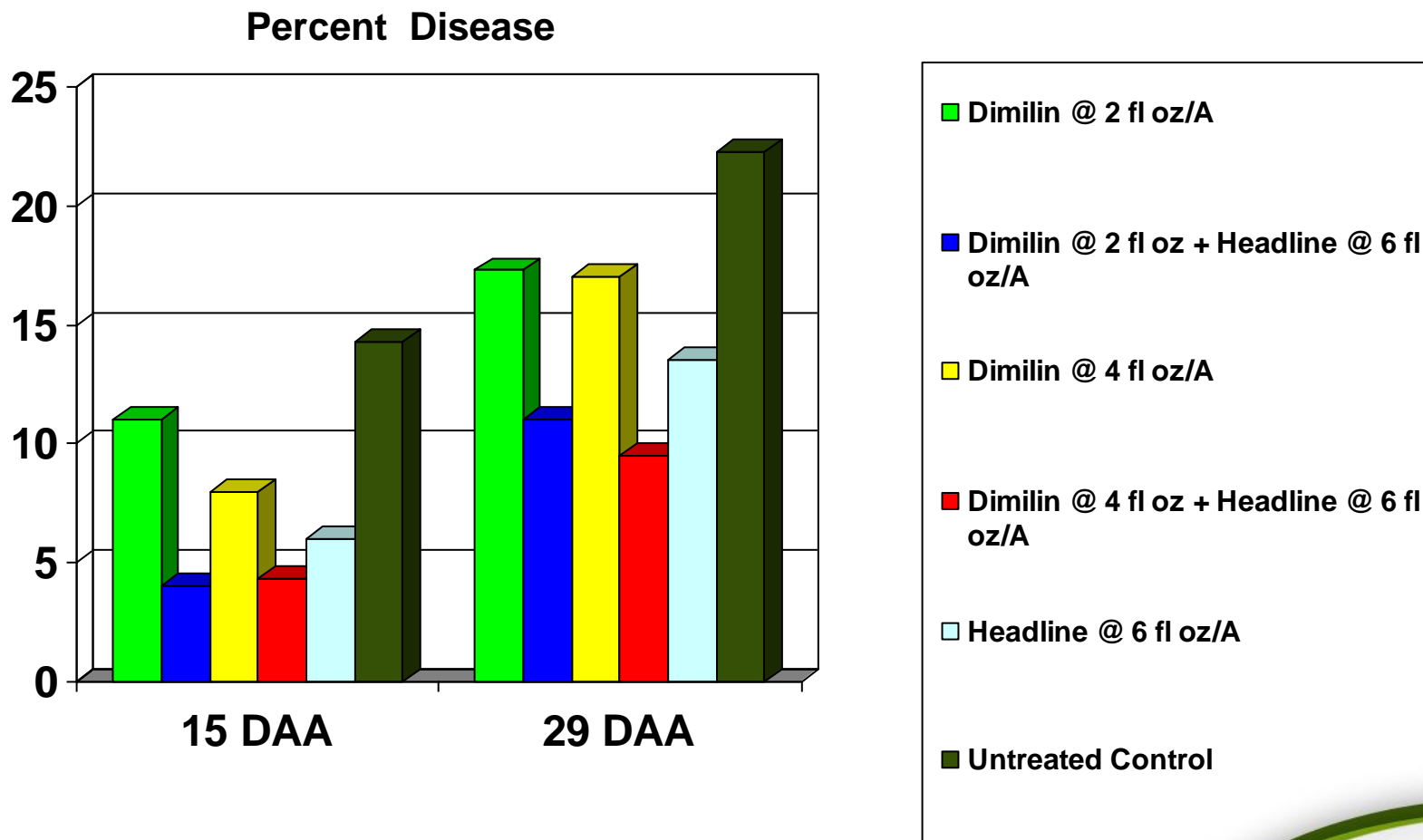
Maturity Group 4.2 soybeans sprayed at R3.8 stage



Dimilin 2L Efficacy On Frog-eye Leafspot on Soybeans

Tim Adcock – Diligence Technologies - TN 2013

Treatments applied to Asgrow 4832 soybeans on 8/1/13 (R3) in 20 GPA





Rimon[®]
I N S E C T I C I D E

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Rimon 0.83EC For Sweet Potatoes

- Use Rate = 6 – 12 fl oz/A
- MOA Group 15
- Controls: Armyworms; potato tuberworm; loopers, whiteflies, European corn borer; sweet potato leafminer; other foliage feeding caterpillars
- Apply at egg hatch to 2nd instar stages for best results.
- PHI = 14 days

THANK YOU FOR YOUR SUPPORT !!!

- **Jeremy Wood – Account Manager**
225 - 954 - 1116

- **Keith Griffith – Technical Sales Service**
407 – 256 - 9296