FMC 2007 Product Update

The Journey Forward

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Agricultural Products Group

COMMAND® 3ME HERBICIDE

Furadan.4f insecticide/nematicide

AiM® EC HERBICIDE

MUSTANG MAX®

SPARTAN® HERBICIDE

Brigade® 2EC Insecticide/Miticide

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New Burndown Herbicide

New Rage herbicide provides the fastest control of the broadest spectrum of weeds for burndown in row middles

- **Tree and vine crops**
- **Active ingredient: glyphosate + carfentrazone**
- **Rage has both systemic and contact activity**
- **Rage has less crop and application restrictions compared to glyphosate and 2,4-D premixes**
- **The two modes of action in Rage make it an ideal resistance management tool**
- **EPA label pending**

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Rage 3.7 EW   Roundup Weathermax

7 – 14 days after treatment

New Burndown Herbicide

Rage D-Tech herbicide provides complete, consistent burndown in soybean and corn fields

- Active ingredient: 2,4-D + carfentrazone
- Provides excellent control of tough weeds using the power of two active ingredients
- More consistent control on a broader spectrum of weeds compared to 2,4-D
- Faster activity and more complete control than 2,4-D alone
- Best burndown product available for marestail control
- EPA label pending

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New Herbicide

- **Active ingredient: sulfentrazone + cloransulam-methyl**
- **Preemergence herbicide for soybeans**
- **Base for glyphosate problem weeds - lambsquarters, waterhemp, marestail, ragweeds**
- **3.2 oz/acre use rate with RR programs**
- **70DF formulation**

New Fungicide

New Ranman fungicide, with its unique mode of action, provides highly effective prevention of key diseases in potato, tomato and cucurbit crops

- **Active ingredient: Cyazofamid**
- **FRAC class group 21 fungicide, unique (alone) class**
- **Potatoes, tomatoes, cucurbits**
- **Late blight – potatoes, tomatoes**
- **Downy mildew – cucurbits**
- **Pink Rot - potato**

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New Tradename

Brigade® 2EC
Insecticide/Miticide

- **Active ingredient: bifenthrin**
- **Lower cost for foliar insect control markets**
- **EPA label pending for other crops**

  - **Peas/Beans (dried, shelled) crop subgroup**
  - **Tuberous and Corm Veg. subgroup (potato)**
  - **Leafy Brassicas**
  - **Tobacco**
  - **Okra**
  - **Fruiting Veg. crop group**
  - **Soybean 2008**
  - **Peanuts 2008**
 - **Root vegetables 2008**

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- **1.24 lb EC**
- **Zeta-cypermethrin: bifenthrin (1:3 Ratio)**
- **Signal Word – CAUTION**
- **REI 12 hours**
- **Application rates: 0.025 – 0.10 lb ai/A (2.6 – 10.3 oz)**
- **Contains those crops currently registered and common to both active ingredients**
  - **New crops added as tolerances obtained**
- **Contains most restrictive PHI, re-treatment interval, etc., between each AI**

Bifenthrin

Residual, Pest Spectrum
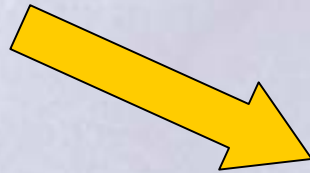
Zetacypermethrin

Quick knockdown, Pest Spectrum
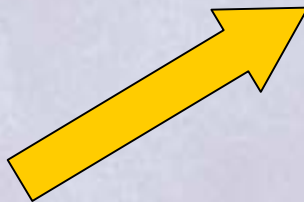
HERO INSECTICIDE

*Residual, Knockdown,* **Greater Pest Spectrum, Caution Label**

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New Insecticide

Unique mode of action, provides long-lasting control of aphids for higher quality fruit and vegetable crops

- **Active ingredient – flonicamid**
- **Aphid control**
- **Beleaf has no known cross resistance with other insecticides**
- **Anti-feeding effect that protects plants – you begin to see them stop feeding in 30 minutes**
- **Irreversible feeding cessation leads to higher quality crop yields**
- **A key component of Resistance Management programs**
- **Easy on beneficials**
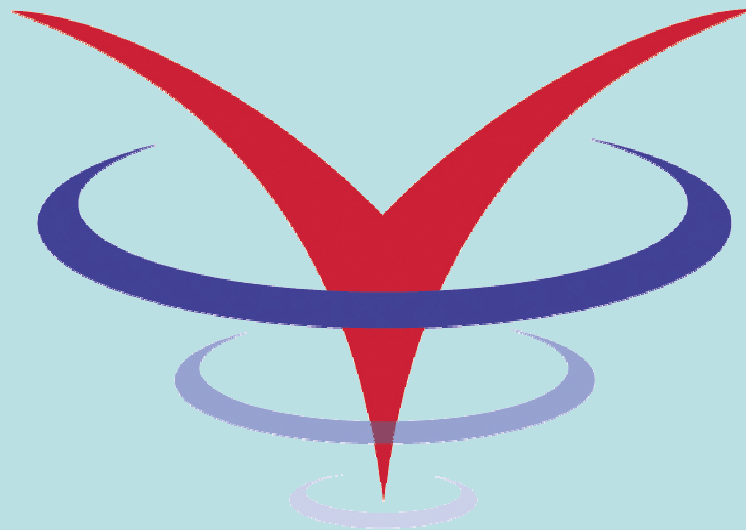
A New Way to Maximize Cotton Yield

- **Carbine 50WG – 50% water dispersible granular formulation**
- **Packaging Units: 4 X 3.5 lbs**

- **Recommended Use Rates:**
  - **Aphids**   **0.044 – 0.088 lb ai/A (1.4 – 2.8 oz/A)**
  - **Tarnished Plant Bug**   **0.053 – 0.088 lb ai/A (1.7 – 2.8 oz/A)**
       Western Plant Bug
       Cotton Fleahopper
- **30 day PHI**
- **12 hour REI**
- **Do not apply more than 0.088 lb ai/A (2.8 oz/A) per application**
- **Do not apply more than 3 applications per season**
- **Do not exceed 0.267 lb ai/A (8.4 oz/A) per season**

Exceptional Insecticidal Attributes

Effective

Selective

- **Aphids & *Lygus* spp.**

Short PHI

- **Cotton – 30 day**

Short Re-entry Interval

- **12 hour REI**

Unique Mode of Action

- **Blockade of the A-Type potassium channel at the presynaptic terminal**

- **Manage Insecticide Resistance**

- **Results in rapid feeding cessation (within one hour), mortality within**

- **2-5 days**

Excellent Formulations

- **50 WG**

Low Ecological Impact

Minimal Impact Beneficials

- Excellent IPM tool
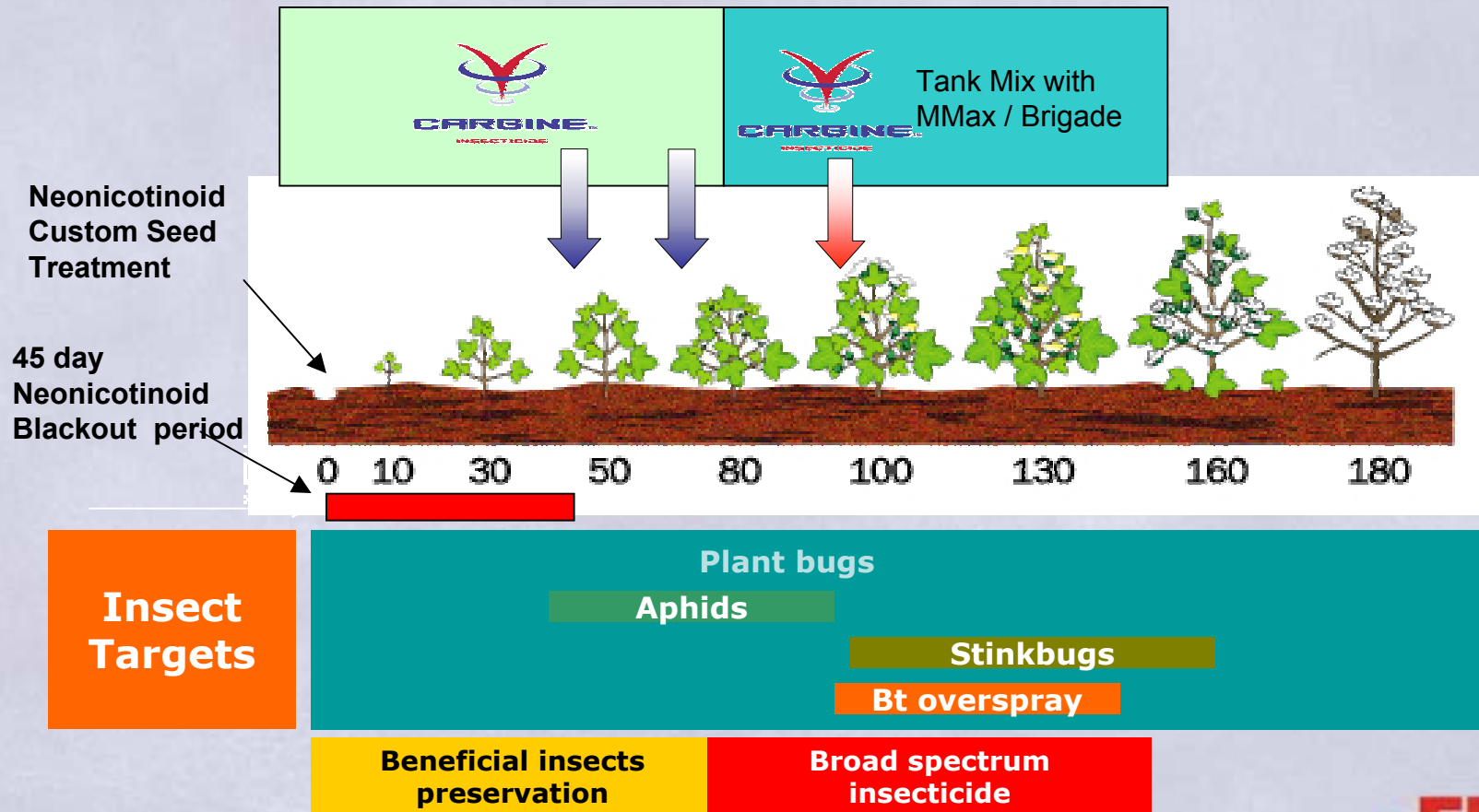
Practically Non-Toxic

- Birds

- Fish

- Humans

Thank You!

Lester Scott & Henry Stefanski
RMMs