



Science For A Better Life

Sustainable crop solutions for better efficacy, resistance management and lower residues

ABIM Lucerne, Oct 23, 2012

Manuele Ricci, Thierry Merckling, Rob Cannings, Denise Manker, Dennis Warkentin, Xavier Van Waetermeulen

Integration between Chemical and Biological Products is a good strategy



1. Managing MRLs
2. Increasing productivity of programs
3. Flexibility in use
4. Resistance management
5. Product & program life cycle extensions
6. Reduces chemical load

Western Flower Thrip: *Frankliniella occidentalis*, a tough pest



Western Flower Thrip: *Frankliniella occidentalis*, a tough pest



Spinosyn class: effective but strong resistance issue

Florida

Dow AgroSciences suspends spinosyn insecticide use in Florida counties

08/13/2008 12:00:00 AM

Share This
 resize text
 PRINT THIS

Dow AgroSciences, Indianapolis, has announced that it is voluntarily suspending the sale and use of multiple spinosyn insecticides in Broward County and a portion of Palm Beach County. This comes in response to evidence that western flower thrips have developed resistance to a product with the active ingredient spinosad.

Spirotetramat	Movento®	Recommended for suppression or in a rotation with other insecticides when multiple applications are required in the same season
Extract Chenopodium ambrosioides near ambrosioides	Requiem®	

Alternative toll that can combine effectiveness, safety to natural enemies

References

http://www.thegrower.com/news/regions/florida/dow_agrosciences_suspends_spinosyn_insecticide_use_in_florida_counties_17888749.html

Managing Thrips and Tospoviruses in Tomato1; Joe Funderburk, Stuart Reitz, Steve Olson, Phil Stansly, Hugh Smith, Gene McAvoy, Ozan; Demirozer, Crystal Snodgrass, Mathews Paret, and Norm Leppla2. ENY-859 (IN895), one of a series of the Entomology and Nematology Department, Florida Cooperative Extension Service, Institute of Food and Agricultural Sciences, University of Florida. August 2011.



REQUIEM – Benefits

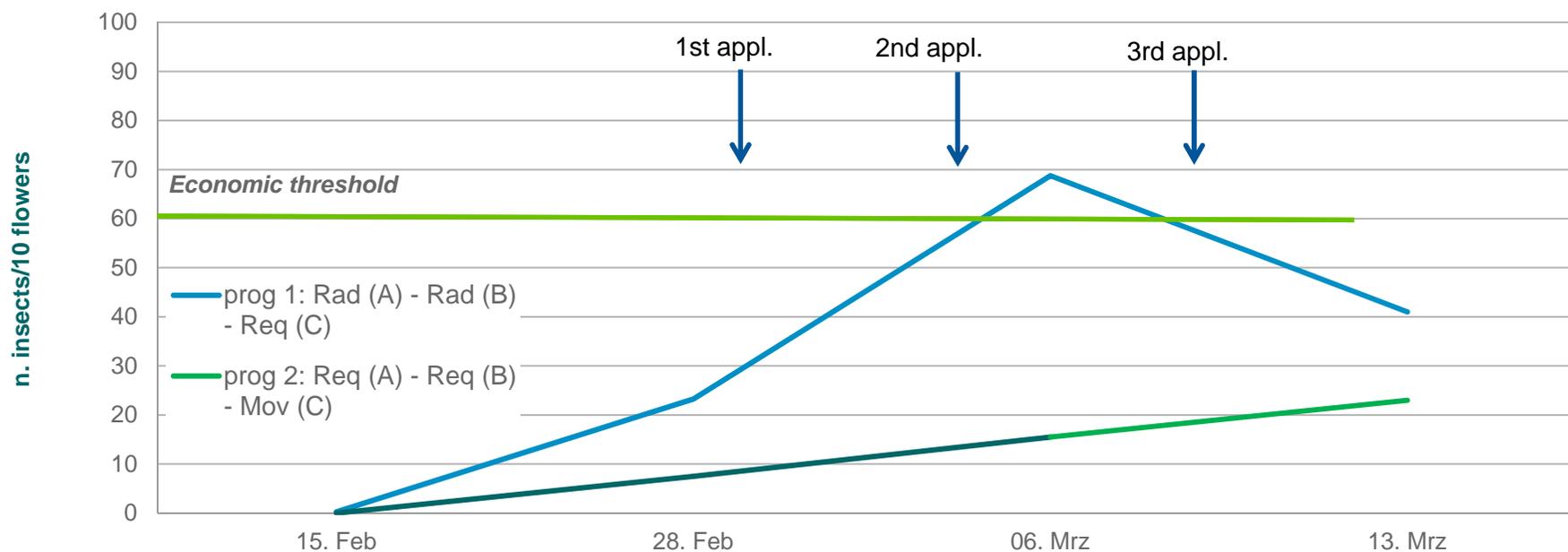
High efficacy, consistency and flexibility

- Flexible use rates and application timing
- Multiple modes of action help growers manage resistance
- Minimal impact on beneficial insects for IPM programmes
- An excellent choice for best practice programmes, Requiem is safe to workers, the environment, and neighbours
- 0-day Pre-Harvest Interval (PHI) and 4-hour Restricted Entry Interval (REI)
- Exempt from tolerances (MRLs) – Can export globally.

University of Florida, Spring 2012 Pepper insecticide field day



Controls Western Flower Thrips on Peppers Adults



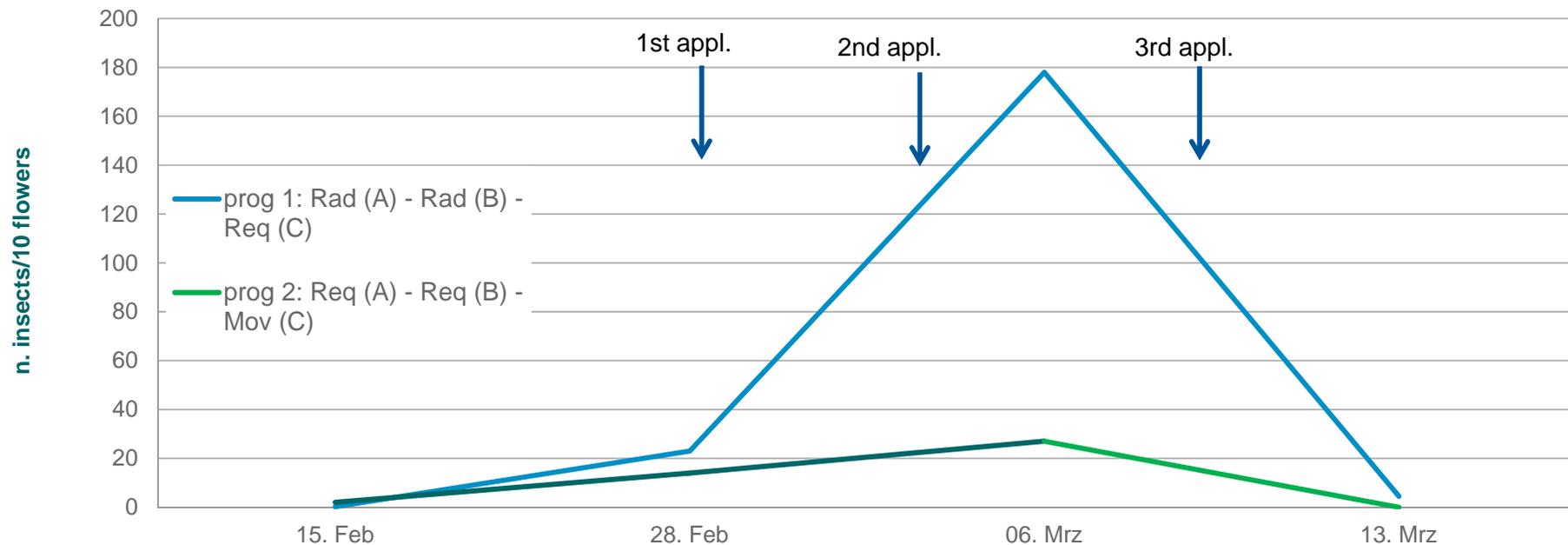
Demo, D. Sui, C. Amestoy, F. Pero, and J. Funderburk, Pero Family Farms, FL – 2012. Peppers planted on 12/29/2011. Materials were applied using hollow cone spray tips delivering 100 GPA at 250 psi. Applications were made on the following dates: A = 3/1, B = 3/5 and C = 3/9 (trial 1103184)



University of Florida, Spring 2012 Pepper insecticide field day



Controls Western Flower Thrips on Peppers Neanids



Demo, D. Sui, C. Amestoy, F. Pero, and J. Funderburk, Pero Family Farms, FL – 2012. Peppers planted on 12/29/2011. Materials were applied using hollow cone spray tips delivering 100 GPA at 250 psi. Applications were made on the following dates: A = 3/1, B = 3/5 and C = 3/9 (trial 1103184)





Conclusions

University of FL Spring 2012 pepper insecticide field day showed:

- REQUIEM Insecticide programs could control both adult and larval Western Flower Thrips
- Best performance was from programs of REQUIEM followed by REQUIEM followed by Movento

IPM program: Combining conventional and biological products, it is possible to meet the needs of the grower and the market

- efficacy
- resistance management
- safety
- residues
- reduction of total chemical load



Thank
you

