



Founded in 1990 to develop/market
EcoFriendly Pest Control products

Vestergaard

Founded in 1957 manufacturing work uniforms.
In 1999 produced one of 1st insecticide bed nets.

Long-lasting insecticide nets



Product name	Product type	Status of WHO recommendation
DawaPlus 2.0	Deltamethrin coated on polyester	Interim
Duranet	Alpha-cypermethrin incorporated into polyethylene	Full
Interceptor	Alpha-cypermethrin coated on polyester	Full
LifeNet	Deltamethrin incorporated into polypropylene	Interim
MAGNet	Alpha-cypermethrin incorporated into polyethylene	Full
MiraNet	Alpha-cypermethrin incorporated into polyethylene	Interim
Olyset Net	Permethrin incorporated into polyethylene	Full
Olyset Plus	Permethrin and PBO incorporated into polyethylene	Interim
Panda Net 2.0	Deltamethrin incorporated into polyethylene	Interim
PermaNet 2.0	Deltamethrin coated on polyester	Full
PermaNet 3.0	Combination of deltamethrin coated on polyester with strengthened border (side panels), and deltamethrin and PBO incorporated into polyethylene (roof)	Interim
Royal Sentry	Alpha-cypermethrin incorporated into polyethylene	Full
SafeNet	Alpha-cypermethrin coated on polyester	Full
Yahe	Deltamethrin coated on polyester	Interim
Yorkool	Deltamethrin coated on polyester	Full

Deltamethrin-incorporated netting



- **D-Terrence[®] = Zerofly[®]** (mesh size = 32 holes/cm²)
Deltamethrin 0.4% w/w incorporated Polyethylene Screen)
- low mammalian toxicity (need to wear gloves though when handling)
- Available for research through: Dr. Jan Meneley <agbio@agbio-inc.com>, AgBio, Inc., 303-469-9221; www.agbio-inc.com



Stable Fly Control



Deltamethrin-Incorporated Nets as an Integrated Pest Management Tool for the Invasive *Halyomorpha halys* (Hemiptera: Pentatomidae)

Journal of Economic Entomology, 110(2), 2017, 543–545

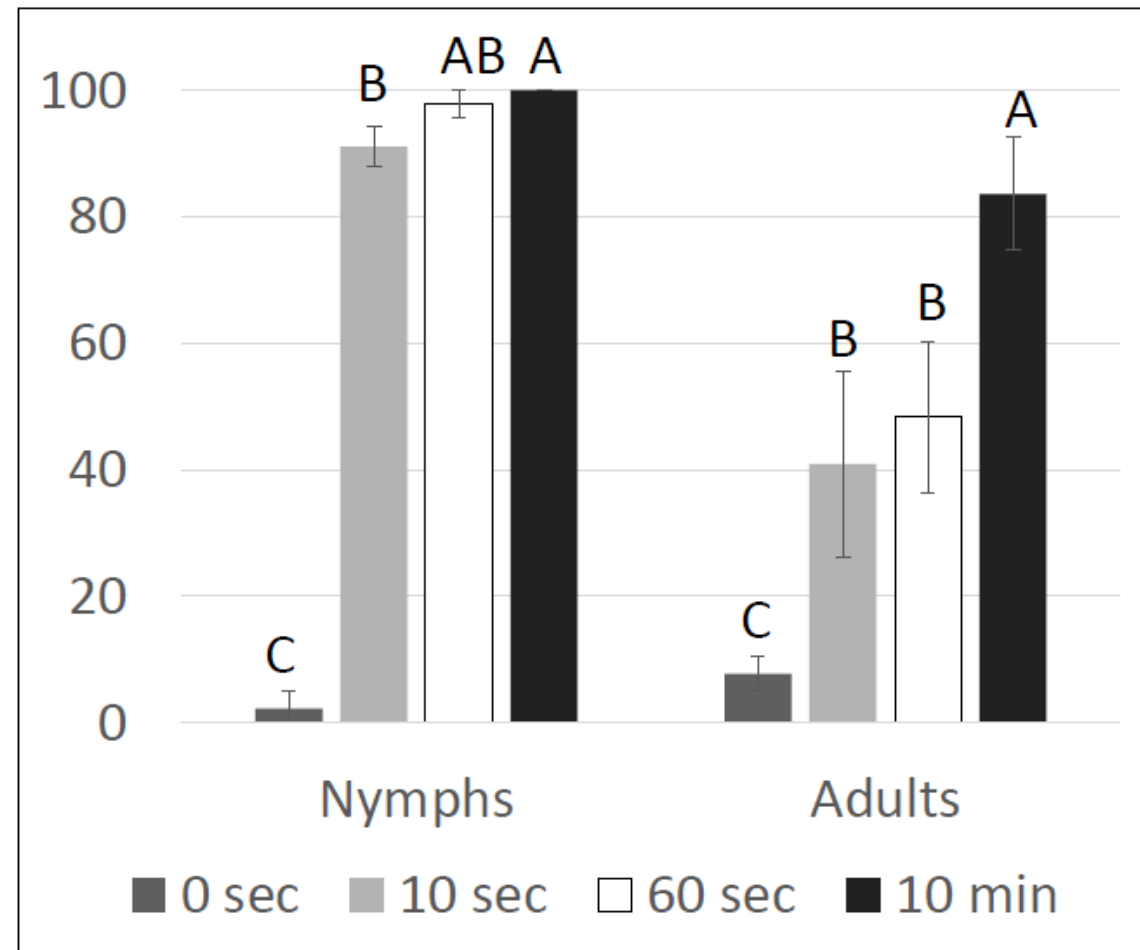
doi: 10.1093/jee/tow321

Advance Access Publication Date: 6 March 2017

Research article

T. P. Kuhar,^{1,2} B. D. Short,³ G. Krawczyk,⁴ and T. C. Leskey³

% mortality of BMSB after brief exposure to
D-Terrence[®]



Can the screens replace the dichlorvos NoPest™ kill strip in trap tops? (Leskey and Short – USDA-ARS)



Percentage (Mean \pm SEM) of *H. halys* adults escaping after being placed in commercial Dead-Inn stink bug trap jars

Treatment	% BMSB escaped ¹
dichlorvos kill strip	16.7 \pm 7.8 a
lambda-cyhalothrin-dipped net	0.0 \pm 0.0 b
deltamethrin-incorporated net	0.0 \pm 0.0 b
Control	29.2 \pm 9.5 a

Insecticide nets as row covers



D-Terrence[®] nets to control BMSB in Peppers

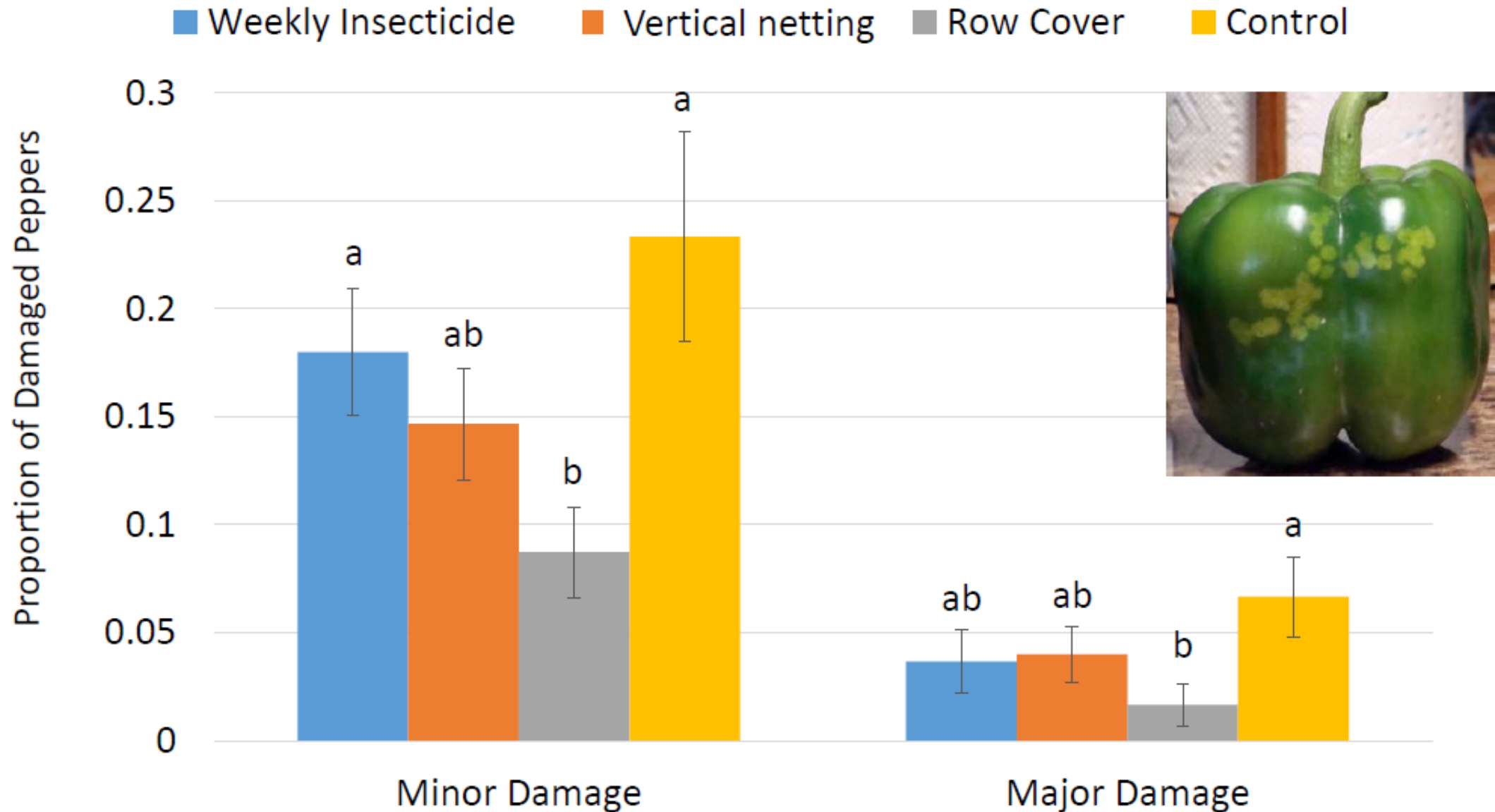
- Conducted on 3 farms
- Latin Square Design

Treatments:

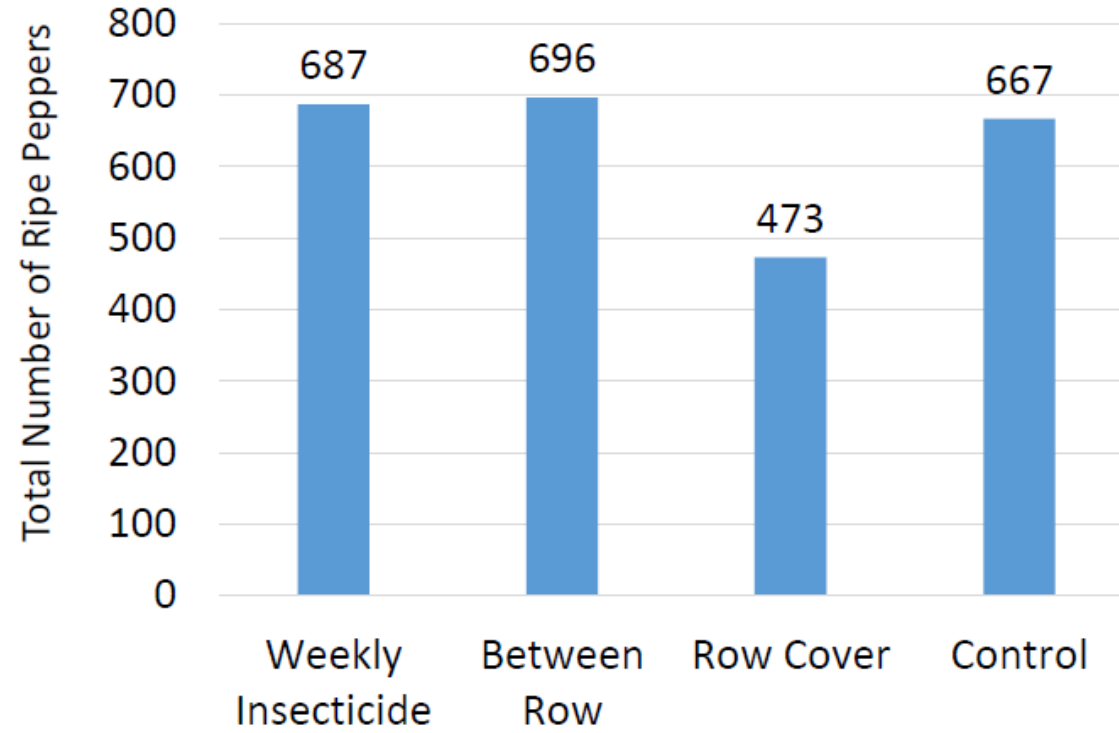
1. Untreated control
2. Weekly bifenthrin spray
3. **D-Terrence[®]** row cover
4. **D-Terrence[®]** between staggered pepper plants (far right)



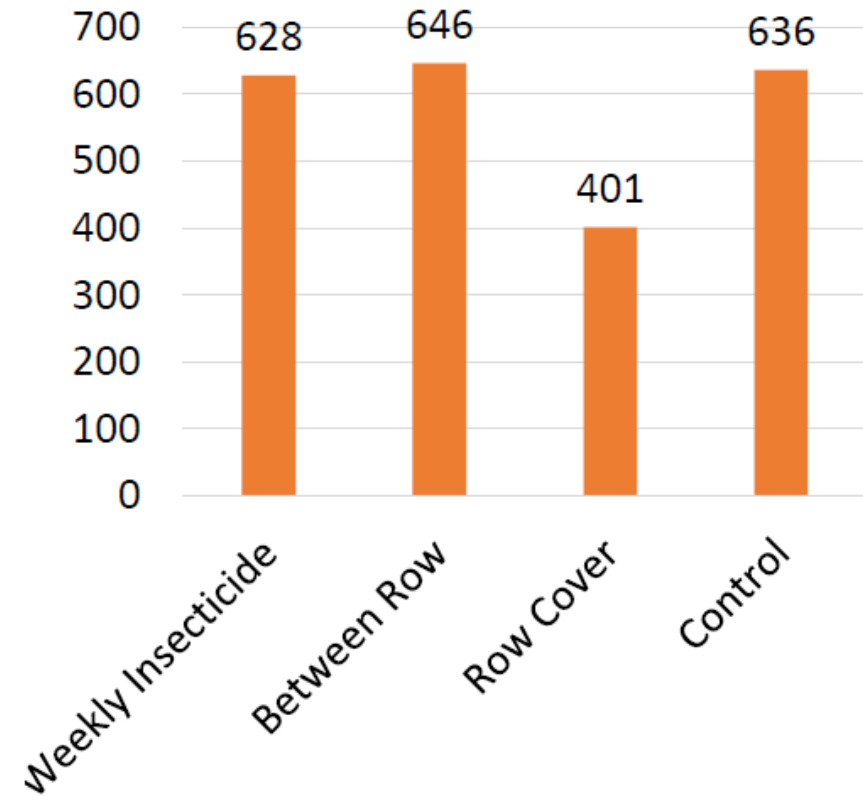
Whitethorne, VA – Dining Services Farm



Whitethorne, VA – Dining Services Farm Cumulative Yield



Glenvar, VA Cumulative Yield



How long do the nets remain effective?

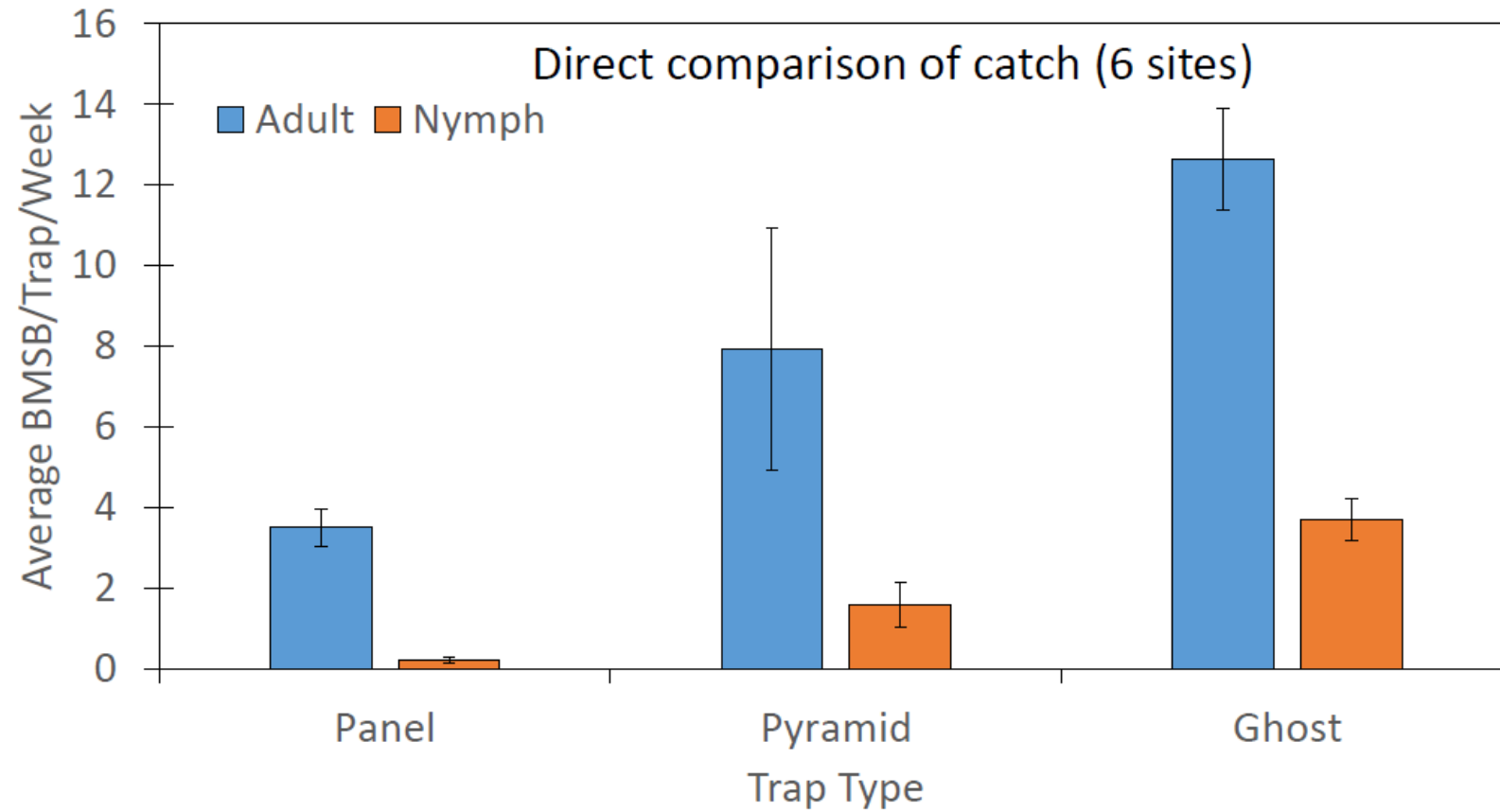


- In VA, the netting was used in the field for experiments and stored in an outdoor shed during the winter, then re-used again for the next 2 yrs
- Each yr, the aged screens were cut into strips and placed in Petri dishes along with BMSB adults for 24 hr
- Fresh (new) screen killed 100% of BMSB adults in 24 hr, and 3-yr old field-aged screen killed 80%

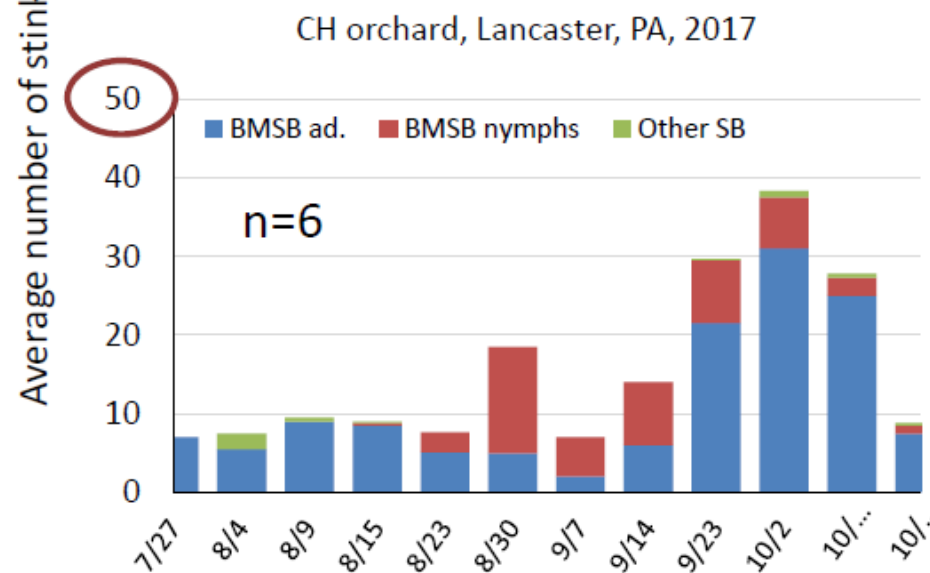
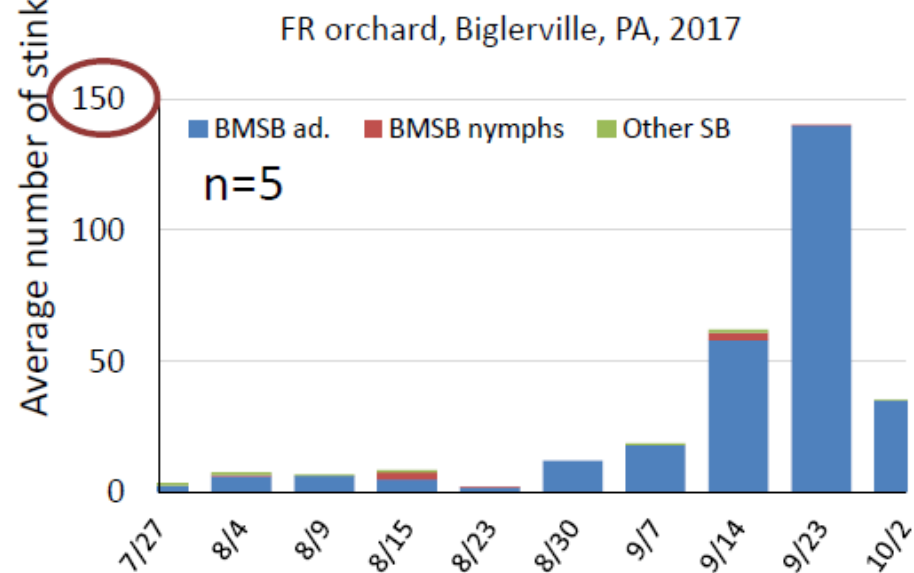
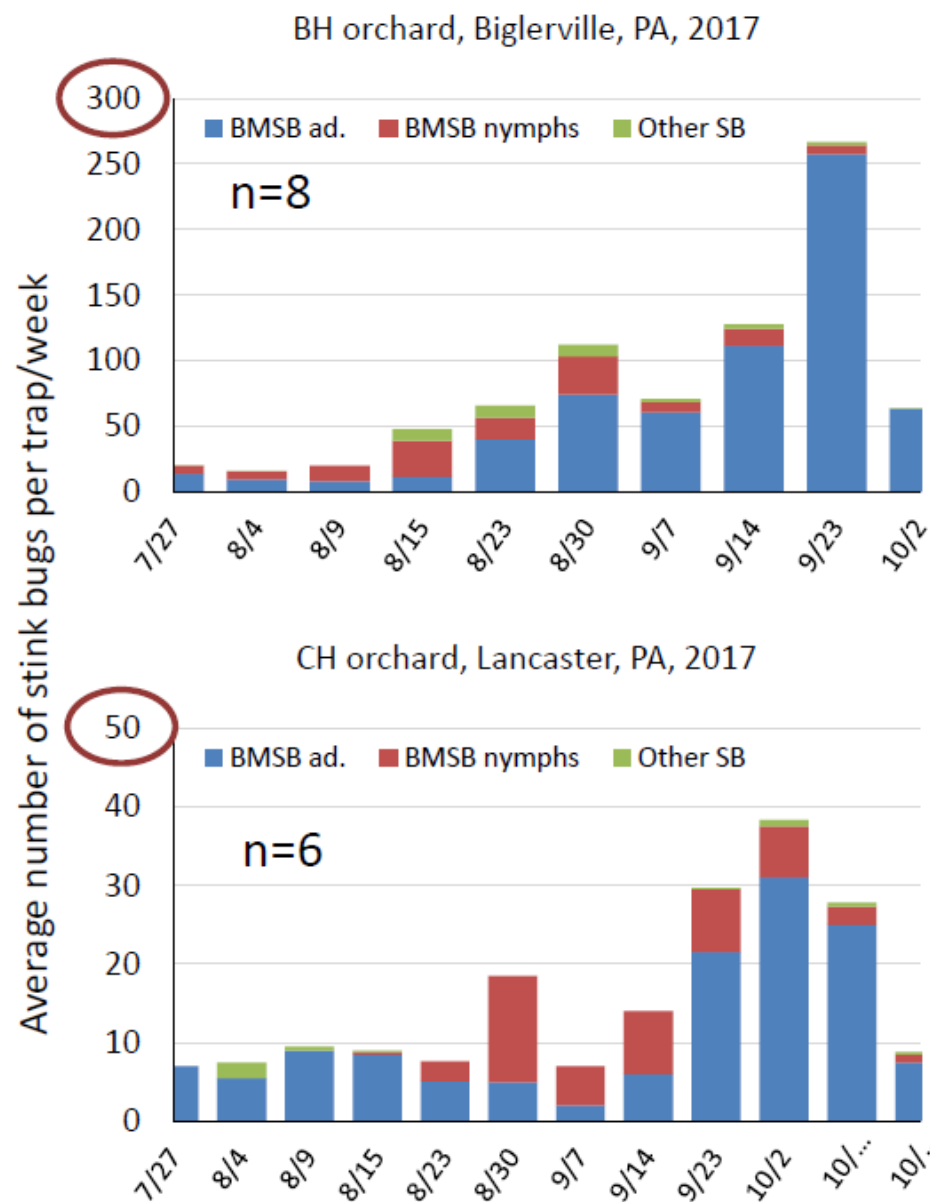
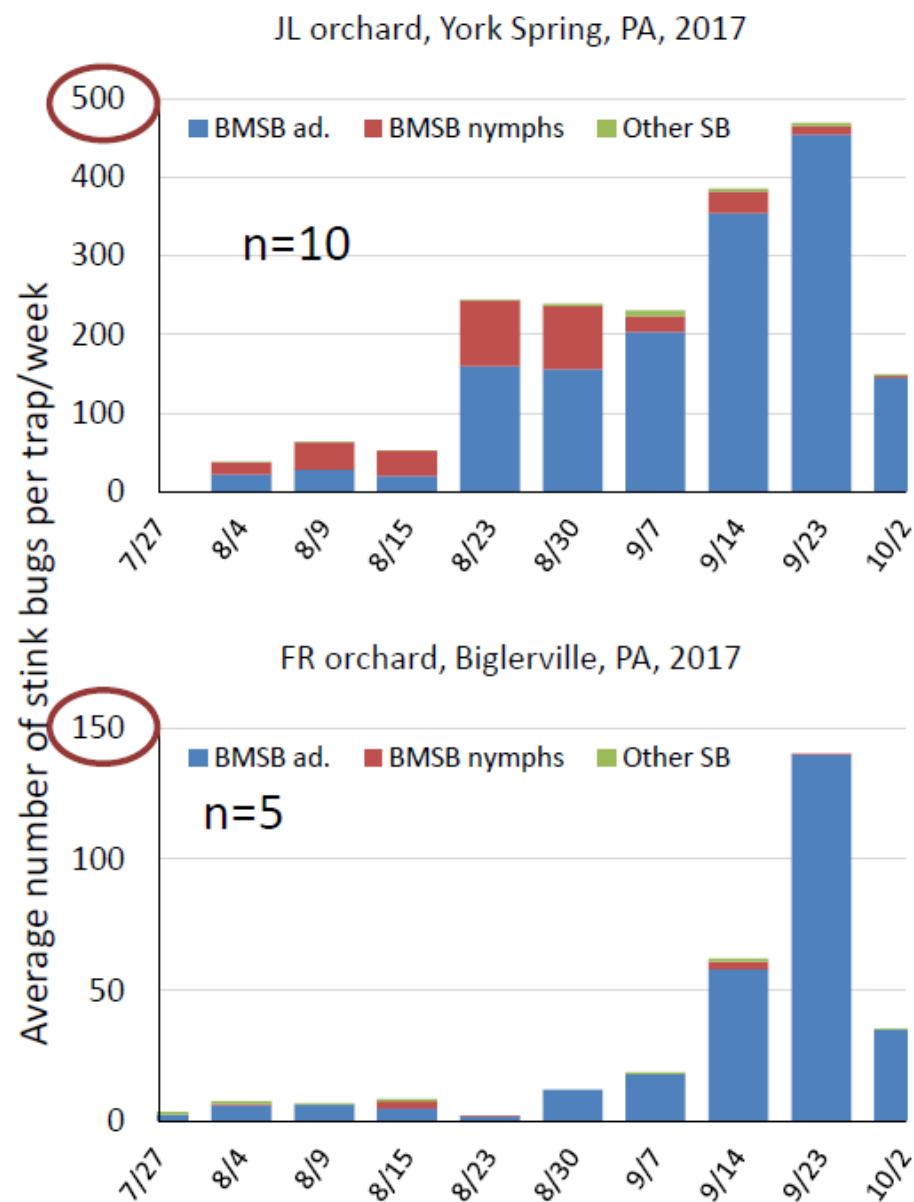


Research by: John Pote, Chris Adams, and Larry Gut





Average SB captures in ghost traps





Field Use-Cabbage Root Fly



- ✓ Kills or debilitates wide range of insects
- ✓ Insecticide constantly migrates to net surface
- ✓ Effective for at least 2-3 years.
- ✓ Easy to install and maintain. Safe to handle and use.
- ✓ Currently registered for mosquitoes, biting midges, stable flies.
- ✓ Approval for control of other insects pending.



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agbio@agbio-inc.com
 303-469-9221
www.agbio-inc.com



Long-Lasting Protection: Preventing
 Ambrosia Beetle Attacks in Ornamental
 Nurseries Using Insecticidal Netting
 Werle, C. T.,¹ B. J. Sampson,¹ C. M. Ranger,² P. B. Schultz,³ K. M.
 Addesso,⁴ and J. B. Oliver⁴

