



Pin Oak Rd

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Lee
Farms, LLC 



Opinions

- Spring Oats that winter kill are a good thing
- Favor legumes ahead of Winter Squash
- Slow Fall growth of Hairy Vetch requires companion planting with Spring Oats
- Crimson Clover with low rate of Spring Oats
- Annual Ryegrass is hard to control, can quickly become a nuisance

Favorite Combinations

- White Potato
- Late Summer seeding Vetch or Clover
- Early Summer incorporation
- Plant Winter Squash/Pumpkins



More Favorites

- Tillage Radish
- Good Scavenger w/Excellent Winter Kill
- Complete Early Spring Incorporation
- Fine seedbed prep for carrots,lettuce, etc







A young tomato plant with several green leaves is growing out of a square hole cut into a black plastic mulch sheet. The mulch is laid over a bed of brown soil. The plant's stem is visible as it passes through the hole. The background shows more of the same setup, with rows of mulch and soil.

Soil Warming



Weed Barrier

Moisture



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2016 NORTH MIDWEST Produce Suppliers
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COMMERCIAL VEGETABLE SEED CATALOG
2016









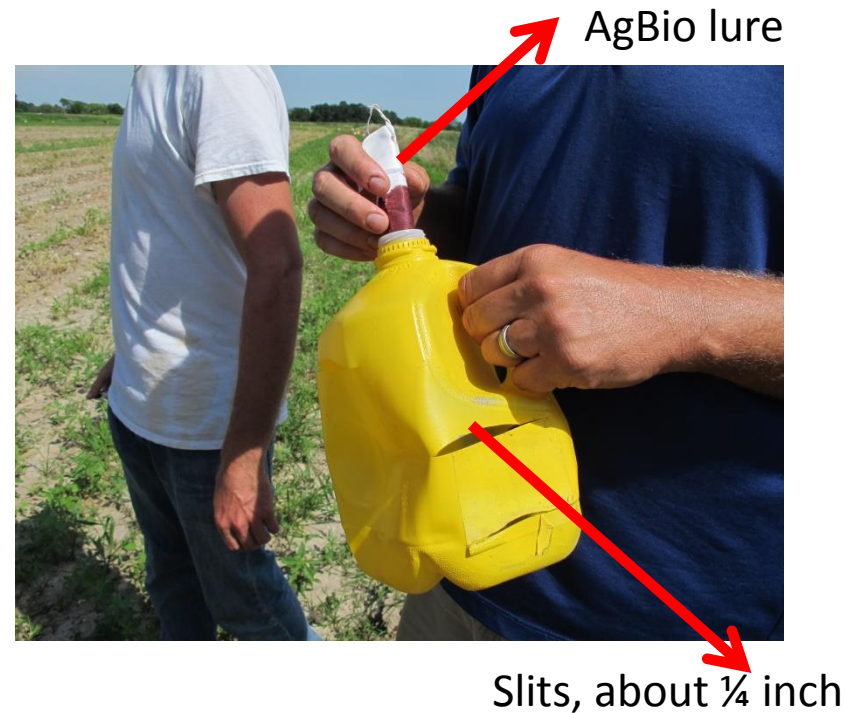




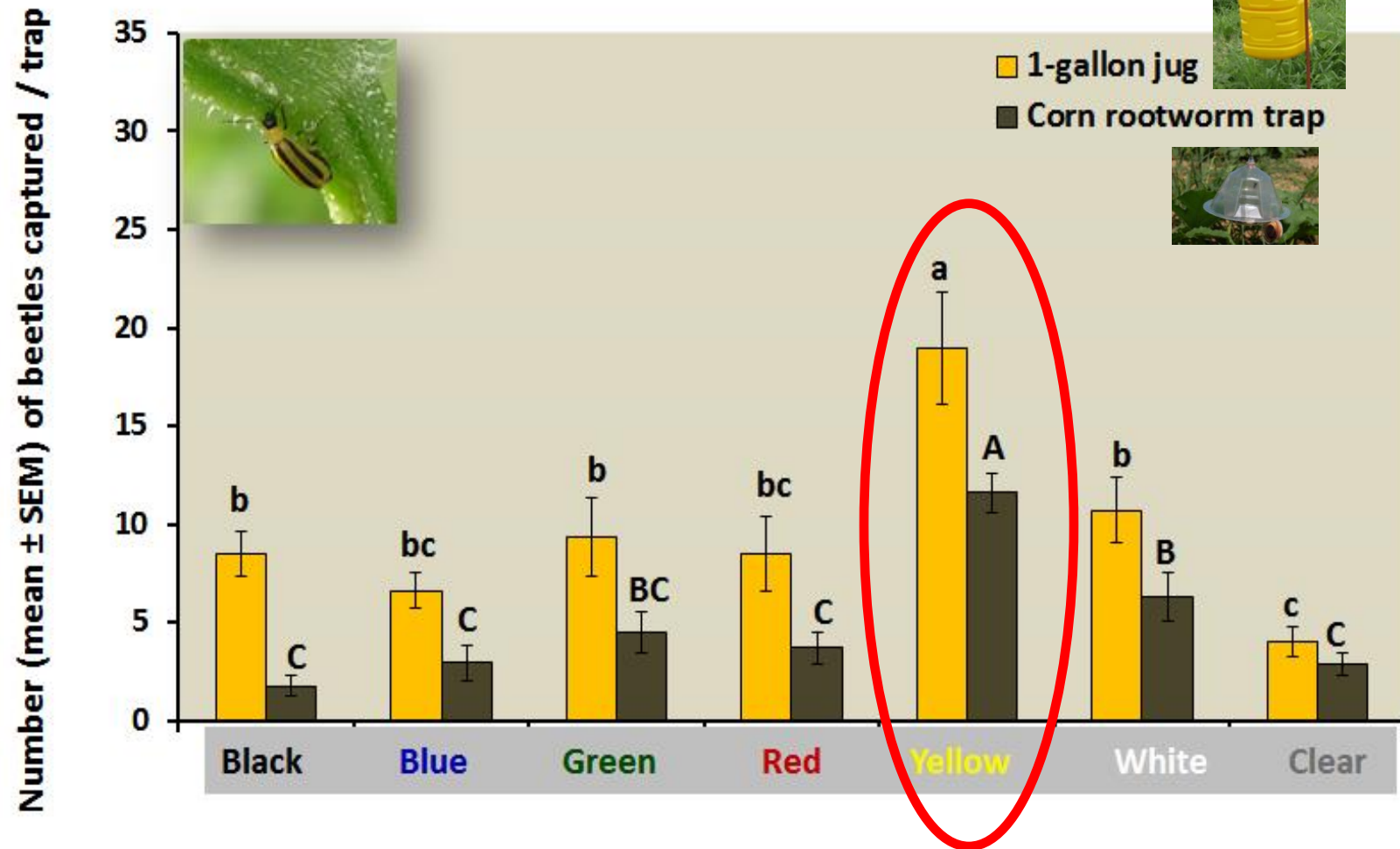


THE MASS TRAPPING SYSTEM

- Milk or juice jug. **Cost: \$ 0**
- Floral-based lure. **Cost: \$ 2.25 each** (AgBio, Inc., Westminster, CO)
- Stun pill (a combination of wax, carbaryl and dried buffalo gourd) as killing agent. **Cost: \$ 0.20** (Trece, Inc., Adair, OK).
- **Total cost not including paint or shipping costs: \$ 2.50 per trap**
- Lure can last 4-5 weeks, depending on weather
- 7 colors evaluated, results being presented correspond to captures in yellow-painted traps only. So, only a portion of captures are shown



2011 results from color preference studies conducted at the Lincoln University Carver farm.
All traps baited with AgBio lure + stun pill

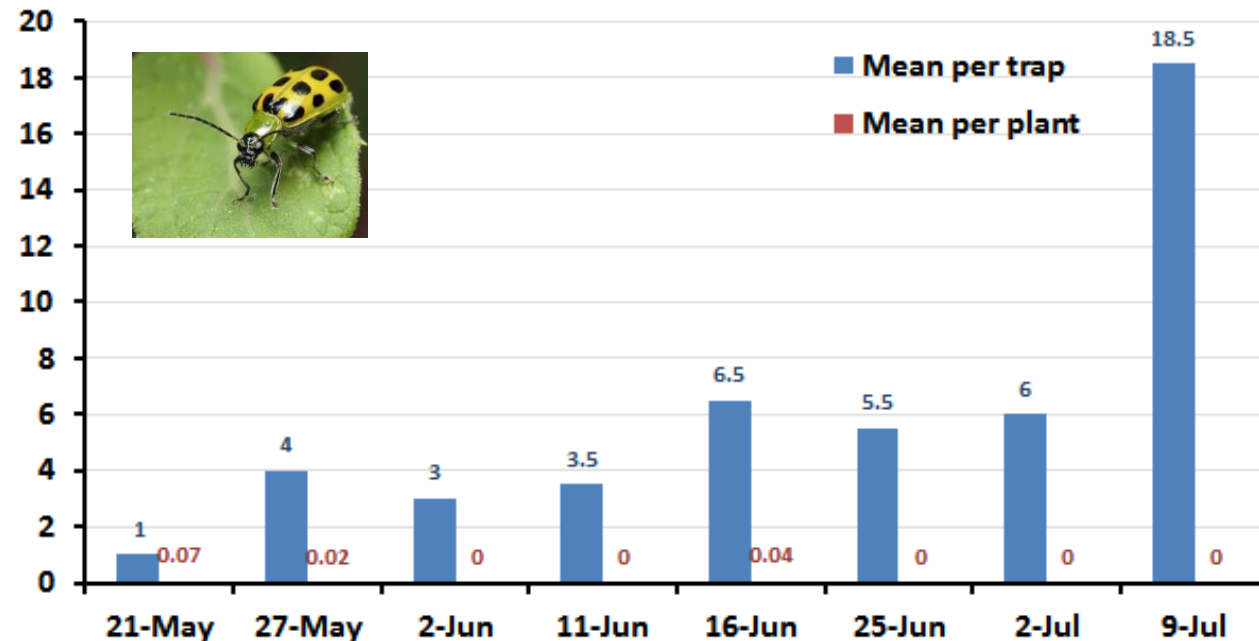
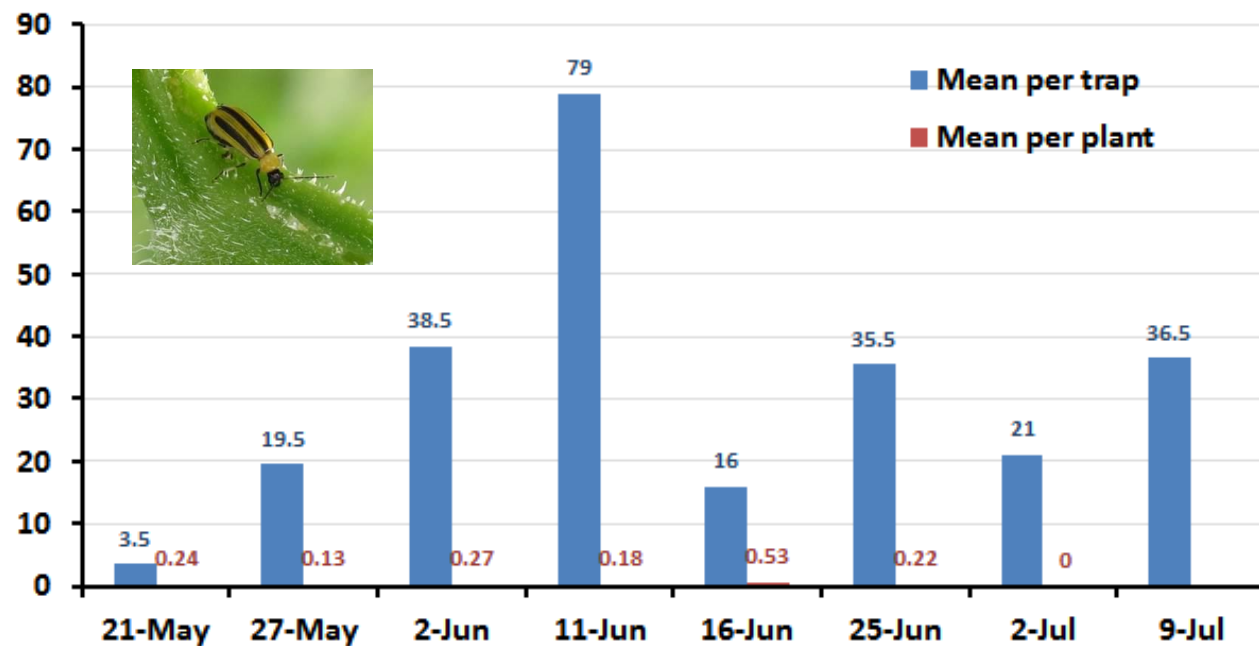


Yellow traps: also most attractive to spotted cucumber beetles

RESULTS Zucchini plot

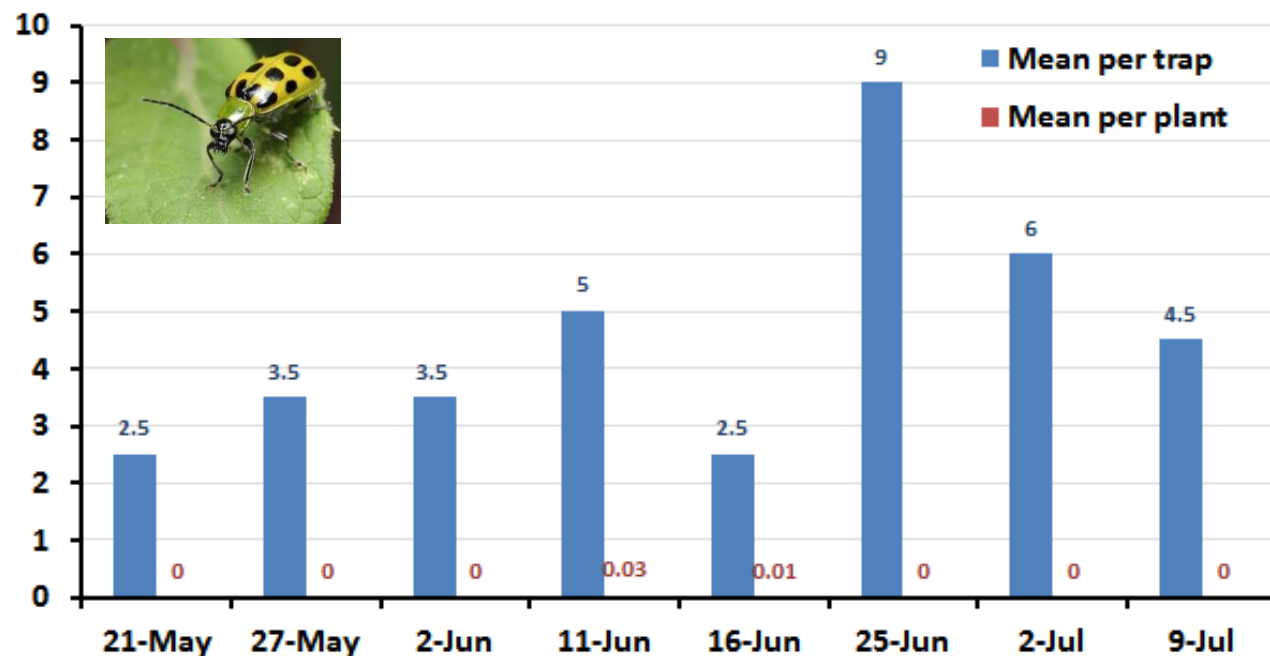
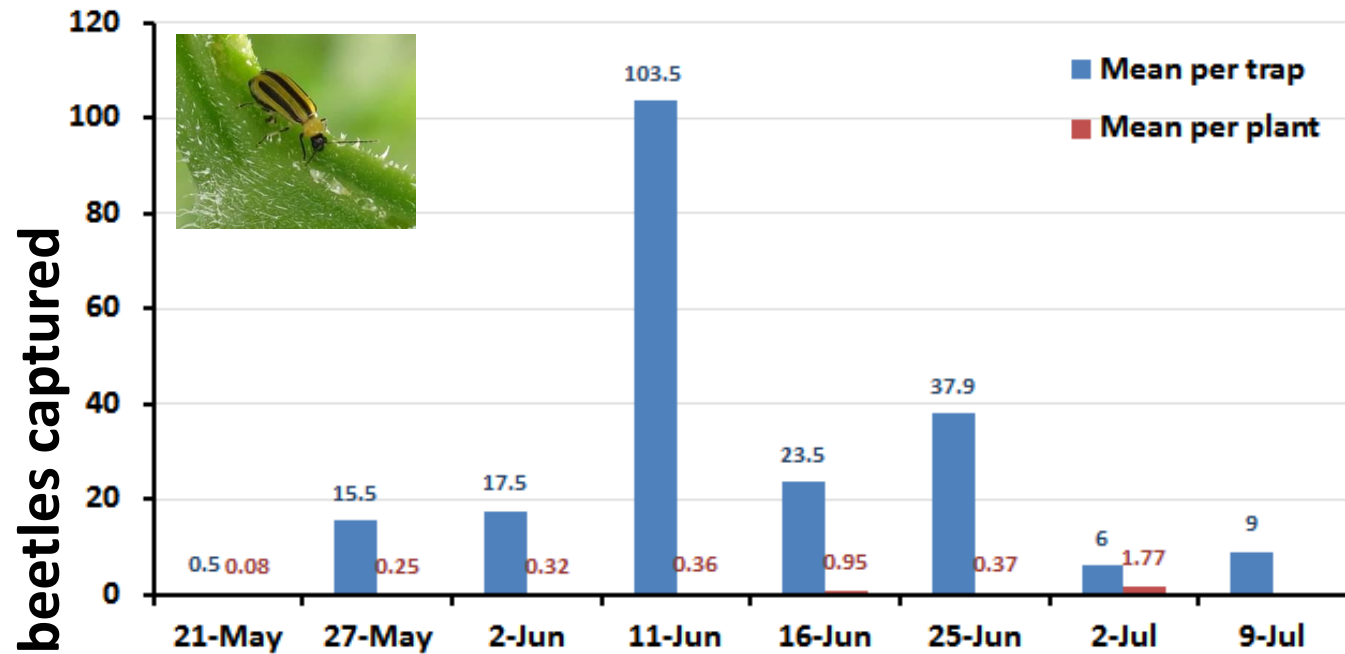
- Striped beetles more abundant (and showed up earlier) than spotted beetles
 - For each trapping date, most beetles were found in traps (*blue bars* – numbers indicate mean values)
 - Very few or no beetles were found on plants (red bars).
- Economic threshold (5 beetles / plant) was never reached**

Mean number of beetles captured



RESULTS Cucumber

- Striped beetles much more abundant than spotted beetles
- For each trapping date, most beetles were found in traps (blue bars) (*blue bars*)
- Very few or no beetles (especially spotted) were found on plants (red bars).
- **Economic threshold (1 beetle / plant) was reached once (2 Jul.) for striped beetles (but plants were large, so risk not very high)**



USING MASS TRAPPING FOR FALL CLEAN-UP

- **GOAL**: To kill as many striped and spotted cucumber beetles as possible to minimize invading population in the spring of 2016
- 15 yellow traps baited with AgBio lure and stun pill deployed on Sep. 25, 2015
- Traps inspected every 2 weeks or so

DATE	Total striped	Total spotted
October 9	2	507
October 26	0	1,182
December 2	0	352
TOTAL	2	2,041





