

SWD in Rhode Island 2013



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SWD in RI 2013

- 6/19/13 - 1st SWD adult caught – trap in cherry tree
- 6/24/13 – 1st larva/egg: collected 16 red raspberries - reared 1 SWD pupa
- 7/1/13 – collected 18 red raspberries – reared 5 pupae
- 7/17/13 – 71% red raspberries infested

- 10/7/13 – collected red & yellow raspberries: average 37 swd/red raspberry (50 swd in one berry)
Average 6 swd/yellow raspberry
- Commercial PYO grower – no complaints from customers

Reared SWD singly in specimen cups elevated on greenhouse shade cloth



7-10 days later count SWD
pupae & larvae



SWD trap-out research





Started out with dual baited trap then
switched to Rich Cowles's flour & yeast

Switched to flour and yeast bait 8/7/13



SWD Traps in blueberry planting – mid to late season varieties

A. Northland (5)	X	X	X	O	O	O	X	X	X	O	O	O	O	O	O	X	X	X	O	O	
B. Northland (5)	X	X	X	O	O	O	X	X	X	O	O	O	O	O	O	X	X	X	O	O	
C. Blueray (4)	X	X	X	O	O	O	X	X	X	O	O	O	O	O	O	X	X	X	O	O	O
D. Blueray(4)	X	X	X	O	O	O	X	X	X	O	O	O	O	O	O	X	X	X	O	O	O
E. Bluecrop (5)	X	X	X	O	O	O	X	X	X	O	O	O	O	O	O	X	X	X	O	O	O
F. Bluecrop (5)	X	X	X	O	O	O	X	X	X	O	O	O	O	O	O	X	X	X	O	O	O
G. Chandler (7)	X	X	X	O	O	O	X	X	X	O	O	O	O	O	O	X	X	X	O	O	O
H. Chandler (7)	X	X	X	O	O	O	X	X	X	O	O	O	O	O	O	X	X	X	O	O	O
I. Darrow (8)	X	X	X	O	O	O	X	X	X	O	O	O	O	O	O	X	X	X	O	O	O
J. Elliot (10)	X	X	X	O	O	O	X	X	X	O	O	O	O	O	O	X	X	X	O	O	O
K. Elliot (10)	X	X	X	O	O	O	X	X	X	O	O	O	O	O	O	X	X	X	O	O	O

Treatment

X = Trap

O = Control (No trap)

9 ft between rows

6 ft between plants

Number in parentheses indicates fruiting season 1 = early , 10 = late

No insecticide applied

Changed
bait weekly



Collected 12 berries/bush each week
from ripe varieties



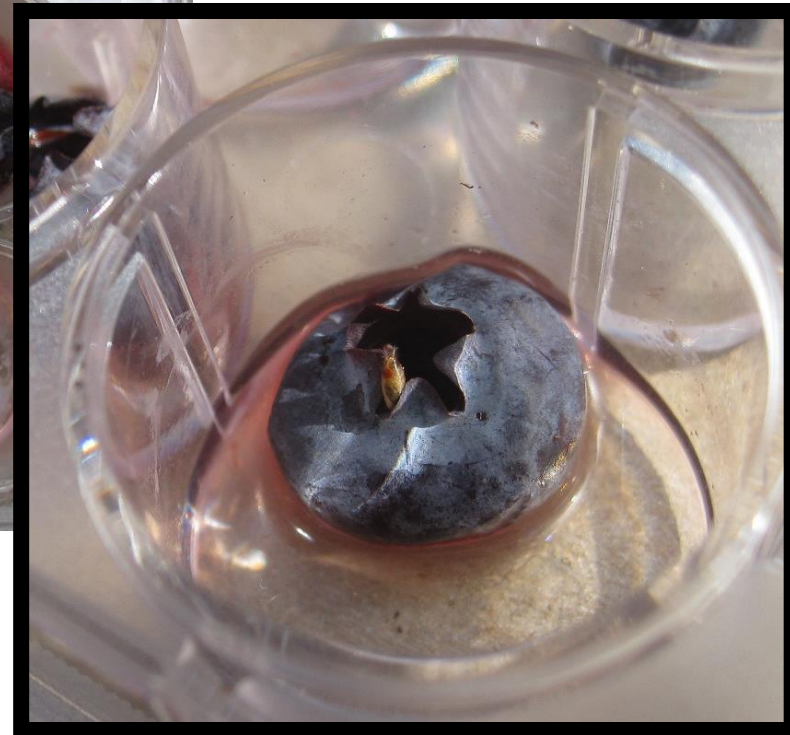
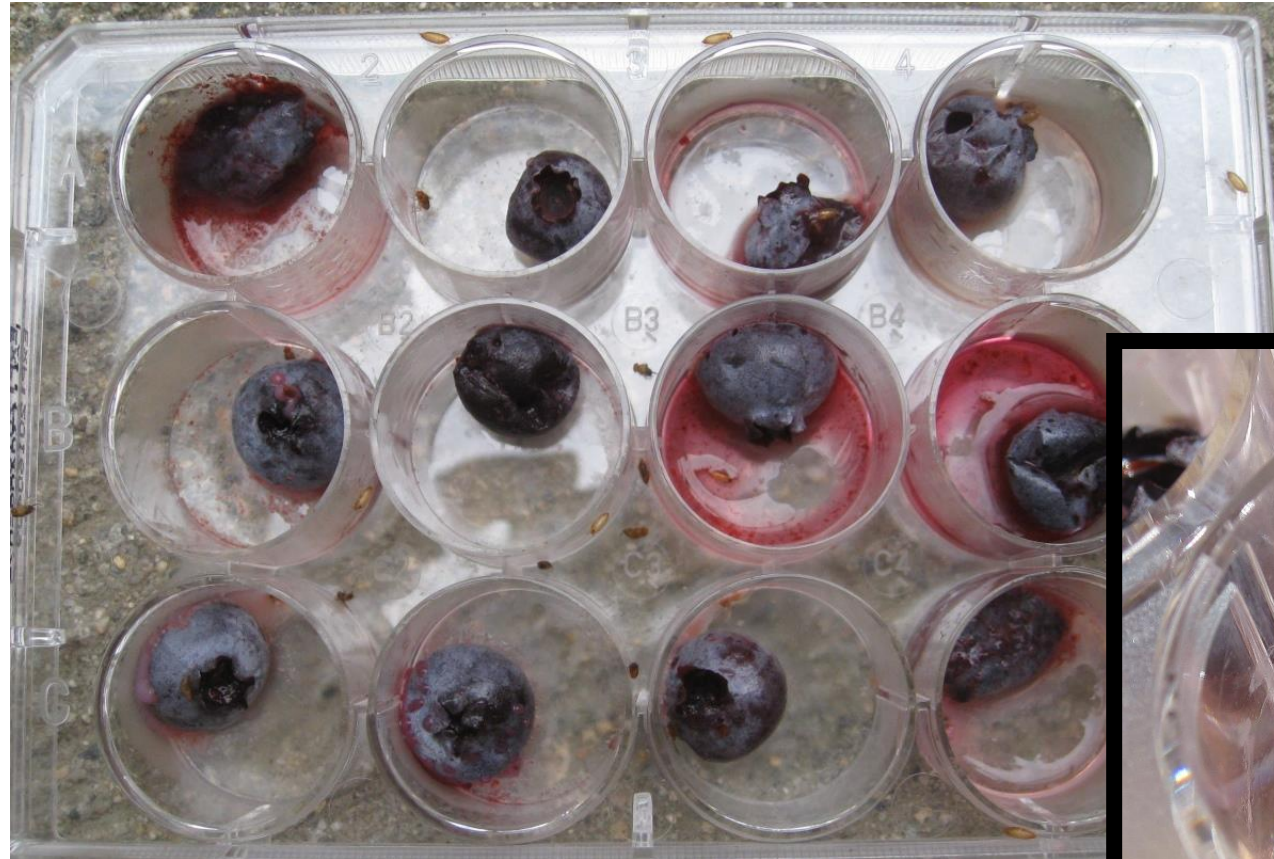
Wrapped in parafilm to prevent larvae from escaping



Incubated at 80 F



After 7 days, counted SWD pupae
& number of infested berries



Our trap-out didn't work

- Perhaps more SWD in bushes with traps...

Second study: URI's East Farm 14 blueberry varieties



URI East Farm – SWD & variety trial season rating in ()

Earliblue (2)

Bluetta (2)

Collins (3)

Bluehaven (4)

Blueray (4)

Bluejay (4)

Bluecrop (5)

Northland (5)

Bluegold (5)

Chandler (7)

Jersey (7)

Darrow (8)

Herbert (8)

Lateblue (9)

URI – SWD & blueberry variety trial

- No insecticide applied
- Collected blueberries when ripe – set up in plates
 - 10 berries per bush, 15 bushes per variety
- Incubate 7 days, count pupae
- Blueberries SWD-free until July 25 harvest
 - Harvested June 27 - July 18 with no SWD in fruit
- **Earliblue, Bluetta & Collins – harvested SWD-free for 4 weeks**
- 75% infestation by August 1 harvest



Many unpicked
berries at URI

Carissa, Olivia & Emily

