SWD in Rhode Island 2013

Heather Faubert
University of Rhode Island
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 X X X O O
B. Northland (5)  X X X O O O X X X 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 X X X O O O
D. Blueray (4)    X X X O O O X X X 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 X X X O O O
F. Bluecrop (5)   X X X O O O X X X 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 X X X O O O
H. Chandler (7)   X X X O O O X X X 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 X X X O O O
J. Elliot (10)    X X X O O O X X X O O O O O X X X O
K. Elliot (10)    X X X O O O X X X O O O O O X X X

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 ()

Earliiblue (2)  Northland (5)
Bluetta (2)     Bluegold (5)
Collins (3)     Chandler (7)
Bluehaven (4)   Jersey (7)
Blueray (4)     Darrow (8)
Bluejay (4)     Herbert (8)
Bluecrop (5)    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