

Small Fruit Working Group



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URI Plant Protection Clinic

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Redhumped caterpillar, *Schizura concinna*

- Found on apples, also a blueberry pest





Nice new bush!



Too much rain – June 7



May - Rain

15 wet days out of 24

Wed, May 8	69	53	61	0.30	20	86%	45%
Thu, May 9	64	56	59	0.58	24	91%	42%
Fri, May 10	76	52	64	0	11	72%	89%
Sat, May 11	66	56	61	0.57	20	87%	39%
Sun, May 12	68	48	60	0.05	13	70%	60%
Mon, May 13	57	40	50	0	0	45%	85%
Tue, May 14	57	38	49	0	0	49%	62%
Wed, May 15	63	35	52	0.07	10	71%	67%
Thu, May 16	79	48	64	0	9	53%	94%
Fri, May 17	68	47	58	0	0	54%	89%
Sat, May 18	70	42	58	0	0	63%	78%
Sun, May 19	66	47	57	0.15	8	78%	62%
Mon, May 20	79	54	66	0.06	13	81%	70%
Tue, May 21	80	52	65	0.35	16	84%	78%
Wed, May 22	69	51	60	0.05	21	89%	46%
Thu, May 23	72	58	65	0.20	24	91%	38%
Fri, May 24	66	48	61	0.81	24	91%	39%
Sat, May 25	52	42	48	0.46	24	88%	27%
Sun, May 26	59	41	50	0.03	10	65%	46%
Mon, May 27	71	41	57	0	0	55%	99%
Tue, May 28	71	43	59	0	0	65%	91%
Wed, May 29	72	56	63	0.85	18	89%	53%
Thu, May 30	87	59	73	0.13	10	74%	93%
Fri, May 31	90	62	77	0	0	65%	95%

June - Rain

17 wet days out of 30

Sat, June 1 2013	87	62	75	0	0	68%	99%
Sun, June 2	83	65	72	0	0	76%	93%
Mon, June 3	72	61	66	0.97	19	86%	42%
Tue, June 4	71	52	62	0	0	52%	93%
Wed, June 5	71	47	61	0	0	60%	92%
Thu, June 6	71	50	61	0.03	1	70%	88%
Fri, June 7	59	56	57	3.13	24	93%	32%
Sat, June 8	77	55	64	0.92	12	81%	65%
Sun, June 9	79	55	68	0	2	67%	90%
Mon, June 10	69	56	63	0.81	10	83%	62%
Tue, June 11	70	58	62	1.58	24	91%	43%
Wed, June 12	70	57	63	0	9	70%	54%
Thu, June 13	64	51	57	0.80	16	85%	48%
Fri, June 14	72	52	60	1.17	12	76%	60%
Sat, June 15	78	54	66	0	0	56%	98%
Sun, June 16	75	52	66	0	0	68%	76%
Mon, June 17	83	60	70	0.32	7	73%	90%
Tue, June 18	77	58	65	0.71	21	84%	68%
Wed, June 19	73	55	64	0.05	9	67%	90%
Thu, June 20	77	51	65	0	0	64%	95%
Fri, June 21	81	56	69	0	0	65%	91%
Sat, June 22	82	61	70	0	0	65%	93%
Sun, June 23	86	62	74	0	0	71%	94%
Mon, June 24	92	67	78	0.05	9	73%	91%
Tue, June 25	90	66	77	0	9	71%	94%
Wed, June 26	84	68	76	0.13	10	78%	75%
Thu, June 27	73	66	68	0.10	24	92%	38%
Fri, June 28	77	65	71	0.68	21	91%	44%
Sat, June 29	80	68	73	0.18	13	84%	65%
Sun, June 30	80	69	73	0.21	16	85%	62%

5/24/13 Botrytis on Patriots



5/24/13



5/30/13 same farm



5/30/13



6/7/13 – all varieties



6/6/13



6/6/13



Still had a decent crop
Used for SWD research



Perfect research block & no spray Trap out study



SWD Traps in blueberry planting

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



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

Switched to flour and yeast bait 8/7/13

Following 8/6/13 Berry Call-in



Changed
bait weekly



Collected 12 berries/bush



Collected one plate/bush



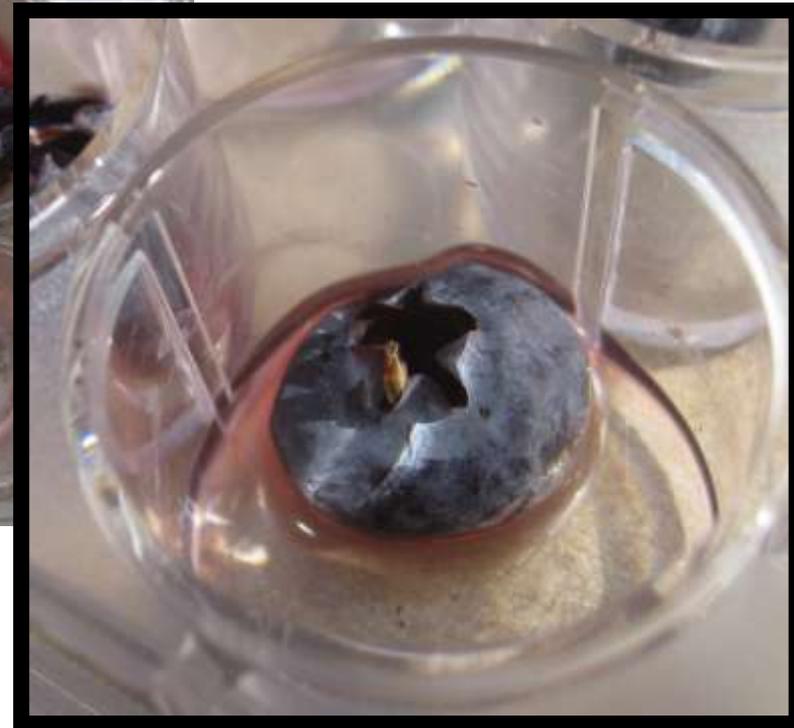
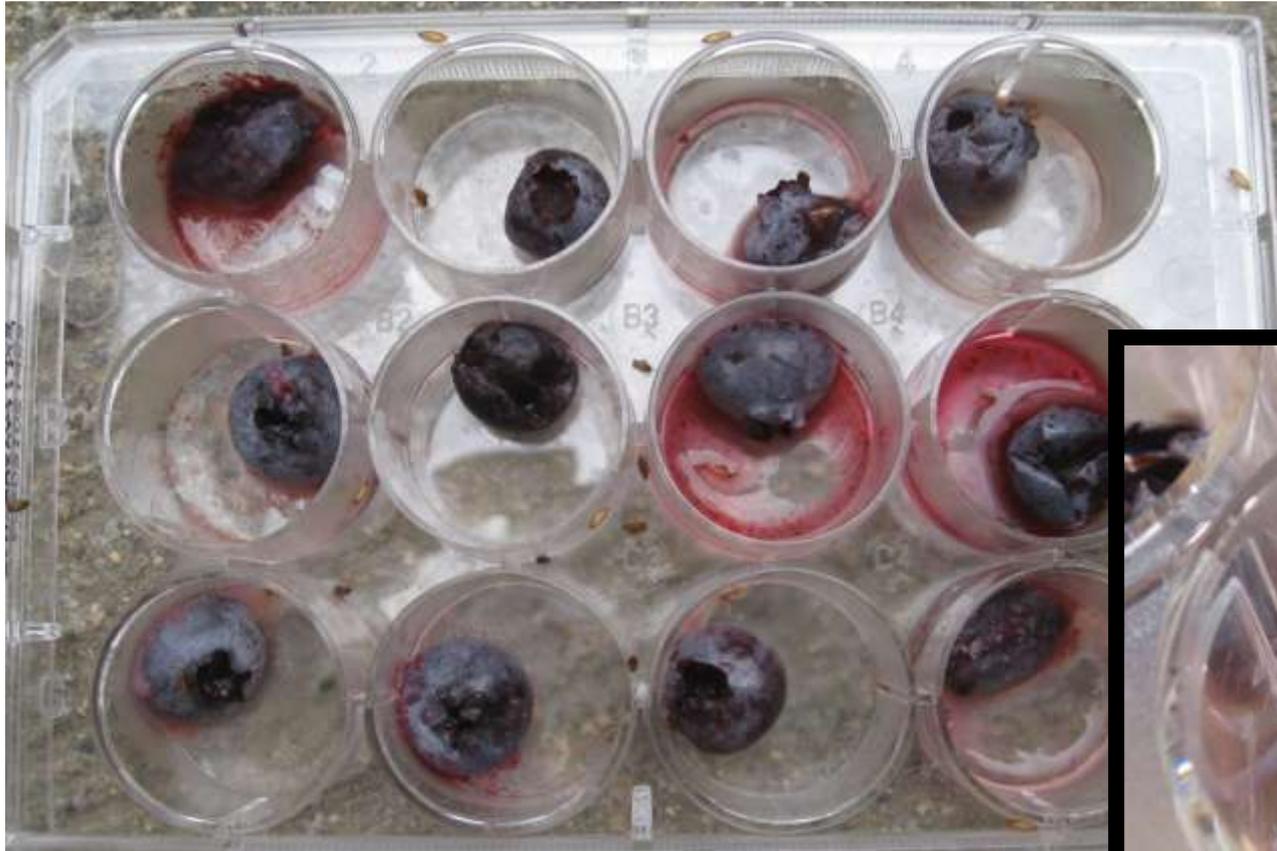
Wrapped in parafilm to prevent larvae from escaping



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...

URI's East Farm

14 blueberry varieties



URI East Farm – SWD & variety trial

- Earliblue
 - Bluetta
 - Collins
 - Bluehaven
 - Blueray
 - Bluejay
 - Bluecrop
- Northland
 - Bluegold
 - Chandler
 - Jersey
 - Darrow
 - Herbert
 - Lateblue

URI – variety trial

- No insecticide applied
- Harvested variety when ripe – set up in plates
 - 10 berries per bush, 15 bushes per variety
- Incubate 7 days, count pupae
- Berries 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

Good job
breeding SWD

Carissa, Olivia & Emily



RI

- 6/19/13 - 1st SWD adult caught - cherry trap
- 6/24/13 – collected 16 raspberries - produced one SWD pupa
- 7/1/13 – collected raspberries – produced 5 pupae

One grower honest about SWD



rosophila fly. We are working in conjunction
with the University of Rhode Island on combating
this pest.

**FOR MORE INFORMATION ON THIS PEST PLEASE CONTACT
HEATHER FAUBERT WITH U.R.I.'S COOPERATIVE EXTENSION**

SCHARTNER FARMS