

**SWD Trapping  
in New Hampshire  
Highbush Blueberries**

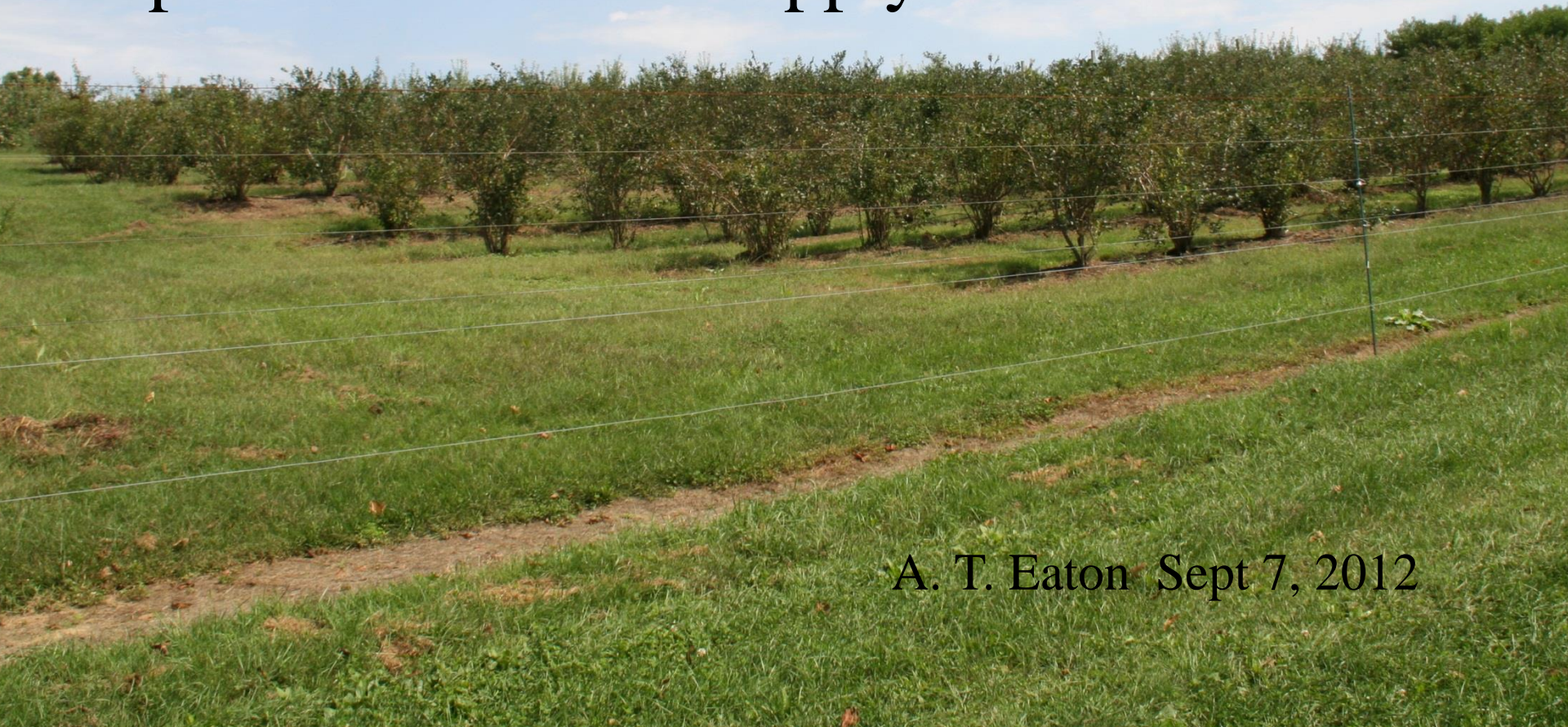
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**UNH Cooperative Extension**

**Sept 12, 2014**

## Three year SWD study

0.4 acre highbush blueberry patch, UNH  
Woodman Farm. Do traps work well enough  
to predict the need to apply insecticides?



A. T. Eaton Sept 7, 2012



A. T. Eaton 9/7/2012

## **2012**

- **Picking began about July 14**
- **Set 2 SWD traps (New Engl. project) July 18**
- **Counted trap catch weekly**
- **Changed bait weekly**
- **Picked 50 ripe fruit wkly (5/bush x 10 bushes)**
- **Held fruit 14 days for emergence in cages,  
and counted emerging SWD's**
- **All remaining fruit were spoiled by 8/26**



**A. Eaton 6/25/12**

<b>Picking Date</b>	<b><u>Emerged Drosophilids</u></b>		<b># SWD's in 2 Traps</b>
	<b>SWD</b>	<b>Other</b>	
<b>July 18</b>	<b>0</b>	<b>0</b>	<b>0, 0</b>
<b>July 26</b>	<b>0</b>	<b>0</b>	<b>0, 0</b>
<b>July 31</b>	<b>1</b>	<b>0</b>	<b>0, 0</b>
<b>Aug 8</b>	<b>52</b>	<b>1</b>	<b>0, 0</b>
<b>Aug 14</b>	<b>131</b>	<b>26</b>	<b>0, 0</b>
<b>Aug 22</b>	<b>67</b>	<b>11</b>	<b>30, 81</b>

*All emerged drosophilids are examined under a microscope, but only males are counted in traps.*

**In 2013 we changed:**  
**Trap appearance**  
**The bait**  
**Trap placement**



## 2013 Results

<b>Picking Date</b>	<b>Emergued SWD</b>	<b>Other species</b>	<b>SWD's in 2 Traps</b>
<b>July 16</b>	<b>0</b>	<b>0</b>	<b>0, 0</b>
<b>July 23</b>	<b>3</b>	<b>8BFF</b>	<b>0, 0</b>
<b>July 30</b>	<b>16</b>	<b>3BFF</b>	<b>3, 3</b>
<b>Aug 6</b>	<b>60</b>	<b>7BFF</b>	<b>8, 17</b>
<b>Aug 13</b>	<b>35</b>	<b>0</b>	<b>0*, 12</b>
<b>Aug 20</b>	<b>178</b>	<b>0</b>	<b>42, 64</b>

\*trap disturbance, possibly from raccoon



## 2014 Results

<b>Picking Date</b>	<b>Emergued SWD</b>	<b>Other species</b>	<b>SWD's in 2 Traps</b>
<b>July 14</b>			<b>0, 0</b>
<b>July 21</b>			<b>0, 0</b>
<b>July 28</b>			<b>0, 0</b>
<b>Aug 5</b>	<b>0</b>	<b>3BFF</b>	<b>0, 0</b>
<b>Aug 11</b>	<b>6</b>	<b>4 BFF</b>	<b>6, 3</b>
<b>Aug 19</b>	<b>21</b>	<b>2BFF</b>	<b>14, 4</b>
<b>Aug 25</b>	<b>35</b>	<b>1BFF</b>	<b>15, 14</b>
<b>Sept 1</b>	<b>fruiting is over</b>		<b>11, 43</b>

## Summary

**The 2012 methods were not useful to predict when highbush blueberries need protection.**

**With the 2013 improvements in trap design, bait and placement, the traps worked pretty well in predicting the need to treat highbush blueberries. In 2014, SWD trap catch began at about the same time, but populations built more slowly, and totals were much lower, statewide.**