

Advanced IPM Training for UC Master Gardeners

March 6, 2013 -- Stockton

Pre- and Post-workshop Survey Results

1.) Which of these pesticides is likely to have the LEAST negative impact on beneficial insects?

	Pre-workshop		Post-workshop	
	Responses (percent)	(count)	Responses (percent)	(count)
<i>Bacillus thuringiensis</i>	45.45%	25	83.02%	44
Insecticidal soap	40%	22	9.43%	5
Pyrethrins (botanical insecticide)	1.82%	1	0%	0
Neem oil	12.73%	7	7.55%	4
<b>Totals</b>	100%	55	100%	53

2.) What is this insect?

	Pre-workshop		Post-workshop	
	%	#	%	#
Firebrat	20%	11	3.77%	2
Brown lacewing	30.91%	17	28.30%	15
<i>Carabid beetle</i>	14.55%	8	60.38%	32
Dampwood termite	34.55%	19	7.55%	4
<b>Totals</b>	100%	55	100%	53

3.) Which of these insects feeds primarily on scale insects?

	Pre-workshop		Post-workshop	
	%	#	%	#
Choice One (Image of <i>Coccinella septempunctata</i> )	40%	22	7.41%	4
Choice Two (Image of <i>Cryptolaemus montrouzieri</i> )	29.09%	16	29.63%	16
<i>Choice Three (Image of <i>Chilocorus orbus</i>)</i>	30.91%	17	62.96%	34
<b>Totals</b>	100%	55	100%	54

4.) Which of the following pests is least likely to be effectively controlled with applications of entomopathogenic nematodes?

	Pre-workshop		Post-workshop	
	%	#	%	#
Fungus gnats	18.18%	10	14.81%	8
<i>Tomato hornworm</i>	36.36%	20	62.96%	34
Clearwinged moths	27.27%	15	12.96%	7
Lawn grubs	18.18%	10	9.26%	5
<b>Totals</b>	100%	55	100%	54

5.) For which of these wood-destroying pests are cylindrical pellets, hexagonal in cross section, considered a diagnostic sign?

	Pre-workshop		Post-workshop	
	%	#	%	#
Carpenter ants	9.09%	5	1.79%	1
Subterranean termites	10.91%	6	32.14%	18
<i>Drywood termites</i>	29.09%	16	62.50%	35
Carpenter bees	14.55%	8	0%	0
Powderpost beetles	36.36%	20	3.57%	2
<b>Totals</b>	100%	55	100%	56

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6.) Which of the following CANNOT be used to distinguish ants from termites?

	Pre-workshop		Post-workshop	
	%	#	%	#
Shape of antennae	14.29%	8	0%	0
Respective size of wings	14.29%	8	5.45%	3
<i>Number of wings</i>	<i>25.00%</i>	<i>14</i>	<i>90.91%</i>	<i>50</i>
Wing vein pattern	12.50%	7	1.82%	1
Presence/absence of a 'waist'	33.93%	19	1.82%	1
<b>Totals</b>	<b>100%</b>	<b>56</b>	<b>100%</b>	<b>55</b>

7.) Considering the two insect specimens in the image below, which of these statements is FALSE?

	Pre-workshop		Post-workshop	
	%	#	%	#
Both species can and will bite humans	3.64%	2	12.50%	7
<i>Both species are known to transmit human disease.</i>	<i>21.82%</i>	<i>12</i>	<i>69.64%</i>	<i>39</i>
The image shows the adult stage of both species.	21.82%	12	10.71%	6
Management tactics differ for these two pest species.	34.55%	19	5.36%	3
Both species are commonly found in urban and suburban	18.18%	10	1.79%	1
<b>Totals</b>	<b>100%</b>	<b>55</b>	<b>100%</b>	<b>56</b>

8.) Which one of the locations listed is the most likely source of the insect specimen below, found running across the living room floor?

	Pre-workshop		Post-workshop	
	%	#	%	#
<i>The water meter box outside</i>	<i>21.82%</i>	<i>12</i>	<i>85.45%</i>	<i>47</i>
Under the kitchen sink	50.91%	28	5.45%	3
Under the bathroom sink	1.82%	1	1.82%	1
Within a package of food in the kitchen pantry	16.36%	9	5.45%	3
Behind a large family portrait in the hallway	9.09%	5	1.82%	1
<b>Totals</b>	<b>100%</b>	<b>55</b>	<b>100%</b>	<b>55</b>

9.) ALL pesticides sold in stores are registered by the U.S. EPA.

	Pre-workshop		Post-workshop	
	%	#	%	#
True	43.64%	24	0%	0
<i>False</i>	<i>56.36%</i>	<i>31</i>	<i>100.00%</i>	<i>56</i>
<b>Totals</b>	<b>100%</b>	<b>55</b>	<b>100%</b>	<b>56</b>

10.) Which less toxic pesticide below would be the best choice for treating scale insects on a tree in the dormant season?

	Pre-workshop		Post-workshop	
	%	#	%	#
Carbaryl	10.71%	6	7.14%	4
Imidacloprid	3.57%	2	5.36%	3
A pyrethroid	17.86%	10	8.93%	5
Any of the above	10.71%	6	0%	0
<i>None of the above</i>	<i>57.14%</i>	<i>32</i>	<i>78.57%</i>	<i>44</i>
<b>Totals</b>	<b>100%</b>	<b>56</b>	<b>100%</b>	<b>56</b>

11.) Based on the labels shown, which product poses the least risk for people?

	Pre-workshop		Post-workshop	
	%	#	%	#
A. Image showing "DANGER" signal word	20%	11	12.96%	7
<i>B. Image showing "CAUTION" signal word</i>	<i>43.64%</i>	<i>24</i>	<i>72.22%</i>	<i>39</i>
C. Image showing "WARNING" signal word	36.36%	20	14.81%	8
<b>Totals</b>	<b>100%</b>	<b>55</b>	<b>100%</b>	<b>54</b>