

scaffolds

Update on Pest Management
and Crop Development

F R U I T J O U R N A L

September 3, 2013

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Geneva, NY

WHAT HAPPENED?

Entomology, Geneva)

2013 FRUIT
ARTHROPOD
PEST
REVIEW
(Art
Agnello,



❖❖ Most people in the fruit business were frankly a little apprehensive about what to expect from this season. After 2012, there was a sense that anything was possible, particularly scenarios that had a greater resemblance to some of the southeastern states than to the good old (if non-standard) New York summers of legend and common lore. Even as the spring proceeded to unwind in its slow, gradual, and even boring sequence of non-dramatic crop & pest development stages, there remained a tendency to glance over one's shoulder to be sure nothing was sneaking up on us. We had all heard the worries over 'light' control programs last year, pests that had had extra flights, and then cold-but-not-epic winter temperatures, all of which could have presaged a monumental insect resurgence this year. Nonetheless, the prebloom period was cool and not too rainy, bloom was abundant, pollination weather generally acceptable, and fruit set proceeded with relatively few frost or hail events being reported. Early season pests seemed to have slept in, and we somehow reverted to business as usual, just another "normal" NY growing season.

Which is to say that the version of normal that we experienced this year was of the a-bit-too-much-rain and not-enough-heat variety, so that real summer temperatures didn't occur until July, and then retreated for the next 6 or 8

weeks. The insect pests, fortunately, did not explode, although they weren't actually absent. We hardly saw any mites, or pear psylla, or curculios; however, San Jose scale infestations were a common sight, as well as potato leafhoppers, woolly apple aphid, and of course the lep brigade. Codling moths and oriental fruit moths did not overrun the countryside, but they were (are) out there in all the usual spots, the same as leafrollers. Apple maggot took its time in emerging, but seems to still have a number of curtain calls to attend to before it's finished.

As noted previously, more time and attention seems to have been directed this year at our two invasive species, a phenomenon that should probably be taken as a sign of things to come. Brown marmorated stink bug finally began showing up in traps in western NY this

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year, albeit in low, sporadic numbers, although the new-this-year availability of the true pheromone lures could have played a part. More eastern NY sites are experiencing fruit damage this year, including further north into Columbia Co., so we expect this trend to continue going forward. Spotted wing drosophila has become a more universal, and urgent, concern, although mostly for berry growers; our cherry and peach plantings seem to have escaped any notable damage this time, but next season could be different if the fly's first occurrence date continues to advance each year. Overall, something old and something new... ❖❖

THINGS THAT FLY

FLIGHT WATCH LIST
(Art Agnello & Dave Kain,
Entomology, Geneva)

❖❖ With this issue, Scaffolds ceases publication for the season; we expect to start up again next March. In February, as usual, we'll send out an email to all current subscribers to verify addresses for next year's mailing list. Our thanks to all of you who have sent comments, suggestions, and articles our way, a practice we hope you'll continue. As a wrap-up, here's our annual summary of the year's pheromone trap results and an Index of Volume 22, 2013 of Scaffolds Fruit Journal.

KEY = GFW - Green Fruitworm; RBLR - Red-banded Leafroller; STLM - Spotted Tentiform Leafminer; OFM - Oriental Fruit Moth (in apples); LAW - Lesser Appleworm; CM - Codling Moth; SJS - San Jose Scale; APB - American Plum Borer (in cherries); LPTB - Lesser Peachtree Borer (in cherries); DWB - Dogwood Borer; PL - Pandemis Leafroller; OBLR - Obliquebanded Leafroller; PTB - Peachtree Borer; AM - Apple Maggot; * - first catch of the generation. ❖❖

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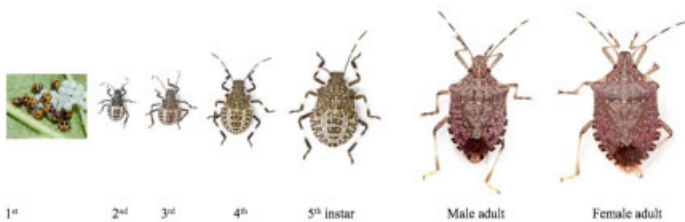


photo courtesy of N. Gompel

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This newsletter available online at:
<http://www.scaffolds.entomology.cornell.edu/index>.

Geneva Pest Trapping Results - Avg/Trap/Day

| DATE | GFW | RBLR | STLM | OFM | APB | SJS | CM | LPTB | PTB | PL | OBLR | AM |
|------|------|------|------|------|-----|------|-----|------|-----|----|------|----|
| 4/4 | 0.2* | | | | | | | | | | | |
| 4/8 | 0.3 | | | | | | | | | | | |
| 4/15 | 0.4 | | | | | | | | | | | |
| 4/18 | 0.0 | | | | | | | | | | | |
| 4/22 | 0.3 | | | | | | | | | | | |
| 4/25 | 0.0 | 0.7* | | | | | | | | | | |
| 4/29 | 0.1 | 7.43 | 0.5* | | | | | | | | | |
| 5/2 | 0.1 | 17.8 | 8.7 | | | | | | | | | |
| 5/6 | 0.0 | 9.6 | 39.0 | 5.0* | | | | | | | | |
| 5/9 | 0.0 | 11.3 | 29.0 | 2.2 | | | | | | | | |
| 5/13 | 0.0 | 5.6 | 4.6 | 0.1 | | | | | | | | |
| 5/16 | 0.2 | 4.2 | 4.3 | 0.0 | 0.8 | | 0.3 | | | | | |
| 5/20 | 0.0 | 2.4 | 2.6 | 0.8 | 0.4 | 0.3 | | 0.1* | | | | |
| 5/23 | – | 3.5 | 2.8 | 0.3 | 0.2 | 0.7* | 2.3 | 1.2 | | | | |
| 5/28 | | 0.1 | 0.3 | 0.3 | 0.0 | 0.5 | 0.9 | 0.4 | | | | |
| 5/30 | | 0.3 | 0.0 | 1.0 | 0.5 | 1.3 | 1.0 | 0.0 | | | | |

| DATE | RBLR | STLM | OFM | APB | SJS | CM | LPTB | DWB | PTB | PL | OBLR | AM |
|------|------|------|-----|------|-------|------|------|------|------|------|------|------|
| 6/3 | 0.0 | 0.0 | 0.2 | 0.7 | 0.3 | 2.7 | 1.0 | 2.2* | | 0.3* | | |
| 6/10 | 0.0 | 0.0 | 0.0 | 0.0 | 0.1 | 0.3 | 0.6 | 1.0 | | 0.3 | 0.2* | |
| 6/17 | 0.0 | 0.2 | 0.3 | 0.1 | 0.0 | 0.3 | 0.5 | 1.4 | | 1.4 | 1.8 | |
| 6/20 | 0.2 | 1.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.2 | 0.2 | | 0.2 | 0.0 | |
| 6/24 | 0.0 | 5.5* | 0.1 | 0.1 | 0.0 | 0.0 | 0.3 | 2.3 | 0.8* | 0.8 | 1.3 | |
| 7/1 | 0.3 | 31.2 | 0.3 | 0.2 | 0.0 | 0.8 | 0.3 | 7.0 | 0.5 | 0.8 | 0.5 | |
| 7/8 | 0.0 | 11.8 | 0.5 | 0.0 | 0.0 | 0.2 | 0.2 | 2.6 | 0.7 | 0.0 | 1.0 | |
| 7/11 | 0.0 | 10.0 | 0.8 | 0.0 | 0.0 | 0.0 | 0.0 | 7.0 | 0.7 | | 0.2 | |
| 7/15 | 0.3 | 34.6 | 0.6 | 0.0 | 0.0 | 0.0 | 0.0 | 6.7 | 0.7 | | 0.2 | 0.2* |
| 7/22 | 0.0 | 10.0 | 0.2 | 0.0 | 20.1* | 0.8 | 0.1 | 4.3 | 0.2 | | 0.0 | 0.1 |
| 7/25 | 0.3 | 4.5 | 0.0 | 0.2 | 44.8 | 0.0 | 0.0 | 1.2 | 0.3 | | 0.0 | 0.3 |
| 7/29 | 0.0 | 4.1 | 0.0 | 0.5* | 57.5 | 0.0 | 0.1 | 0.8 | 0.1 | | 0.0 | 0.1 |
| 8/1 | 0.0 | 6.0 | 0.3 | 0.5 | 198.3 | 1.3* | 0.0 | – | 0.0 | | 0.0 | 0.2 |
| 8/5 | 0.0 | 2.5 | 0.5 | 0.3 | 172.5 | 1.5 | 0.0 | 1.6 | 0.0 | | 0.1 | 1.0 |
| 8/8 | 0.0 | 10.2 | 0.5 | 0.0 | 30.0 | 0.0 | 0.0 | 0.5 | 0.0 | | 0.0 | 0.0 |
| 8/12 | 0.1 | 21.4 | 1.5 | 0.4 | 14.1 | 0.3 | 0.3 | 0.4 | 0.0 | | 0.1 | 1.3 |
| 8/15 | 0.0 | 19.8 | 2.0 | 0.0 | 13.3 | 0.5 | 0.0 | 0.2 | 0.0 | | 0.3 | 1.5 |
| 8/19 | 0.9* | 28.6 | 1.0 | 0.1 | 15.1 | 0.1 | 0.0 | – | 0.1 | | 0.1 | 1.1 |
| 8/22 | 1.0 | 42.2 | 2.0 | 0.2 | 38.3 | 0.2 | | 3.0 | 0.0 | | 0.2 | 0.2 |

continued...

HUDSON VALLEY INSECT KEY = GFW - Green Fruitworm; RBLR - Redbanded Leafroller; STLM - Spotted Tentiform Leafminer; OFM - Oriental Fruit Moth (in apples); LAW - Lesser Appleworm; CM - Codling Moth; TABM - Tufted Apple Budmoth; VLR - Variegated Leafroller; SJS - San Jose Scale; OBLR - Obliquebanded Leafroller; FTLR - Fruittree Leafroller; SPAR - Sparganothis Fruitworm; AM - Apple Maggot; * - first catch of the generation.

Hudson Valley (Highland) Pest Trapping Results - Avg/Trap/Day

| DATE | GFW | RBLR | STLM | OFM | LAW | CM | SJS | OBLR | AM |
|------|------|------|------|------|------|------|------|------|------|
| 4/1 | 1.6* | 0.5* | 1.3* | | | | | | |
| 4/8 | 2.1 | 0.1 | 0.0 | | | | | | |
| 4/15 | 1.2 | 2.3 | 0.0 | 0.1* | | | | | |
| 4/22 | 1.4 | 4.1 | 0.6 | 0.4 | | | | | |
| 4/29 | 0.1 | 7.4 | 0.5 | 0.0 | | | | | |
| 5/2 | 0.2 | 17.8 | 17.3 | 0.0 | | | | | |
| 5/6 | 0.0 | 9.6 | 39.0 | 5.0 | | | | | |
| 5/13 | 0.0 | 5.4 | 15.1 | 1.3 | 3.1* | | | | |
| 5/20 | | 1.8 | 8.0 | 1.4 | 0.9 | 1.7* | | | |
| 5/28 | | 1.1 | 2.0 | 3.8 | - | 2.1 | | | |
| 6/3 | | 0.0 | 0.3 | 1.2 | 0.1 | 1.6 | | 0.6* | |
| 6/10 | | 0.1 | 6.2 | 0.4 | 0.7 | 0.2 | | 0.6 | |
| 6/17 | | 0.0 | 19.7 | 0.2 | 0.6 | 0.9 | | 0.4 | |
| 6/24 | | 2.4 | 31.3 | 1.0 | 0.2 | 0.3 | 0.6* | 2.7 | |
| 7/1 | | 4.6 | 25.3 | 0.2 | 0.4 | 0.1 | 0.0 | 2.7 | |
| 7/8 | | 2.1 | 34.2 | 4.1 | 0.5 | 0.1 | 0.1 | 0.6 | 0.3* |
| 7/15 | | 2.1 | 10.5 | 1.2 | 0.2 | 0.6 | 44.5 | 0.2 | 0.1 |
| 7/22 | | 0.6 | 28.8 | 1.3 | 0.9 | 0.3 | 148 | 0.2 | 0.5 |
| 7/29 | | 0.2 | 12.1 | 0.0 | 0.4 | 1.3 | 16.6 | 0.2 | 0.2 |
| 8/5 | | 0.4 | 24.0 | 0.7 | 0.4 | 1.3 | 1.0 | 0.2 | 0.1 |
| 8/12 | | 0.7 | 21.6 | 2.6 | 1.5 | 2.7 | 0.0 | 0.0 | 0.2 |
| 8/19 | | 2.4 | 10.9 | 2.1 | 1.3 | 0.5 | 1.6 | 0.0 | 0.2 |

continued...

SCAFFOLDS *Fruit Journal*

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NOTE: Every effort has been made to provide correct, complete and up-to-date pesticide recommendations. Nevertheless, changes in pesticide regulations occur constantly, and human errors are possible. These recommendations are not a substitute for pesticide labelling. Please read the label before applying any pesticide.

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