SCAFFOLDS Fruit Journal, Geneva, NY
Volume 26, No. 23
Update on Pest Management and Crop Development
September 5, 2017

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COMING EVENTS

| | 43°F | 50°F |
|---|---|---|
| Current DD* accumulations | | |
| (Geneva 1/1-9/5): | 3015.7 | 2007.1 |
| (Geneva 1/1-9/5/2016): | 3326.8 | 2340.0 |
| (Geneva "Normal"): | 3221.8 | 2231.1 |
| (Geneva 1/1-9/11, predicted): | 3113.7 | 2064.1 |
| (Highland 1/1-9/4): | 3571.0 | 2465.0 |

Upcoming Pest Events – Ranges (Normal +/- Std Dev):

| | | |
|---|---|---|
| American plum borer | | |
| 2nd flight subsides..... | 2927-3353 | 2018-2372 |
| Apple maggot flight subsides ..... | 2772-3258 | 1907-2283 |
| Codling moth 2nd flight subsides | 2846-3462 | 1923-2447 |
| Lesser appleworm | | |
| 2nd flight subsides..... | 2794-3488 | 1918-2422 |
| Lesser peachtree borer | | |
| flight subsides..... | 2996-3446 | 2017-2433 |
| Obliquebanded leafroller | | |
| 2nd flight subsides..... | 3108-3468 | 2126-2448 |

Oriental fruit moth
3rd flight subsides ..... 2928-3412 1978-2310
Peachtree borer flight subsides . 2478-3126 1672-2180
Redbanded leafroller
3rd flight subsides ..... 3124-3436 2142-2422
San Jose scale
2nd flight subsides..... 2673-3419 1813-2429
Spotted tentiform leafminer
3rd gen flight subsides..... 3244-3480 2258-2462
White apple leafhopper
2nd brood adults 1st catch..... 2770-3098 1948-2252
*[all DDs Baskerville-Emin, B.E.]

TRAP CATCHES (Number/trap)
Geneva

| | 8/25 | 8/28 | 8/31 | 9/5 |
|---|---|---|---|---|
| Redbanded Leafroller | 26.0 | 8.5 | 18.0 | 37.5 |
| Spotted Tent. Leafminer | 96.5 | 32.0 | 43.0 | 15.5 |
| Oriental Fruit Moth | 34.5 | 25.0 | 25.0 | 35.0 |
| Codling Moth | 13.5 | 1.0 | 7.0 | 8.0 |
| Lesser Peachtree Borer | 5.5 | 3.5 | 6.5 | 5.5 |
| Peachtree Borer | 0.0 | 0.5 | 0.0 | 1.0 |
| Obliquebanded Leafroller | 2.5 | 1.0 | 3.5 | 7.5 |
| Apple Maggot | 0.0 | 0.0 | 0.0 | 0.0 |

Highland (Peter Jentsch)

| | 8/14 | 8/21 | 8/28 | 9/4 |
|---|---|---|---|---|
| Redbanded Leafroller | 11.5 | 24.0 | 47.0 | 43.0 |
| Spotted Tent. Leafminer | 208.0 | 325.0 | 122.0 | 77.0 |
| Oriental Fruit Moth | 1.5 | 12.0 | 15.5 | 5.5 |
| Lesser Appleworm | 5.0 | 4.5 | 5.0 | 6.5 |
| Obliquebanded Leafroller | 5.0 | 2.0 | 3.0 | 2.5 |
| Codling Moth | 3.5 | 9.0 | 9.5 | 3.5 |
| San Jose Scale | 885.5 | 317.5 | 90.5 | 13.5 |
| Sparganothis Fruitworm | 0.0 | 0.0 | 0.0 | 0.0 |
| Variegated Leafroller | 3.0 | 2.0 | 3.5 | 3.0 |
| Tufted Apple Bud Moth | 0.0 | 0.0 | 0.0 | 3.0 |
| Dogwood Borer | 15.5 | 12.0 | 9.0 | 0.0 |
| Apple Maggot | 2.3 | 1.3 | 0.5 | 0.3 |

**[Section: INSECTS]**

BMSB ALERT

(Peter Jentsch, Entomology, Highland; pjj5@cornell.edu)

**[Box text: ...NO STINKIN' BUGS]**

Traps at the Hudson Valley Research Laboratory in Highland NY have increased dramatically recently, with 13 brown marmorated stink bug (BMSB) adults observed in and on a pyramid trap. In tree fruit blocks where adults or nymphs are found, orchard management for the pest

should be initiated.. In Monroe Co., BMSB nymph captures have increased dramatically since early August, averaging 13 per trap last week. Late peaches are at greatest risk as we move into September. You can view the EDDMaps/BMSB site to obtain trap threshold updates by NYS county. For more details on BMSB management resources, check the Jentsch Lab blog page at: http://blogs.cornell.edu/jentsch/2017/08/29/bmsb-adult-trap-captures-above-threshold-hvrl-29th-aug-2017/

LAW OF AVERAGES

(Art Agnello, Entomology, Geneva; ama4@cornell.edu)

**[Box text: DIFFERING BY DEGREE]**

This season could not have been more different than last year in weather patterns and pest occurrence, and insect trap numbers are only one index of the variability inherent in New York orchard systems from one year to the next. We'll have to wait a bit to see how crop size and quality was affected by the 2017 growing conditions, but for now at least, we do have the pest numbers from pheromone traps in our NYSAES research orchards. Following are summarized comparative listings of some of the pest events (for the "usual" species) and crop development stages that occurred this season (in Geneva) with calendar

and degree-day means; we used to call them "normal" values, but somehow the term doesn't seem appropriate, as most years tend to be anything but normal. The values and dates are given +/- one standard deviation; i.e., events should occur within the stated range approximately 7 years out of 10.

| | DATE | | DEGREE DAYS(BASE 43 °F) | |
|---|---|---|---|---|
| PEST EVENT | Mean (+/-days) | 2017 | Mean (+/-DD) | 2017 |
| APPLE MAGGOT | | | | |
| 1st catch | 2-Jul(+/-10) | 21-Jul | 1458(+/-232) | 1950 |
| Peak | 5-Aug(+/-10) | 14-Aug | 2384(+/-258) | 2556 |
| BLACK STEM BORER | | | | |
| 1st catch | 2-May(+/-10) | 3-May | 312(+/-62) | 267 |
| 1st flight peak | 1-Jun(+/-12) | 18-May | 769(+/-172) | 793 |
| 1st flight subsides | 14-Jun(+/-12) | 7-Jun | 1027(+/-221) | 945 |
| CODLING MOTH | | | | |
| 1st catch | 18-May(+/-7) | 19-May | 482(+/-84) | 514 |
| 1st flight peak | 3-Jun(+/-12) | 19-Jun | 777(+/-214) | 1131 |
| 1st flight subsides | 6-Jul(+/-13) | 17-Jul | 1555(+/-279) | 1834 |
| 2nd flight start | 20-Jul(+/-14) | 21-Jul | 1906(+/-323) | 1950 |
| 2nd flight peak | 6-Aug(+/-14) | 3-Aug | 2319(+/-365) | 2280 |

DOGWOOD BORER

| | | | | |
|---|---|---|---|---|
| 1st catch | 12-Jun(+/-10) | 8-Jun | 987(+/-240) | 828 |
| Peak | 8-Jul(+/-10) | 30-Jun | 1631(+/-218) | 1378 |

GREEN FRUITWORM

| | | | | |
|---|---|---|---|---|
| 1st catch | 5-Apr(+/-7) | 3-Apr | 99(+/-49) | 104 |
| Peak | 18-Apr(+/-8) | 1-May | 164(+/-68) | 353 |
| Flight subsides | 9-May(+/-10) | 22-May | 373(+/-104) | 556 |

LESSER APPLEWORM

| | | | | |
|---|---|---|---|---|
| 1st catch | 13-May(+/-12) | NA | 420(+/-144) | NA |
| 1st flight peak | 22-May(+/-13) | NA | 569(+/-205) | NA |
| 1st flight subsides | 25-Jun(+/-11) | NA | 1270(+/-268) | NA |
| 2nd flight begins | 14-Jul(+/-12) | NA | 1768(+/-339) | NA |

LESSER PEACHTREE BORER

| | | | | |
|---|---|---|---|---|
| 1st catch | 24-May(+/-8) | 19-May | 575(+/-96) | 514 |
| Peak flight | 27-Jun(+/-19) | 19-Jun | 1310(+/-457) | 1131 |

OBLIQUEBANDED LEAFROLLER

| | | | | |
|---|---|---|---|---|
| 1st catch | 8-Jun(+/-7) | 12-Jun | 889(+/-92) | 937 |
| 1st flight peak | 16-Jun(+/-7) | 16-Jun | 1031(+/-187) | 1034 |
| 1st flight subsides | 16-Jul(+/-7) | 24-Jul | 1839(+/-209) | 2035 |

| | | | | |
|---|---|---|---|---|
| 2nd flight begins | 7-Aug(+/-9) | 28-Jul | 2424(+/-204) | 2127 |

ORIENTAL FRUIT MOTH

| | | | | |
|---|---|---|---|---|
| 1st catch | 2-May(+/-8) | 24-Apr | 273(+/-50) | 262 |
| 1st flight peak | 14-May(+/-11) | 19-May | 434(+/-102) | 514 |
| 1st flight subsides | 12-Jun(+/-8) | 12-Jun | 966(+/-137) | 937 |
| 2nd flight begins | 29-Jun(+/-5) | 19-Jun | 1369(+/-125) | 1131 |
| 2nd flight peak | 11-Jul(+/-9) | 14-Jul | 1703(+/-248) | 1752 |
| 2nd flight subsides | 31-Jul(+/-7) | 31-Jul | 2275(+/-249) | 2192 |
| 3rd flight begins | 10-Aug(+/-9) | 3-Aug | 2532(+/-278) | 2280 |

PANDEMIS LEAFROLLER

| | | | | |
|---|---|---|---|---|
| 1st catch | 5-Jun(+/-6) | NA | 824(+/-68) | NA |
| Peak | 14-Jun(+/-8) | NA | 1039(+/-149) | NA |
| Flight subsides | 5-Jul(+/-6) | NA | 1567(+/-126) | NA |

PEACHTREE BORER

| | | | | |
|---|---|---|---|---|
| 1st catch | 16-Jun(+/-11) | 26-May | 1050(+/-269) | 618 |
| Peak flight | 5-Jul(+/-20) | 19-Jun | 1516(+/-488) | 1131 |

REDBANDED LEAFROLLER

| | | | | |
|---|---|---|---|---|
| 1st catch | 16-Apr(+/-9) | 10-Apr | 145(+/-31) | 138 |
| 1st flight peak | 3-May(+/-10) | 1-May | 304(+/-74) | 353 |

| | | | | |
|---|---|---|---|---|
| 1st flight subsides | 1-Jun(+/-8) | 5-Jun | 748(+/-143) | 783 |
| 2nd flight begins | 29-Jun(+/-6) | 23-Jun | 1381(+/-176) | 1224 |
| 2nd flight peak | 14-Jul(+/-7) | 7-Jul | 1752(+/-223) | 1565 |
| 2nd flight subsides | 8-Aug(+/-11) | 10-Aug | 2436(+/-271) | 2453 |
| 3rd flight begins | 19-Aug(+/-10) | 14-Aug | 2734(+/-216) | 2556 |

SPOTTED TENTIFORM LEAFMINER

| | | | | |
|---|---|---|---|---|
| 1st catch | 19-Apr(+/-9) | 20-Apr | 168(+/-50) | 237 |
| 1st flight peak | 7-May(+/-8) | 1-May | 338(+/-69) | 353 |
| 1st flight subsides | 5-Jun(+/-9) | 8-Jun | 812(+/-134) | 828 |
| 2nd flight begins | 16-Jun(+/-7) | 12-Jun | 1070(+/-88) | 937 |
| 2nd flight peak | 7-Jul(+/-8) | 7-Jul | 1585(+/-198) | 1565 |
| 2nd flight subsides | 28-Jul(+/-8) | 24-Jul | 2176(+/-178) | 2035 |
| 3rd flight begins | 7-Aug(+/-8) | 28-Jul | 2434(+/-195) | 2127 |
| 3rd flight peak | 19-Aug(+/-9) | 14-Aug | 2774(+/-221) | 2556 |

| **CROP** | DATE | | DEGREE DAYS (BASE 43°F) | |
|---|---|---|---|---|
| PHENOLOGY | Mean (+/-days) | 2017 | Mean (+/-DD) | 2017 |
| APPLE (MCINTOSH) | | | | |
| Silver tip | 7-Apr(+/-8) | 27-Mar | 85(+/-22) | 90 |
| Green tip | 12-Apr(+/-8) | 10-Apr | 122(+/-23) | 138 |
| Half-inch green | 20-Apr(+/-8) | 17-Apr | 175(+/-26) | 224 |
| Tight cluster | 27-Apr(+/-8) | 20-Apr | 232(+/-25) | 237 |
| Pink | 3-May(+/-7) | 27-Apr | 291(+/-24) | 298 |

| | | | | |
|---|---|---|---|---|
| Bloom | 10-May(+/-6) | 4-May | 380(+/-35) | 380 |
| Petal fall | 17-May(+/-6) | 8-May | 481(+/-42) | 389 |
| Fruit set | 22-May(+/-6) | 22-May | 552(+/-44) | 556 |

APPLE (RED DELICIOUS)

| | | | | |
|---|---|---|---|---|
| Silver tip | 8-Apr(+/-8) | 27-Mar | 96(+/-16) | 90 |
| Green tip | 13-Apr(+/-9) | 13-Apr | 137(+/-26) | 178 |
| Half-inch green | 20-Apr(+/-10) | 17-Apr | 191(+/-25) | 224 |
| Tight cluster | 26-Apr(+/-10) | 24-Apr | 248(+/-28) | 262 |
| Pink | 5-May(+/-8) | 1-May | 327(+/-38) | 353 |
| King bloom | 8-May(+/-8) | 4-May | 376(+/-55) | 380 |
| Bloom | 13-May(+/-7) | 8-May | 420(+/-45) | 389 |
| Petal fall | 20-May(+/-7) | 15-May | 525(+/-67) | 430 |
| Fruit set | 23-May(+/-6) | 19-May | 567(+/-51) | 514 |

APPLE (EMPIRE)

| | | | | |
|---|---|---|---|---|
| Silver tip | 7-Apr(+/-8) | 30-Mar | 90(+/-11) | 100 |
| Green tip | 15-Apr(+/-4) | 13-Apr | 119(+/-25) | 178 |
| Half-inch green | 18-Apr(+/-10) | 17-Apr | 171(+/-30) | 224 |
| Tight cluster | 24-Apr(+/-11) | 24-Apr | 225(+/-28) | 262 |
| Pink | 30-Apr(+/-9) | 27-Apr | 287(+/-26) | 298 |
| King bloom | 3-May(+/-7) | 1-May | 335(+/-23) | 353 |
| Bloom | 9-May(+/-6) | 4-May | 382(+/-30) | 380 |

| | | | | |
|---|---|---|---|---|
| Petal fall | 18-May(+/-6) | 15-May | 483(+/-39) | 430 |
| Fruit set | 22-May(+/-6) | 19-May | 539(+/-39) | 514 |
| | | | | |
| PEACH | | | | |
| Swollen bud | 12-Apr(+/-8) | NA | 113(+/-29) | NA |
| Bud burst | 18-Apr(+/-11) | NA | 157(+/-33) | NA |
| Half-inch green | 26-Apr(+/-8) | NA | 196(+/-24) | NA |
| Pink | 26-Apr(+/-10) | 17-Apr | 228(+/-29) | 224 |
| Bloom | 2-May(+/-9) | 24-Apr | 290(+/-35) | 262 |
| Petal fall | 12-May(+/-8) | 27-Apr | 411(+/-54) | 298 |
| | | | | |
| PEAR | | | | |
| Swollen bud | 8-Apr(+/-9) | 3-Apr | 105(+/-33) | 104 |
| Bud burst | 18-Apr(+/-8) | 13-Apr | 160(+/-28) | 178 |
| Green cluster | 26-Apr(+/-9) | 24-Apr | 233(+/-22) | 262 |
| White bud | 1-May(+/-9) | 27-Apr | 280(+/-29) | 298 |
| Bloom | 6-May(+/-8) | 1-May | 340(+/-38) | 353 |
| Petal fall | 13-May(+/-8) | 8-May | 420(+/-37) | 389 |
| Fruit set | 17-May(+/-8) | 15-May | 479(+/-54) | 430 |
| | | | | |
| PLUM | | | | |
| Swollen bud | 11-Apr(+/-12) | NA | 129(+/-43) | NA |
| Bud burst | 19-Apr(+/-9) | 17-Apr | 168(+/-27) | 224 |

| | | | | |
|---|---|---|---|---|
| Green cluster | 28-Apr(+/-8) | 24-Apr | 226(+/-41) | 262 |
| White bud | 26-Apr(+/-12) | NA | 238(+/-32) | NA |
| Bloom | 2-May(+/-11) | 27-Apr | 298(+/-40) | 298 |
| Petal fall | 10-May(+/-9) | 4-May | 391(+/-38) | 380 |
| Fruit set | 16-May(+/-9) | 8-May | 462(+/-44) | 389 |

SWEET CHERRY

| | | | | |
|---|---|---|---|---|
| Swollen bud | 10-Apr(+/-8) | NA | 106(+/-28) | NA |
| Bud burst | 19-Apr(+/-9) | 18-Apr | 166(+/-25) | 220 |
| White bud | 27-Apr(+/-8) | 20-Apr | 223(+/-25) | 237 |
| Bloom | 2-May(+/-8) | 24-Apr | 278(+/-23) | 262 |
| Petal fall | 10-May(+/-6) | 4-May | 389(+/-31) | 380 |
| Fruit set | 14-May(+/-6) | 11-May | 435(+/-44) | 398 |

TART CHERRY

| | | | | |
|---|---|---|---|---|
| Swollen bud | 11-Apr(+/-8) | NA | 114(+/-41) | NA |
| Bud burst | 23-Apr(+/-6) | 17-Apr | 198(+/-36) | 224 |
| White bud | 1-May(+/-7) | 20-Apr | 261(+/-23) | 237 |
| Bloom | 7-May(+/-6) | 27-Apr | 341(+/-40) | 298 |
| Petal fall | 16-May(+/-6) | 8-May | 443(+/-43) | 389 |
| Fruit set | 19-May(+/-8) | 15-May | 503(+/-61) | 430 |

CAST OF THOUSANDS

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**[Box Text: STICKY SIDE UP]**

With this issue, Scaffolds ceases publication for the season; we expect to start up again next March. In March, 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 26, 2017 of Scaffolds Fruit Journal.

KEY = GFW - Green Fruitworm; RBLR - Redbanded Leafroller; STLM - Spotted Tentiform Leafminer; OFM - Oriental Fruit Moth (in apples); CM - Codling Moth; LPTB - Lesser Peachtree Borer (in peach); DWB - Dogwood Borer; OBLR - Obliquebanded Leafroller; PTB - Peachtree Borer; AM - Apple Maggot; * - first catch of the generation.

Geneva Pest Trapping Results - Avg/Trap

| DATE | GFW | RBLR | STLM | OFM | CM | LPTB | OBLR | DWB | PTB | AM |
|---|---|---|---|---|---|---|---|---|---|---|
| 3/30 | 0.0 | | | | | | | | | |
| 4/3 | 0.5* | 0.0 | | | | | | | | |
| 4/10 | 1.0 | 0.5* | | | | | | | | |
| 4/13 | 0.5 | 13.5 | | | | | | | | |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| 4/17 | 1.0 | 24.0 | 0.0 | | | | | | | |
| 4/20 | 0.5 | 18.5 | 1.5* | 0.0 | | | | | | |
| 4/24 | 0.0 | 35.5 | 25.5 | 13.5* | | | | | | |
| 4/27 | 0.0 | 57.0 | 8.0 | 0.5 | | | | | | |
| 5/1 | 5.0 | 105.5 | 89.5 | 30.5 | | | | | | |
| 5/4 | 0.5 | 9.0 | 2.5 | 0.0 | | | | | | |
| 5/8 | 0.0 | 5.0 | 2.5 | 0.0 | | | | | | |
| 5/11 | 0.0 | 3.5 | 2.0 | 0.5 | | | | | | |
| 5/15 | 0.5 | 28.5 | 25.0 | 11.0 | 0.0 | 0.0 | | | | |
| 5/19 | 0.5 | 34.5 | 22.5 | 81.0 | 8.0* | 2.0* | | | | |
| 5/22 | 0.0 | 4.0 | 5.5 | 8.0 | 10.5 | 0.5 | | | 0.0 | |
| 5/26 | 0.0 | 4.0 | 4.5 | 14.5 | 26.0 | 4.5 | | | 0.5* | |
| 5/30 | | 2.5 | 1.0 | 5.5 | 15.5 | 7.0 | | | 0.5 | |
| 6/2 | | 1.0 | 0.5 | 5.5 | 10.5 | 0.0 | | | 2.0 | |
| 6/5 | | 0.0 | 0.5 | 3.5 | 6.5 | 0.0 | | 0.0 | 0.0 | |
| 6/8 | | 0.0 | 0.0 | 3.0 | 4.56 | 3.0 | 0.0 | 1.5* | 1.0 | |
| 6/12 | | 0.0 | 0.5* | 3.0 | 14.0 | - | 25.0* | 1.0 | - | |
| 6/16 | | 0.5 | 1.5 | 4.0 | 36.5 | 8.0 | 32.0 | 0.5 | 15.5 | |
| 6/19 | | 0.0 | 50.0 | 12.0* | 48.0 | 18.5 | 15.0 | 2.0 | 17.5 | |
| 6/23 | | 2.5* | 125.0 | 19.5 | 31.5 | 10.5 | 29.5 | 5.5 | 17.5 | |
| 6/26 | | 2.5 | 107.0 | 47.5 | 9.5 | 14.0 | 16.5 | 12.0 | 15.0 | |
| 6/30 | | 31.5 | 270.0 | 35.5 | 13.5 | 4.0 | 7.0 | 13.0 | 16.5 | |
| 7/7 | | 53.0 | 282.0 | 43.5 | 12.5 | - | 6.0 | 4.0 | - | |
| 7/10 | | 28.5 | 184.0 | 25.5 | 2.0 | 10.5 | 7.0 | 5.0 | 8.5 | |
| 7/14 | | 16.0 | 144.0 | 48.5 | 3.0 | 2.5 | 7.5 | 7.0 | 6.0 | |
| 7/17 | | 6.0 | 158.0 | 5.5 | 1.5 | 4.0 | 5.0 | 1.5 | 4.5 | 0.0 |
| 7/21 | | 1.0 | 55.5 | 6.5 | 7.5* | 3.5 | 1.0 | 4.5 | 1.5 | 1.0 |
| 7/24 | | 0.5 | 42.0 | 6.0 | 10.5 | 1.5 | 0.5 | 2.0 | 1.0 | 0.0 |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 7/28 | 1.5 | 93.5* | 4.0 | 6.5 | 0.5 | 1.0* | 1.5 | 2.5 | 0.0 |
| 7/31 | 1.5 | 109.5 | 2.0 | 8.0 | 23.5 | 3.0 | 2.0 | 0.0 | 0.0 |
| 8/3 | 1.0 | 115.0 | 4.5* | 37.5 | 0.0 | 1.5 | 0.0 | 10.0 | 2.7 |
| 8/7 | 1.5 | 126.5 | 19.5 | 24.5 | 2.0 | 2.5 | 0.0 | 5.0 | 1.3 |
| 8/10 | 1.0 | 140.5 | 11.5 | 13.0 | 1.0 | 4.0 | | 1.0 | 0.7 |
| 8/14 | 3.0* | 325.5 | 54.5 | 34.0 | 7.0 | 9.0 | | 2.0 | 5.3 |
| 8/17 | 5.5 | 128.0 | 21.5 | 9.0 | 5.0 | 2.0 | | 1.5 | 2.3 |
| 8/21 | 25.0 | 171.0 | 21.5 | 31.5 | 10.5 | 4.5 | | 1.5 | 1.0 |
| 8/25 | 26.0 | 96.5 | 34.5 | 13.5 | 5.5 | 2.5 | | 0.0 | 0.0 |
| 8/28 | 8.5 | 32.0 | 25.0 | 1.0 | 3.5 | 1.0 | | 0.5 | 0.0 |
| 8/31 | 18.0 | 43.0 | 25.0 | 7.0 | 6.5 | 3.5 | | 0.0 | 0.0 |
| | | | | | | | | | |
| 9/5 | 37.5 | 15.5 | 35.0 | 8.0 | 5.5 | 7.5 | | 1.0 | 0.0 |

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; SJS - San Jose scale; OBLR - Obliquebanded Leafroller; SPAR - Sparganothis fruitworm; VLR - Variegated leafroller; TABM - Tufted apple bud moth; DWB - Dogwood borer; AM - Apple Maggot; * - first catch of the generation.

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

| DATE | GFW | RBLR | STLM | OFM | LAW | CM | SJS | OBLR | SPAR | VLR | TABM | DWB | AM |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/3 | 0.0 | 0.0 | | | | | | | | | | | |
| 4/10 | 1.0* | 10.0* | | | 0.0 | 0.0 | | | | | | | |

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4/17 | 0.0 | 98.0 | 0.0 | 2.0* | 5.0* | | | | | | | | |
| 4/24 | 0.0 | 103.5 | 75.5 | 0.5 | 8.5 | | | | | | | | |
| 5/1 | 0.0 | 109.5 | 154.5 | 47.0 | 93.5 | | | | | | | | |
| 5/8 | 0.0 | 54.0 | 16.0 | 9.5 | 64.5 | 0.0 | | | | | | | |
| 5/15 | 0.0 | 30.5 | 10.0 | 9.5 | 29.0 | 4.0* | 0.0 | | | | | | |
| 5/22 | 0.0 | 22.0 | 2.5 | 9.0 | 5.5 | 49.5 | 30.5* | 0.0 | | | | | |
| 5/30 | | 1.5 | 0.0 | 3.5 | 2.0 | 48.5 | 0.0 | 0.5* | 0.0 | 0.0 | 0.0 | | |
| 6/5 | | 0.0 | 1.0 | 3.0 | 11.5 | 13.0 | 1.0 | 4.5 | 1.0* | 4.0* | 3.5* | | |
| 6/12 | | 0.0 | 40.5* | 3.5 | 11.2 | 27.0 | 0.0 | 13.0 | 2.0 | 6.0 | 12.0 | 0.0 | |
| 6/19 | | 2.0* | 173.5 | 2.0 | 2.5 | 36.0 | 0.0 | 20.0 | 0.0 | 1.0 | 13.0 | 1.0* | |
| 6/26 | | 14.5 | 168.0 | 2.0 | 6.0 | 29.5 | 0.0 | 18.5 | 1.0 | 2.0 | 20.0 | 1.5 | |
| 7/3 | | 16.0 | 177.0 | 1.5 | 20.0 | 6.0 | 0.0 | 9.5 | 0.0 | 2.0 | 7.0 | 4.0 | |
| 7/10 | | 22.0 | 271.5 | 4.5 | 21.0 | 2.0 | 0.5* | 16.5 | 1.5 | 0.0 | 1.5 | 3.5 | 0.0 |
| 7/17 | | 15.5 | 193.5 | 3.5 | 0.0 | 10.0* | 53.0 | 4.5 | 0.0 | 0.0 | 0.0 | 0.5 | 4.3* |
| 7/24 | | 11.5 | 180.5 | 6.5 | 14.5 | 16.5 | 1597 | 1.5 | 1.0 | 1.5 | 1.5 | 24.5 | 3.3 |
| 7/31 | | 14.5 | 188.0 | 6.5 | 12.5 | 42.5 | 598.0 | 6.0* | 1.0 | 0.0 | 2.5 | 16.0 | 2.8 |
| 8/7 | | 10.0 | 198.5 | 2.5 | 13.0 | 16.5 | 227.0 | 3.5 | 1.0 | 2.0 | 0.0 | 29.5 | 1.5 |
| 8/14 | | 11.5 | 208.0 | 1.5 | 5.0 | 3.5 | 885.5 | 5.0 | 0.0 | 3.0 | 0.0 | 15.5 | 2.3 |
| 8/21 | | 24.0 | 325.0 | 12.0 | 4.5 | 9.0 | 317.5 | 2.0 | 0.0 | 2.0 | 0.0 | 12.0 | 1.3 |
| 8/28 | | 47.0 | 122.0 | 15.5 | 5.0 | 9.5 | 90.5 | 3.0 | 0.0 | 3.5 | 0.0 | 9.0 | 0.5 |
| 9/4 | | 43.0 | 77.0 | 5.5 | 6.5 | 3.5 | 13.5 | 2.5 | 0.0 | 3.0 | 3.0 | 0.0 | 0.3 |

## [Section: GENERAL INFO]

POSITION AVAILABLE WITH LAKE ONTARIO FRUIT PROGRAM

The Lake Ontario Fruit (LOF) Program is looking to fill a full time position on their team: Production Economics and Business Management Educator (Extension Support Specialist II), who will be based in Newark, NY. This is a key position in Cornell Cooperative Extension's fruit outreach program; LOF serves commercial fruit producers in Wayne,

Monroe, Orleans, Niagara, and Oswego counties along the shore of Lake Ontario. In these counties, there are 259 apple farms growing over 26,000 acreas. The fruit industry of the LOF region is growing, vibrant, and continues to invest in modern technology to compete in world markets. For more information and to apply, see the official announcement at:
https://cornell.wd1.myworkdayjobs.com/en-US/CornellCareerPage/job/New-York-State-Other/Production-Economics-and-Business-Management-Educator--Extension-Support-Specialist-II---Cooperative-Extension---Newark--New-York_WDR-00010019-2

NEWA SURVEY
(Julie Carroll, IPM, Geneva; jec3@cornell.edu)

The Network for Environment and Weather Applications (NEWA) wants you to take our online survey — it'll only take about 10 minutes of your time.
**Take the survey now:**
https://cornell.qualtrics.com/jfe/form/SV_0GRlhOIDI5HwbR3

Whether you've used NEWA's online pest forecast models for years or have never used NEWA at all, we will benefit from your responses. Why? Because we are

building a new website at newa.cornell.edu, one that'll be as easy to use on your smart phone as on your desktop, and we want to build it *the way you want it to be*.

NEWA is an online agricultural decision support system that uses real time weather data, streamed over the internet from 573 weather stations throughout the Northeast, Midwest and mid-Atlantic. NEWA provides insect and plant disease pest management tools, degree days, and weather information for growers, consultants, Extension educators, faculty, and others.

NEWA models and resources are available free of charge, and are used to make informed localized crop management decisions. The NEWA website will be upgraded soon and we want to know what users', new and old, want and need out of the new website.

All responses are anonymous and confidential and will not be shared with any outside group. Thank you for participating!

CORNELL FRUIT PEST CONTROL FIELD DAYS

The N.Y. Fruit Pest Control Field Days will take place during Labor Day week on Sept. 7-8 this year, with the Geneva portion taking place on Thursday Sept. 7, and

the Hudson Valley installment on the second day, Friday, Sept. 8 (yes, that's a day later in the week than we usually hold it, but we've decided to push it back to accommodate some of our presenters' teaching schedules). Activities will commence in Geneva on the 7th, with registration, coffee, etc., in the lobby of Barton Lab at 8:30 am. The tour will proceed to the orchards to view plots and preliminary data from field trials involving new fungicides, bactericides, miticides, and insecticides on tree fruits and grapes. It is anticipated that the tour of field plots will be completed before noon. On the 8th, participants will register at the Hudson Valley Laboratory starting at 8:30, after which they will view and discuss results from field trials on apples and other fruit crops. No pre-registration is required for either event.

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This material is based upon work supported by Smith Lever funds from the Cooperative State Research, Education, and Extension Service, U.S. Department of Agriculture. Any opinions, findings, conclusions, or recommendations expressed in this publication are those of the author(s) and do not necessarily reflect the view of the U.S. Department of Agriculture.

Scaffolds is published weekly from March to September by Cornell University -- NYS Agricultural Experiment

Station (Geneva), and Ithaca -- with the assistance of Cornell Cooperative Extension. New York field reports welcomed. Send submissions by 2 p.m. Monday to:

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