### 2011 Hudson Valley Lab Scouting Report
NYSAES Entomology Dept., Highland, NY

<table>
<thead>
<tr>
<th>Date</th>
<th>Baskerville-Emin (BE) DD Accumulations (9 am / NEWA)</th>
<th>Field Observations / Trap Catches / Models</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td><strong>43 F</strong></td>
<td><strong>50 F</strong></td>
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<tr>
<td>3/1</td>
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<tr>
<td>3/7</td>
<td>28.6</td>
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<td>3/14</td>
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<td>3/21</td>
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<td>18.8</td>
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<td>3/28</td>
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<td>18.8</td>
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<td>3/31</td>
<td>56.5</td>
<td>18.8</td>
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</tbody>
</table>
Degree day accumulations

Apple – McIntosh, Ginger gold – Silver Tip
Apple – Red Delicious – Dormant
Pear – Bartlett – Swollen bud
Peach, Cherry, Apricot, Early Plum – swollen bud

0.0  Psylla eggs / bud ( 0  eggs / 20 buds / 6 trees)
0.3  Spotted Green Fruitworm (SGFW) ( 2 / 1 )
0.0  Red Banded leaf roller (RBLR) ( / )
0.0  Spotted Tentiform Leafminer (STLM) ( / )
0.0  Oriental Fruit Moth (OFM) ( 0 / 0 )
19.7  SJS DD$_{50}$ from March 1 (500DD)

0.36”  Weekly Rainfall
4.5”  Total Rainfall from 1 March

<table>
<thead>
<tr>
<th>43 F</th>
<th>50 F</th>
<th># / trap / day (pheromone trap)</th>
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<tbody>
<tr>
<td>4/11</td>
<td>94.8</td>
<td>28.4</td>
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</tbody>
</table>

 DD Accumulations 2011

0.2  Psylla eggs / bud (20 eggs / 100 buds / 8 trees)
0.2  Spotted Green Fruitworm (SGFW) (1 / 2 )
0.0  Spotted Tentiform Leafminer (STLM) (0 / 0 )
0.5  Red Banded leaf roller (RBLR) (6 / 1 ) **First flt.**
0.0  Oriental Fruit Moth (OFM) (0 / 0 )
0.0  Lesser apple worm (LAW) (0 / 0 )
0.0  Grape berry moth (GBM) (0 / 0 )

Apple – Ginger Gold – ¼” green
Apple – McIntosh – ¼” green
Apple – Delicious – Early green tip
Apple – Golden Delicious – Early green tip
Pear – Bartlett / Bosc – Swollen bud
Peaches (Red Haven - Early) – Swollen bud
Cherry (Sweetheart - Early) – Swollen bud
Plum (Italian / Stanley)– Swollen bud

20.0  OFM DD from March 1 (1st gen larva 400-500 DD$_{45}$)
28.4  SJS DD from March 1 (crawler emergence 500 DD$_{50}$)

0.5”  Weekly Rainfall
0.85”  Total Rainfall from 1 April
<table>
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<th>Date</th>
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<td>43 F  50 F</td>
<td>158.7  61.0</td>
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<td></td>
<td></td>
<td>DD Accumulations  2011</td>
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<tr>
<td></td>
<td></td>
<td>1.0 Psylla eggs / bud ( 96 eggs / 100 buds / 4 trees)</td>
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<td></td>
<td></td>
<td>0.3 Spotted Green Fruitworm (SGFW) ( 3 / 1 )</td>
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<td>0.8 Spotted Tentiform Leafminer (STLM) ( 3 / 8 ) <strong>First flt.</strong></td>
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<td>3.9 Red Banded leafroller (RBLR) ( 51 / 4 )</td>
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<td></td>
<td></td>
<td>0.0 Oriental Fruit Moth (OFM) ( 0 / 0 )</td>
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<td></td>
<td></td>
<td>0.0 Lesser apple worm (LAW) ( 0 / 0 )</td>
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<td>0.0 Grape berry moth (GBM) ( 0 / 0 )</td>
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<td>&lt;0.1 Brown Marmorated Stink Bug (BMSB) ( 1 / 0 ) <strong>First flt.</strong></td>
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<tr>
<td></td>
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<td>Apple – Ginger Gold – ½ ” green</td>
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<tr>
<td></td>
<td></td>
<td>Apple – McIntosh – ½ ” green</td>
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<tr>
<td></td>
<td></td>
<td>Apple – Delicious – ½ ” green</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Apple – Golden Delicious – ¼” green</td>
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<td></td>
<td></td>
<td>Pear – Bartlett / Bosc – bud burst</td>
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<td>Apricot (Early) – early bloom</td>
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<td>Peaches (Red Haven - Early) – ½” green tip</td>
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<tr>
<td></td>
<td></td>
<td>Peaches (Late) – green tip</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Cherry (Sweetheart - Early) – bud burst</td>
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<td></td>
<td></td>
<td>Plum (Italian / Stanley) – green tip</td>
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<td></td>
<td>77.0 OFM DD from March 1 (1st gen larva 400-500 DD₄₅)</td>
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<td>61.0 SJS DD from March 1 (crawler emergence 500 DD₅₀)</td>
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<td>2.59” Weekly Rainfall</td>
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<td>3.44” Total Rainfall from 1 April</td>
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</tbody>
</table>


<table>
<thead>
<tr>
<th>Date</th>
<th>DD Accumulations 2011 (from 1 January)</th>
<th>Psylla eggs / bud (104 eggs / 100 buds / 4 trees)</th>
<th>Psylla nymph / bud (1 nymph / 100 buds / 4 trees)</th>
<th>Spotted Green Fruitworm (SGFW) (0 / 0)</th>
<th>Spotted Tentiform Leafminer (STLM) (48 / 103)</th>
<th>Red Banded leafroller (RBLR) (56 / 10)</th>
<th>Oriental Fruit Moth (OFM) (0 / 0)</th>
<th>Lesser apple worm (LAW) (0 / 0)</th>
<th>Grape berry moth (GBM) (0 / 0)</th>
<th>Brwon Marmorated Stink Bug (BMSB) (0 / 0)</th>
</tr>
</thead>
<tbody>
<tr>
<td>4/25</td>
<td>DD Accumulations 2011 (from 1 January)</td>
<td>Psylla eggs / bud (104 eggs / 100 buds / 4 trees)</td>
<td>Psylla nymph / bud (1 nymph / 100 buds / 4 trees)</td>
<td>Spotted Green Fruitworm (SGFW) (0 / 0)</td>
<td>Spotted Tentiform Leafminer (STLM) (48 / 103)</td>
<td>Red Banded leafroller (RBLR) (56 / 10)</td>
<td>Oriental Fruit Moth (OFM) (0 / 0)</td>
<td>Lesser apple worm (LAW) (0 / 0)</td>
<td>Grape berry moth (GBM) (0 / 0)</td>
<td>Brwon Marmorated Stink Bug (BMSB) (0 / 0)</td>
</tr>
<tr>
<td>43 F</td>
<td>50 F</td>
<td># / trap / day (pheromone trap)</td>
<td>4/25</td>
<td>201.0</td>
<td>79.2</td>
<td>OFM DD from March 1 (1st gen larva 400-500 DD₅₀)</td>
<td>SJS DD from March 1 (crawler emergence 500 DD₅₀)</td>
<td>Weekly Rainfall</td>
<td>Total Rainfall from 1 April</td>
<td></td>
</tr>
</tbody>
</table>
43 F  
50 F  

# / trap / day (pheromone trap)

5/2 324.0 156.7 DD Accumulations 2011 (from 1 January)

2.3 Psylla eggs / bud (114 eggs / 50 buds / 4 trees)
0.3 Psylla nymph / bud (16 nymph / 50 buds / 4 trees)
0.6 Spotted Green Fruitworm (SGFW) (7 / 1)
37.5 Spotted Tentiform Leafminer (STLM) (244 / 281)
10.6 Red Banded leafroller (RBLR) (123 / 26)
5.6 Oriental Fruit Moth (OFM) (26 / 53) First flt.
0.0 Lesser apple worm (LAW) (0 / 0)
0.0 Grape berry moth (GBM) (0 / 0)
<0.1 Brown Marmorated Stink Bug (BMSB) (1 / 0)

Apple – Ginger Gold – full bloom
Apple – McIntosh – early bloom (1%)
Apple – Delicious – late pink
Apple – Golden Delicious – late pink
Pear – Bartlett / Bosc – full bloom
Apricot (Early) – late petal fall / fruit set
Peaches (Red Haven - Early) – bloom
Peaches (Late) – bloom
Cherry (Sweetheart - Early) – full bloom
Plum (Italian / Stanley) – bloom

212.0 OFM DD from March 1 (1st gen larva 400-500 DD<sub>45</sub>)
324.0 STLM DD from 1st obser, (1st gen larva 472 DD<sub>43</sub> +/- 129)
156.7 SJS DD from March 1 (crawler emergence 500 DD<sub>50</sub>)

0.91” Weekly Rainfall
5.54” Total Rainfall from 1 April
# / trap / day (pheromone trap)

<table>
<thead>
<tr>
<th>43 F</th>
<th>50 F</th>
<th>DD Accumulations 2011 (from 1 January)</th>
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<tbody>
<tr>
<td>5/9</td>
<td>415.0</td>
<td>205.7</td>
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</tbody>
</table>

- 0.7 Psylla eggs / bud (68 eggs / 100 buds / 4 trees)
- 0.5 Psylla nymph / bud (50 nymph / 100 buds / 4 trees)
- 0.1 Spotted Green Fruitworm (SGFW) (1 / 1)
- 30.6 Spotted Tentiform Leafminer (STLM) (204 / 224)
- 5.9 Red Banded leafroller (RBLR) (72 / 11)
- 21.6 Oriental Fruit Moth (OFM) (124 / 179)
- 0.0 Lesser apple worm (LAW) (0 / 0)
- 0.0 Grape berry moth (GBM) (0 / 0)
- 0.0 Codling moth (CM) (0 / 0)
- 0.0 Brown Marmorated Stink Bug (BMSB) (0 / 0)

- Apple – Ginger Gold – late bloom
- Apple – McIntosh – full bloom
- Apple – Delicious – early bloom
- Apple – Golden Delicious – early bloom
- Pear – Bartlett – 50% petal fall
- Pear – Bosc – 80% petal fall
- Apricot (Early) – fruit set shucks on
- Peaches (Red Haven – Early) – fruit set shucks on
- Peaches (Late) – fruit set shucks on
- Cherry (Sweetheart – Early) – fruit set
- Plum (Italian / Stanley) – early petal fall

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289.0 OFM DD from March 1 (1st gen larva 400-500 DD<sub>45</sub>)

415.0 STLM DD from 1st obser, (1st gen larva 472 DD<sub>43</sub> +/- 129)

205.7 SJS DD from March 1 (crawler emergence 500 DD<sub>50</sub>)

- 0.9” Weekly Rainfall
- 0.9” Total Rainfall from 1 May
- 10.6” Total Rainfall from 1 March
<table>
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<th>43 F</th>
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<th># / trap / day (pheromone trap)</th>
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<td>526.0</td>
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<td>1.4</td>
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<td>Psylla eggs / bud (139 eggs / 100 buds / 4 trees)</td>
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<td>0.5</td>
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<td>Psylla nymph / bud (45 nymph / 100 buds / 4 trees)</td>
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<td>0.0</td>
<td></td>
<td>Spotted Green Fruitworm (SGFW) (0 / 0)</td>
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<tr>
<td>12.1</td>
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<td>Spotted Tentiform Leafminer (STLM) (78 / 92)</td>
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<td>3.2</td>
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<td>Red Banded leafroller (RBLR) (36 / 9)</td>
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<td>13.3</td>
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<td>Oriental Fruit Moth (OFM) (123 / 63)</td>
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<tr>
<td>0.0</td>
<td></td>
<td>Lesser apple worm (LAW) (0 / 0)</td>
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<tr>
<td>2.9</td>
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<td>Grape berry moth (GBM) (20)</td>
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<td>0.4</td>
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<td><strong>Codling moth (CM)</strong> (4 / 1) First flight</td>
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<td>Brown Marmorated Stink Bug (BMSB) (0 / 0)</td>
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<tr>
<td>2.0</td>
<td></td>
<td>BMSB field observation adults on commercial pome fruit (low #'s)</td>
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<td>&lt;1%</td>
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<td>Lep larvae terminal feeding in unsprayed foliage and fruit (low)</td>
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</tbody>
</table>

Apple - Ginger Gold - petal fall (king fruit ≤ 10mm)
Apple - McIntosh - 80% petal fall (king fruit ≤ 8mm)
Apple - Delicious - 80% petal fall (king fruit ≤ 6mm)
Apple - Golden Delicious - petal fall (king fruit ≤ 8mm)
Apple - Cortland - petal fall (king fruit ≤ 10mm)
Pear - Bartlett- (king fruit ≤ 11mm)
Pear - Bosc - 4-10 (king fruit ≤ 9mm)
Apricot (Early) - fruit set shucks off (≤ 22mm)
Peaches (Red Haven - Early) - fruit set shucks on
Peaches (Late) - fruit set
Cherry (Sweetheart - Early) - fruit set (fruit ≤ 12mm) shucks off
Cherry (White Gold - Early) - fruit set shucks off
Plum (Italian / Stanley) - fruit set shucks on
Plum (Shiro) - fruit set shucks on

- 386.0 OFM DD from March 1 (1st gen larva 400-500 DD45)
- 374.5 STLM DD from 1st obser, (1st gen larva 472 DD43 +/- 129)
- 268.3 SJS DD from March 1 (crawler emergence 500 DD50)
- 2.61” Weekly Rainfall
- 3.83” Total Rainfall from 1 May
- 13.48” Total Rainfall from 1 March
43 F  50 F  # / trap / day (pheromone trap)

5/23

DD Accumulations 2011 (from 1 January)

Psylla eggs / bud (eggs / 100 buds / 4 trees)

Psylla nymph / bud (nymph / 100 buds / 4 trees)

Spotted Green Fruitworm (SGFW) (/ )

Spotted Tentiform Leafminer (STLM) (/ )

Red Banded leafroller (RBLR) (/ )

Oriental Fruit Moth (OFM) (/ )

Lesser apple worm (LAW) (/ )

Grape berry moth (GBM) (/ )

Codling moth (CM) (/ )

Brown Marmorated Stink Bug (BMSB) (/ )

430.5  OFM DD from March 1 (1st gen larva 400-500 DD45 on 5/17)

493.5  STLM DD from 1st obser, (1st gen larva 472 DD43 +/- 129)

338.3  SJS DD from March 1 (crawler emergence 500 DD50)

2.61” Weekly Rainfall

3.83” Total Rainfall from 1 May

13.48” Total Rainfall from 1 March
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<th># / trap / day (pheromone trap)</th>
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<tbody>
<tr>
<td>43 F</td>
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<td>DD Accumulations 2011 (from 1 January)</td>
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<tr>
<td>5/31</td>
<td>860.5</td>
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<td>4.1</td>
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<td>Psylla eggs / lf ( 401 eggs / 100 leaves / 4 trees)</td>
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<td>1.0</td>
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<td>Psylla nymph / fl ( 108 nymph / 100 leaves / 4 trees)</td>
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<tr>
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<td>Spotted Green Fruitworm (SGFW) ( 0 / 0 )</td>
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<td>Spotted Tentiform Leafminer (STLM) (24 / 16)</td>
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<td>Red Banded leafroller (RBLR) ( 8 / 0 )</td>
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<td>Oriental Fruit Moth (OFM) ( 30 / 41 )</td>
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<td>Lesser apple worm (LAW) ( 4 / 1 )</td>
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<td>Grape berry moth (GBM) ( 21 )</td>
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<td>Codling moth (CM) ( 38 / 59 )</td>
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<td>Brown Marmorated Stink Bug (BMSB) ( 0 / 0 )</td>
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<td>30 May</td>
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<td>CM larval hatch prediction</td>
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<tr>
<td>2 June</td>
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<td></td>
<td></td>
<td>PC DD from March 1 (1st gen larva 308 DD50)</td>
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<tr>
<td>1 June</td>
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<td>1 June</td>
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<td>SJS DD from March 1 (1st gen crawlers 500 DD50 from 1 March)</td>
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<td>230.0</td>
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<td>PC DD from March 1 (1st gen larva 308 DD50)</td>
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<td>230.0</td>
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<td>CM DD from sustained catch (1st gen larva 220 DD50)</td>
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<td>497.8</td>
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<td>SJS DD from March 1 (crawler emergence 500 DD50)</td>
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<tr>
<td></td>
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<td>0.49”</td>
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<td>Weekly Rainfall</td>
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<td>4.51”</td>
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<td>Total Rainfall from 1 May</td>
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<td>14.2”</td>
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<td>Total Rainfall from 1 March</td>
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# / trap / day (pheromone traps)

<table>
<thead>
<tr>
<th>Date</th>
<th>Psylla eggs / If</th>
<th>Psylla nymph / fl</th>
<th>Spotted Tentiform Leafminer (STLM)</th>
<th>Red Banded leafroller (RBLR)</th>
<th>Oriental Fruit Moth (OFM)</th>
<th>Lesser apple worm (LAW)</th>
<th>Grape berry moth (GBM)</th>
<th>Codling moth (CM)</th>
<th>Obliquebanded leafroller (RBLR) (FFlt 1 June)</th>
<th>Brown Marmorated Stink Bug (BMSB)</th>
<th>Feeding obser of BMSB field adults on commercial pome fruit</th>
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<tbody>
<tr>
<td>6/5</td>
<td>1000.0</td>
<td>595.3</td>
<td>4.3</td>
<td>0.1</td>
<td>10.6</td>
<td>&lt;0.1</td>
<td>&lt;0.1</td>
<td>3.2</td>
<td>0.2</td>
<td>0.0</td>
<td>1st obser of BMSB eggs and nymphs on commercial pome fruit</td>
</tr>
</tbody>
</table>

30 May  CM larval hatch prediction
2 June  PC DD from March 1 (1st gen larva 308 DD50)
1 June  SJS DD from March 1 (1st gen crawlers 500 DD50 from 1 March)
21 June OBLR larva emergence prediction (1st gen. 340 DD50 from 1 June)

97.0  OBLR DD50 1st gen. from 1 June
327  PC DD from March 1 (1st gen larva 308 DD50)
327  CM DD from sustained catch (1st gen larva 220 DD50)
587  SJS DD from March 1 (crawler emergence 500 DD50)

0.0” Weekly Rainfall
0.0” Total Rainfall from 1 June
14.2”” Total Rainfall from 1 March
43 F  50 F  # / trap / day
6/13 1168.1 729.8 DD Accumulations 2011 (from 1 January)

Pheromone trap observations
- 2.4 Psylla eggs / lf (63 / 58 eggs / 50 leaves / 4 trees)
- 0.7 Psylla nymph / fl (36 / 1 nymph / 50 leaves / 4 trees)
- 49.0 Spotted Tentiform Leafminer (STLM) (169 / 223)
- 0.0 Red Banded leafroller (RBLR) (0 / 0)
- 0.5 Oriental Fruit Moth (OFM) (0 / 4)
- 1.6 Lesser apple worm (LAW) (7 / 6)
- 0.0 Grape berry moth (GBM) (1)
- 7.1 Codling moth (CM) (27 / 30)
- 13.3 Obliquebanded leafroller (RBLR) (40 / 66)
- 0.0 Brown Marmorated Stink Bug (BMSB) (0 / 0) (light / pheromone)

Significant observations
- RLH adults in orchard
- PLH feeding damage observed
- Green apple aphid feeding on foliage and fruit
- Feeding obs of BMSB field adults on commercial pome fruit
- 1st obs of BMSB eggs and nymphs on commercial grape

Predicted emergence
- 30 May CM larval hatch prediction
- 2 June PC DD from March 1 (1st gen larva 308 DD50)
- 1 June SJS DD from March 1 (1st gen crawlers 500 DD50 from 1 March)
- 18 June SJS DD from historical crawler emergence 688 DD50 +/- 69DD or 757DD50
- 17 June OBLR larva emergence prediction (1st gen. 340 DD43 from 1 June)

Degree-day modeling
- 299.0 OBLR DD50 1st gen. from 1 June (1st gen. 340 DD50 from 1 June)
- 561.3 PC DD from March 1 (1st gen larva 308 DD50)
- 432.8 CM DD from sustained catch (1st gen larva 220 DD50)
- 729.8 SJS DD March 1 (crawler emergence 688 DD50 +/- 69DD (757DD50))

Rainfall
- 0.5” Weekly Rainfall
- 0.5” Total Rainfall from 1 June
- 14.7” Total Rainfall from 1 March
**Pheromone trap observations**

- 0.4 Psylla eggs / lf (21 / - eggs / 50 leaves / 4 trees)
- 0.2 Psylla nymph / fl (11 / - nymph / 50 leaves / 4 trees)
- 68.5 Spotted Tentiform Leafminer (STLM) (487 / 472)
- 3.0 Red Banded leafroller (RBLR) (42 / -)
- 3.2 Oriental Fruit Moth (OFM) (13 / 32)
- 0.2 Lesser apple worm (LAW) (1 / 2)
- 0.0 Grape berry moth (GBM) (0)
- 1.9 Codling moth (CM) (8 / 18)
- 6.9 Obliquebanded leafroller (RBLR) (34 / 63)
- 0.1 Apple maggot (AM) (0 / 2) *1st observation*
- 0.0 Brown Marmorated Stink Bug (BMSB) (0 / 0) *(light / pheromone)*

**Significant observations**

- PLH adult & nymph feeding damage observed
- Green apple aphid feeding on foliage and fruit
- Leafroller feeding injury to fruit

**Predicted emergence**

17 June  OBLR larva emergence prediction (1st gen. 340 DD<sub>43</sub> from 1 June)

**Degree-day modeling**

- 632.0 OBLR 1st gen. from 1 June (1st gen. 340 DD<sub>43</sub> from 1 June)

**Rainfall**

- 2.67” Weekly Rainfall
- 5.47” Total Rainfall from 1 June
- 19.43”” Total Rainfall from 1 March
DD Accumulations  2011 (from 1 January)

Pheromone trap observations

0.4  Psylla eggs / lf (  22 / -   eggs / 50 leaves / 4 trees)
0.1  Psylla nymph / fl (  1 / -  nymph / 50 leaves / 4 trees)

63.2  Spotted Tentiform Leafminer (STLM) (474 / 411)
3.0  Red Banded leafroller (RBLR) (  42 / - )
5.5  Oriental Fruit Moth (OFM) (  13 / 32 )
0.1  Lesser apple worm (LAW) (  0 / 2 )
0.0  Grape berry moth (GBM) (  0 )
1.5  Codling moth (CM) (  7 / 14 )
4.2  Obliquebanded leafroller (RBLR) (  24 / 35 )
<0.1  Apple maggot (AM) (  0 / 1 )
0.0  Brown Marmorated Stink Bug (BMSB) (  0 / 0 ) (light / pheromone)

Significant observations

  PLH adult & nymph feeding damage observed
  Green apple aphid feeding on foliage and fruit
  Leafroller feeding injury to fruit

Predicted emergence

17 June   OBLR larva emergence prediction (1st gen. 340 DD_{43} from 1 June)

Degree-day modeling

849.0  OBLR 1st gen. from 1 June (1st gen. 340 DD_{43} from 1 June)

Rainfall

0.01”  Weekly Rainfall
0.01”  Total Rainfall from 1 July
20.30”  Total Rainfall from 1 March
DD Accumulations 2011 (from 1 January)

Pheromone trap observations

Psylla eggs / lf (5 / - eggs / 50 leaves / 4 trees)
Psylla nymph / fl (0 / - nymph / 50 leaves / 4 trees)

32.29 Spotted Tentiform Leafminer (STLM) (231/221)
1.86 Red Banded leafroller (RBLR) (26/0)
4.36 Oriental Fruit Moth (OFM) (22/39)
0.5 Lesser apple worm (LAW) (1/6)
0.0 Grape berry moth (GBM) (0)
1.07 Codling moth (CM) (4/11)
1.0 Obliquebanded leafroller (OBLR) (3/11)
0.0 Apple maggot (AM) (0/0)

0.0 Brown Marmorated Stink Bug (BMSB) (0/0) (light/pheromone)

Significant observations

PLH adult & nymph feeding damage observed
Green apple aphid feeding on foliage and fruit
Leafroller feeding injury to fruit

Predicted emergence

17 June OBLR larva emergence prediction (1st gen. 340 DD from 1 June)

Degree-day modeling

957.4 OBLR 1st gen. from 1 June (1st gen. 340 DD from 1 June)

Rainfall

1.21” Weekly Rainfall
1.22” Total Rainfall from 1 July
21.51” Total Rainfall from 1 March
43 F  50 F  

DD Accumulations  2011 (from 1 January)

**Pheromone trap observations**

- 0.2  Psylla eggs / lf (11/ - eggs / 50 leaves / 4 trees)
- < 0.1  Psylla nymph / fl (1/ - nymph / 50 leaves / 4 trees)

24.4  Spotted Tentiform Leafminer (STLM) (139/203)

- 0.9  Red Banded leafroller (RBLR) (12/ 0)
- 3.1  Oriental Fruit Moth (OFM) (18/27)
- 0.6  Lesser apple worm (LAW) (2/ 7)
- 0.0  Grape berry moth (GBM) (0)

**1.9  Codling moth (CM) (10/16) 2nd gen. flt.**

- 0.5  Obliquebanded leafroller (OBLR) (1/6)
- 0.0  Apple maggot (AM) (0/0)
- 0.0  Brown Marmorated Stink Bug (BMSB) (1/0) (lgt / phero.)

**Significant observations**

PLH adult & nymph feeding damage observed

**Predicted emergence**

17 July  CM larva emergence prediction (1260DD\textsubscript{50} from biofix)

**Degree-day modeling**

1176.4  OBLR 1st gen. from 1 June (1st gen. 340 DD\textsubscript{43} from 1 June)

**Rainfall**

- 0.2”  Weekly Rainfall
- 1.4”  Total Rainfall from 1 July
- 21.7”  Total Rainfall from 1 March
DD Accumulations 2011 (from 1 January)

Pheromone trap observations

> 500.0  Psylla rust mite / lf ( >500 / leaf / of 50 lvs from 2 trees)
0.0  Psylla eggs / lf ( 0 / - eggs / 50 leaves / 4 trees)
< 0.1  Psylla nymph / fl ( 0 / - nymph / 50 leaves / 4 trees)

39.0  Spotted Tentiform Leafminer (STLM) ( 248 / 298 )
0.6  Red Banded leafroller (RBLR) ( 2 / 6)
3.8  Oriental Fruit Moth (OFM) ( 39 / 14 )
1.6  Lesser apple worm (LAW) ( 7 / 15 )
0.0  Grape berry moth (GBM) ( 0 )
2.7  Codling moth (CM) ( 24 / 14 )
0.2  Obliquebanded leafroller (OBLR) ( 0 / 3 )
0.4  Apple maggot (AM) ( 2 / 4 )
0.0  Brown Marmorated Stink Bug (BMSB) ( 0 / 0 ) (lgt / phero.)

Significant observations

Observed ERM populations increasing on commercial farms

Predicted emergence

11 July  2nd gen. CM larva emergence prediction

Rainfall

0.0”  Weekly Rainfall
1.4”  Total Rainfall from 1 July
21.7”  Total Rainfall from 1 March
43 F  50 F  # / trap / day
8/1  2611.5  1814.7  DD Accumulations 2011 (from 1 January)

**Pheromone trap observations**

- 1088.0  Psylla rust mite / lf (1088.0/leaf of 25 lvs from 2 trees)
- 0.1  Psylla eggs / lf (3 eggs / 25 leaves / 2 trees)
- 0.1  Psylla nymph / fl (3 nymph / 25 leaves / 2 trees)
- 19.5  Spotted Tentiform Leafminer (STLM) (122/151)
- <0.1  Red Banded leafroller (RBLR) (0/1)
- 0.4  Oriental Fruit Moth (OFM) (2/4)
- 3.0  Lesser apple worm (LAW) (30/12)
- 0.0  Grape berry moth (GBM) (0)
- 1.3  Codling moth (CM) (14/4)
- 0.1  Obliquebanded leafroller (OBLR) (0/2)
- 0.0  Tufted apple bud moth (TABM) (0/0)
- 0.0  Varigated leafroller (VLR) (0/0)
- 0.6  Apple maggot (AM) (2/7)
- 6  Brown Marmorated Stink Bug (BMSB) Fishkill, NY (6) (light)

**Significant observations**

Observed PRM populations increasing pear foliage

**Predicted emergence**

11 July  2nd gen. CM larva emergence prediction

**Rainfall**

- 0.8”  Weekly Rainfall
- 2.2”  Total Rainfall from 1 July
- 22.5” Total Rainfall from 1 March
<table>
<thead>
<tr>
<th>Date</th>
<th>43 F</th>
<th>50 F</th>
<th># / trap / day</th>
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<td>8/15</td>
<td>3044.3</td>
<td>2142.1</td>
<td>DD Accumulations 2011 (from 1 January)</td>
</tr>
</tbody>
</table>

**Pheromone trap observations**

- 298.0 Psylla rust mite / lf (298/leaf of 100 lvs from 4 trees)
- 0.0 Psylla eggs / lf (0 eggs / 25 leaves / 4 trees)
- 0.0 Psylla nymph / fl (0 nymph / 25 leaves / 4 trees)
- 25.2 Spotted Tentiform Leafminer (STLM) (141 / 212)
- 1.3 Red Banded leafroller (RBLR) (12 / 6)
- 2.5 Oriental Fruit Moth (OFM) (31 / 4)
- 0.6 Lesser apple worm (LAW) (0 / 8)
- 0.0 Grape berry moth (GBM) (0)
- 2.3 Codling moth (CM) (18 / 14)
- 0.2 Obliquebanded leafroller (OBLR) (1 / 3)
- 0.0 Tufted apple bud moth (TABM) (0 / 0)
- 0.0 Varigated leafroller (VLR) (0 / 0)
- 1.7 Apple maggot (AM) (14 / 10)
- 1.0 Brown Marmorated Stink Bug (BMSB) (0) scouting

**Rainfall**

- 0.8” Weekly Rainfall
- 3.1” Total Rainfall from 1 August
- 25.7” Total Rainfall from 1 March

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Rainfall

0.8” Weekly Rainfall

3.1” Total Rainfall from 1 August

25.7” Total Rainfall from 1 March
43 F  50 F  # / trap / day
8/22  3209.0  2265.2  DD Accumulations 2011 (from 1 January)

Pheromone trap observations
12.4 Spotted Tentiform Leafminer (STLM) (59 / 114)
6.5 Red Banded leafroller (RBLR) (47 / 44)
4.1 Oriental Fruit Moth (OFM) (31 / 26)
0.9 Lesser apple worm (LAW) (2 / 10)
0.0 Grape berry moth (GBM) (0)
0.6 Codling moth (CM) (6 / 3)
0.2 Obliquebanded leafroller (OBLR) (1 / 2)
4.3 Apple maggot (AM) (28 / 32)
0.0 Brown Marmorated Stink Bug (BMSB) (0) scouting

Significant observations
AM adults observed increasing in baited red sticky spheres
OBLR peak flight observed
OFM adult 3rd generation flight increasing
RBLR adult 3rd generation high flight numbers observed

Predicted emergence
15 August 2nd gen. OBLR larva emergence prediction (8/1 flt.)

Rainfall
1.28” Weekly Rainfall
6.2” Total Rainfall from 1 August
28.72” Total Rainfall from 1 March
DD Accumulations 2011 (from 1 January)

**Pheromone trap observations**

- 10.9 Spotted Tentiform Leafminer (STLM) (63 / 90)
- 4.6 Red Banded leafroller (RBLR) (24 / 41)
- 2.9 Oriental Fruit Moth (OFM) (20 / 20)
- 1.5 Lesser apple worm (LAW) (2 / 19)
- 0.0 Grape berry moth (GBM) (0)
- 1.5 Codling moth (CM) (3 / 1)
- 0.5 Obliquebanded leafroller (OBLR) (4 / 3)
- 0.9 Apple maggot (AM) (8 / 4)
- 0.0 Brown Marmorated Stink Bug (BMSB) (0) **scouting**

**Significant observations**

AM adults observed decreasing in baited red sticky spheres
OBLR decreasing in pheromone as peak flight observed on 8/15
OFM adult 3rd generation flight decreasing; peak flight observed on 8/22
RBLR adult 3rd generation flight decreasing; peak flight on 8/22

**Predicted emergence**

15 August 2nd gen. OBLR larva emergence prediction (8/1 flt.)

**Rainfall**

- 7.59” Weekly Rainfall (5.87 in 12 hours on 8/27)
- 13.74” Total Rainfall from 1 August
- 36.31” Total Rainfall from 1 March