

2014 Hudson Valley Lab Scouting Report
NYSAES Entomology Dept., Highland, NY

<u>Date</u>	<u>Baskerville-Emin (BE)</u>		<u># / trap / day (pheromone trap)</u>	<u>Field Observations / Trap Catches / Models</u>
	<u>DD Accumulations (previous day NEWA)</u>	<u>DD Accumulations (previous day NEWA)</u>		
	43 F	50 F		
3/1	16.7	0.0		Beginning degree day accumulations beginning 1 Jan. 2013
3/3				Apple – McIntosh – Dormant
3/10				Apple – McIntosh – Dormant
3/17				Apple – McIntosh – Dormant
3/24	38.4	8.2		Apple – McIntosh – Dormant
3/31				Spotted Green Fruitworm (SGFW) trap set (3/31/14) Apple – McIntosh – Dormant Apple – Empire, Ginger Gold, Spur Red Delicious – Dormant Pear – Bartlett / Bosc – Dormant
	40.6	8.2	2.10” 3.12”	Weekly Rainfall Total Rainfall
4/4			0.0 0.6 0.0	Psylla eggs / bud (0 egg / 100 buds / 8 trees) Spotted Green Fruitworm (SGFW) (2/4) Red Banded Leafroller (RBLR) (0 / 0) Apple – McIntosh – Dormant Apple – Empire, Ginger Gold, Spur Red Delicious – Dormant Pear – Bartlett / Bosc – Dormant
	62.4	15.8		Weekly Rainfall Total Rainfall
4/7			<0.1 0.4 0.0	Psylla eggs / bud (4 egg / 100 buds / 8 trees) Spotted Green Fruitworm (SGFW) (4/1) Red Banded Leafroller (RBLR) (0/0) Spotted Tentiform Leafminer (STLM) (Set 4/7) Spotted Wing Drosophila (SWD) (Set 4/7) Apple – McIntosh – Dormant Apple – Empire, Ginger Gold, Spur Red Delicious – Dormant Pear – Bartlett / Bosc – Dormant
	70.3	18.1	0.25” 3.37”	Weekly Rainfall Total Rainfall

<u>Date</u>	<u>Baskerville-Emin (BE)</u>		<u># / trap / day (pheromone trap)</u>	<u>Field Observations / Trap Catches / Models</u>
	<u>DD Accumulations (previous day NEWA)</u>			
	43 F	50 F		
4/14	147.1	60.5		Highland
	133.7	55.5		Hudson
	131.6	50.9		Marlboro
			0.4	Psylla eggs / bud (44 egg / 100 buds / 8 trees)
			0.6	Spotted Green Fruitworm (SGFW) (1/7)
			0.6	Red Banded Leafroller (RBLR) (7/1) First Flt.
			0.0	Spotted Tentiform Leafminer (STLM) (0/0)
			0.0	Spotted Wing Drosophila (SWD) (0)
			0.0	Brown Marmorated Stink Bug (BMSB) First Flt. (flight to deciduous trees Obser)
				Apple – McIntosh – Green Tip
				Apple – Empire, Ginger Gold, Spur Red Delicious – GT
				Pear – Bartlett / Bosc – Green Tip
			0.6”	Weekly Rainfall
			0.85”	Total Rainfall for April
			3.97”	Total Rainfall
4/15				Apple – McIntosh – ½” green
				Apple – Empire - ½” green
				Apple – Ginger Gold- ½” green
				Apple – Spur Red Delicious – ½” green
				Pear – Bartlett – Swollen Bud
				Pear – Bosc - Swollen Bud
				Pear – Early Oriental (Hosui) – Bud Burst
				Stanley plum – Swollen Bud
				Apricot – Early – 50% Bloom
				Cherry – Early (Danube) – 10% Bud Burst
				Cherry – Late – (Regina) Swollen Bud
				Early Peach – green tip
				Late Peach – green tip
			0.4	Psylla eggs / cluster (1441 egg /100 buds / 5 UT Bart. stems)
			0.0	Psylla nymphs / cluster (0 nym. /100 buds/ 5 UT Bart. stems)
			0.0	Oriental Fruit Moth (OFM) (0 / 0)
			2.6	Red Banded Leafroller (RBLR) (15 / 27)
			1.2	Spotted Green Fruitworm (SGFW) (8 / 9)
			0.0	Spotted Tentiform Leafminer (STLM) (0 / 0)
	191.1	85.8		Highland
	179.5	83.2		Hudson
	172.4	73.9		Marlboro
			1.36”	Weekly Rainfall (HVL)
			2.21 “	Total Rainfall for April (HVL)
			5.33”	Total Rainfall from 1 March (HVL)

Baskerville-Emin (BE)

<u>Date</u>	<u>DD Accumulations (previous day NEWA)</u>		<u>Field Observations / Trap Catches / Models</u>
	43 F	50 F	# / trap / day (pheromone trap)
4/28			Apple – McIntosh – Tight Cluster Apple – Empire – Tight Cluster Apple – Ginger Gold- Early Tight Cluster Apple – Spur Red Delicious – Late Tight Cluster Pear – Bartlett – Green Cluster Pear – Bosc – Early Green Cluster Pear – Early Oriental (Hosui) – White Bud Stanley plum – Green Cluster Apricot – Early – Late Full Bloom Cherry – Early (Danube) – White Bud, first blossom Cherry – Late – (Regina) – Bud Burst Early Peach – Pink, first Blossom Late Peach – pink 5.0 Psylla eggs / cluster (502 egg /100 buds / 5 UT Bart. stems) 0.0 Psylla nymphs / cluster (0 nym. /100 buds/ 5 UT Bart. stems) 0.0 Oriental Fruit Moth (OFM) (0 / 0) 16.1 Red Banded Leafroller (RBLR) (111 / 114) 0.5 Spotted Green Fruitworm (SGFW) (1 / 6) 4.5 Spotted Tentiform Leafminer (STLM) (36 / 27) 0.0 Spotted Wing Drosophila (SWD) (0) 260.5 Highland 251.9 Hudson 240.2 Marlboro 0.86 Weekly Rainfall (HVL) 3.07” Total Rainfall for April (HVL) 6.19 Total Rainfall from 1 March (HVL)

<u>Date</u>	<u>Baskerville-Emin (BE)</u>		<u># / trap / day (pheromone trap)</u>	<u>Field Observations / Trap Catches / Models</u>
	<u>DD Accumulations (previous day NEWA)</u>			
	43 F	50 F		
5/5				Apple – McIntosh – Early Pink Apple – Empire - Early Pink Apple – Ginger Gold- Early Pink Apple – Spur Red Delicious – Early Pink Pear – Bartlett – Early White Pear – Bosc - Early White Pear – Early Oriental (Hosui) – 50% Bloom Stanley plum – Swollen Bud Apricot – Early – Petal Fall Cherry – Early (Danube) – 50% Bloom Cherry – Late – (Regina) Bud Burst Early Peach –50% Bloom Late Peach –10% Bloom
			3.2	Psylla eggs / cluster (322 egg /100 buds / 5 UT Bart. stems)
			0.7	Psylla nymphs / cluster (66 nym. /100 buds/ 5 UT Bart. stems)
			1.1	Oriental Fruit Moth (OFM) (12 / 4)
			18.9	Red Banded Leafroller (RBLR) (80 / 105)
			0.1	Spotted Green Fruitworm (SGFW) (1 / 0)
			12.3	Spotted Tentiform Leafminer (STLM) (95 / 137)
			0.0	Spotted Wing Drosophila (SWD) (0)
				*set LAW, CM, VLR, TBM
	338.4	158.6		Highland
	308.1	149.4		Hudson
	306.8	138.1		Marlboro
			2.38	Weekly Rainfall (HVL)
			0.39”	Total Rainfall for May (HVL)
			8.57	Total Rainfall from 1 March (HVL)

Baskerville-Emin (BE)

Date

DD Accumulations (previous day NEWA)

Field Observations / Trap Catches / Models

43 F

50 F

/ trap / day (pheromone trap)

5/12

Apple – Ginger Gold- Full Bloom
 Apple – McIntosh – Full Bloom
 Apple – Golden Delicious – Full Bloom
 Apple – Spur Red Delicious – Full Bloom
 Pear – Bartlett – Full Bloom
 Pear – Bosc – Full Bloom
 Pear – Early Oriental (Hosui) – Early Petal Fall
 Stanley plum – Petal Fall
 Apricot – Early – Fruit Set, Shuck off
 Apricot – Late – Fruit Set, Shuck on
 Cherry – Early (Danube) – Petal Fall
 Cherry – Late – (Regina) – full bloom
 Early Peach –Petal Fall
 Late Peach – Early Petal Fall

0.8 Psylla eggs / cluster (83 egg /100 buds / 5 UT Bart. stems)
 0.5 Psylla nymphs /cluster (52 nym. /100 buds/ 5 UT Bart. stems)

12.6 Oriental Fruit Moth (OFM) (124 / 53)
 15.8 Red Banded Leafroller (RBLR) (104 / 118)
 0.0 Spotted Green Fruitworm (SGFW) (0 / 0)
 30.0 Spotted Tentiform Leafminer (STLM) (210 / 209)
 0.0 Spotted Wing Drosophila (SWD) (0, 0 ,0 ,0)
 1.0 Lesser Apple Worm (LAW) (12 / 2) **First Capture**
 0.0 Codling Moth (CM) (0 / 0)
 0.0 Variegated Leafroller (VLR) (0 / 0)
 0.0 Tufted Apple Bud Moth (TBM) (0 / 0)
 1.0 Brown Marmorated SB (BMSB) (1 m, 6 f) **First Capture**

460.8 234.3
 433.3 223.1
 415.5 201.9

Highland
 Hudson
 Marlboro

0.93 Weekly Rainfall (HVL)
 1.32 Total Rainfall for May (HVL)
 9.89 Total Rainfall from 1 March (HVL)

Baskerville-Emin (BE)**Date** **DD Accumulations (previous day NEWA)** **Field Observations / Trap Catches / Models**

43 F 50 F # / trap / day (pheromone trap)

5/19

Apple – Ginger Gold- Petal Fall
Apple – McIntosh – Petal Fall
Apple – Golden Delicious – Petal Fall
Apple – Spur Red Delicious – Petal Fall
Pear – Bartlett – Petal Fall
Pear – Bosc – Petal Fall
Pear – Early Oriental (Hosui) –Petal Fall
Stanley plum – Petal Fall
Apricot – Early – Fruit Set, Shuck on
Apricot – Late – Fruit Set, Shuck on
Cherry – Early (Danube) – Petal Fall
Cherry – Late – (Regina) – Petal Fall
Early Peach –Petal Fall
Late Peach –Petal Fall

3.06 Psylla eggs / cluster (153 egg / 50 Leaves / 10 UT Bart. stems)
1.32 Psylla nymphs /cluster (66 nym. /50 Leaves/ 10 UT Bart. stems)

3.9 Oriental Fruit Moth (OFM) (30/ 24)
5.6 Red Banded Leafroller (RBLR) (31 / 48)
0.0 Spotted Green Fruitworm (SGFW) (0 / 0)
10.2 Spotted Tentiform Leafminer (STLM) (85 / 58)
0.0 Spotted Wing Drosophila (SWD) (0, 0 ,0 ,0)
0.8 Lesser Apple Worm (LAW) (6/ 5)
1.0 Codling Moth (CM) (10 / 4) **First Capture**
0.2 Variegated Leafroller (VLR) (0 / 3) **First Capture**
0.0 Tufted Apple Bud Moth (TBM) (0 / 0)
0.0 Brown Marmorated SB (BMSB) (0 m, 0 f)

594.9 321.5 Highland
569.8 313.1 Hudson
540.3 279.3 Marlboro

0.31 Weekly Rainfall (HVL)
1.63 Total Rainfall for May (HVL)
10.2 Total Rainfall from 1 March (HVL)

Baskerville-Emin (BE)

Date **DD Accumulations (previous day NEWA)** **Field Observations / Trap Catches / Models**

43 F **50 F** **# / trap / day (pheromone trap)**

5/27

- Apple – Ginger Gold- Fruit Set
- Apple – McIntosh – Fruit Set
- Apple – Golden Delicious – Fruit Set
- Apple – Spur Red Delicious – Fruit Set
- Pear – Bartlett – Fruit Set
- Pear – Bosc – Fruit Set
- Pear – Early Oriental (Hosui) –Fruit Set
- Stanley plum – Fruit Set
- Apricot – Early – Fruit Set
- Apricot – Late – Fruit Set
- Cherry – Early (Danube) – Fruit Set
- Cherry – Late – (Regina) – Petal Fall
- Early Peach –Fruit Set
- Late Peach Fruit Set

(OFM- DD 281 base 45F (aprox 4/10/14): Moths are still flying and about 50-60% of OFM eggs from the first generation have hatched.

(CM-) Moths flying and first eggs laid) First eggs laid DD 50 Base 50F, eggs hatch around 220 DD (aprox 5/12/14).

0.92 Psylla eggs / cluster (46 egg / 50 Leaves / 10 UT Bart. stems)
 2.24 Psylla nymphs /cluster (112 nym. /50 Leaves/ 10 UT Bart. stems)

- 7.8 Oriental Fruit Moth (OFM) (99/11)
- 2.9 Red Banded Leafroller (RBLR) (20 / 21)
- 0.0 Spotted Green Fruitworm (SGFW) (0 / 0)
- 5.6 Spotted Tentiform Leafminer (STLM) (48 / 30)
- 0.0 Spotted Wing Drosophila (SWD) (0, 0 ,0 ,0)
- 1.6 Lesser Apple Worm (LAW) (12 / 10)
- 1.0 Codling Moth (CM) (48 / 16)
- 0.2 Variegated Leafroller (VLR) (1 / 1)
- 0.1 Tufted Apple Bud Moth (TBM) (1 / 1)
- 0.1 Brown Marmorated SB (BMSB) (2 m, 1 f)

748.0 421.3 Highland
 720.2 411.1 Hudson
 690.4 376.5 Marlboro

- 1.27 Weekly Rainfall (HVL)
- 2.80 Total Rainfall for May (HVL)
- 11.47 Total Rainfall from 1 March (HVL)

Baskerville-Emin (BE)

Date **DD Accumulations (previous day NEWA)** **Field Observations / Trap Catches / Models**

43 F **50 F** **# / trap / day (pheromone trap)**

6/2

Apple – Ginger Gold-	22 mm KF
Apple – McIntosh –	18 mm KF
Apple – Golden Delicious –	20 mm KF
Apple – Spur Red Delicious –	16 mm KF
Pear – Bartlett –	17 mm KF
Pear – Bosc –	14 mm KF
Pear – Early Oriental (Hosui) –	20 mm KF
Stanley plum –	15 mm KF
Apricot – Early –	25.4 mm KF
Apricot – Late –	14 mm KF
Cherry – Early (Danube) –	15.5 mm KF
Cherry – Late – (Regina) –	14 mm KF
Early Peach –	16 mm KF
Late Peach-	15 mm KF

1.52 Psylla eggs / cluster (76 egg / 50 Leaves / 10 UT Bart. stems)
 2.32 Psylla nymphs /cluster (116 nym. /50 Leaves/ 10 UT Bart. stems)

4.1 Oriental Fruit Moth (OFM) (52/5)
 0.6 Red Banded Leafroller (RBLR) (3 / 5)
 0.0 Spotted Green Fruitworm (SGFW) (0 / 0)
 1.8 Spotted Tentiform Leafminer (STLM) (12 / 13)
 0.0 Spotted Wing Drosophila (SWD) (0, 0 ,0 ,0)
 1.3 Lesser Apple Worm (LAW) (2 / 16)
 2.8 Codling Moth (CM) (32 / 8)
 1.1 Variegated Leafroller (VLR) (2 / 13)
 1.2 Tufted Apple Bud Moth (TBM) (6 / 11)
 0.1 Brown Marmorated SB (BMSB) (1 m, 1 f)
 0.0 Spargnothus Fruitworm Moth (SFM) (0 / 0)

868.2	500.4	Highland
837.3	489.3	Hudson
808.4	453.9	Marlboro

0.7 Weekly Rainfall (HVL)
 2.87 Total Rainfall for May (HVL)
 12.17 Total Rainfall from 1 March (HVL)

Baskerville-Emin (BE)

Date **DD Accumulations (previous day NEWA)** **Field Observations / Trap Catches / Models**

43 F **50 F** **# / trap / day (pheromone trap)**

6/9

Apple – Ginger Gold-	34 mm KF
Apple – McIntosh –	27 mm KF
Apple – Golden Delicious –	29 mm KF
Apple – Spur Red Delicious –	24 mm KF
Pear – Bartlett –	23 mm KF
Pear – Bosc –	20 mm KF
Pear – Early Oriental (Hosui) –	25 mm KF
Stanley plum –	25 mm KF
Apricot – Early –	25.4 mm KF
Apricot – Late –	40 mm KF
Cherry – Early (Danube) –	24 mm KF
Cherry – Late – (Regina) –	20 mm KF
Early Peach –	35 mm KF
Late Peach-	30 mm KF

(OFM)-The first flight of moths is diminishing and the start of the second flight of OFM is expected at 701-1100 degree days.

(CM)- Adult flights are relatively heavy during this period and the majority of eggs are likely to hatch, so control is critical at this time.

2.12 Psylla eggs / cluster (106 egg / 50 Leaves / 10 UT Bart. stems)

0.44 Psylla nymphs /cluster (22 nym. /50 Leaves/ 10 UT Bart. stems)

1.9 Oriental Fruit Moth (OFM) (25/2)

0.0 Red Banded Leafroller (RBLR) (0 / 0)

0.0 Spotted Green Fruitworm (SGFW) (0 / 0)

0.9 Spotted Tentiform Leafminer (STLM) (9 / 3)

0.0 Spotted Wing Drosophila (SWD) (0, 0 ,0 ,0)

0.3 Lesser Apple Worm (LAW) (0 / 4)

3.5 Codling Moth (CM) (27 / 22)

3.9 Variegated Leafroller (VLR) (17 / 37)

1.6 Tufted Apple Bud Moth (TBM) (22 / 0)

0.4 Brown Marmorated SB (BMSB) (1 m, 2 f)

0.1 Spargnothus Fruitworm Moth (SFM) (0 / 2) **First Capture**

1043.5 626.7

1024.2 627.2

979.3 575.8

Highland

Hudson

Marlboro

0.69 Weekly Rainfall (HVL)

0.69 Total Rainfall for June (HVL)

12.86 Total Rainfall from 1 March (HVL)

Baskerville-Emin (BE)

Date DD Accumulations (previous day NEWA) Field Observations / Trap Catches / Models

43 F 50 F # / trap / day (pheromone trap)

6/16

(OFM)- The first flight of moths is diminishing and the start of the second flight of OFM is expected at 701-1100 degree days.

(OBLR)- First hatch of summer OBLR eggs. Adult catches in pheromone traps are near peak numbers.

(CM)- Adult flights are relatively heavy during this period and the majority of eggs are likely to hatch, so control is critical at this time

3.56 Psylla eggs / cluster (178 egg / 50 Leaves / 10 UT Bart. stems)

4.42 Psylla nymphs /cluster (221 nym. /50 Leaves/ 10 UT Bart. stems)

1.5 Oriental Fruit Moth (OFM) (17/4)

0.0 Red Banded Leafroller (RBLR) (0 / 0)

0.0 Spotted Green Fruitworm (SGFW) (0 / 0)

14.6 Spotted Tentiform Leafminer (STLM) (134 / 70)

0.0 Spotted Wing Drosophila (SWD) (0, 0 ,0 ,0)

0.4 Lesser Apple Worm (LAW) (0 / 5)

1.4 Codling Moth (CM) (11 / 9)

2.5 Variegated Leafroller (VLR) (0 / 35)

1.8 Tufted Apple Bud Moth (TBM) (0 / 25)

0.4 Brown Marmorated SB (BMSB) (1 m, 0 f)

0.9 Spargnothus Fruitworm Moth (SFM) (0 / 12)

1.7 Oblique Banded Leafroller (OBLR) (16/8) **First Capture**

1200.4	734.6	Highland
1130.0	677.5	Hudson
1177.1	731.1	Marlboro

1.41 Weekly Rainfall (HVL)

2.10 Total Rainfall for June (HVL)

14.27 Total Rainfall from 1 March (HVL)

Baskerville-Emin (BE)

Date **DD Accumulations (previous day NEWA)** **Field Observations / Trap Catches / Models**

43 F **50 F** **# / trap / day (pheromone trap)**

6/23

SJS: crawlers have moved out from under female coverings, with injury to fruit occurring.

OBLR: First hatch of summer OBLR eggs. Adult catches in pheromone traps are near peak numbers.

CM: Adult flights are relatively heavy during this period and the majority of eggs are likely to hatch, so control is critical at this time.

STLM: The second flight of STLM continuing. Eggs from second generation of STLM will begin to hatch when 690 to 840 degree days have accumulated since the second generation flight start (Approx. 20 July).

BMSB: adults found feeding on pear and cherry (HVL)

Pear psylla: 2nd Generation nymph population above threshold in Bartlett and Bosc. Nymph feeding and fruit injury from sooty mold and scorch increasing.

0.22 Psylla eggs / cluster (11 egg / 50 Leaves / 10 UT Bart. stems)

3.22 Psylla nymphs /cluster (161 nym. /50 Leaves/ 10 UT Bart. stems)

2.5 Oriental Fruit Moth (OFM) (33 / 2)

0.6 Red Banded Leafroller (RBLR) (7 / 2)

53.0 Spotted Tentiform Leafminer (STLM) (349 / 393)

0.0 Spotted Wing Drosophila (SWD) (0, 0 ,0 ,0)

1.3 Lesser Apple Worm (LAW) (2 / 16)

3.2 Codling Moth (CM) (23 / 22)

1.2 Variegated Leafroller (VLR) (6 / 11)

4.7 Tufted Apple Bud Moth (TBM) (39 / 27)

0.1 Brown Marmorated SB (BMSB) (1 m, 0 f)

0.1 Spargnothus Fruitworm Moth (SFM) (0 / 2)

5.9 Oblique Banded Leafroller (OBLR) (29 / 53)

1384.3 869.5 Highland

1364.6 869.8 Hudson

1320.6 819.1 Marlboro

0.17 Weekly Rainfall (HVL)

2.27 Total Rainfall for June (HVL)

14.44 Total Rainfall from 1 March (HVL)