

2010 Hudson Valley Lab Scouting Report
NYSAES Entomology Dept., Highland, NY

<u>Date</u>	<u>DD Accumulations (9 am / Skybit)</u>				<u>Field Observations / Trap Catches / Models</u>
	<u>43 F</u>	<u>45 F</u>	<u>48 F</u>	<u>50 F</u>	
1/1					Begin degree day accumulations 2010
3/9					Apple – McIntosh – Dormant Apple – McIntosh – Dormant 0.73” Weekly Rainfall 0.73” Total Rainfall from 1 March
3/16					Apple – McIntosh – Dormant < 0.1 Psylla eggs / bud (1 egg / 20 buds / 8 trees) First obser. 0.0 Spotted Green Fruitworm (SGFW) (0/0) 0.87” Weekly Rainfall 1.34” Total Rainfall from 1 March
3/19	53.5	34.5	15.5	8.5	Degree day accumulations Apple – McIntosh – Dormant Pear – Bartlett – Swollen bud < 0.1 Psylla eggs / bud (3 eggs / 20 buds / 6 trees) < 0.1 Spotted Green Fruitworm (SGFW) (1/0) First flt. 0.0 Red Banded leafroller (RBLR) (0 / 0) 0.0 Spotted Tentiform Leafminer(STLM) (0 / 0) 0.0 Oriental Fruit Moth (OFM) (0 / 0) 4.0 SJS DD DD ₅₀ from March 1
3/22	80.0	57.0	32.0	21.0	Degree day accumulations Apple – McIntosh, Gingergold – ¼” green tip Apple – Red Delicious – green tip Pear – Bartlett – Swollen bud Peach, Cherry, Apricot, Early Plum – swollen bud 0.8 Psylla eggs / bud (15 eggs / 20 buds / 6 trees) 0.8 Spotted Green Fruitworm (SGFW) (2 / 1) < 0.1 Red Banded leafroller (RBLR) (1 / 0) First flt. 0.0 Spotted Tentiform Leafminer(STLM) (0 / 0) 0.0 Oriental Fruit Moth (OFM) (0 / 0) 21.0 SJS DD ₅₀ from March 1 0.00” Weekly Rainfall 1.60” Total Rainfall from 1 March

	43 F	45 F	48 F	50 F	# / trap / day (pheromone trap)
3/29	109.3	84.1	56.8	42.8	DD Accumulations 2009
					<0.1 Psylla eggs / bud (8 eggs / 100 buds / 8 trees)
					Spotted Green Fruitworm (SGFW) (1 / 0)
					Spotted Tentiform Leafminer(STLM) (0 / 0)
					Red Banded leafroller (RBLR) (2 / 0)
					Oriental Fruit Moth (OFM) (1 / 0) First flt.
					Lesser apple worm (LAW) (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 / Dormant
					Peaches (Early) – Swollen bud
					Plum (Italian / Stanley)– Swollen bud
<hr/>					
				82.8	OFM DD from March 1 (1 st gen larva 400-500 DD ₄₅)
				42.8	SJS DD from March 1 (crawler emergence 500 DD ₅₀)
<hr/>					
				1.96”	Weekly Rainfall
				4.69”	Total Rainfall from 1 March

	43 F	45 F	48 F	50 F	# / trap / day (pheromone trap)
4/5	176.0	139.5	98.6	77.2	DD Accumulations 2009
					10.5 Psylla eggs / bud (440 eggs / 42 buds / 8 trees)
					0.0 Spotted Green Fruitworm (SGFW) (0 / 0)
					4.1 Spotted Tentiform Leafminer(STLM) (38 / 20) First flt. (4/3)
					2.4 Red Banded leafroller (RBLR) (21 / 12)
					< 0.1 Oriental Fruit Moth (OFM) (1 / 0)
					0.0 Lesser apple worm (LAW) (0 / 0)
					0.0 Grape berry moth (GBM) (0 / 0)
<hr/>					
					Apple –Ginger Gold – Early TC
					Apple – McIntosh – Early TC
					Apple – Delicious – Early TC
					Apple – Golden Delicious – ½” green
					Apricot – 90% bloom
					Pear – Bartlett / Bosc – Bud Burst
					Peaches (Early) – Bloom
					Peaches (Late) – Pink
					Plum (Italian / Stanley)– Green cluster
					Pear thrips obser. on pear fruit clusters
					Plant bug feeding obser. on pear fruit clusters
					OBLR larva feeding obser. on pear fruit clusters
					94.3 OFM DD from March 1 (1 st gen larva 400-500 DD ₄₅)
					51.3 SJS DD from March 1 (crawler emergence 500 DD ₅₀)
<hr/>					
					1.93” Weekly Rainfall
					5.54” Total Rainfall from 1 March

	43 F	45 F	48 F	50 F	# / trap / day (pheromone trap)
4/12	329.7	277.2	213.4	178.1	DD Accumulations 2009
					6.2 Psylla eggs / bud (492 eggs / 80 leaves / 8 trees)
					0.1 Psylla eggs / nymphs (9 nymphs / 80 leaves / 8 trees) First obser.
					0.1 Spotted Green Fruitworm (SGFW) (1 / 0)
					71.6 Spotted Tentiform Leafminer(STLM) (515 / 487)
					9.1 Red Banded leafroller (RBLR) (59 / 68)
					1.2 Oriental Fruit Moth (OFM) (7 / 10) Sustained biofix
					0.0 Lesser apple worm (LAW) (0 / 0)
					0.0 Grape berry moth (GBM) (0 / 0)
<hr/>					
					Apple –Ginger Gold –Bloom
					Apple – McIntosh – 10% King Bloom
					Apple – Delicious – Pink
					Apple – Golden Delicious – Pink
					Apricot – petal fall
					Pear – Bartlett / Bosc – 100% Bloom
					Peaches (Early) – Early Petal Fall
					Peaches (Late) – 100% Bloom
					Plum (Italian / Stanley) – 100% Bloom
					Sweet Cherry (Attica) - 100% Bloom
					<hr/>
					271.1 OFM DD from March 1 (1 st gen larva 400-500 DD ₄₅)
					175.7 SJS DD from March 1 (crawler emergence 500 DD ₅₀)
					<hr/>
					0.61” Weekly Rainfall
					6.10” Total Rainfall from 1 March

	43 F	45 F	48 F	50 F	# / trap / day (pheromone trap)
4/20	330.8	317.9	241.7	199.3	DD Accumulations 2009
					7.4 Psylla eggs / bud (554 eggs / 75 leaves / 8 trees)
					4.4 Psylla nymphs / bud (334 eggs / 75 leaves / 8 trees)
					0.0 Spotted Green Fruitworm (SGFW) (0 / 0)
					68.2 Spotted Tentiform Leafminer(STLM) (488 / 467)
					11.4 Red Banded leafroller (RBLR) (79 / 80)
					3.6 Oriental Fruit Moth (OFM) (28 / 23)
					0.0 Lesser apple worm (LAW) (0 / 0)
					0.0 Grape berry moth (GBM) (0 / 0)
<hr/>					
					Apple –Ginger Gold – late Bloom
					Apple – McIntosh – 80% Bloom
					Apple – Delicious – 80% Bloom
					Apple – Golden Delicious – 90% Bloom
					Apricot – petal fall, shucks on
					Pear – Bartlett / Bosc – Early petal fall
					Peaches (Early) – petal fall, shucks on
					Peaches (Late) – petal fall, shucks on
					Plum (Italian / Stanley) – petal fall
					Sweet Cherry (Attica) - Early Petal Fall
					<hr/>
					311.8 OFM DD from March 1 (1 st gen larva 400-500 DD ₄₅)
					33.2 OFM DD from Biofix (1 st gen larva 175 DD ₄₅ post adult biofix)
					197.4 SJS DD from March 1 (crawler emergence 500 DD ₅₀)
					<hr/>
					0.19” Weekly Rainfall
					6.29” Total Rainfall from 1 March

4/26 455.8 381.3 289.2 238.4

DD Accumulations 2009

0.8 Psylla eggs / bud (76 eggs / 100 leaves / 8 trees)
2.3 Psylla nymphs / bud (225 nymphs / 100 leaves / 8 trees)
0.0 Spotted Green Fruitworm (SGFW) (0 / 0)
72.8 Spotted Tentiform Leafminer(STLM) (442 / 577)
10.6 Red Banded leafroller (RBLR) (70 / 79)
13.6 Oriental Fruit Moth (OFM) (84 / 106)
0.0 Lesser apple worm (LAW) (0 / 0)
0.0 Grape berry moth (GBM) (0 / 0)

Apple –Ginger Gold –Petal fall; <5 mm

Apple – McIntosh – Petal fall

Apple – Delicious – Early petal fall

Apple – Golden Delicious – Early petal fall

Apricot –shucks off; > 10 mm

Pear – Bartlett / Bosc – king at > 5 mm

Peaches (Early) –shucks 10% off

Peaches (Late) –shucks on

Plum (Italian / Stanley) – shucks on

Sweet Cherry (Attica) – Fruit set

2.8 PC DD (308 DD₅₀ since petal fall ends oviposition)
375.2 OFM DD from March 1 (1st gen larva 400-500 DD₄₅)
96.6 OFM DD from Biofix (1st gen larva 175 DD₄₅ post adult biofix)
236.0 SJS DD from March 1 (crawler emergence 500 DD₅₀)

0.58” Weekly Rainfall

1.38” Total Rainfall for April

7.36” Total Rainfall from 1 March

DD Accumulations 2009

	Psylla eggs / leaf (eggs / 100 leaves / 8 trees)
	Psylla nymphs / leaf (nymphs / 100 leaves / 8 trees)
0.0	Spotted Green Fruitworm (SGFW) (0 / 0)
57.2	Spotted Tentiform Leafminer(STLM) (419 / 382)
4.6	Red Banded leafroller (RBLR) (33 / 32)
9.5	Oriental Fruit Moth (OFM) (54 / 79)
0.0	Lesser apple worm (LAW) (0 / 0)
0.7	Grape berry moth (GBM) (5) Fst Flt. 5/1

Apple –Ginger Gold – King fruitlet (KF) at 12-13 mm

Apple – Jersey McIntosh – KF @ 13

Apple – McIntosh – KF @ 11-12

Apple – Cortland – KF @ 9-10

Apple – Delicious – KF @ 9-10

Apple – Golden Delicious – KF @ 8-9

Apricot –shucks off; > 15 mm

Pear – Bartlett / Bosc – king at 11-12 mm

Peaches (Early) –shucks off

Peaches (Late) –shucks off

Plum (Italian / Stanley) – shucks off

Sweet Cherry (Attica) – > 5 mm

0.7% PC oviposition damage to UTC fruitlets (2 / 100 clusters (300 fruit)

RAA leaf curl observed on Ginger Gold in UTC

TPB injury observed on Ginger Gold in UTC

Pear psylla eggs to 4th instar nymphs obser. on Bartlett

64.7 PC DD (308 DD₅₀ since petal fall (28 April) ends oviposition)

472.8 OFM DD from March 1 (1st gen larva 400-500 DD₄₅)

187.6 OFM DD from Biofix (1st gen larva 175 DD₄₅ post adult biofix)

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

0.68” Weekly Rainfall

0.14” Total Rainfall for May

7.55” Total Rainfall from 1 March

5/10 686.0 586.7 459.1 386.6

DD Accumulations 2009

- 0.3 Psylla eggs / leaf (7 eggs / 25 leaves / 8 trees)
- 0.6 Psylla nymphs / leaf (14 nymphs / 25 leaves / 8 trees)
- 0.0 Spotted Green Fruitworm (SGFW) (0 / 0)
- 24.0 Spotted Tentiform Leafminer(STLM) (152 / 184)
- 1.7 Red Banded leafroller (RBLR) (9 / 15)
- 0.1 Oriental Fruit Moth (OFM) (1 / 1)
- 0.6 Lesser apple worm (LAW) (0 / 8)
- 2.0 Codling moth (CM) (14 / -) **FFlgt on 7 May**
- 1.7 Grape berry moth (GBM) (12)

Pear: 1st generation PP adult emergence & egg laying beginning.

1st generation hard shell and latter instar nymphs observed.

Apple: First sustained flight of codling moth observed on 7 May.

Plum curculio ovipositional damage observed along edge ranging from 10 to < 30% to fruitlets observed on G. Gold, Mac & R.D.

Low European apple sawfly damage observed on untreated fruit.

Mullein plant bug damage observed on G. Gold, Mac & R.D.

32% PC damage to G. Gold UTC fruitlets (80 / 100 clusters (250 fruit)

143.6 PC DD (308 DD₅₀ since petal fall (28 April) ends oviposition)

580.6 OFM DD from March 1 (1st gen larva 400-500 DD₄₅)

295.4 OFM DD from Biofix (1st gen larva 175 DD₄₅ post adult biofix)

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

0.61" Weekly Rainfall

0.76" Total Rainfall for May

8.17" Total Rainfall from 1 March

	43 F	45 F	48 F	50 F	# / trap / day (pheromone trap)
5/17	762.4	652.8	511.8	431.1	DD Accumulations 2009
					0.1 Psylla eggs / leaf (14 eggs / 100 leaves / 8 trees)
					0.2 Psylla nymphs / leaf (21 nymphs / 100 leaves / 8 trees)
					0.0 Spotted Green Fruitworm (SGFW) (0 / 0)
					5.5 Spotted Tentiform Leafminer(STLM) (25 / 52)
					0.6 Red Banded leafroller (RBLR) (5 / 4)
					0.6 Oriental Fruit Moth (OFM) (5 / 3)
					0.5 Lesser apple worm (LAW) (7 / 0)
					4.6 Codling moth (CM) (27 / 38)
					2.1 Grape berry moth (GBM) (15)
<hr/>					
					Pear: 1st generation PP adult emergence & egg laying beginning. Eggs and early instar nymphs observed.
					Apple: Increasing colonies of RAA observed in untreated apple Continued PC ovipositional damage observed along edge
					44% PC damage to G. Gold UTC fruitlets (44 / 100 clusters (200 fruit)
<hr/>					
					188.1 PC DD (308 DD ₅₀ since petal fall (28 April) ends oviposition)
					361.5 OFM DD from Biofix (1 st gen larva emerge 175 DD ₄₅ from biofix)
					55.6 CM DD ₅₀ from Biofix (1 st gen larva 250 DD ₅₀ post adult biofix)
					428.7 SJS DD from March 1 (crawler emergence begins at 500 DD ₅₀)
<hr/>					
					0.77" Weekly Rainfall
					1.53" Total Rainfall for May
					8.94" Total Rainfall from 1 March

	43 F	45 F	48 F	50 F	# / trap / day (pheromone trap)
5/24	762.4	652.8	511.8	431.1	DD Accumulations 2009
					5.0 Psylla eggs / leaf (496 eggs / 100 leaves / 8 trees)
					0.2 Psylla nymphs / leaf (16 nymphs / 100 leaves / 8 trees)
					0.0 Spotted Green Fruitworm (SGFW) (0 / 0)
					2.6 Spotted Tentiform Leafminer(STLM) (23 / 13)
					0.0 Oblique Banded leafroller (OBLR) (0 / 0)
					0.4 Red Banded leafroller (RBLR) (4 / 2)
					0.9 Oriental Fruit Moth (OFM) (12 / 1)
					0.5 Lesser apple worm (LAW) (7 / 0)
					3.2 Codling moth (CM) (22 / 23)
					1.7 Grape berry moth (GBM) (12)
<hr/>					
					Pear: 1st generation PP adult emergence & egg laying continuing. Increasing eggs and early instar nymphs observed.
					Apple: MALB feeding on colonies of RAA untreated apple
					Continued PC ovipositional damage observed along edge
				39%	PC damage to G. Gold UTC fruitlets (39 / 100 clusters (200 fruit)
<hr/>					
				270.0	PC DD (308 DD ₅₀ since petal fall (28 April) ends oviposition)
				26 May	PC: end of migration into orchards
				481.5	OFM DD from Biofix (1 st gen larva emerge 175 DD ₄₅ from biofix)
				141.5	CM DD ₅₀ from Biofix (1 st gen larva 250 DD ₅₀ post adult biofix)
				30 May	CM: 1st larva emergence predicted
				438.5	SJS DD from March 1 (crawler emergence begins at 500 DD ₅₀)
				26 May	SJS: 1st crawler emergence predicted
				28 May	OBLR: 1st Adult flight for summer generation
				29 May	RLH: Adult migration to apple
<hr/>					
				0.75"	Weekly Rainfall
				2.28"	Total Rainfall for May
				9.69"	Total Rainfall from 1 March
5/26					DD Accumulations 2009
				0.0	Oblique Banded leafroller (OBLR) (36 / 36) Fst Flt

	43 F	45 F	48 F	50 F	# / trap / day (pheromone trap)
6/1	1113.4	974.5	789.6	679.8	DD Accumulations 2009
					6.0 Psylla eggs / leaf (150 eggs / 25 leaves / 2 trees)
					1.4 Psylla nymphs / leaf (35 nymphs / 25 leaves / 2 trees)
					0.0 Spotted Green Fruitworm (SGFW) (0 / 0)
					25.0 Spotted Tentiform Leafminer(STLM) (187 / 163)
					8.9 Oblique Banded leafroller (OBLR) (47 / 42)
					0.0 Red Banded leafroller (RBLR) (0 / 0)
					0.0 Oriental Fruit Moth (OFM) (0 / 0)
					0.4 Lesser apple worm (LAW) (5 / 0)
					1.6 Codling moth (CM) (11 / 11)
					0.4 Grape berry moth (GBM) (3)
<hr/>					
					Pear: 2 nd generation continued nymph emergence & egg laying.
					Apple: SJS crawler and CM larva emergence predicted
<hr/>					
				436.8	PC DD (308 DD ₅₀ since petal fall (28 April) ends oviposition)
				26 May	PC: end of migration into orchards
				312.9	CM DD ₅₀ from Biofix 7 May (1 st gen larva 250 DD ₅₀ post biofix)
				29 May	CM: 1st larva emergence predicted
				438.5	SJS DD from March 1 (crawler emergence begins at 500 DD ₅₀)
				26 May	SJS: 1st crawler emergence predicted
				28 May	OBLR: 1st Adult flight for summer generation
				9 June	OBLR: summer brood larva emergence (360 DD₄₃)
				29 May	RLH: Adult migration to apple
<hr/>					
				0.0"	Weekly Rainfall
				2.28"	Total Rainfall for May
				9.69"	Total Rainfall from 1 March

	43 F	45 F	48 F	50 F	# / trap / day (pheromone trap)
6/7	1113.4	974.5	789.6	679.8	DD Accumulations 2009
					Psylla eggs / leaf (eggs / 25 leaves / 2 trees)
					Psylla nymphs / leaf (nymphs / 25 leaves / 2 trees)
				0.0	Spotted Green Fruitworm (SGFW) (0 / 0)
				46.8	Spotted Tentiform Leafminer (STLM) (268 / 294)
				4.3	Oblique Banded leafroller (OBLR) (24 / 28)
				< 0.1	Red Banded leafroller (RBLR) (1 / 0)
				0.0	Oriental Fruit Moth (OFM) (0 / 0)
				0.4	Lesser apple worm (LAW) (6 / 0)
				0.6	Codling moth (CM) (7 / 1)
				0.0	Grape berry moth (GBM) (0)
<hr/>					
Pear: 2 nd generation continued nymph emergence & egg laying. Nymph population above threshold (6/7 – field obser.)					
Apple: SJS crawler continuing, white cap phase (6/4 – field obser.) CM larva continued emergence (began 5/24 - model) 2 nd gen. STLM flight increasing (began 5/26)					
<hr/>					
				552.0	PC DD (308 DD ₅₀ since petal fall (28 April) ends oviposition)
				26 May	PC: end of migration into orchards
				423.5	CM DD ₅₀ from Biofix 7 May (1 st gen larva 250 DD ₅₀ post biofix)
				29 May	CM: 1st larva emergence predicted
				720.5	SJS DD from March 1 (crawler emergence begins at 500 DD ₅₀)
				26 May	SJS: 1st crawler emergence predicted
				28 May	OBLR: 1st Adult flight for summer generation
				9 June	OBLR: summer brood larva emergence (360 DD₄₃)
				29 May	RLH: Adult migration to apple
<hr/>					
				1.36"	Weekly Rainfall
				1.36"	Total Rainfall for June
				11.05"	Total Rainfall from 1 March

	43 F	45 F	48 F	50 F	# / trap / day (pheromone trap)
6/14	1364.0	1188.5	1124.0	802.5	DD Accumulations 2009
					0.6 Psylla eggs / leaf (eggs / 25 leaves / 2 trees)
					0.2 Psylla nymphs / leaf (nymphs / 25 leaves / 2 trees)
					0.0 Spotted Green Fruitworm (SGFW) (0 / 0)
					28.1 Spotted Tentiform Leafminer (STLM) (171 / 223)
					4.4 Obliquebanded leafroller (OBLR) (38 / 24)
					0.0 Red Banded leafroller (RBLR) (0 / 0)
					0.0 Oriental Fruit Moth (OFM) (0 / 0)
					0.5 Lesser apple worm (LAW) (7 / 0)
					0.3 Codling moth (CM) (1 / 3)
					0.0 Grape berry moth (GBM) (0)
<hr/>					
Pear: 2 nd generation continued nymph emergence & egg laying. Nymph population below threshold (6/14 – field obser.)					
Apple: OBLR larva emergence (began 6/9 – NEWA model) CM larva continued emergence (began 5/24 - model) 2 nd gen. STLM flight increasing (began 5/26) SJS crawler continuing, black cap phase (6/4 – field obser.)					
<hr/>					
				505.0	CM DD ₅₀ from Biofix 7 May (1 st gen larva 250 DD ₅₀ post biofix)
				29 May	CM: 1st larva emergence predicted
				28 May	OBLR: 1st Adult flight for summer generation
				388.0	OBLR: DD from 1st Adult flight for summer generation
				9 June	OBLR: summer brood larva emergence (360 DD₄₃)
				29 May	RLH: Adult migration to apple
				18 June	RLH: predicted nymph emergence on apple
				803.0	SJS DD from March 1 (crawler emergence begins at 500 DD ₅₀)
				26 May	SJS: 1st crawler emergence predicted
				7 June	SJS: White cap observed (7 June), Fruit damage obser. (14 June)
				634.0	PC DD (308 DD ₅₀ since petal fall (28 April) ends oviposition)
				26 May	PC: end of migration into orchards
<hr/>					
				1.39"	Weekly Rainfall
				2.75"	Total Rainfall for June
				12.44"	Total Rainfall from 1 March

	43 F	45 F	50 F	# / trap / day (pheromone trap)
6/21	1547.5	1358.0	937.0	DD Accumulations 2009
				1.19 Psylla eggs / leaf (119 eggs / 25 leaves / 4 trees)
				1.75 Psylla nymphs / leaf (175 nymphs / 25 leaves / 4 trees)
				105.0 Spotted Tentiform Leafminer (STLM) (563 / 907)
				8.9 Obliquebanded leafroller (OBLR) (65 / 64)
				0.0 Red Banded leafroller (RBLR) (0 / 0)
				1.6 Oriental Fruit Moth (OFM) (17 / 5)
				2.6 Lesser apple worm (LAW) (18 / 18)
				0.4 Codling moth (CM) (3 / 2)
				0.0 Grape berry moth (GBM) (0)
				0.0 Apple Maggot (AM) (0 / 0 / 0 / 0)
<hr/>				
				Pear: 2 nd generation continued nymph emergence & egg laying. Nymph population below threshold (6/21 – field obser.)
				Apple: OFM & LAW 2 nd gen. adult obser. PLH adult and nymph present OBLR larva emergence (began 6/9 – NEWA model) CM larva continued emergence (began 5/24 - model) 2 nd gen. STLM flight increasing (began 5/26) SJS crawler continuing, black cap phase (6/4 – field obser.) 2 nd generation OFM & LAW obser, in pheromone trap
<hr/>				
				25 June OFM: summer brood larva emergence (1450 DD ₄₅ 1 st . gen biofix)
			640.0	CM DD ₅₀ from Biofix 7 May (1 st gen larva 250 DD ₅₀ post biofix)
				29 May CM: 1st larva emergence predicted
				28 May OBLR: 1 st Adult flight for summer generation
			571	OBLR: DD from 1 st Adult flight for summer generation
				9 June OBLR: summer brood larva emergence (360 DD ₄₃)
				25 June OFM: summer brood larva emergence (1450 DD ₄₅)
				29 May RLH: Adult migration to apple
				18 June RLH: predicted nymph emergence on apple
				7 June SJS: White cap observed (7 June), Fruit damage obser. (14 June)
<hr/>				
			0.03"	Weekly Rainfall
			2.78"	Total Rainfall for June
			12.47"	Total Rainfall from 1 March

	43 F	45 F	50 F	# / trap / day (pheromone trap)
6/28	1101.0	1609.0	783.5	DD Accumulations 2009
				0.5 Psylla eggs / leaf (50 eggs / 100 leaves of 4 trees)
				0.4 Psylla nymphs / leaf (41 nymphs / 100 leaves of 4 trees)
				123.3 Spotted Tentiform Leafminer (STLM) (734 / 992)
				5.4 Obliquebanded leafroller (OBLR) (33 / 43)
				1.9 Red Banded leafroller (RBLR) (11 / 15)
				1.8 Oriental Fruit Moth (OFM) (8 / 17)
				1.1 Lesser apple worm (LAW) (5 / 10)
				0.0 Codling moth (CM) (0 / 0)
				0.0 Grape berry moth (GBM) (0)
				2.75 Apple Maggot (AM) (4 / 0 / 3 / 4)
<hr/>				
				Pear: 3 rd generation continued nymph hatch beginning Nymph population below threshold (6/28 – field obser.)
				Apple: AM adult below threshold at 3.0 /trap total since 6/21 Japanese beetle adult & feeding observed PLH adult and nymph feeding damage obser. OBLR larva fruit and foliar feeding damage obser. RBLR 2 nd gen. flight beginning CM larva feeding and frass observed on fruit 2 nd gen. STLM flight increasing (began 5/26) 2 nd generation OFM & LAW decreasing in pheromone trap
<hr/>				
				0.73” Weekly Rainfall
				3.51” Total Rainfall for June
				13.20” Total Rainfall from 1 March

	43 F	45 F	50 F	# / trap / day (pheromone trap)
7/6	1985.0	1765.5	1296.5	DD Accumulations 2009
				0.3 Psylla eggs / leaf (31 eggs / 100 leaves of 4 trees)
				0.2 Psylla nymphs / leaf (17 nymphs / 100 leaves of 4 trees)
				63.8 Spotted Tentiform Leafminer (STLM) (535 / 486)
				1.8 Obliquebanded leafroller (OBLR) (12 / 17)
				2.1 Red Banded leafroller (RBLR) (11 / 23)
				3.1 Oriental Fruit Moth (OFM) (24 / 25)
				1.8 Lesser apple worm (LAW) (19 / 10)
				1.5 Codling moth (CM) (10 / 14) 2nd gen. flight begins
				0.0 Grape berry moth (GBM) (0)
				< 0.1 Apple Maggot (AM) (0 / 0 / 0 / 2)
<hr/>				
				Pear: 3 rd generation continued nymph hatch beginning Nymph population above threshold (7/3 – field obser., Milton, NY)
				Apple: AM adult below threshold 3.3 /trap total (4 trap mean 6/21) Japanese beetle adult populations light PLH adult and nymph feeding damage continuing OBLR larva fruit and foliar feeding damage continuing RBLR 2 nd gen. flight increasing CM larva feeding and frass observed with live larva observed (7/6) 2 nd gen. STLM flight decreasing (began 5/26) 2 nd generation OFM & LAW continuing in pheromone trap
<hr/>				
				0.0” Weekly Rainfall
				0.0” Total Rainfall for July
				13.2” Total Rainfall from 1 March

	43 F	45 F	50 F	# / trap / day (pheromone trap)
7/12	2200.0	1968.5	1442.5	DD Accumulations 2009
				0.9 Psylla eggs / leaf (22 eggs / 25 leaves of 2 trees)
				0.4 Psylla nymphs / leaf (9 nymphs / 25 leaves of 2 trees)
				36.8 Spotted Tentiform Leafminer (STLM) (224 / 291)
				0.7 Obliquebanded leafroller (OBLR) (3 / 7)
				1.0 Red Banded leafroller (RBLR) (2 / 12)
				3.6 Oriental Fruit Moth (OFM) (29 / 21)
				1.7 Lesser apple worm (LAW) (9 / 15)
				1.6 Codling moth (CM) (10 / 13)
				0.0 Grape berry moth (GBM) (0)
				0.5 Apple Maggot (AM) (2 / 1 / 0 / 4)
<hr/>				
				Pear: 3 rd generation continued nymph hatch
				Pear rust mite present and increasing
				Apple: AM adult above threshold 5.8 /trap total
				Japanese beetle adult populations continue to be light
				PLH adult and nymph feeding damage continuing
				OBLR larva fruit and foliar feeding damage continuing
				RBLR 2 nd gen. flight decreasing
				CM flight increasing
				2 nd gen. STLM flight decreasing (began 5/26)
				2 nd generation OFM increasing in pheromone trap
				2 nd generation LAW continuing in pheromone trap
			1442.5	SJS DD from March 1 (1451 DD ₅₀ 2 nd gen. crawler emergence)
				SJS 2 nd gen. crawler emergence predicted for 7/12
<hr/>				
				0.3" Weekly Rainfall
				0.3" Total Rainfall for July
				13.5" Total Rainfall from 1 March

7/19 43 F 45 F 50 F
2411.5 2196.0 1635.0

/ trap / day (pheromone trap)

DD Accumulations 2009
0.7 Psylla eggs / leaf (73 eggs / 100 leaves of 8 trees)
0.2 Psylla nymphs / leaf (20 nymphs / 100 leaves of 8 trees)
29.9 Spotted Tentiform Leafminer (STLM) (125 / 293)
0.9 Obliquebanded leafroller (OBLR) (5 / 8)
1.0 Red Banded leafroller (RBLR) (7 / 7)
2.9 Oriental Fruit Moth (OFM) (20 / 21)
1.1 Lesser apple worm (LAW) (6 / 9)
2.2 Codling moth (CM) (15 / 16)
0.0 Grape berry moth (GBM) (0)
0.5 Apple Maggot (AM) (1 / 2 / 3 / 8)

Pear: 3rd generation continued nymph hatch
Psylla nymph and egg decreasing
Apple: AM adult above threshold / increasing (8.6 /trap total)
Japanese beetle adult populations continue on apple
PLH adult and nymph feeding damage continuing
RBLR 2nd gen. flight decreasing
CM flight increasing
2nd gen. STLM flight decreasing (began 5/26)
2nd generation OFM decreasing in pheromone trap
2nd generation LAW decreasing in pheromone trap

0.16" Weekly Rainfall
0.5" Total Rainfall for July
13.7" Total Rainfall from 1 March

7/26 43 F 45 F 50 F
2670.5 2411.0 1815.0

/ trap / day (pheromone trap)

DD Accumulations 2009

0.3 Psylla eggs / leaf (25 eggs / 100 leaves of 8 trees)
0.1 Psylla nymphs / leaf (14 nymphs / 100 leaves of 8 trees)
13.1 Spotted Tentiform Leafminer (STLM) (89 / 94)
0.7 Obliquebanded leafroller (OBLR) (5 / 5)
1.3 Red Banded leafroller (RBLR) (4 / 14)
4.7 Oriental Fruit Moth (OFM) (32 / 34)
1.9 Lesser apple worm (LAW) (11 / 15)
4.4 Codling moth (CM) (41 / 21)
0.0 Grape berry moth (GBM) (0)
0.7 Apple Maggot (AM) (4 / 3 / 7 / 6)

Pear: 3rd generation continued nymph hatch
Psylla nymph and egg decreasing
Apple: AM adult above threshold / increasing (13.0 /trap total)
Japanese beetle adult populations continue on apple
PLH adult and nymph feeding damage continuing
RBLR 2nd gen. flight continuing
CM flight increasing (began 6/29)
2nd gen. STLM flight decreasing (began 5/26)
2nd generation OFM decreasing in pheromone trap
2nd generation LAW decreasing in pheromone trap
Buffalo tree hopper observed in newly established trees

1.14" Weekly Rainfall
1.60" Total Rainfall for July
14.8" Total Rainfall from 1 March

8/2 43 F 45 F 50 F
2876.0 2602.5 1971.5

/ trap / day (pheromone trap)

DD Accumulations 2009
0.3 Psylla eggs / leaf (12 eggs / 100 leaves of 8 trees)
0.1 Psylla nymphs / leaf (8 nymphs / 100 leaves of 8 trees)
0.5 TSSM feeding (50 mite / 100 leaves of 8 trees)
14.6 Spotted Tentiform Leafminer (STLM) (64 / 141)
1.5 Obliquebanded leafroller (OBLR) (12 / 9)
0.0 Red Banded leafroller (RBLR) (0 / 0)
0.5 Oriental Fruit Moth (OFM) (4 / 3)
1.4 Lesser apple worm (LAW) (11 / 9)
1.2 Codling moth (CM) (8 / 9)
0.0 Grape berry moth (GBM) (0)
0.6 Apple Maggot (AM) (3 / 2 / 7 / 6)

Pear: 3rd generation continued nymph hatch
Psylla nymph and egg decreasing
TSSM feeding on young foliage
Apple: AM adult increasing (17.7 /trap season total)
PLH adult and nymph feeding damage continuing
RBLR 2nd gen. flight ended
OBLR 2nd gen. flight increasing (began 7/26)
CM flight decreasing (began 6/29)
2nd gen. STLM flight decreasing (began 5/26)
2nd generation OFM decreasing in pheromone trap
2nd generation LAW decreasing in pheromone trap

0.13" Weekly Rainfall
1.61" Total Rainfall for July
0.13" Total Rainfall for August
14.8" Total Rainfall from 1 March

8/9 43 F 45 F 50 F
 3313.5 3012.0 2311.0

/ trap / day (pheromone trap)

DD Accumulations 2009
0.3 Psylla eggs / bud (26 eggs / 100 lvs. / 5 trees)
0.2 Psylla nymphs / bud (22 nymphs / 100 lvs. / 5 trees)
19.2 Spotted Tentiform Leafminer (STLM) (143 / 126)
0.7 Red Banded leafroller (RBLR) (12 / 9)
0.0 Grape berry moth (GBM) (3 / 0)
1.4 Codling moth (CM) (1 / 0)
0.0 Lesser apple worm (LAW) (2 / 4)
7.4 Oriental Fruit Moth (OFM) (18 / 18)
2.4 Obliquebanded leafroller (OBLR) (18 / 18)
0.2 Apple maggot (AM) (1 / 3 / 11)
24.9 Apple maggot accumulations: 24.9 / trap / season

0.5" Weekly Rainfall
1.2" Total Rainfall for August
16.1" Total Rainfall from 1 March

	43 F	45 F	50 F	# / trap / day (pheromone trap)
8/23	3512.0	3196.5	2460.5	DD Accumulations 2009
				0.2 Psylla eggs / leaf (20 eggs / 100 leaves of 8 trees)
				< 0.1 Psylla nymphs / leaf (3 nymphs / 100 leaves of 8 trees)
				15.4 Spotted Tentiform Leafminer (STLM) (102 / 113)
				1.8 Obliquebanded leafroller (OBLR) (12 / 9)
				1.1 Red Banded leafroller (RBLR) (12 / 3)
				7.8 Oriental Fruit Moth (OFM) (51 / 58)
				0.3 Lesser apple worm (LAW) (1 / 3)
				1.6 Codling moth (CM) (19 / 4)
				0.0 Grape berry moth (GBM) (0)
				0.2 Apple Maggot (AM) (2 / 3 / 1 / 0)
				26.5 Apple Maggot Accum (AM)
<hr/>				
				3.6" Weekly Rainfall
				4.8" Total Rainfall for August
				19.7" Total Rainfall from 1 March

	43 F	45 F	50 F	# / trap / day (pheromone trap)
8/30	3678	3348.5	2577.5	DD Accumulations 2009
				0.5 Psylla eggs / leaf (51 eggs / 100 leaves of 8 trees)
				0.1 Psylla nymphs / leaf (3 nymphs / 100 leaves of 8 trees)
				7.9 Spotted Tentiform Leafminer (STLM) (65 / 46)
				0.2 Obliquebanded leafroller (OBLR) (2 / 1)
				2.4 Red Banded leafroller (RBLR) (28 / 6)
				6.29 Oriental Fruit Moth (OFM) (44 / 44)
				0.5 Lesser apple worm (LAW) (4 / 3)
				0.9 Codling moth (CM) (5 / 7)
				0.0 Grape berry moth (GBM) (0)
				0.2 Apple Maggot (AM) (2 / 3 / 1 / 0)
				27.8 Apple Maggot Accum (AM)
<hr/>				
				1.4" Weekly Rainfall
				6.22" Total Rainfall for August
				21.1" Total Rainfall from 1 March

	43 F	45 F	50 F	# / trap / day (pheromone trap)
9/7	3910.0	3564.5	2732.5	DD Accumulations 2009
				0.2 Psylla eggs / leaf (15 eggs / 100 leaves of 8 trees)
				< 0.1 Psylla nymphs / leaf (6 nymphs / 100 leaves of 8 trees)
				8.4 Spotted Tentiform Leafminer (STLM) (72 / 63)
				0.2 Obliquebanded leafroller (OBLR) (0 / 3)
				0.9 Red Banded leafroller (RBLR) (12 / 3)
				6.8 Oriental Fruit Moth (OFM) (70 / 38)
				0.4 Lesser apple worm (LAW) (4 / 2)
				0.4 Codling moth (CM) (5 / 2)
				0.0 Grape berry moth (GBM) (0)
				< 0.1 Apple Maggot (AM) (0 / 0 / 0 / 3)
				28.8 Apple Maggot Accum (AM)
<hr/>				
				0.0" Weekly Rainfall
				6.22" Total Rainfall for August
				0.0" Total Rainfall for September
				21.1" Total Rainfall from 1 March