

# 2018 Hudson Valley Research Lab Scouting Report

NYSAES Entomology Dept., Highland, NY

<u>Date</u>	<u>Baskerville-Emin (BE)</u>		<u>Field Observations / Trap Catches / Models</u>	
	<u>DD Accumulations (previous day NEWA)</u>			
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>	
3/21	86.8	34.1		Beginning degree day accumulations beginning 1 January, 2018
			0.0	Spotted Green Fruitworm (SGFW) (0/0)
			0.0	Redbanded Leafroller (RBLR) (0/0)
			0.0	Spotted Tentiform Leafminer (STLM) (0/0)
				Codling Moth (CM) (0/0)
			0.0	Psylla eggs / bud (0 egg / 25 buds / 5 UT Bart. stems)
				Psylla nymph / bud (0 nym. / 25 buds/ 5 UT Bart. stems)
				Apple – McIntosh – Dormant
				Apple – Empire, Ginger Gold, Spur Red Delicious – Dormant
				Pear – Bartlett / Bosc – Dormant
			0.52	Weekly Rainfall
			2.06	Total Rainfall (From 1 March, 2018)

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<u>Date</u>	<u>DD Accumulations (previous day NEWA)</u>		<u>Field Observations / Trap Catches / Models</u>	
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>	
3/26	89.4	34.1	0.0	Spotted Green Fruitworm (SGFW) (0/0)
			0.0	Redbanded Leafroller (RBLR) (0/0)
			0.0	Spotted Tentiform Leafminer (STLM) (0/0)
			0.0	Codling Moth (CM) (0/0)
			0.0	Psylla eggs / bud (0 egg / 25 buds / 5 UT Bart. stems)
				Psylla nymph / bud (0 nym. / 25 buds/ 5 UT Bart. stems)
				Apple – McIntosh – Dormant
				Apple – Empire, Ginger Gold, Spur Red Delicious – Dormant
				Pear – Bartlett / Bosc – Dormant
			0.0	Weekly Rainfall
			2.06	Total Rainfall (From 1 March, 2018)

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<b>Baskerville-Emin (BE)</b>			
<b><u>Date</u></b>	<b><u>DD Accumulations (previous day NEWA)</u></b>		<b><u>Field Observations / Trap Catches / Models</u></b>
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
3/28	91.1	34.1	Beginning degree day accumulations beginning 1 January, 2018
			0.25 Spotted Green Fruitworm (SGFW) (0/1) <b>First Catch</b>
			0.0 Redbanded Leafroller (RBLR) (0/0)
			0.0 Spotted Tentiform Leafminer (STLM) (0/0)
			0.0 Codling Moth (CM) (0/0)
			0.0 Psylla eggs / bud (0 egg / 25 buds / 5 UT Bart. stems)
			Psylla nymph / bud (0 nym. / 25 buds/ 5 UT Bart. stems)
			Apple – McIntosh – Dormant
			Apple – Empire, Ginger Gold, Spur Red Delicious – Dormant
			Pear – Bartlett / Bosc – Dormant
			0.07 Weekly Rainfall
			2.59 Total Rainfall (From 1 March, 2018)

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<b><u>Date</u></b>	<b><u>DD Accumulations (previous day NEWA)</u></b>		<b><u>Field Observations / Trap Catches / Models</u></b>
<b>4/2</b>	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
	110.8	37.4	0.2 Spotted Green Fruitworm (SGFW) (0/2)
			0.4 Redbanded Leafroller (RBLR) (3/1) <b>First Catch</b>
			0 Spotted Tentiform Leafminer (STLM) (0/0)
			0 Codling Moth (CM) (0/0)
			0.08 Psylla eggs / bud (2 egg / 25 buds / 5 UT Bart. stems) <b>First Catch</b>
			Psylla nymph / bud (0 nym. / 25 buds/ 5 UT Bart. stems)
			Apple – McIntosh – Dormant
			Apple – Empire, Ginger Gold, Spur Red Delicious – Dormant
			Pear – Bartlett / Bosc – Dormant
			0.21 Weekly Rainfall
			2.73 Total Rainfall (From 1 March, 2018)

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<b><u>Date</u></b>	<b><u>DD Accumulations (previous day NEWA)</u></b>		<b><u>Field Observations / Trap Catches / Models</u></b>
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
4/9	116.0	39.0	Beginning degree day accumulations beginning 1 January, 2018
			0.0 Spotted Green Fruitworm (SGFW) (0/0)
			0.0 Redbanded Leafroller (RBLR) (0/0)
			0.0 Spotted Tentiform Leafminer (STLM) (0/0)
			0.0 Codling Moth (CM) (0/0)
			0.0 Brown Marmorated Stink Bug (BMSB)
			0.92 Psylla eggs / bud (23 egg / 25 buds / 5 UT Bart. stems) Psylla nymph / bud (0 nym. / 25 buds/ 5 UT Bart. stems)
			Apple – McIntosh – 48.5% dormant, 49.5% silver tip, 2% green tip
			Pear – Bartlett / Bosc – Dormant
			1.08 Weekly Rainfall
			3.81 Total Rainfall (From 1 March, 2018)

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<b><u>Date</u></b>	<b><u>DD Accumulations (previous day NEWA)</u></b>		<b><u>Field Observations / Trap Catches / Models</u></b>
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
4/16	145.8	52.4	0.0 Spotted Green Fruitworm (SGFW) (0/0)
			4.0 Redbanded Leafroller (RBLR) (42/14)
			0.0 Spotted Tentiform Leafminer (STLM) (0/0)
			0.0 Codling Moth (CM) (0/0)
			0.0 Brown Marmorated Sitnk Bug (BMSB)
			1.24 Psylla eggs / bud (31 eggs / 25 buds / 5 UT Bart. stems) Psylla nymph / bud (0 nym. / 25 buds/ 5 UT Bart. stems)
			Apple – McIntosh – 33% green tip
			Apple – Ginger Gold – 55.4 green tip
			Apple – Red Delicious – 46.9% green tip
			Apple – Golden Delicious – 15.4% green tip
			Pear – Bartlett – 58% swollen bud
			Pear – Bosc – 10% bud burst
			0.11 Weekly Rainfall
			3.92 Total Rainfall (From 1 March, 2018)

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<b><u>Date</u></b>	<b><u>DD Accumulations (previous day NEWA)</u></b>		<b><u>Field Observations / Trap Catches / Models</u></b>
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
4/23	165.2	59.1	Beginning degree day accumulations beginning 1 January, 2018
			0.08 Spotted Green Fruitworm (SGFW) (1/0)
			1.4 Redbanded Leafroller (RBLR) (15/2) <b>First Sustained Catch</b>
			0.5 Spotted Tentiform Leafminer (STLM) (6/0) <b>First Catch</b>
			0.0 Codling Moth (CM) (0/0)
			0.0 Oriental Fruit Moth (OFM) (0/0)
			0.25 Lesser Apple Worm (LAW) (0/3) <b>First Catch</b>
			0.0 Brown Marmorated Stink Bug (BMSB)
			0.96 Psylla eggs / bud (24 egg / 25 buds / 5 UT Bart. stems) Psylla nymph / bud (0 nym. / 25 buds/ 5 UT Bart. stems)
			Apple – McIntosh – 30% ½” green
			Apple – Ginger Gold – 44.8% ½” green
			Apple – Red Delicious – 31.3% ½” green
			Apple – Golden Delicious – 9.0% ½” green
			Pear – Bartlett – 39.1% bud burst
			Pear – Bosc – 40.7% bud burst
			Peach – Early – 32.4% bud burst
			Peach – Late – 25.4% bud burst
			Cherry – Black Pearl – 100% swollen bud
			Cherry – Regina – 62.4% swollen bud
			Plum-- Stanley – 53.2% swollen bud
			2.22 Weekly Rainfall
			6.14 Total Rainfall (From 1 March, 2018)
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	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
4/26	212.4	83.6	Beginning degree day accumulations beginning 1 January, 2018
			1.16 Psylla eggs / bud (29 egg / 25 buds / 5 UT Bart. stems)
			0.04 Psylla nymph / bud (1 nym. / 25 buds/ 5 UT Bart. stems) <b>First Catcl</b>
			0.62 Weekly Rainfall
			6.76 Total Rainfall (From 1 March, 2018)



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<b><u>Date</u></b>	<b><u>DD Accumulations (previous day NEWA)</u></b>		<b><u>Field Observations / Trap Catches / Models</u></b>
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
4/30	236.6	92.8	Beginning degree day accumulations beginning 1 January, 2018
			0.0 Spotted Green Fruitworm (SGFW) (0/0)
			13.9 Redbanded Leafroller (RBLR) (142/53)
			4.1 Spotted Tentiform Leafminer (STLM) (36/22) <b>First Sustained Catc</b>
			0.0 Codling Moth (CM) (0/0)
			0.0 Oriental Fruit Moth (OFM) (0/0)
			0.6 Lesser Apple Worm (LAW) (8/1) <b>First Sustained Catch</b>
			0.0 Brown Marmorated Stink Bug (BMSB)
			1.76 Psylla eggs / bud (44 egg / 25 buds / 5 UT Bart. stems)
			0.04 Psylla nymph / bud (1 nym. / 25 buds/ 5 UT Bart. stems)
			<b>First sustained nymph count</b>
			Apple – McIntosh – 52% ½” green
			Apple – Ginger Gold – 3% tight cluster
			Apple – Red Delicious – 92% ½” green
			Apple – Golden Delicious – 32% ½” green
			Pear – Bartlett – 4% green cluster
			Pear – Bosc – 30% bud burst
			Peach – Early – 81% ½” green
			Peach – Late – 38% ½” green
			Plum-- Stanley – 87% bud burst
			1.53 Weekly Rainfall
			7.67 Total Rainfall (From 1 March, 2018)
5/2	236.6	92.8	Beginning degree day accumulations beginning 1 January, 2018
			2.0 Brown Marmorated Stink Bug (BMSB) <b>First Trap Catch</b>
			1.66 Weekly Rainfall
			7.67 Total Rainfall (From 1 March, 2018)



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<u>Date</u>	<u>DD Accumulations (previous day NEWA)</u>		<u>Field Observations / Trap Catches / Models</u>
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
5/7	389.5	204.1	Beginning degree day accumulations beginning 1 January, 2018
			0.0 Spotted Green Fruitworm (SGFW) (0/0)
			21.9 Redbanded Leafroller (RBLR) (169/138)
			6.0 Spotted Tentiform Leafminer (STLM) (45/40)
			0.0 Codling Moth (CM) (0/0)
			7.4 Oriental Fruit Moth (OFM) (54/50) <b>First Catch</b>
			0.0 Lesser Apple Worm (LAW) (0/0)
			5.25 Brown Marmorated Stink Bug (BMSB) <b>First sustained catch</b>
			1.8 Psylla eggs / bud (45 egg / 25 leaves / 5 UT Bart.)
			0.4 Psylla nymph / bud (9 nym. / 25 leaves/ 5 UT Bart.)
			Apple – McIntosh – 48% bloom
			Apple – Ginger Gold – 42% bloom
			Apple – Red Delicious – 52% bloom
			Apple – Golden Delicious – 22% bloom
			Pear – Bartlett – 99% bloom
			Pear – Bosc – 88% bloom
			Peach – Early – 64% petal fall
			Peach – Late – 33% petal fall
			Sweet Cherry – 91% bloom
			Plum-- Stanley – 96% bloom
			0.43 Weekly Rainfall
			8.1 Total Rainfall (From 1 March, 2018)

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	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
5/14	495.1	261.8	Beginning degree day accumulations beginning 1 January, 2018
			0.0 Spotted Green Fruitworm (SGFW) (0/0)
			18.9 Redbanded Leafroller (RBLR) (131/133)
			2.4 Spotted Tentiform Leafminer (STLM) (22/12)
			0.07 Codling Moth (CM) (1/0) <b>First Catch</b>
			19.9 Oriental Fruit Moth (OFM) (141/138/) <b>First Sustained Catch</b>
			0.0 Lesser Apple Worm (LAW) (0/0)
			1.6 Brown Marmorated Stink Bug (BMSB) (11)
			0.0 San Jose Scale (SJS)
			0.16 Psylla eggs / bud (4 egg / 25 leaves / 5 UT Bart.)
			0.5 Psylla nymph / bud (13 nym. / 25 leaves/ 5 UT Bart.)
			0.0 Spotted Wing Drosophila (SWD)
			OBLR 0.5% in UT Ginger Gold
			SGFW 0.5% in UT Ginger Gold
			Plum Curculio (PC) 0.5% in UT Ginger Gold Fruitlets
			Tarnished Plant bug (TPB) 0.5% in UT Ginger Gold Fruitlets
			Apple – McIntosh – 3% Fruit Set
			Apple – Ginger Gold – 66% Petal Fall
			Apple – Red Delicious – 43% Petal Fall
			Apple – Golden Delicious – 31% Petal Fall
			Pear – Bartlett – 65% Fruit Set
			Pear – Bosc – 59% Fruit Set
			Peach – Early – 49% Fruit Set, Shucks on
			Peach – Late – 37% Fruit Set, Shucks on
			Sweet Cherry – 8% Fruit Set
			Plum-- Stanley – 77% Petal Fall
			0.84 Weekly Rainfall
			8.94 Total Rainfall (From 1 March, 2018)
5/18	604.7	336.4	Beginning degree day accumulations beginning 1 January, 2018
			30.9 San Jose Scale (SJS) <b>First Trap Catch</b>



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	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
5/21	635.0	354.1	Beginning degree day accumulations beginning 1 January, 2018
			0.0 Spotted Green Fruitworm (SGFW) (0/0)
			5.8 Redbanded Leafroller (RBLR) (33/48)
			1.5 Spotted Tentiform Leafminer (STLM) (10/11)
			1.6 Codling Moth (CM) (12/11/0) <b>First Sustained Catch</b>
			18.4 Oriental Fruit Moth (OFM) (130/128)
			0.0 Lesser Apple Worm (LAW) (0/0)
			0.85 Brown Marmorated Stink Bug (BMSB) (6)
			31.0 San Jose Scale (SJS) <b>First Sustained Catch</b>
			0.96 Psylla eggs / bud (24 egg / 25 leaves / 5 UT Bart.)
			0.88 Psylla nymph / bud (22 nym. / 25 leaves/ 5 UT Bart.)
			0.0 Spotted Wing Drosophila (SWD)
			OBLR 0.0% in UT Ginger Gold
			SGFW 0.0% in UT Ginger Gold
			Plum Curculio (PC) 5.0% in UT Ginger Gold Fruitlets
			Tarnished Plant bug (TPB) 8.0% in UT Ginger Gold Fruitlets
			Apple – McIntosh – 100% Fruit Set
			Apple – Ginger Gold – 92% Fruit Set
			Apple – Red Delicious – 97% Fruit Set
			Apple – Golden Delicious – 90% Fruit Set
			Pear – Bartlett – 100% Fruit Set
			Pear – Bosc – 100% Fruit Set
			Peach – Early – 18% Fruit Set, Shucks off
			Peach – Late – 8% Fruit Set, Shucks off
			Sweet Cherry – 83% Fruit Set
			Plum-- Stanley – 100% Fruit Set
			2.18 Weekly Rainfall
			11.11 Total Rainfall (From 1 March, 2018)

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	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
5/29	829.8	493.3	Beginning degree day accumulations beginning 1 January, 2018
			0.0 Spotted Green Fruitworm (SGFW) (0/0)
			2.5 Redbanded Leafroller (RBLR) (26/14)
			0.9 Spotted Tentiform Leafminer (STLM) (7/8)
			8.1 Codling Moth (CM) (73/57)
			<b>29 May CM model: 1<sup>st</sup> CM larval emergence</b>
			9.25 Oriental Fruit Moth (OFM) (62/85)
			0.9 Lesser Apple Worm (LAW) (2/12) <b>First Catch</b>
			1.85 Brown Marmorated Stink Bug (BMSB) (12)
			711.6 San Jose Scale (SJS) (3,336/8,050)
			<b>170 DD 5<sup>th</sup> June SJS model for 1<sup>st</sup> gen. crawler emergence</b>
			4.88 Psylla eggs / bud (122 egg / 25 leaves / 5 UT Bart.)
			0.68 Psylla nymph / bud (17 nym. / 25 leaves/ 5 UT Bart.)
			0.0 Spotted Wing Drosophila (SWD) (0/0)
			OBLR 2.0% in UT Ginger Gold
			SGFW 2.0% in UT Ginger Gold
			OFM 6.0% in UT Ginger Gold
			Plum Curculio (PC) 34.0% in UT Ginger Gold Fruitlets
			Tarnished Plant bug (TPB) 17.0% in UT Ginger Gold Fruitlets
			Lepidopteran Feeding 4% in UT Ginger Gold Fruitlets
			0.17 Weekly Rainfall
			11.28 Total Rainfall (From 1 March, 2018)

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	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
6/4	996.8	618.2	Beginning degree day accumulations beginning 1 January, 2018
<b>Trap Captures (Attractant / Pheromone)</b>			
<b>Apple</b>			
			0.42 Redbanded Leafroller (RBLR) (3/3)
			0.2 Spotted Tentiform Leafminer (STLM) (2/1)
			8.3 Codling Moth (CM) (70/47)
			1.92 Oriental Fruit Moth (OFM) (0/27)
			0.5 Dogwood Borer (DWB) (1/2) <b>First Catch</b>
			0.42 Lesser Apple Worm (LAW) (3/3) <b>First Sustained Catch</b>
			0.42 Brown Marmorated Stink Bug (BMSB) (3)
			2.42 San Jose Scale (SJS) (26/8)
			2.7 Obliquebanded Leafroller (OBLR) (13/3) <b>First Catch</b>
<b>Apple</b>			
			10.4 Psylla eggs / bud (260 egg / 25 leaves / 5 UT Bart.)
			5.76 Psylla nymph / bud (144 nym. / 25 leaves/ 5 UT Bart.)
<b>Cherry, Small Fruit, Alternate Hosts</b>			
			0.0 Spotted Wing Drosophila (SWD) (0/0)
<b>Predictive Modeling</b>			
			<b>357DD CM model: Moth flight peaks &amp; majority of eggs hatch</b>
			<b>357DD PC model: Adult migration ends</b>
			<b>295 DD SJS Model: Today (6/4) SJS model for 1<sup>st</sup> gen. crawlers emergence (260-360 Base 50)</b>
			<b>No crawler emergence at HVRL on 6/4</b>
<b>Tree Fruit Injury in UTC</b>			
			OBLR 0.0% in UT Ginger Gold
			SGFW 1.8% in UT Ginger Gold
			OFM 41.0% in UT Ginger Gold
			Plum Curculio (PC) 77.0% in UT Ginger Gold Fruitlets
			Tarnished Plant bug (TPB) 39.0% in UT Ginger Gold Fruitlets
			Lepidopteran Feeding 15% in UT Ginger Gold Fruitlets
<b>Rainfall</b>			
			0.76 Weekly Rainfall
			12.05 Total Rainfall (From 1 March, 2018)



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	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
6/11	1137.7	710.0	Beginning degree day accumulations beginning 1 January, 2018
<b>Trap Captures (Attractant / Pheromone)</b>			
<b>Apple</b>			
			0.0 Redbanded Leafroller (RBLR) (0/0)
			0.6 Spotted Tentiform Leafminer (STLM) (0/8/)
			3.8 Codling Moth (CM) (30/23)
			3.4 Oriental Fruit Moth (OFM) (41/6)
			0.2 Dogwood Borer (DWB) (1/2) <b>First Sustained Catch</b>
			0.4 Lesser Apple Worm (LAW) (1/5)
			0.0 Brown Marmorated Stink Bug (BMSB) (0)
			0.0 San Jose Scale (SJS) (0/0)
			31.8 Obliquebanded Leafroller (OBLR) (31/12) <b>First Sustained Catch</b>
<b>Pear</b>			
			9.2 Psylla eggs / bud (230 egg / 25 leaves / 5 UT Bart.)
			8.96 Psylla nymph / bud (224 nym. / 25 leaves/ 5 UT Bart.)
<b>Cherry, Small Fruit, Alternate Hosts</b>			
			0.0 Spotted Wing Drosophila (SWD) (0/0)
<b>Predictive Modeling</b>			
			<b>449 DD CM model: Moth flight peaks &amp; majority of eggs hatch</b>
			<b>449 DD PC model: Adults inactive, PC sprays are no longer necessary</b>
			<b>387 DD SJS Model: 1<sup>st</sup> generation “white caps”</b>
			<b>Pheromone traps should be in place to record the 2<sup>nd</sup> adult flight</b>
			<b>No SJS crawler emergence at HVRL on 6/11 AM.</b>
<b>Tree Fruit Injury in UTC</b>			
			OBLR 0.0% in UT Ginger Gold Terminals
			SGFW 0.0% in UT Ginger Gold Terminals
			OFM 22.0% in UT Ginger Gold Terminals
			Aphids 2.0% in UT Ginger Gold Terminals
			Plum Curculio (PC) 79 feeding sites in 100 UT Ginger Gold Fruitlets
			Tarnished Plant bug (TPB) 54 feeding sites in 100 UT GG Fruitlets
			OFM Feeding 10% in UT Ginger Gold Fruitlets
			European Apple Sawfly 1% in UT Ginger Gold Fruitlets
<b>Rainfall</b>			
			0.5 Weekly Rainfall
			12.5 Total Rainfall (From 1 March, 2018)



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	<b><u>DD Accumulations (previous day NEWA)</u></b>		
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
6/18	1310.9	834.2	Beginning degree day accumulations beginning 1 January, 2018
			<b>Trap Captures (Attractant / Pheromone)</b>
<b>Apple</b>			0.6 Redbanded Leafroller (RBLR) (6/2)
			5.8 Spotted Tentiform Leafminer (STLM) (61/20)
			5.7 Codling Moth (CM) (49/31)
			0.1 Oriental Fruit Moth (OFM) (0/1)
			0.2 Dogwood Borer (DWB) (2/1)
			0.3 Lesser Apple Worm (LAW) (3/1)
			0.0 Brown Marmorated Stink Bug (BMSB) (0)
			0.0 San Jose Scale (SJS) (na/1)
			6.6 Obliquebanded Leafroller (OBLR) (67/25)
<b>Pear</b>			10.0 Psylla eggs / bud (251 egg / 25 leaves / 5 UT Bart.)
			15.3 Psylla nymph / bud (383 nym. / 25 leaves/ 5 UT Bart.)
<b>Cherry, Small Fruit, Alternate Hosts</b>			0.0 Spotted Wing Drosophila (SWD) (0/0)
<b>Predictive Modeling</b>			<b>573 DD CM model: Moth flight peaks &amp; majority of eggs hatch</b> <b>573 DD PC model: Adults inactive, PC sprays are no longer necessary</b> <b>511 DD SJS Model: 1<sup>st</sup> generation “white caps”</b> <b>Pheromone traps should be in place to record the 2<sup>nd</sup> adult flight</b> <b>FIRST SJS crawler emergence at HVRL on 6/16 on Red Delicious and Ginger Gold.</b>
<b>Tree Fruit Injury in UTC</b>			OBLR 18.0% in UT Ginger Gold Terminals SGFW 0.0% in UT Ginger Gold Terminals OFM 24.0% in UT Ginger Gold Terminals Aphids 2.0% in UT Ginger Gold Terminals Plum Curculio (PC) 129 feeding sites in 100 UT GG Fruitlets Tarnished Plant bug (TPB) 56 feeding sites in 100 UT GG Fruitlets OFM Feeding 13 feeding sites in 100 UT GG Fruitlets European Apple Sawfly 3 feeding sites in 100 UT GG Fruitlets Codling Moth 8 feeding sites in 100 UT GG Fruitlets
<b>Rainfall</b>			0.02 Weekly Rainfall
			12.52 Total Rainfall (From 1 March, 2018)



<b>Baskerville-Emin (BE)</b>			
<b>Date</b>	<b>DD Accumulations (previous day NEWA)</b>		<b>Field Observations / Trap Catches / Models</b>
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
6/25	1310.9	834.2	Beginning degree day accumulations beginning 1 January, 2018
<b>Trap Captures (Attractant / Pheromone)</b>			
<b>Apple</b>			
			2.6 Redbanded Leafroller (RBLR) (23/14)
			8.0 Spotted Tentiform Leafminer (STLM) (58/54)
			7.0 Codling Moth (CM) (44/54)
			0.7 Oriental Fruit Moth (OFM) (3/7)
			0.0 Dogwood Borer (DWB) (0/0)
			0.1 Lesser Apple Worm (LAW) (0/1)
			0.0 Brown Marmorated Stink Bug (BMSB) (0)
			0.0 San Jose Scale (SJS) (0/0)
			7.6 Obliquebanded Leafroller (OBLR) (53/53)
			3.3 Tufted Apple Budmoth (TABM) (23/23) <b>First Catch</b>
			1 Sparganothis (SPAR) (2/12) <b>First Catch</b>
<b>Pear</b>			
			7.1 Psylla eggs / bud (177 egg / 25 leaves / 5 UT Bart.)
			17.2 Psylla nymph / bud (430 nym. / 25 leaves/ 5 UT Bart.)
<b>Cherry, Small Fruit, Alternate Hosts</b>			
			0.0 Spotted Wing Drosophila (SWD) (0/0)
<b>Predictive Modeling</b>			
			<b>725 DD CM model: 1<sup>st</sup> moth flight over &amp; egg hatch complete</b>
			<b>725 DD PC model: Adults inactive, PC sprays are no longer necessary</b>
			<b>663 DD SJS Model: 1<sup>st</sup> generation “white caps”</b>
			<b>Pheromone traps should be in place to record the 2<sup>nd</sup> adult flight</b>
			<b>515 DD OBLR model: Peak egg hatch, approximately 25% of total eggs have hatched by this time.</b>
			<b>17 June OBLR larvae emergence predicted</b>
<b>Tree Fruit Injury in UTC</b>			
			OBLR 8.0% in UT Ginger Gold Terminals
			SGFW 0.0% in UT Ginger Gold Terminals
			OFM 54.0% in UT Ginger Gold Terminals
			Aphids 2.0% in UT Ginger Gold Terminals
			Plum Curculio (PC) 52 feeding sites in 100 UT GG Fruitlets
			Tarnished Plant bug (TPB) 34 feeding sites in 100 UT GG Fruitlets
			OFM Feeding 13 feeding sites in 100 UT GG Fruitlets
			European Apple Sawfly 10 feeding sites in 100 UT GG Fruitlets
			Codling Moth 28 feeding sites in 100 UT GG Fruitlets
			OBLR 1 feeding site in 100 UT GG Fruitlets
<b>Rainfall</b>			
			0.7 Weekly Rainfall
			12.8 Total Rainfall (From 1 March, 2018)



<u>Date</u>	<u>Baskerville-Emin (BE)</u>		<u>Field Observations / Trap Catches / Models</u>	
	<u>DD Accumulations (previous day NEWA)</u>			
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>	
7/2	1718.4	1143.8	Beginning degree day accumulations beginning 1 January, 2018	
			<b>Trap Captures (Attractant / Pheromone)</b>	
<b>Apple</b>			4.4 Redbanded Leafroller (RBLR) (13/49) 12.7 Spotted Tentiform Leafminer (STLM) (97/81) 1.9 Codling Moth (CM) (17/10) 0.0 Oriental Fruit Moth (OFM) (0/0) 0.1 Dogwood Borer (DWB) (1/0) 0.1 Lesser Apple Worm (LAW) (0/1) 0.0 Brown Marmorated Stink Bug (BMSB) (0) 0.0 San Jose Scale (SJS) (0/0) 2.4 Obliquebanded Leafroller (OBLR) (9/25) 1.7 Tufted Apple Budmoth (TABM) (10/14) <b>First Sustained Catch</b> 1.6 Sparganothis (SPAR) (11/11) <b>First Sustained Catch</b> 1.4 Apple Maggot (AM) (2/3/0/2) <b>First Catch</b>	
<b>Pear</b>			2.0 Psylla eggs / bud (50 egg / 25 leaves / 5 UT Bart.) 6.9 Psylla nymph / bud (172 nym. / 25 leaves/ 5 UT Bart.)	
<b>Cherry, Small Fruit, Alternate Hosts</b>			0.0 Spotted Wing Drosophila (SWD) (0/0)	
<b>Predictive Modeling</b>			<b>882 DD CM model: 2<sup>nd</sup> generation of moths emerge</b> <b>882 DD PC model: Adults inactive, PC sprays are no longer necessary</b> <b>821 DD SJS Model: 2<sup>nd</sup> generation adults emerge</b> Note date of first capture of 2nd generation adults, to obtain biofix for predicting 2nd generation crawler emergence <b>722 DD OBLR model: Larvae damaging fruit</b> Fruit damage is starting now, and will increase rapidly if larvae have not been effectively controlled	
<b>Tree Fruit Injury in UTC</b>			OBLR 14.0% in UT Ginger Gold Terminals SGFW 0.0% in UT Ginger Gold Terminals OFM 20.0% in UT Ginger Gold Terminals Aphids 0.0% in UT Ginger Gold Terminals Plum Curculio (PC) 77 feeding sites in 100 UT GG Fruitlets Tarnished Plant Bug (TPB) 14 feeding sites in 100 UT GG Fruitlets OFM 16 feeding sites in 100 UT GG Fruitlets European Apple Sawfly 4 feeding sites in 100 UT GG Fruitlets Codling Moth 31 feeding sites in 100 UT GG Fruitlets OBLR 19 feeding site in 100 UT GG Fruitlets	
<b>Rainfall</b>			1.66 Weekly Rainfall 14.5 Total Rainfall (From 1 March, 2018)	



<b>Baskerville-Emin (BE)</b>			
<b><u>Date</u></b>	<b><u>DD Accumulations (previous day NEWA)</u></b>		<b><u>Field Observations / Trap Catches / Models</u></b>
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
7/9	1956.7	1332.9	Beginning degree day accumulations beginning 1 January, 2018
			<b>Trap Captures (Attractant / Pheromone)</b>
<b>Apple</b>			8.6 Redbanded Leafroller (RBLR) (72/49) 9.4 Spotted Tentiform Leafminer (STLM) (76/55) 1.1 Codling Moth (CM) (5/10) 0.2 Oriental Fruit Moth (OFM) (3/0) 0.3 Dogwood Borer (DWB) (0/2) 0.0 Lesser Apple Worm (LAW) (0/0) 0.0 Brown Marmorated Stink Bug (BMSB) (0) 1.0 San Jose Scale (SJS) (0/14) 2.4 Obliquebanded Leafroller (OBLR) (25/9) 0.6 Tufted Apple Budmoth (TABM) (9/0) 1.1 Sparganothis (SPAR) (11/4) 0.6 Apple Maggot (AM) (4/0/7/6) <b>First Sustained Catch</b>
<b>Pear</b>			1.2 Psylla eggs / bud (29 egg / 25 leaves / 5 UT Bart.) 3.1 Psylla nymph / bud (77 nym. / 25 leaves/ 5 UT Bart.)
<b>Cherry, Small Fruit, Alternate Hosts</b>			0.4 Spotted Wing Drosophila (SWD) (4/5/0)
<b>Predictive Modeling</b>			<b>1072 DD CM model: The flight of 2nd gen CM usually starts during this time</b> <b>1072 DD PC model: Adults inactive, PC sprays are no longer necessary</b> <b>1010 DD SJS Model: 2<sup>nd</sup> generation adults emerge</b> <b>2<sup>nd</sup> Generation males caught 7/9/18</b> <b>960 DD OBLR model: Flight of the first summer gen of adults is diminishing</b> <b>It is too late to apply controls for the summer gen of OBLR larvae.</b>
<b>Tree Fruit Injury in UTC</b>			AM 12.0% in UT Ginger Gold Fruit
<b>Rainfall</b>			0.16 Weekly Rainfall 14.66 Total Rainfall (From 1 March, 2018)

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Baskerville-Emin (BE)			
Date	DD Accumulations (previous day NEWA)		Field Observations / Trap Catches / Models
	43 F	50 F	# / trap / day (pheromone trap)
7/16	2180.5	1507.8	Beginning degree day accumulations beginning 1 January, 2018
Trap Captures (Attractant / Pheromone)			
Apple			
			10.7 Redbanded Leafroller (RBLR) (73/77)
			8.1 Spotted Tentiform Leafminer (STLM) (74/40)
			4.9 Codling Moth (CM) (39/30)
			0.0 Oriental Fruit Moth (OFM) (0/0)
			0.4 Dogwood Borer (DWB) (2/3)
			0.0 Lesser Apple Worm (LAW) (0/0)
			0.3 Brown Marmorated Stink Bug (BMSB) (2)
			38.4 San Jose Scale (SJS) (118/420)
			0.0 Obliquebanded Leafroller (OBLR) (0/0)
			0.2 Tufted Apple Budmoth (TABM) (0/3)
			0.5 Sparganothis (SPAR) (6/1)
			0.4 Apple Maggot (AM) (4/3/1/4)
Pear			
			0.8 Psylla eggs / bud (21 egg / 25 leaves / 5 UT Bart.)
			3.9 Psylla nymph / bud (99 nym. / 25 leaves/ 5 UT Bart.)
Cherry, Small Fruit, Alternate Hosts			
			0.1 Spotted Wing Drosophila (SWD) (0/1/2)
Predictive Modeling			
	1246 DD CM model: 2 <sup>nd</sup> generation of moths emerges		
	1246 DD PC model: Adults inactive, PC sprays are no longer necessary		
	151 DD SJS Model: 2 <sup>nd</sup> generation crawlers developing		
	1184 DD OBLR model: Flight of the first summer gen of adults is diminishing		
	It is too late to apply controls for the summer gen of OBLR larvae.		
Tree Fruit Injury in UTC			
	AM 12.0% in UT Ginger Gold Fruit		
Rainfall			
	1.14	Weekly Rainfall	
	15.8	Total Rainfall (From 1 March, 2018)	



<b>Baskerville-Emin (BE)</b>			
<b><u>Date</u></b>	<b><u>DD Accumulations (previous day NEWA)</u></b>		<b><u>Field Observations / Trap Catches / Models</u></b>
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
7/23	2390.3	1668.6	Beginning degree day accumulations beginning 1 January, 2018
<b>Trap Captures (Attractant / Pheromone)</b>			
<b>Apple</b>			
			3.5 Redbanded Leafroller (RBLR) (19/30)
			3.0 Spotted Tentiform Leafminer (STLM) (11/31)
			6.5 Codling Moth (CM) (44/47)
			0.0 Oriental Fruit Moth (OFM) (0/0)
			Dogwood Borer (DWB) (na)
			0.0 Lesser Apple Worm (LAW) (0/0)
			4.3 Brown Marmorated Stink Bug (BMSB) (30)
			63.6 San Jose Scale (SJS) (109/782)
			0.0 Obliquebanded Leafroller (OBLR) (0/0)
			0.0 Tufted Apple Budmoth (TABM) (0/0)
			0.0 Sparganothis (SPAR) (0/0)
			0.5 Apple Maggot (AM) (4/3/4/4)
<b>Pear</b>			
			0.8 Psylla eggs / bud (19 egg / 25 leaves / 5 UT Bart.)
			3.0 Psylla nymph / bud (73 nym. / 25 leaves/ 5 UT Bart.)
<b>Cherry, Small Fruit, Alternate Hosts</b>			
			Spotted Wing Drosophila (SWD) ()
<b>Predictive Modeling</b>			
			<b>1407 DD CM model: 2<sup>nd</sup> generation of moths emerges</b>
			<b>525 DD AM model: Adults and first eggs, Initial pesticide treatments should be applied as soon as trap catches exceed recommended threshold levels (average 5 flies/trap).</b>
			<b>336 DD SJS Model: 2<sup>nd</sup> generation emergence through 7/22</b>
<b>Tree Fruit Injury in UTC</b>			
			AM 12.0% in UT Ginger Gold Fruit
			CM 36.0% in UT Ginger Gold Fruit
<b>Rainfall</b>			
			3.06 Weekly Rainfall *New Paltz weather station data*
			19.1 Total Rainfall (From 1 March, 2018)

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<b>Baskerville-Emin (BE)</b>			
<b>Date</b>	<b>DD Accumulations (previous day NEWA)</b>		<b>Field Observations / Trap Catches / Models</b>
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
7/30	2439.8	1697.7	Beginning degree day accumulations beginning 1 January, 2018
			<b>Trap Captures (Attractant / Pheromone)</b>
<b>Apple</b>			1.6 Redbanded Leafroller (RBLR) (9/14) 12.3 Spotted Tentiform Leafminer (STLM) (67/105) 6.5 Codling Moth (CM) (27/64) 0.2 Oriental Fruit Moth (OFM) (0/3) Dogwood Borer (DWB) (na) 0.1 Lesser Apple Worm (LAW) (0/1) 12.0 Brown Marmorated Stink Bug (BMSB) (84) 189.7 San Jose Scale (SJS) (206/2,450) 0.1 Obliquebanded Leafroller (OBLR) (0/2) 0.0 Tufted Apple Budmoth (TABM) (0/0) 0.0 Sparganothis (SPAR) (0/0) 1.4 Apple Maggot (AM) (6/8/2/25) ** high numbers **
<b>Pear</b>			1.0 Psylla eggs / bud (26 egg / 25 leaves / 5 UT Bart.) 0.6 Psylla nymph / bud (14 nym. / 25 leaves/ 5 UT Bart.)
<b>Cherry, Small Fruit, Alternate Hosts</b>			0.1 Spotted Wing Drosophila (SWD) (sweet cherry:0, honeysuckle:2)
<b>Predictive Modeling</b>			<b>1468 DD CM model: 2<sup>nd</sup> generation of moths emerges</b> <b>668 DD AM model: Adults and first eggs, Initial pesticide treatments should be applied as soon as trap catches exceed recommended threshold levels (average 5 flies/trap).</b> <b>328 DD SJS Model: 2<sup>nd</sup> generation crawlers emerging</b>
<b>Tree Fruit Injury in UTC</b>			AM 12.0% in UT Ginger Gold Fruit CM 56.0% in UT Ginger Gold Fruit SJS 16.0% in UT Ginger Gold Fruit
<b>Rainfall</b>			3.74 Weekly Rainfall *New Paltz WG Minard weather station data* 21.2 Total Rainfall (From 1 March, 2018)

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<b>Baskerville-Emin (BE)</b>			
<b><u>Date</u></b>	<b><u>DD Accumulations (previous day NEWA)</u></b>		<b><u>Field Observations / Trap Catches / Models</u></b>
	<b>43 F</b>	<b>50 F</b>	<b># / trap / day (pheromone trap)</b>
8/6	2661.7	1870.6	Beginning degree day accumulations beginning 1 January, 2018
			<b>Trap Captures (Attractant / Pheromone)</b>
<b>Apple</b>			1.2 Redbanded Leafroller (RBLR) (4/13) 20.0 Spotted Tentiform Leafminer (STLM) (98/182) 3.7 Codling Moth (CM) (23/29) 0.1 Oriental Fruit Moth (OFM) (0/2) 1.5 Dogwood Borer (DWB) (0/9) 0.1 Lesser Apple Worm (LAW) (1/0) 7.3 Brown Marmorated Stink Bug (BMSB) (58) 236.5 San Jose Scale (SJS) (1351/1960) 0.0 Obliquebanded Leafroller (OBLR) (0/0) 0.0 Tufted Apple Budmoth (TABM) (0/0) 0.0 Sparganothis (SPAR) (0/0) 1.1 Apple Maggot (AM) (9/1/5/15) ** high numbers **
<b>Pear</b>			0.8 Psylla eggs / bud (19 egg / 25 leaves / 5 UT Bart.) 0.4 Psylla nymph / bud (9 nym. / 25 leaves/ 5 UT Bart.)
<b>Cherry, Small Fruit, Alternate Hosts</b>			0.1 Spotted Wing Drosophila (SWD) (sweet cherry:0, honeysuckle:2)
<b>Predictive Modeling</b>			<b>841 DD AM model: Adults move into orchards, eggs laid</b> <b>8/6/18 2<sup>nd</sup> generation SJS crawlers emerged at HVRL</b>
<b>Tree Fruit Injury in Ginger Gold UTC</b>			AM 36.0% in UT Ginger Gold Fruit CM 32.0% in UT Ginger Gold Fruit
<b>Rainfall</b>			2.15 Weekly Rainfall *New Paltz WG Minard weather station data* 23.4 Total Rainfall (From 1 March, 2018)

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