

Management Programs for Arthropods



Plum Curculio Recommended Approach



Petal Fall

Activity: Note date of Petal Fall in McIntosh apple variety

Treatment Options: Use Tree Fruit Pest Mgt Guidelines to select appropriate product at petal fall

then:

Use Petal Fall date + NEWA Apple Insect Model to determine the end of PC immigration into orchards (corresponding to the end of fruit protection period). Maintain pesticide coverage until this date has passed.

Suggested Action Threshold: 308 DD (base 50F) from petal fall in McIntosh





Experiment Station



Petal Fall Activity: N Treatmen petal fall then:

Use Peta into orcha coverage Suggeste



Apple insects

Plum curculio

Pest management

Pest stage

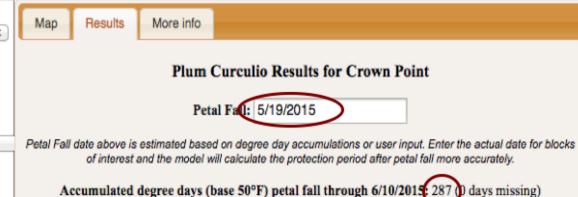
Pest status

Pesticide

information

NEWA Apple Insect Models

Select a pest:	
Plum Curculio	÷
State:	
New York ‡	
Weather station:	
Crown Point	
Accumulation End Date:	
06/10/2015	

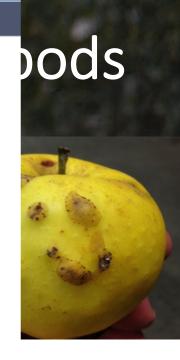


	Past	Past	Current	Ensuing 5 Days					
Date	Jun 8	Jun 9	Jun 10	Jun 11	Jun 12	Jun 13	Jun 14	Jun 15	
Daily Degree Days (Base 50BE)	14	18	18	21	17	19	17	12	
Accumulation since January 1	543	560	578	600	617	636	654	665	
Show Doorgo Day Growk									

Pest stage: Adult oviposition decreasing ÷

The pest stage above is estimated. Select the actual stage and the model will recalculate recommendations.

Pest Status	Pest Management	
Plum curculio activity is beginning to decline and any curculio remaining in trees will usually not move to other	Plum curculio only need to be controlled until 308 DD have accumulated after petal fall. Make sure that the predicted residual coverage (10-14 days) from the last spray will	
locations.	protect fruit until DD accumulation reaches this value. Pesticide information	



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Oriental Fruit Moth Recommended Approach

Late Pink to Bloom

Activity: Monitor for 1st adult flight (pheromone traps); note biofix (late April-early May) Treatment Options – Pheromone mating disruption:

Isomate OFM TT / Isomate CM/OFM TT / Cidetrak OFM Meso-L / Checkmate CM-OFM Puffer / Isomate CM/OFM Mist



Petal Fall

Activity: Use biofix + NEWA Apple Insect Model to time sprays for 1st larval generation

Suggested Action Threshold: 350-375 DD (base 45°F) from biofix

Treatment Options: Use Tree Fruit Pest Mgt Guidelines to select appropriate product (combine with Plum Curculio spray)

(Additionally, in High-risk blocks: Madex CM/OFM Virus)

Summer (July):

Activity: Use biofix + NEWA Apple Insect Model to time sprays for 2nd larval generation

Suggested Action Threshold: 1450-1500 DD (base 45F) from biofix

Treatment Options: Use Tree Fruit Pest Mgt Guidelines to select appropriate product (may need 2 applications)







Codling Moth Recommended Approach

Bloom

Activity: Monitor for 1st adult flight (pheromone traps); note biofix

Treatment Options – Pheromone mating disruption: Isomate CM/OFM TT / Cidetrak CMDA Combo Meso-A / Checkmate CM-OFM Puffer / Isomate CM/OFM Mist Plus

(Additionally, in High-risk blocks: Madex CM/OFM Virus)



June

Activity: Use biofix + NEWA Apple Insect Model to time sprays for 1st larval generation Suggested Action Threshold: 250-360 DD (base 50°F) from biofix Treatment Options: Use TF Pest Mgt Guidelines to select appropriate product (2 applications)

Summer (mid-late July):

Activity: Use biofix + NEWA Apple Insect Model to time sprays for 2nd larval generation

Suggested Action Threshold: 1260-1370 DD (base 50°F) from 1st biofix or 250-360 DD (base 50°F) from 2nd biofix

Treatment Options: Use TF Pest Mgt Guidelines to select appropriate product (may need 2 applications)









Obliquebanded Leafroller Recommended Approach

Late Bloom

Activity: Use Obliquebanded Leafroller Sampling Form to examine bud clusters for 3% infestation threshold of OBLR

larvae

Suggested Action Threshold: 3% of clusters infested

Treatment Options: Use TF Pest Mgt Guidelines to select appropriate product at bloom or petal fall



June 1

Activity: Monitor for 1st adult flight (pheromone traps); Use biofix + NEWA Apple Insect Model to time sprays for 1st larval generation

Suggested Action Threshold: High-risk blocks: 360 DD (base 43°F) from biofix

Treatment Options: Use TF Pest Mgt Guidelines to select appropriate product

OR

Suggested Action Threshold: Low-risk blocks: 600 DD (base 43°F) from biofix – Use Obliquebanded Leafroller Sampling Form to examine expanding terminals for 3% infestation threshold of OBLR larvae

Treatment Options: Use TF Pest Mgt Guidelines to select appropriate product in July (may need 2 applications)







European Red Mite Recommended Approach

Delayed Dormant

Activity: Be familiar with past history of ERM. Examine spurs for overwintered eggs.

Suggested Action Threshold: 10% spurs with eggs.

Treatment Options:

Oil: Half-inch green – 2%; Tight cluster – 1% OR

Apollo / Savey / Zeal – Tight cluster, Pink OR

Apollo / Savey / Zeal / Agri-Mek – Petal fall

Summer: From mid-June to mid-August, leaves sampled for motiles.

Use date-appropriate sampling form to determine whether motiles are over threshold (2.5 / 5.0 / 7.5 per leaf).

Monitor for presence of predatory mite populations. 1 predator/10 leaves > potential for effective biological control

(Ref: Achieving Biological Control of European Red Mite in Northeast Apples: An Implementation Guide for Growers)

Treatment Options:

Kanemite / Nealta / Nexter / Portal / Acramite / Envidor – Summer months

(Ref: TF Pest Mgt Guidelines)







Apple Maggot Recommended Approach





July 1

Activity: Place 2-3 volatile-baited AM sphere traps along edge of apple orchard adjacent to hedgerows or source of immigrating adults. Check traps at least twice per week.

Suggested Action Threshold: Average capture of 5 AM adults per trap.

Treatment Options: Use TF Pest Mgt Guidelines to select appropriate product during adult oviposition period. Repeat if threshold is reached again after period of spray residual efficacy has lapsed (10-14 days)

then:

Use 1st trap capture date + NEWA Apple Insect Model to determine end of oviposition period.

