



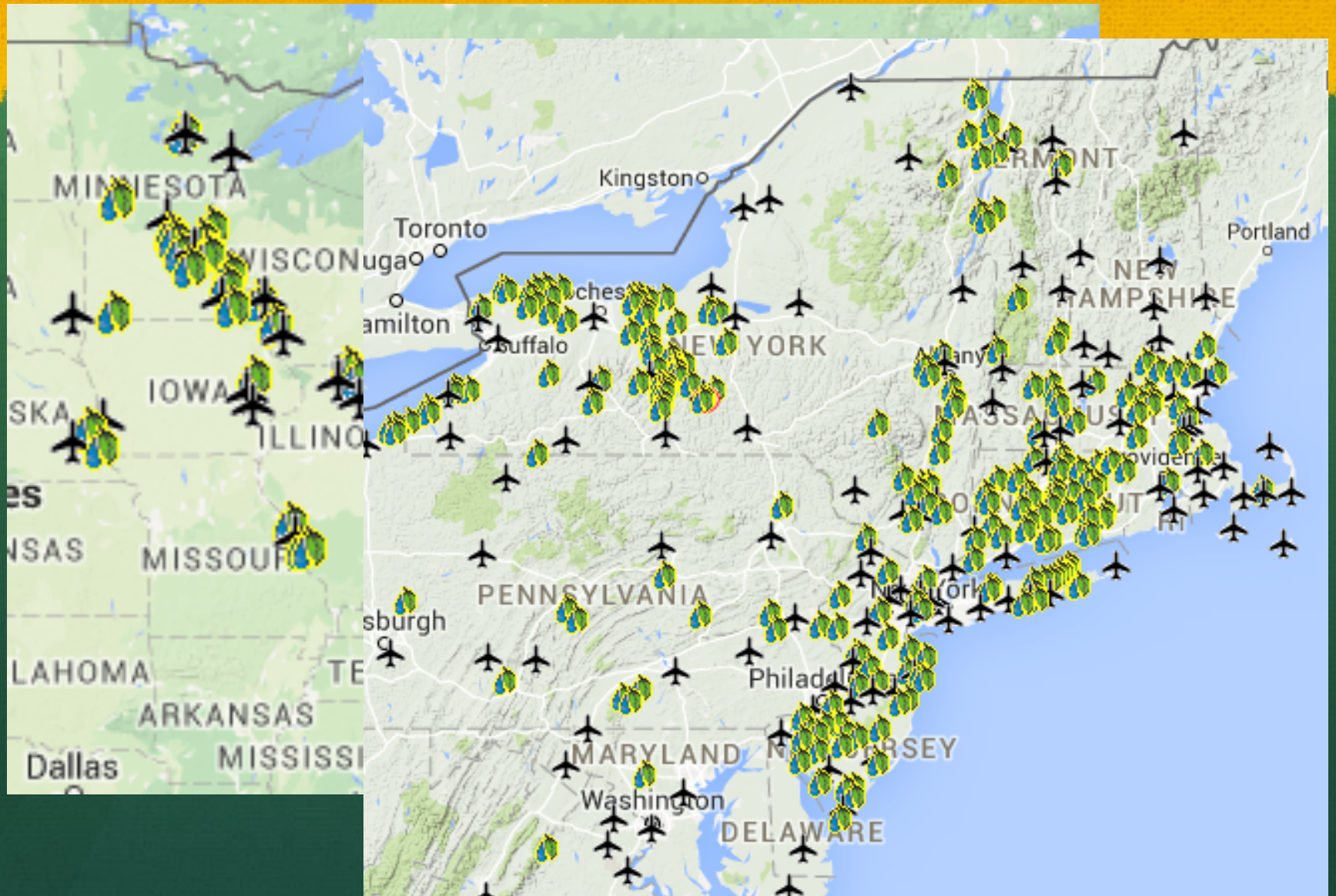
NEWA

Network for Environment and Weather Applications
newa.cornell.edu

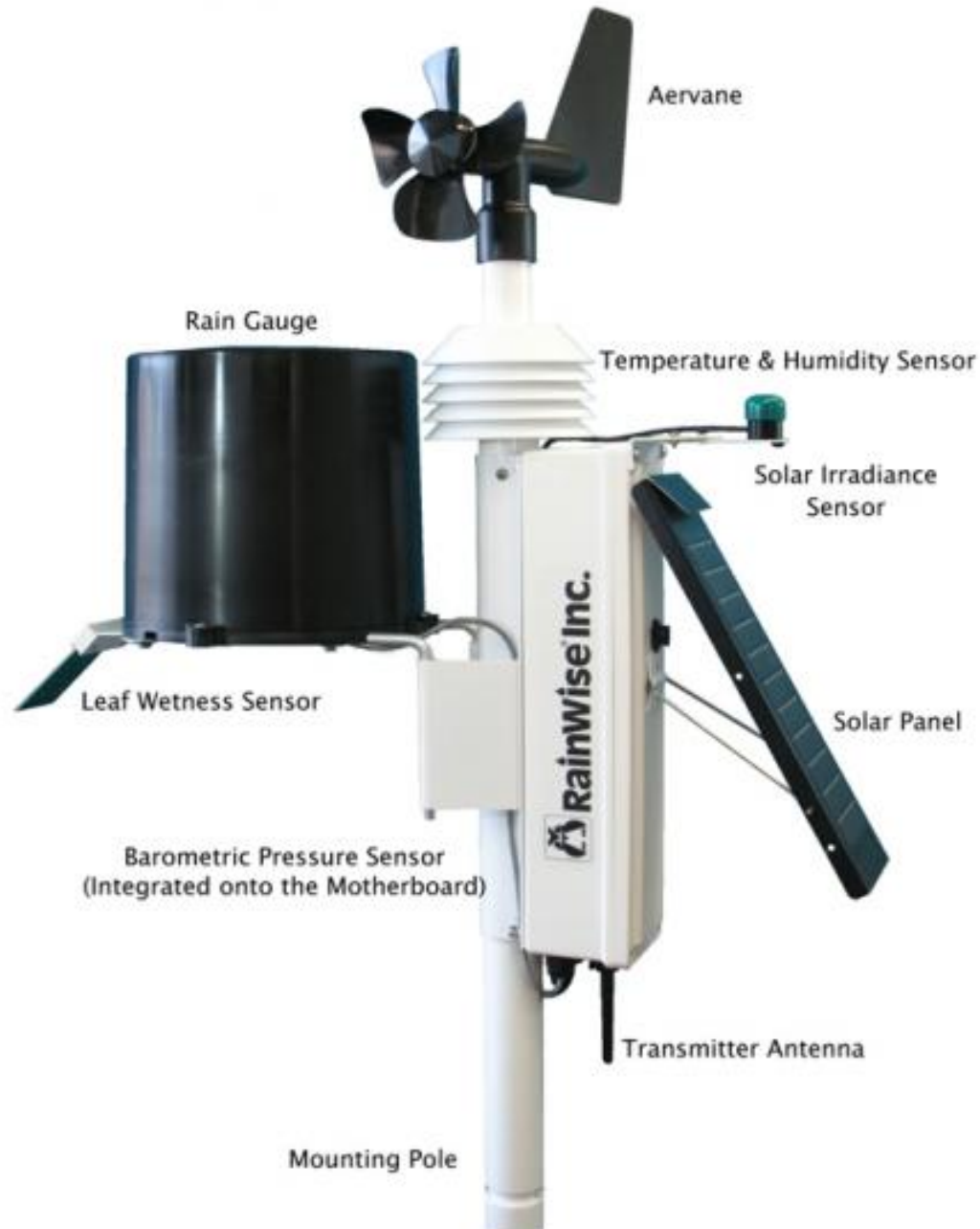
STATIONS



STATIONS



AgroMET Weather Station





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All Weather Data

NEWA Weather Data Page

State:
New York

Weather station:
Peru

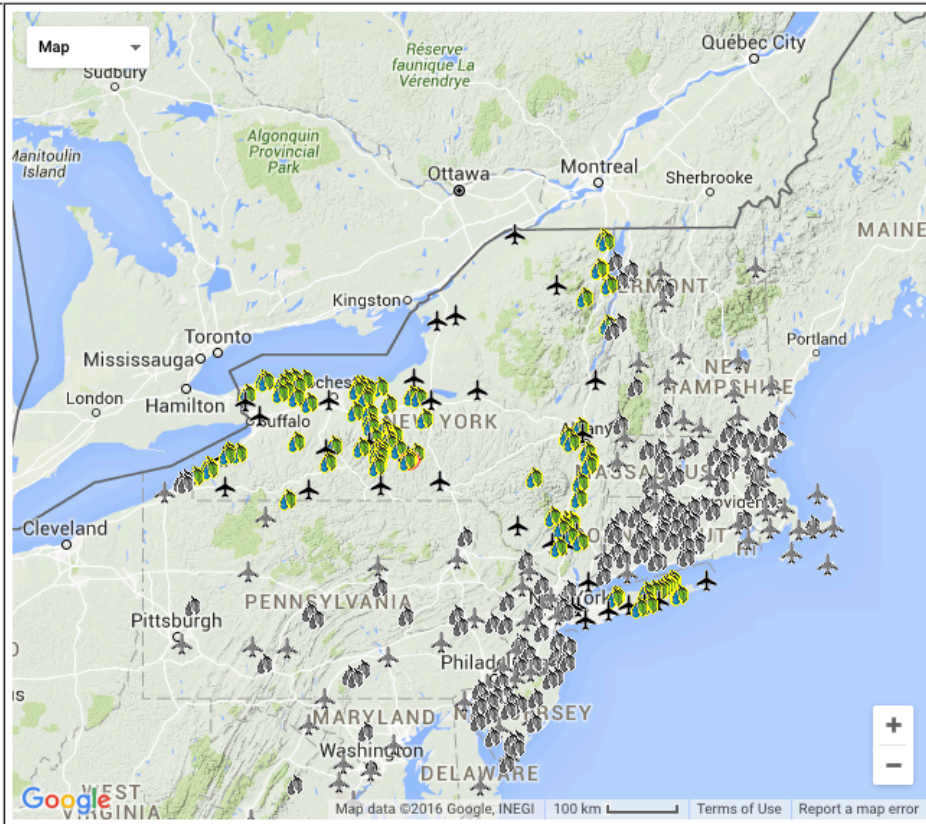
Listing type:
Hourly data

Month:
May

Year:
2016

Get report

About degree days



Weather Data

Date/Time	Temp (F)	LW (minutes)	Rain (inches)	RH %	Dewpoint (F)	Wind Spd (mph)	Wind Dir (degrees)	Solar Rad (langley)	Est LW (minutes)
05/16/2016 05:00	36.3	0	0.00	68	27	1.7	298	0	0
05/16/2016 04:00	35.7	0	0.00	69	27	1.5	291	0	0
05/16/2016 03:00	34.3	0	0.00	71	26	0.9	277	0	0
05/16/2016 02:00	34.0	0	0.00	71	26	1.2	270	0	0
05/16/2016 01:00	35.1	0	0.00	67	25	0.5	265	0	0
05/16/2016 00:00	38.0	22	0.00	59	25	1.9	297	0	0
05/15/2016 23:00	38.5	60	0.00	61	26	2.0	283	0	0
05/15/2016 22:00	37.4	60	0.00	69	28	1.3	279	0	0
05/15/2016 21:00	37.1	40	0.01	78	31	2.8	287	0	60
05/15/2016 20:00	40.0	0	0.00	70	31	3.6	291	3	0
05/15/2016 19:00	39.4	57	0.00	73	31	4.4	291	8	0
05/15/2016 18:00	39.4	52	0.01	78	33	3.6	276	10	60
05/15/2016 17:00	42.6	0	0.00	64	31	5.4	292	24	0
05/15/2016 16:00	44.2	17	0.00	55	29	4.6	287	30	0
05/15/2016 15:00	46.0	0	0.00	46	26	4.8	288	25	0
05/15/2016 14:00	44.8	0	0.00	57	31	5.2	298	34	0
05/15/2016 13:00	43.2	0	0.00	56	29	3.7	280	20	0
05/15/2016 12:00	42.6	0	0.00	56	28	3.3	265	18	0
05/15/2016 11:00	43.6	0	0.01	55	29	3.7	281	26	60
05/15/2016 10:00	43.5	0	0.00	54	28	3.6	267	32	0
05/15/2016 09:00	44.1	0	0.00	55	29	3.7	280	37	0
05/15/2016 08:00	39.6	0	0.00	63	28	2.9	273	8	0
05/15/2016 07:00	39.6	0	0.00	67	30	1.9	278	1	0
05/15/2016 06:00	39.6	0	0.00	66	29	2.6	284	0	0
05/15/2016 05:00	40.4	0	0.00	67	30	3.0	286	0	0
05/15/2016 04:00	41.5	0	0.00	71	32	3.1	288	0	0



Weather Data

Date/Time	Temp (F)	LW (minutes)	Rain (inches)	RH %	Dewpoint (F)	Wind Spd (mph)	Wind Dir (degrees)	Solar Rad (langley)	Est LW (minutes)
05/30/2016 15:00	84.5	0	0.00	42	59	7.1	275	71	0
05/30/2016 14:00	83.4	0	0.00	57	67	4.7	225	67	0
05/30/2016 13:00	82.4	0	0.00	57	66	3.5	240	58	0
05/30/2016 12:00	79.7	0	0.00	69	69	4.8	201	75	0
05/30/2016 11:00	78.3	0	0.00	75	70	2.7	141	64	0
05/30/2016 10:00	72.8	0	0.00	88	69	2.2	143	47	0
05/30/2016 09:00	69.6	0	0.00	92	67	2.7	229	23	60
05/30/2016 08:00	66.6	15	0.00	97	66	2.2	236	6	60
05/30/2016 07:00	<i>66.4</i>	<i>60</i>	<i>0.00</i>	<i>98</i>	<i>66</i>	<i>0.9</i>	<i>316</i>	<i>2</i>	<i>60</i>
05/30/2016 06:00	<i>66.6</i>	<i>60</i>	<i>0.01</i>	<i>98</i>	<i>66</i>	<i>0.9</i>	<i>175</i>	<i>0</i>	<i>60</i>
05/30/2016 05:00	<i>66.5</i>	<i>60</i>	<i>0.00</i>	<i>98</i>	<i>66</i>	<i>0.7</i>	<i>267</i>	<i>0</i>	<i>60</i>
05/30/2016 04:00	<i>66.6</i>	<i>60</i>	<i>0.01</i>	<i>99</i>	<i>66</i>	<i>0.4</i>	<i>248</i>	<i>0</i>	<i>60</i>
05/30/2016 03:00	<i>66.6</i>	<i>60</i>	<i>0.00</i>	<i>98</i>	<i>66</i>	<i>0.4</i>	<i>231</i>	<i>0</i>	<i>60</i>
05/30/2016 02:00	<i>66.5</i>	<i>60</i>	<i>0.00</i>	<i>98</i>	<i>66</i>	<i>0.4</i>	<i>253</i>	<i>0</i>	<i>60</i>
05/30/2016 01:00	<i>66.8</i>	<i>60</i>	<i>0.00</i>	<i>98</i>	<i>66</i>	<i>0.5</i>	<i>284</i>	<i>0</i>	<i>60</i>
05/30/2016 00:00	<i>66.9</i>	<i>60</i>	<i>0.00</i>	<i>98</i>	<i>66</i>	<i>0.9</i>	<i>245</i>	<i>0</i>	<i>60</i>
05/29/2016 23:00	<i>67.7</i>	<i>60</i>	<i>0.02</i>	<i>98</i>	<i>67</i>	<i>0.5</i>	<i>145</i>	<i>0</i>	<i>60</i>
05/29/2016 22:00	<i>68.5</i>	<i>56</i>	<i>0.01</i>	<i>98</i>	<i>68</i>	<i>2.6</i>	<i>273</i>	<i>0</i>	<i>60</i>
05/29/2016 21:00	<i>69.5</i>	<i>53</i>	<i>0.00</i>	<i>96</i>	<i>68</i>	<i>3.2</i>	<i>261</i>	<i>0</i>	<i>60</i>
05/29/2016 20:00	<i>69.0</i>	<i>60</i>	<i>0.00</i>	<i>98</i>	<i>68</i>	<i>1.5</i>	<i>158</i>	<i>1</i>	<i>60</i>
05/29/2016 19:00	<i>69.7</i>	<i>60</i>	<i>0.15</i>	<i>98</i>	<i>69</i>	<i>2.0</i>	<i>183</i>	<i>0</i>	<i>60</i>
05/29/2016 18:00	<i>70.7</i>	<i>60</i>	<i>0.05</i>	<i>98</i>	<i>70</i>	<i>0.7</i>	<i>100</i>	<i>1</i>	<i>60</i>
05/29/2016 17:00	<i>71.2</i>	<i>60</i>	<i>0.07</i>	<i>98</i>	<i>71</i>	<i>3.2</i>	<i>293</i>	<i>1</i>	<i>60</i>
05/29/2016 16:00	<i>70.4</i>	<i>60</i>	<i>0.01</i>	<i>98</i>	<i>70</i>	<i>1.5</i>	<i>294</i>	<i>4</i>	<i>60</i>
05/29/2016 15:00	<i>72.3</i>	<i>26</i>	<i>0.20</i>	<i>94</i>	<i>70</i>	<i>3.0</i>	<i>197</i>	<i>2</i>	<i>60</i>
05/29/2016 14:00	<i>70.8</i>	<i>0</i>	<i>0.00</i>	<i>60</i>	<i>60</i>	<i>2.0</i>	<i>90</i>	<i>51</i>	<i>0</i>

Values in *brown italics* were estimated from adjacent hours or a nearby location. [More information](#) is available on the estimation technique.





Pest Forecasts

NEWA - Apple Insects

newa.cornell.edu/index.php?page=apple-insects

xmlACIS2 NCDC Pubs AirNav Climod

 **New York State Integrated Pest Management Program**

 **NEWA Network for Environment and Weather Applications**

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Crop Pages

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Apple insects

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- Apple Insects
- Apple Leaf Wetness Events
- Grape Forecast Models
- Cabbage Maggot
- Onion Disease Models
- Onion Maggot
- Late Blight DSS
- Potato Disease Models
- Tomato Disease Models
- Sw Corn Stewart's Wilt Map
- Alfalfa Weevil
- Turfgrass Diseases
- Other Pest Forecast Tools

NEWA App

Select a pest:

Select pest

State:

New York

Weather station:

Peru (Northern O

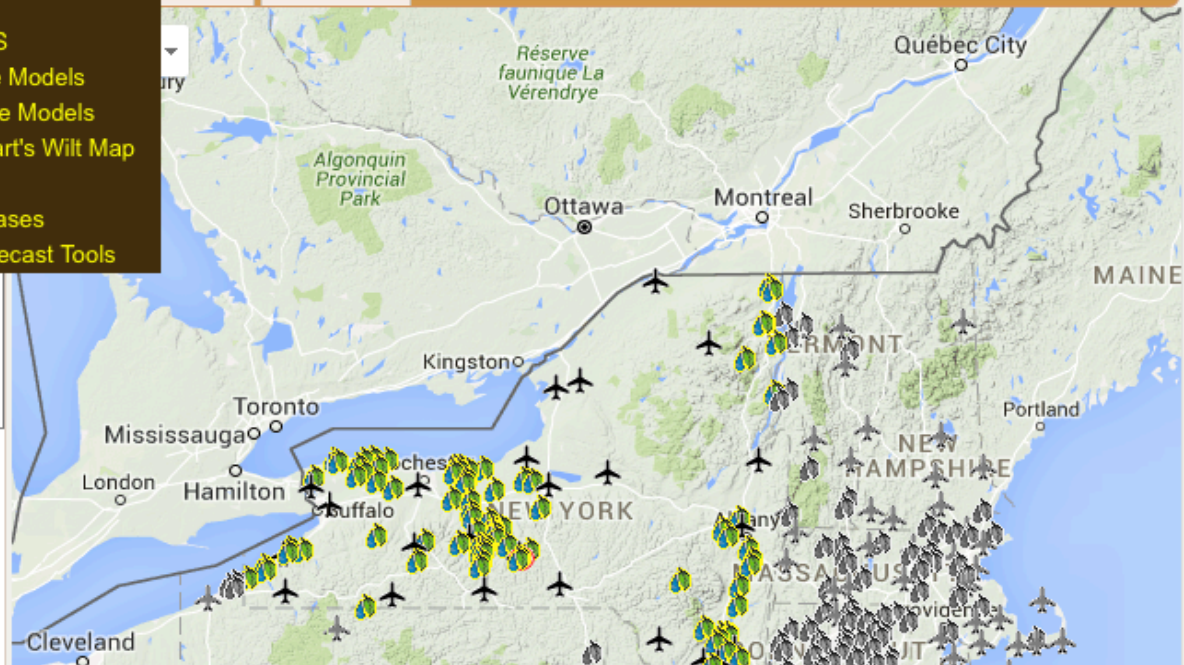
Accumulation End Date:

6/27/2016

Calculate

Results

More info



Apple Insect Models

NEWA Apple Insect Models

Select a pest:

Spotted Tentiform Leafminer

State:

Pennsylvania

Weather station:

York Springs (Lerew)

Accumulation End Date:

6/27/2016

Calculate

Select a pest:

✓ Select pest

- Spotted Tentiform Leafminer
- Oriental Fruit Moth
- Codling Moth
- Plum Curculio
- Obliquebanded Leafroller
- Apple Maggot
- San Jose Scale

Map Results More info

Spotted Tentiform Leafminer Results for York Springs (Lerew)

First Trap Catch: 3/31/2016

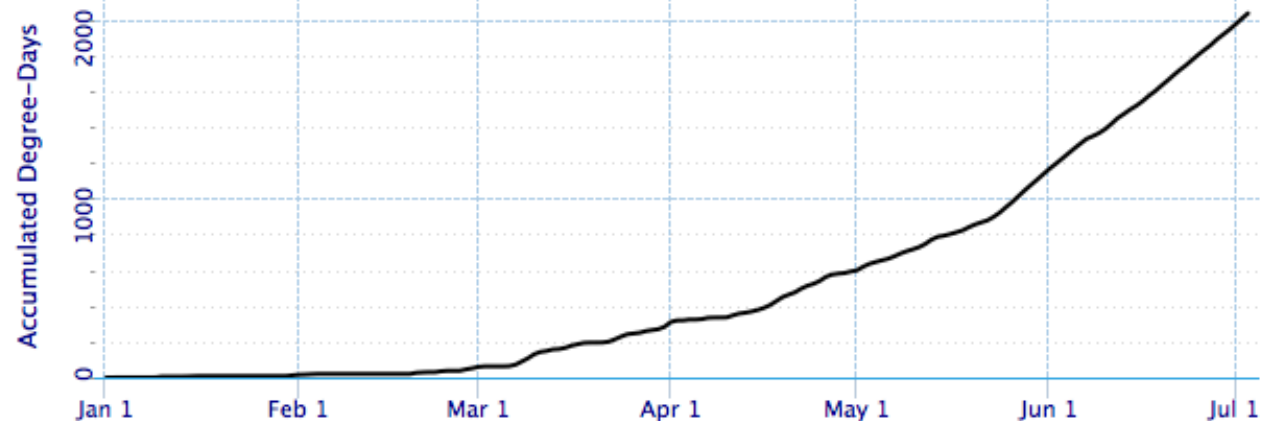
Second Generation Flight Start: 6/5/2016

The dates above are estimated based on degree day accumulations or user input. Enter the actual dates for blocks of interest and the model will calculate the protection period more accurately.

Accumulated degree days (base 43°F) second generation flight start through 6/26/2016: 579 (0 days missing)

	Past	Past	Current	5-Day Forecast			Forecast Details	
Date	Jun 25	Jun 26	Jun 27	Jun 28	Jun 29	Jun 30	Jul 1	Jul 2
Daily Degree Days (Base 43BE)	30	27	26	32	27	28	30	32
Accumulation since January 1	1802	1830	1856	1888	1914	1942	1971	2003

Accumulated Degree-Days



Spotted Tentiform Leafminer

Pest stage: 2nd generation moths flying & laying eggs

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

Pest Status	Pest Management
Eggs from second generation of STLM will begin to hatch when 690 to 840 degree days have accumulated since the second generation flight start.	No control measures are recommended at this time and it is too early to sample for second generation larvae.

Disclaimer: *These are theoretical predictions and forecasts. The theoretical models predicting pest development or disease risk use the weather data collected (or forecasted) from the weather station location. These results should not be substituted for actual observations of plant growth stage, pest presence, and disease occurrence determined through scouting or insect pheromone traps.*



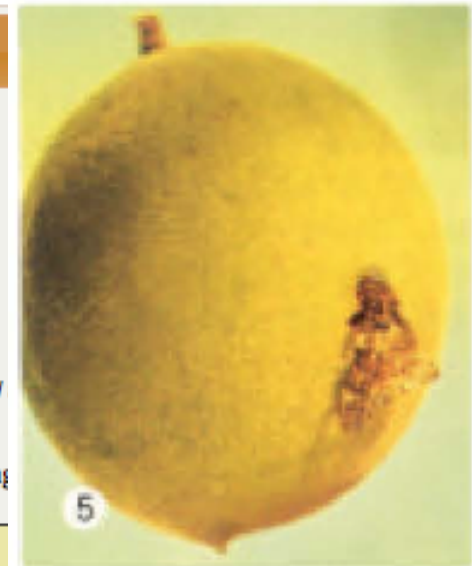
Oriental Fruit Moth Results for York Springs (Lerew)

First Trap Catch:

Second Generation Flight Start:

The dates above are estimated based on degree day accumulations or user input. Enter the actual dates for blocks of interest and will calculate the protection period more accurately.

Accumulated degree days (base 43°F) second generation flight start through 6/26/2016: 232 (0 days missing)



	Past	Past	Current	5-Day Forecast			Forecast Details	
Date	Jun 25	Jun 26	Jun 27	Jun 28	Jun 29	Jun 30	Jul 1	Jul 2
Daily Degree Days (Base 43BE)	30	27	28	32	27	28	31	32
Accumulation since January 1	1802	1830	1857	1889	1916	1944	1974	2006

[Show Degree Day Graph](#)

Pest stage:

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

Pest Status	Pest Management
About 10% of the eggs laid by the second generation of OFM have hatched.	The initial control spray to control the second generation of OFM should be applied. In orchards that have a history of previous fruit infestation from this pest, populations may be resistant to organophosphates or pyrethroids. Therefore, it might be better to use another class of materials against OFM. Eggs from the summer generation of OBLR may also begin to hatch during this time and, if possible, a material should be selected that also will control larvae of this pest. Pesticide information



Tree Fruit IPM
Created and Maintained by the PMP Group


[Home](#)
[Weather Pest Models](#)
[Pesticide Decision System](#)
[Related Resources](#)

Pesticides for Codling Moth

Every effort has been made to provide correct, complete, and up-to-date pest information. Searches for multiple pests may return a result with few products, or none. If this occurs, narrow your pest selection and search again to find suitable material(s).

Growth Stage:

Note: "Remarks" Field Changes depending on Growth Stage

Pest Pressure: AM: CM/OFM: PC: Aph: GFW: LH: OBLR: RAA: RBLR: SJS: STLM: TPB:

None:

Moderate:

High:

Program Type:

 All Labeled

Pesticides

 Conventional

 Organic

 Non-OP

 Reduced-Risk

Key:

AM - Apple Maggot

FB - Fire Blight

AS - Apple Scab

CM - Codling Moth

PC - Plum Curculio

Aph - Green Aphids

GFW - Green fruitworms

LH - Leafhoppers

OBLR - Obliquebanded leafroller

RAA - Rosy Apple Aphid

RBLR - Redbanded Leafroller

SJS - San Jose Scale

STLM - Spotted Tentiform Leafminer

TPB - Tarnished Plant Bug

Common Name: Bacillus thuringiensis (B.t.)

[Details](#)

Trade Name: Agree 3.8WS

Amount Per Acre: 1.0-2.0 lb

REI: 4 Hours

PHI: 0 Days

EPA Registration Number: 70051-47

Pesticide Type: Insecticide

Remarks:

Recommended period for control of codling moth, lesser appleworm, obliquebanded leafroller [For Bt products, greater efficacy against summer brood larvae has been shown with 2-4 sprays at the low rate on a 7-day interval, starting 10-12 days after first adult catch], oriental fruit moth, redbanded leafroller.

Effect on Beneficials:

Name	Toxicity
Amblyseius fallacis	L
Aphidoletes aphidimyza	L
Typhlodromus pyri	L

Common Name: esfenvalerate

[Details](#)

Trade Name: Asana XL

Amount Per Acre: 4.8-14.5 fl oz

REI: 12 Hours

PHI: 21 Days

EPA Registration Number: 352-515

Pesticide Type: Insecticide

Remarks:

Recommended period for control of apple aphid, spirea aphid, apple maggot, obliquebanded leafroller, oriental fruit moth, plum curculio (1st cover), spotted tentiform (plus apple blotch) leafminer, white apple leafhopper, potato leafhopper. It is recommended that pyrethroids not be used more than 1-2 times/season in any orchard.

Effect on Beneficials:

Name	Toxicity
Amblyseius fallacis	H
Aphidoletes aphidimyza	M
Typhlodromus pyri	H
Stethorus punctum	H

Common Name: fenpropathrin

[Details](#)

Trade Name: Danitol 2.4EC

Amount Per Acre: 10.67-16.0 fl oz

REI: 24 Hours

PHI: 14 Days

EPA Registration Number: 59639-35

Pesticide Type: Insecticide

Remarks:

Recommended period for control of apple/spirea aphids, apple maggot, obliquebanded leafroller, spotted tentiform (plus apple blotch) leafminer, white apple and potato leafhoppers. It is recommended that pyrethroids not be used more than 1-2 times/season in any orchard.

Effect on Beneficials:

Name	Toxicity
Amblyseius fallacis	H
Aphidoletes aphidimyza	H
Typhlodromus pyri	H
Stethorus punctum	H

NEWA Onion Disease

State:

Massachusetts

Weather station:

Ipswich (Russell Orchards)

Planting Date:

April 21

Date of Interest:

6/27/2016

Get report

Map

Results

Forecast info

Onion Disease for Ipswich (Russell Orchards)

Disease		Past 7 Days		Today	5-Day Forecast			Forecast Details	
		Number of days favorable	Average rating per day	Jun 27	Jun 28	Jun 29	Jun 30	Jul 1	Jul 2
Rain Prob (%) Night/Day ?				0 5	19 27	59 48	27 10	10 10	37 38
Botrytis leaf blight	Michigan Botrytis forecast (BLB)	0	0	0	0	0	5	33	9
	Modified Blight Alert (IPI)	1	4.81	3.01	2.68	6.27	3.74	2.59	3.08
Downy Mildew		1	NA	Not favorable	Not favorable	Not favorable	-	-	-
Purple Blotch (PRI)		0	4.9	5.0	5.0	4.3	5.3	5.3	5.0

Past 7 Days

Extremely favorable

Very favorable

Moderately favorable

Slightly favorable

Not favorable

Threshold Levels

Michigan Botrytis: BLB \geq 50

Modified Blight Alert: IPI \geq 7

Purple Blotch: PRI \geq 5.7

Over threshold

Below threshold



NEWA Potato Disease Forecast

State:
Connecticut

Weather station:
Storrs (Research Farm)

Have you applied a fungicide yet?
 Yes No

Date of Interest:
6/27/2016

[Using Potato Disease Forecasts Effectively](#)

Map Results More info

Map Albany

Kingston Poulin keepsie Newburgh



No, not applied yet

NEWA Potato Disease Forecast

State:
Connecticut

Weather station:
Storrs (Research Farm)

Crop emergence date:
May 10

Date of potato cull sprouting or volunteer emergence:
May 1

Date of Interest:
6/27/2016

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[Using Potato Disease Forecasts Effectively](#)

[Start over](#)

Map Results **More info**

Potato Disease Forecast for Storrs (Research Farm)

Forecast	Yesterday	Today	6-Day Forecast			Forecast Details		
	6/26	6/27	6/28	6/29	6/30	7/1	7/2	7/3
Early blight P-Days Show p-day log	372	380	389	399	408	417	425	434
Late Blight Blitecast Severity Values Show severity value log	23	23	25	28	29	29	29	29

Observed data available through 6/27/2016 14:00.

P-Days Key	
>=300	P-Day threshold exceeded.

Blitecast Key	
>= 18	Severity value threshold exceeded.

[More Information](#)

Yes, applied

State:

Weather station:

Crop emergence date:

Last fungicide application:

Cultivar:

Date of Interest:

[Potato Cultivar Susceptibility](#)

[Using Potato Disease Forecasts Effectively](#)

[Start over](#)

Map Results **More info**

Potato Disease Forecast for Storrs (Research Farm)

Forecast	Yesterday	Today	6-Day Forecast			Forecast Details		
	6/26	6/27	6/28	6/29	6/30	7/1	7/2	7/3
Early blight P-Days Show p-day log	372	380	389	399	408	417	425	434
Late blight Simcast Blight Units	0	0	6	13	19	24	29	29
Late blight Simcast Fungicide Units	0	-1	-5	-10	-14	-15	-16	-17


Observed data available through 6/27/2016 12:00.


The NEWA Simcast Late Blight model assumes that fungicide applications were made at 11am on the date specified in the user interface. The BlightPro Decision Support System (DSS) is a more robust tool for managing late blight that, among other things, allows you to specify the time of fungicide application. The BlightPro DSS is the preferred tool for monitoring late blight. More information on the DSS can be found at <http://newa.cornell.edu/index.php?page=potato-late-blight-dss>.

P-Days Key	
>=300	P-Day threshold exceeded.
Simcast Key	
	Below threshold.
<= -15	Fungicide unit threshold exceeded.

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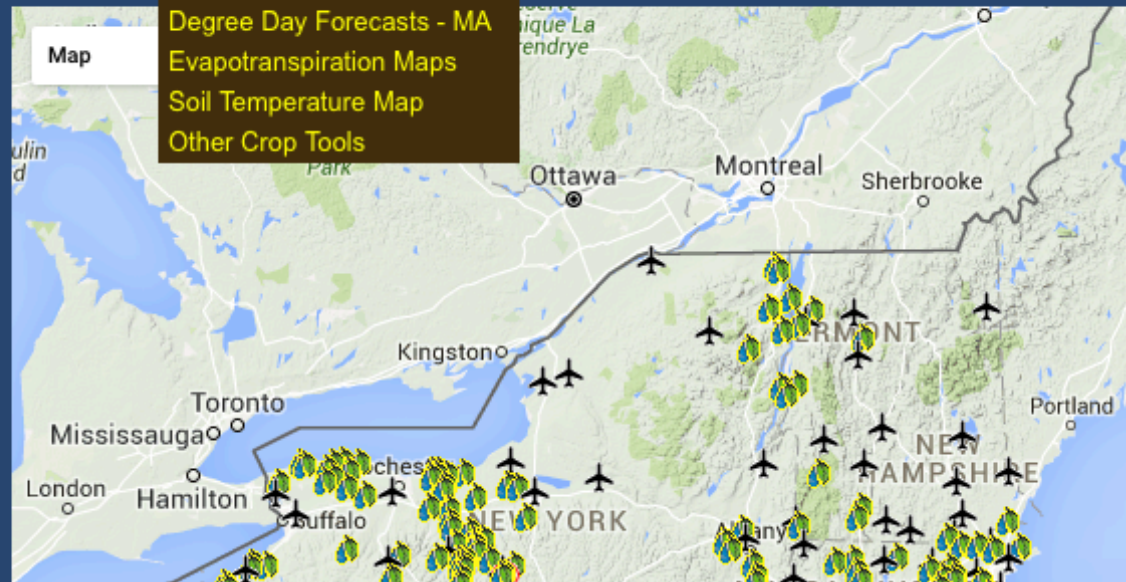
[National Weather Service](#)

Welcome to

Click on

Apple Carbohydrate Thinning
Apple Irrigation
Apple Evapotranspiration
Apple Frost Risk
Growing Degree Days
Degree Day Calculator
Degree Day Forecasts - NY
Degree Day Forecasts - MA
Evapotranspiration Maps
Soil Temperature Map
Other Crop Tools

the weather station's home page.



Cornell Apple Carbohydrate Thinning Model

State:

North Carolina ↕

Weather station:

Edneyville (Apple Wedge) ↕

Select Date:

06/27/2016

Continue

Map

Results

More info

Apple Carbohydrate Thinning Model for Edneyville (Apple Wedge)

Change green tip and/or bloom date and click "Calculate" to recalculate results.

Green tip date	Bloom date	Calculate
2/22/2016	3/17/2016	

Apple Carbohydrate Thinning Model Results

Date	Max Temp (°F)	Min Temp (°F)	Solar Rad (MJ/m ²)	Tree Carbohydrate Status (g/day)				Thinning Recommendation
				Production	Demand	Balance	4-Day Ave Balance	
2/22	62	44	5.5	0.00	9.35	-9.35	-7.31	-
2/23	47	43	2.5	0.00	6.56	-6.56	-5.85	-
2/24	61	38	10.2	0.00	9.04	-9.04	-5.56	-
2/25	44	32	7.8	0.00	4.30	-4.30	-5.46	-
2/26	40	31	14.5	0.00	3.51	-3.51	-7.96	-
2/27	53	28	14.9	0.00	5.41	-5.41	-9.97	-
2/28	65	27	15.2	0.00	8.62	-8.62	-9.81	-
2/29	67	40	15.2	0.00	14.29	-14.29	-8.48	-
3/1	63	34	9.0	0.00	11.57	-11.57	-6.51	-
3/2	47	28	14.3	0.39	5.15	-4.77	-5.28	-
3/3	40	27	7.7	0.00	3.31	-3.31	-7.5	-



Apple Carbohydrate Thinning



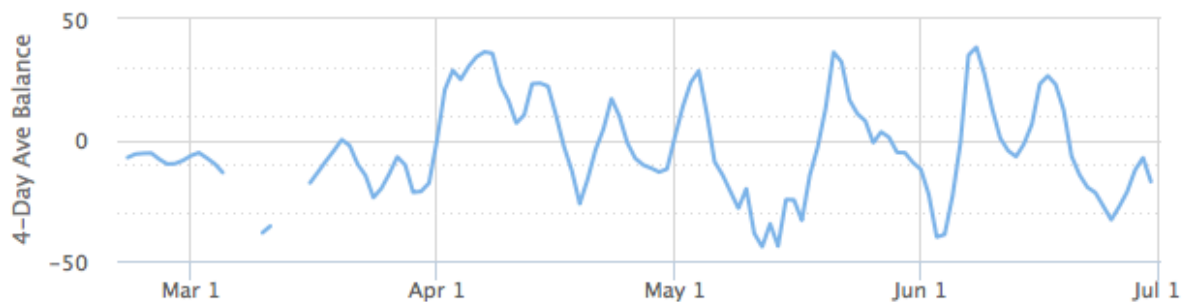
4/7	61	44	18.0	64.87	51.14	13.73	36.37	Increase chemical thinner rate by 30%
4/8	55	40	21.9	74.45	37.27	37.18	35.75	Increase chemical thinner rate by 30%
4/9	48	38	23.4	74.97	26.01	48.95	22.82	Increase chemical thinner rate by 30%
4/10	55	29	17.6	69.47	23.84	45.63	16.42	Increase chemical thinner rate by 30%
4/11	64	38	14.5	61.20	49.96	11.24	6.93	Increase chemical thinner rate by 30%
4/12	65	53	17.1	64.32	78.85	-14.53	10.32	Increase chemical thinner rate by 30%
4/13	61	42	19.5	76.90	53.55	23.35	23.17	Increase chemical thinner rate by 30%
4/14	66	46	20.1	78.50	70.85	7.65	23.43	Increase chemical thinner rate by 30%
4/15	63	42	21.0	83.91	59.12	24.79	22.19	Increase chemical thinner rate by 30%
4/16	67	36	23.5	93.33	56.46	36.87	10.33	Increase chemical thinner rate by 30%
4/17	74	36	23.6	94.67	70.28	24.39	-2.61	Apply standard chemical thinner rate
4/18	80	39	22.4	90.39	87.67	2.71	-12.65	Apply standard chemical thinner rate
4/19	79	46	17.5	74.99	97.66	-22.67	-26.35	Decrease chemical thinner rate by 15%
4/20	74	53	20.3	82.86	97.74	-14.88	-16.23	Apply standard chemical thinner rate
4/21	74	55	19.8	81.20	96.98	-15.78	-4.04	Apply standard chemical thinner rate
4/22	64	55	6.0	84.47	76.54	8.93	4.59	

Apple Carbohydrate Thinning



6/18	75	60	27.4	134.72	106.50	28.22	22.88	-
6/19	75	51	31.3	146.95	93.68	53.27	12.37	-
6/20	83	51	21.0	115.55	104.34	11.21	-6.75	-
6/21	85	61	24.1	119.79	120.99	-1.20	-14.43	-
6/22	87	63	23.3	114.15	127.95	-13.80	-19.56	-
6/23	88	66	23.0	110.41	133.62	-23.21	-21.82	-
6/24	85	69	24.1	114.70	134.20	-19.50	-27.36	-
6/25	86	69	23.7	112.93	134.67	-21.74	-33.01	-
6/26	82	69	20.7	107.41	130.24	-22.82	-27.59	-
6/27	82	66	13.7	81.56	126.93	-45.38	-21.43	-
6/28	82	67	15.0	86.65	128.77	-42.11	-12.49	-
6/29	81	62	23.6	120.32	120.36	-0.04	-7.4	-
6/30	81	61	23.7	121.04	119.24	1.80	-17.27	-
7/1	84	63	23.6	117.37	126.97	-9.60		-
7/2	84	65	21.1	108.49	130.25	-21.76		-
7/3	81	66	15.2	88.04	127.56	-39.52		-

Carbohydrate Balance



Apple Irrigation Model

Cornell Apple ET Model

State:

New Jersey

Weather station:

Upper Deerfield

Select Date:

6/27/2016

Continue

Map

Results

More info

Apple ET Model for Upper Deerfield

Green tip date below is estimated from growing degree day accumulations. Enter your orchard's green tip date to fine-tune results. Enter in-row and between-row spacing (or trees/acre) and select age of orchard from menu. Click "Calculate" to obtain results.

Green tip date	In row spacing	Between row spacing	Trees per acre	Age of orchard	Water balance
2/28/2016	<input type="text"/> feet	<input type="text"/> feet	<input type="text"/>	Mature	



Green tip date	In row spacing	Between row spacing	Trees per acre	Age of orchard	Water balance
2/28/2016	3 feet	8 feet	1815	Mature	

Apple Irrigation Model

Cornell Apple ET Model

State:

New Jersey

Weather station:

Upper Deerfield

Select Date:

6/27/2016

Continue

Apple Evapotranspiration Model Results

Date	Orchard ET (gallons)		Rainfall		Irrigation	Water Balance (gallons/acre)	
	per tree	per acre	inches	gallons/acre	gallons/acre	Daily	Cumulative
Jun 20	2.9	5307	0.00	0	0	-5307	-5307
Jun 21	1.1	2020	0.19	3611	0	1592	-3715
Jun 22	2.1	3814	0.00	0	0	-3814	-7529
Jun 23	1.5	2764	0.50	9504	0	6740	-789
Jun 24	0.4	807	1.68	31933	0	31126	0
Jun 25	2.3	4085	0.00	0	0	-4085	-4085
Jun 26	2.6	4744	0.00	0	0	-4744	-8829
Jun 27	1.6	2924	0.00	0	0	-2924	-11753
Jun 28	0.8	1523	0.66	12545	0	11022	-731
Jun 29	1.7	3150	0.00	0	0	-3150	-3881
Jun 30	2.3	4249	0.01	190	0	-4059	-7940
Jul 1	1.6	2831	0.22	4182	0	1350	-6590
Jul 2	2.1	3799	-	-	0	-3799	-10388
Jul 3	2.2	4035	-	-	0	-4035	-14424

You can enter your own rainfall or irrigation amounts and click the "Calculate" button which will appear above to recalculate the water balance.

Green tip date	In row spacing	Between row spacing	Trees per acre	Age of orchard	Water balance
2/28/2016	3 feet	8 feet	1815	Mature ▾	

Apple Irrigation Model

Cornell Apple ET Model

State:

New Jersey ▾

Weather station:

Upper Deerfield ▾

Select Date:

6/27/2016

Continue

Apple Evapotranspiration Model Results

Date	Orchard ET (gallons)		Rainfall		Irrigation	Water Balance (gallons/acre)	
	per tree	per acre	inches	gallons/acre	gallons/acre	Daily	Cumulative
Jun 20	2.9	5307	0.00	0	0	-5307	-5307
Jun 21	1.1	2020	0.19	3611	0	1592	-3715
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Jun 23	1.5	2764	0.50	9504	0	6740	-789
Jun 24	0.4	807	1.68	31933	0	31126	0
Jun 25	2.3	4085	0.00	0	0	-4085	-4085
Jun 26	2.6	4744	0.00	0	0	-4744	-8829
Jun 27	1.6	2924	0.00	0	12000	9076	0
Jun 28	0.8	1523	0.66	12545	0	11022	0
Jun 29	1.7	3150	0.00	0	0	-3150	-3150
Jun 30	2.3	4249	0.01	190	0	-4059	-7209
Jul 1	1.6	2831	0.22	4182	0	1350	-5858
Jul 2	2.1	3799	-	-	0	-3799	-9657
Jul 3	2.2	4035	-	-	0	-4035	-13693

You can enter your own rainfall or irrigation amounts and click the "Calculate" button which will appear above to recalculate the water balance.

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