

Upper Deerfield (RISE) - Leaf Wetness and Severity Value Log 2011

Wet Starting Date Time	Wet Ending Date Time	Hours RH >= 90%	Avg Temp F	Total Rain	Severity Value	Accum Severity 7-Day	Season
9/30/2011 22:00	in progress	4	59	0.24	0	20	91
9/30/2011 2:00	9/30/2011 9:00	7	58	0.00	0	23	91
9/29/2011 23:00	9/30/2011 6:00	1	61	0.00	0	23	91
9/28/2011 19:00	9/29/2011 12:00	17	72	0.00	3	26	91
9/28/2011 12:00	9/28/2011 14:00	2	74	0.01	0	23	88
9/27/2011 18:00	9/28/2011 12:00	18	72	0.20	3	23	88
9/26/2011 19:00	9/27/2011 12:00	17	70	0.00	3	27	85
9/26/2011 12:00	9/26/2011 14:00	2	74	0.00	0	24	82
9/25/2011 19:00	9/26/2011 11:00	16	69	0.00	3	24	82
9/24/2011 17:00	9/25/2011 10:00	17	69	0.00	3	21	79
9/24/2011 12:00	9/24/2011 15:00	3	72	0.00	0	18	76
9/23/2011 12:00	9/24/2011 12:00	24	71	0.24	5	18	76
9/22/2011 19:00	9/23/2011 12:00	17	72	0.88	3	13	71
9/22/2011 13:00	9/22/2011 14:00	1	75	0.00	0	10	68
9/21/2011 19:00	9/22/2011 12:00	17	71	0.01	3	10	68
9/20/2011 12:00	9/21/2011 10:00	22	64	0.08	5	7	65
9/19/2011 23:00	9/20/2011 12:00	13	61	0.05	2	2	60
9/19/2011 4:00	9/19/2011 9:00	5	50	0.00	0	0	58
9/18/2011 22:00	9/19/2011 3:00	5	52	0.00	0	0	58
9/17/2011 21:00	9/18/2011 1:00	4	55	0.00	0	0	58
9/17/2011 4:00	9/17/2011 9:00	5	50	0.00	0	0	58

# Network for Environment & Weather Applications

How to Use NEWA-NJwxnet on New Jersey Farms



*Using NEWA can keep you apprised of conditions in your area and aid in decision-making, resulting in enhanced pest control with reduced costs and environmental burden.*

# NEWA Combines

- ◆ Web-based Njwxnet Weather Station Data
  - ◆ More than 30 Stations - Sussex to Cape May
- ◆ Weather Summaries & Degree Days
  - ◆ Automatically calculated
  - ◆ Up-to-date
- ◆ Infection Events
- ◆ IPM Forecast Models
  - ◆ Disease
  - ◆ Insect



## Degree Days

Date	Max Temp	Min Temp	Daily DD Base 50	Accumu	
				Jan 1	Mar 1
Upper Deerfield (RISE) - Daily Degree Day Summary					
3/1/2012	57.0	38.0	0.0	10.5	0.0
3/2/2012	48.0	29.0	0.0	10.5	0.0
3/3/2012	57.0	46.0	1.5	12.0	1.5
3/4/2012	46.0	35.0	0.0	12.0	1.5
3/5/2012	41.0	28.0	0.0	12.0	1.5
3/6/2012	43.0	23.0	0.0	12.0	1.5
3/7/2012	62.0	37.0	0.0	12.0	1.5
3/8/2012	69.0	51.0	10.0	22.0	11.5
3/9/2012	63.0	39.0	1.0	23.0	12.5
3/10/2012	42.0	29.0	0.0	23.0	12.5
3/11/2012	56.0	27.0	0.0	23.0	12.5
3/12/2012	67.0	35.0	1.0	24.0	13.5
3/13/2012	75.0	53.0	14.0	38.0	27.5
3/14/2012	73.0	47.0	10.0	48.0	37.5
3/15/2012	58.0	44.0	1.0	49.0	38.5
3/16/2012	59.0	47.0	3.0	52.0	41.5
3/17/2012	66.0	44.0	5.0	57.0	46.5
3/18/2012	64.0	45.0	4.5	61.5	51.0
3/19/2012	73.0	43.0	8.0	69.5	59.0
3/20/2012	74.0	54.0	14.0	83.5	73.0
3/21/2012	69.0	56.0	12.5	96.0	85.5
3/22/2012	72.0	56.0	14.0	110.0	99.5
3/23/2012	80.0	50.0	15.0	125.0	114.5
3/24/2012	58.0	52.0	5.0	130.0	119.5
3/25/2012	54.0	47.0	0.5	130.5	120.0
3/26/2012	57.0	38.0	0.0	130.5	120.0

+ Go to:  
<http://newa.cornell.edu>

- Allow NEWA to determine your location.
- Select the closest weather station to you by:
  - Click leaf icon on map, or
  - Choose from drop-down menu

The screenshot shows the NEWA website interface. At the top, there is a Cornell University logo and a search bar. Below this, the main header identifies the site as the "New York State Integrated Pest Management Program" and "NEWA Network for Environment and Weather Applications". A navigation bar contains links for "Weather Data", "Pest Forecasts", "Station Pages", "Crop Management", "Crop Pages", and "About Weather Stations".

The left sidebar contains several sections:

- National Weather Service Forecast**: Includes a search bar for "City, ST" or "zip code" and a link to "National Weather Service Information".
- NEWA News and Reports**: Includes links for "News and Status Update", "News (Archives)", and "About NEWA".
- Questions and Comments**: Includes a link to "Email us at NEWA".
- Pest Forecasts**: Includes a dropdown menu to "Select a link from list...".
- Crop Management**: Includes a dropdown menu to "Select a link from list...".
- Crop Pages**: Includes links for "Apples", "Grapes", "Onions", "Potato", "Tomato", and "Sweet Corn".

The main content area is titled "Welcome to the NEWA Home Page" and features a map of New York State with weather station markers. A dropdown menu allows users to "Choose a NEWA weather station home page". Below the map, there is a search bar and a list of links for "News and Status Update", "News (Archives)", and "About NEWA".

# + NEWA Station Page

## Current Location Specific Pest Forecasts

Example 1 – Choose “Apple Scab” from the listing of Pest Forecasts on the Station page

Weather Data Quick Links

Daily Summary

[Jan](#) | [Feb](#) | [Mar](#) | Apr | May | Jun  
Jul | Aug | Sep | Oct | Nov | Dec

Hourly Data

[Jan](#) | [Feb](#) | [Mar](#) | Apr | May | Jun  
Jul | Aug | Sep | Oct | Nov | Dec

Growing Degree Days (Base 50F)

[Jan](#) | [Feb](#) | [Mar](#) | Apr | May | Jun  
Jul | Aug | Sep | Oct | Nov | Dec


Growing Degree Days (Base 50F BE)

[Jan](#) | [Feb](#) | [Mar](#) | Apr | May | Jun  
Jul | Aug | Sep | Oct | Nov | Dec

Growing Degree Days (Base 86/50F)


[Jan](#) | [Feb](#) | [Mar](#) | Apr | May | Jun  
Jul | Aug | Sep | Oct | Nov | Dec

National Weather Service Forecast


[This Station's 7-Day Forecast](#)  
 Enter "City, ST" or "zip code"  
   
[National Weather Service Information](#)

Helpful Links

How to Use and Interpret Pest Forecasts

Select a link from list... 

Pest Management Guidelines

Select a link from list... 


Pittstown, NJ Weather Station Page

These pest forecasts provide current conditions, using [default biofix dates](#), for this location, as of the last download date and time. **For prior dates and years, and other locations, choose from Pest Forecasts on the horizontal menu.**

Pittstown, NJ Pest Forecasts

[Apple Scab](#) | [Apple Maggot](#) | [Onion Disease Log](#)  
[Fire Blight](#) | [Grape Berry Moth](#) | [Onion Blight Alert](#)  
[Spotted Tentiform Leafminer](#) | [Alfalfa Weevil](#) | [Onion Modified Blight Alert](#)  
[Oriental Fruit Moth](#) | [Cabbage Maggot](#) | [Potato Early Blight](#)  
[Codling Moth](#) | [Onion Maggot](#) | [Potato Late Blight Blitecast](#)  
[Plum Curculio](#) | [Onion Disease Forecast](#) | [Tomato Late Blight Blitecast](#)  
[Obliquebanded Leafroller](#)

Station Location

Lat/Lon: 40.56/-74.96  
Elevation: 183 ft.  
  
Google Map Data - Terms of Use

Last Download

3/31/2012 11 AM

Station Sensors

Temperature  
Precipitation  
Relative Humidity  
Wind Speed  
Wind Direction  
Solar Radiation

# + NEWA Station Page

## Current Location Specific Pest Forecasts

Example 1 – Apple Scab

Pittstown, NJ

Apple Scab Summary for Pittstown								
	Past	Past	Current	5-Day Forecast			Forecast Details	
	Mar 29	Mar 30	Mar 31	Apr 1	Apr 2	Apr 3	Apr 4	Apr 5
Ascospore Maturity	32%	34%	37%	40%	45%	50%	56%	60%
Wetness Events								
Rain Amount	0.00	0.00	0.68	0.15	0.09	NA	NA	NA
Rain Prob (%) Night Day ?			-   74	13   25	30   10	5   28	30   20	10   10
Dew ?	No	No	Yes	Yes	No	No	No	No
NA - not applicable								
Ascospore Maturity Graphs								
Download Time: 3/31/2012 11:00								

Check  
Ascospore  
Maturity  
Graphs

Make  
sure to  
adjust  
this date  
to your  
actual  
green tip  
date!

The Ascospore Maturity degree day model begins at 50% green tip on McIntosh flower buds. To recalculate ascospore maturity for your orchard, enter your green tip date

Green Tip Date:

Ascospores, which cause primary scab, discharge during rain. Both ascospores and conidia, which cause secondary scab, infect at similar rates. A single set of conditions, the [Revised Mills Table](#), can be used for determining infection events for both primary and secondary infections.

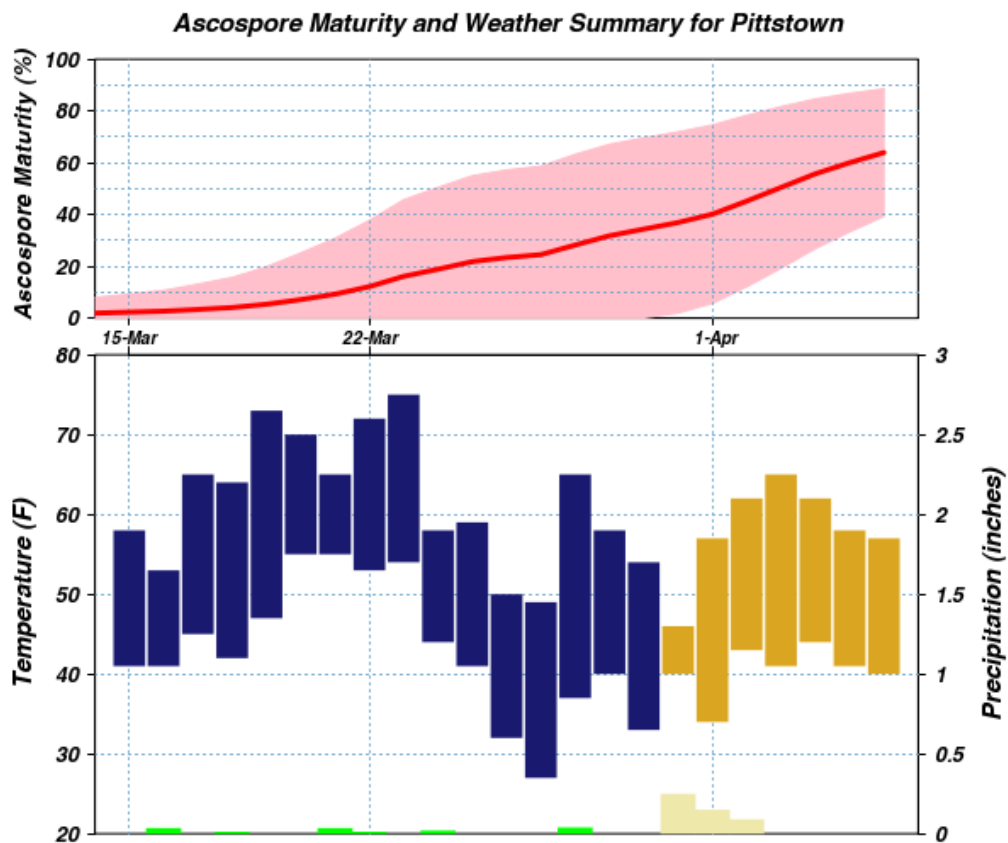
Longer wetting, beyond the minimum times for a given temperature specified in the [Revised Mills Table](#), often results in more disease. Apple scab infection events are calculated beginning with 0.01 inch of rain. Two successive wetting periods are considered a single, uninterrupted wetting period if the intervening dry period is less than 24 hours.

Pesticide Information

# + NEWA Station Page

## Current Location Specific Pest Forecasts

Example 1 – Apple Scab



Red line on top graph represents ascospore maturity. Pink area represents uncertainty.  
Observed daily highest and lowest hourly temperatures are connected by dark blue bars.  
Observed precipitation is represented as light green bars.  
Forecast values are in orange.

# + NEWA Station Page

## Current Location Specific Pest Forecasts

Example 2 – Choose “Potato Early Blight” from the Pest Forecasts on the Station page

### Weather Data Quick Links

**Daily Summary**  
[Jan](#) | [Feb](#) | [Mar](#) | [Apr](#) | [May](#) | [Jun](#)  
[Jul](#) | [Aug](#) | [Sep](#) | [Oct](#) | [Nov](#) | [Dec](#)

**Hourly Data**  
[Jan](#) | [Feb](#) | [Mar](#) | [Apr](#) | [May](#) | [Jun](#)  
[Jul](#) | [Aug](#) | [Sep](#) | [Oct](#) | [Nov](#) | [Dec](#)


**Growing Degree Days (Base 50F)**  
[Jan](#) | [Feb](#) | [Mar](#) | [Apr](#) | [May](#) | [Jun](#)  
[Jul](#) | [Aug](#) | [Sep](#) | [Oct](#) | [Nov](#) | [Dec](#)

**Growing Degree Days (Base 50F BE)**  
[Jan](#) | [Feb](#) | [Mar](#) | [Apr](#) | [May](#) | [Jun](#)  
[Jul](#) | [Aug](#) | [Sep](#) | [Oct](#) | [Nov](#) | [Dec](#)

**Growing Degree Days (Base 86/50F)**  
[Jan](#) | [Feb](#) | [Mar](#) | [Apr](#) | [May](#) | [Jun](#)  
[Jul](#) | [Aug](#) | [Sep](#) | [Oct](#) | [Nov](#) | [Dec](#)

### National Weather Service Forecast

[This Station's 7-Day Forecast](#)

 Enter "City, ST" or "zip code"

[National Weather Service Information](#)

### Helpful Links

**How to Use and Interpret Pest Forecasts**

**Pest Management Guidelines**

### Upper Deerfield (RISE), NJ Weather Station Page


These pest forecasts provide current conditions, using [default biofix dates](#), for this location, as of the last download date and time. **For prior dates and years, and other locations, choose from Pest Forecasts on the horizontal menu.**

#### Upper Deerfield (RISE), NJ Pest Forecasts

<a href="#">Apple Scab</a>	<a href="#">Apple Maggot</a>	<a href="#">Onion Disease Log</a>
<a href="#">Fire Blight</a>	<a href="#">Grape Berry Moth</a>	<a href="#">Onion Blight Alert</a>
<a href="#">Spotted Tentiform Leafminer</a>	<a href="#">Alfalfa Weevil</a>	<a href="#">Onion Modified Blight Alert</a>
<a href="#">Oriental Fruit Moth</a>	<a href="#">Cabbage Maggot</a>	<a href="#">Potato Early Blight</a>
<a href="#">Codling Moth</a>	<a href="#">Onion Maggot</a>	<a href="#">Potato Late Blight Blitecast</a>
<a href="#">Plum Curculio</a>	<a href="#">Onion Disease Forecast</a>	<a href="#">Tomato Late Blight Blitecast</a>
<a href="#">Obliquebanded Leafroller</a>		

#### Station Location

Lat/Lon: 40.56/-74.96  
Elevation: 183 ft.



Google Map Data - Terms of Use

#### Last Download

3/31/2012 11 AM

#### Station Sensors

- Temperature
- Precipitation
- Relative Humidity
- Wind Speed
- Wind Direction
- Solar Radiation

# + NEWA Station Page

## Current Location Specific Pest Forecasts

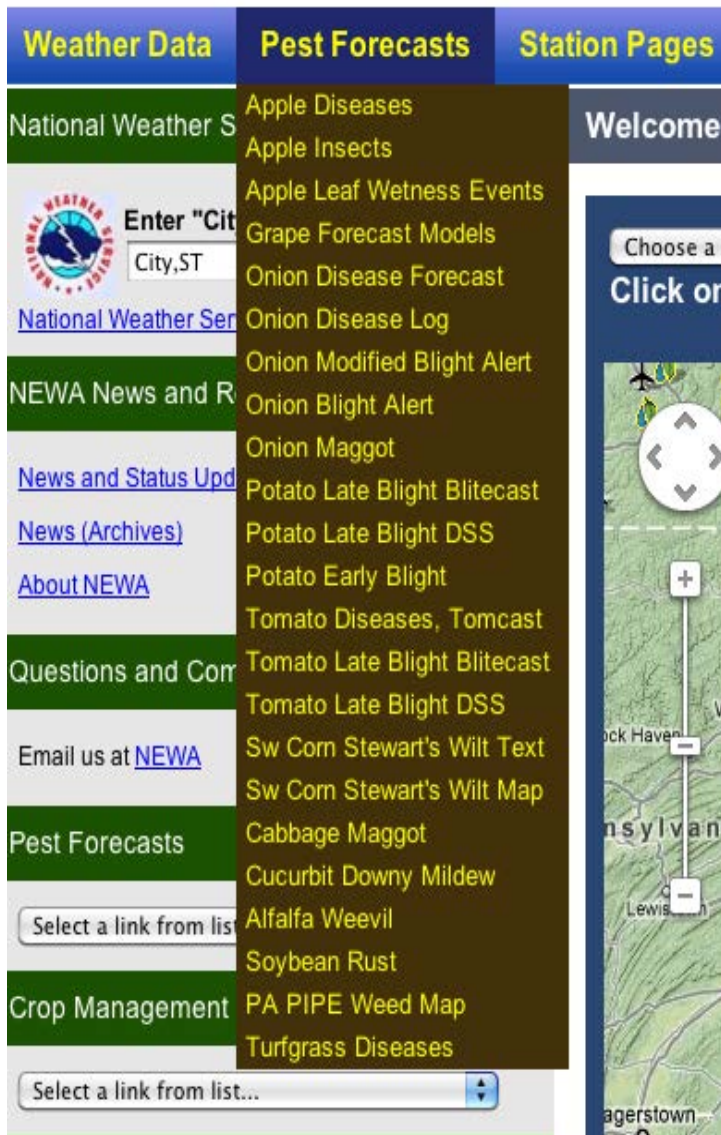
Example 2 – Potato Early Blight

Potato Early Blight		
P-Day Values for Upper Deerfield (RISE)		
<a href="#">May</a>   <a href="#">Jun</a>   <a href="#">Jul</a>   <a href="#">Aug</a>   <a href="#">Sep</a>		
Date	Daily P-Day	Seasonal Accumulation
08/01/2011	5.2	5.2
08/02/2011	5.9	11.1
08/03/2011	7.5	18.6
08/04/2011	9.2	27.8
08/05/2011	8.7	36.5
08/06/2011	7.5	44.0
08/07/2011	3.9	47.9
08/08/2011	4.3	52.2
08/09/2011	7.0	59.2
08/10/2011	7.5	66.7
08/11/2011	8.9	75.6
08/12/2011	8.4	84.0
08/13/2011	8.4	92.4
08/14/2011	9.8	102.2
08/15/2011	8.8	111.0
08/16/2011	9.3	120.3
08/17/2011	7.5	127.8
08/18/2011	7.2	135.0
08/19/2011	8.5	143.5
08/20/2011	8.5	152.0
08/21/2011	8.1	160.1
08/22/2011	9.2	169.3
08/23/2011	8.8	178.1
08/24/2011	8.7	186.8
08/25/2011	9.2	196.0
08/26/2011	8.4	204.4
08/27/2011	9.5	213.9
08/28/2011	9.1	223.0
08/29/2011	9.1	232.1
08/30/2011	8.6	240.7
08/31/2011	8.0	248.7
Date	Daily P-Day	Seasonal Accumulation
09/01/2011	8.8	257.5
09/02/2011	9.4	266.9
09/03/2011	8.9	275.8
09/04/2011	7.9	283.7
09/05/2011	7.9	291.6
09/06/2011	9.4	301.0
09/07/2011	8.4	309.4
09/08/2011	9.4	318.8
09/09/2011	8.3	327.1
09/10/2011	8.2	335.3
09/11/2011	9.0	344.3

For disease forecasting, track the accumulation of DSV or P-day values based on when you transplanted tomatoes or when potatoes emerged on your farm.



**300 P-days Accumulated. Begin Spray Program.**



Click through  
the menu to  
become familiar  
with crop pages  
+ helpful to you.

Using NEWA can keep you apprised of conditions in your area and aid in decision-making, resulting in enhanced pest control with reduced costs and environmental burden.



More questions  
about how to use  
NEWA?

Ask us!

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NEWA is operated by and funded through Cornell University & the NYS IPM Program. This year, NEWA is available free-of-charge to New Jersey growers via support from Rutgers NJAES.

