



# Vegetable Crop Update

A newsletter for commercial potato and vegetable growers prepared by the University of Wisconsin-Madison vegetable research and extension specialists

No. 26 – September 2, 2016

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 Late blight and Cucurbit Downy mildew national updates  
 UW-Rhineland Ag Research Station & WPVGA Potato Harvest Event announcement (A Night on the Farm – September 16 3:30-6:30PM)

## Calendar of Events

**September 11, 2016** – UW-West Madison ARS Organic Vegetable Field Day  
**September 16, 2016** – UW-Rhineland ARS “A Night on the Farm” event  
**January 22-24, 2017** – WI Fresh Fruit & Vegetable Growers Conf. WI Dells  
**February 7-9, 2017** – UWEX/WPVGA Grower Ed. Conf., Stevens Point, WI  
**March 1, 2017** – UWEX Processing Vegetable Crops Meeting, Hancock, WI

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**Current P-Day (Early Blight) and Severity Value (Late Blight) Accumulations (R.V. James, UW-Plant Pathology/R.V. James Designs):** A P-Day value of  $\geq 300$  indicates the threshold for early blight risk and triggers preventative fungicide application. A DSV of  $\geq 18$  indicates the threshold for late blight risk and triggers preventative fungicide application. **Red text in table below indicates threshold has been met/surpassed.** “-“ indicates that information is not available. Blitecast and P-Day values for actual potato field weather from Grand Marsh, Hancock, Plover, and Antigo are now posted at the UW Veg Path website at the tab “P-Days and Severity Values.” [http://www.plantpath.wisc.edu/wivegdis/contents\\_pages/pday\\_sevval\\_2016.html](http://www.plantpath.wisc.edu/wivegdis/contents_pages/pday_sevval_2016.html)

Location	Planting Date	50% Emergence	P-Day Cumulative	Disease Severity Value	Date of DSV Generation	Increase in DSV from 8/26
<i>Antigo</i>	Early 5/1	6/2	<b>726</b>	<b>131</b>	9/2	7
	Mid 5/18	6/7	<b>692</b>	<b>121</b>	9/2	7
	Late 6/3	6/21	<b>589</b>	<b>106</b>	9/2	7
<i>Grand Marsh</i>	Early 4/15	5/22	<b>802</b>	<b>160</b>	9/2	14
	Mid 5/1	5/27	<b>765</b>	<b>154</b>	9/2	14
	Late 5/15	6/3	<b>707</b>	<b>143</b>	9/2	14
<i>Hancock</i>	Early 4/18	5/24	<b>744</b>	<b>164</b>	9/2	19
	Mid 5/3	5/29	<b>704</b>	<b>151</b>	9/2	19
	Late 5/20	6/5	<b>647</b>	<b>142</b>	9/2	19
<i>Plover</i>	Early 4/20	5/25	<b>711</b>	<b>185</b>	9/2	18
	Mid 5/5	5/30	<b>668</b>	<b>170</b>	9/2	18
	Late 5/20	6/6	<b>612</b>	<b>161</b>	9/2	18

**Summary: Disease Severity Values (DSVs) and Late Blight Blitecast:** We now have all potatoes in WI at 50% emergence or greater and are generating forecast values for all potatoes. All growing areas have reached threshold for late blight management. Generally, conditions

were low to moderately favorable for late blight in this past week with 7 day accumulations of 7-19 Disease Severity Values, depending upon the location. Recall the maximum number of DSVs that one day can accumulate is 4. Where thresholds of 18 DSVs have been met, routine, protection of susceptible tomato and potato crops is recommended. Wisconsin commercial conventional fungicides for potato late blight control can be found at:

<http://www.plantpath.wisc.edu/wivegdis/pdf/2016/updated%20Potato%20Late%20Blight%20Fungicides%202016%20MOA.pdf>

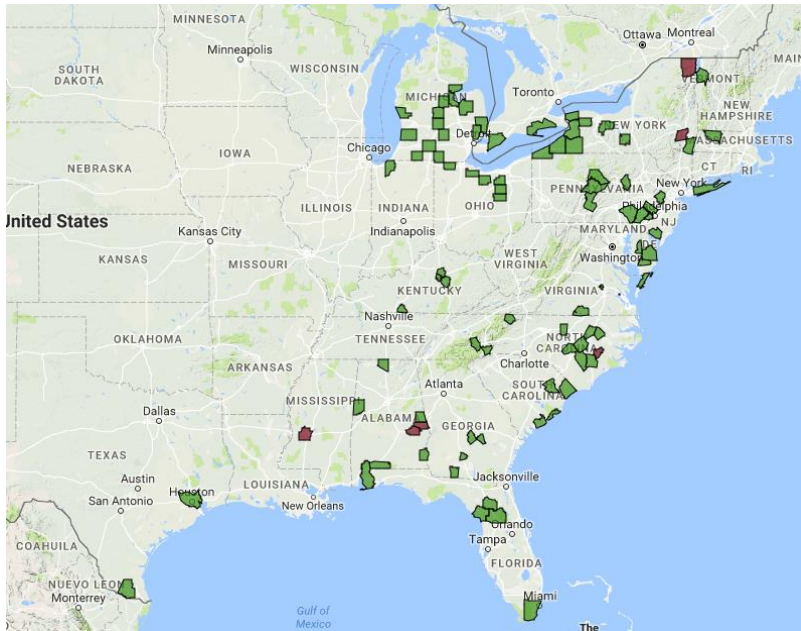
P-Days indicating early blight risk are now at or above threshold for all potatoes in Wisconsin. Lesions are being observed throughout canopies of potato crops throughout WI. Based on our early blight observations from our trials at the UW Hancock Ag Research Station, early blight is now at roughly 90% severity on 'Russet Burbank' planted during the first week of May 2016 with no early-blight-specific fungicides. It's hard to accurately evaluate early blight damage this time of year due to crop senescence and presence of other diseases including blackleg and potato early dying.

**Late Blight Diagnostic Updates. No new late blight confirmations from Wisconsin in this past week, as far as I am aware.** Recall, we have had just 3 farm confirmations from 2 counties, to date: Polk (tomato and potato, US-23, 8/15 & 8/22) and Dane (tomato, 8/18). Late blight of the pathogen genotype US-24 was confirmed in Tompkins Co, NY on potato this week through the national research and extension website in this past week ([www.usablight.org](http://www.usablight.org)). Earlier season's reports have come from AR, MD, CA, FL, ME, MI, NC, SC, VA, WA, and WI. Several regions of Canada have also confirmed potato late blight, including Western Manitoba, (north of North Dakota), and the Pert-Andover area of New Brunswick (north of Maine). US-23 has predominated cases of this disease in the US so far this year. West coast has had US-8 and US-11, and NY (most recent detection) has had US-24 as well. Disease has been confirmed on both potato and tomato. Careful monitoring for and management of volunteers and solanaceous weeds is critical – along with preventive management of the main potato crop with use of effective fungicides.

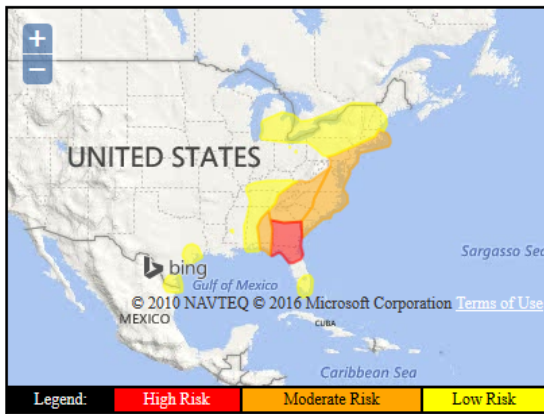
If you are suspect late blight, please submit for free diagnostic testing through the UWEX Plant Disease Diagnostic Clinic or through my laboratory directly. Dr. Brian Hudelson in the clinic offers rather quick late blight confirmations. My program can do this, similarly, for commercial producers. Further my lab will genotype the pathogen in order to better prescribe best management strategies.

**Cucurbit Downy Mildew Updates (<http://cdm.ipmpipe.org/>).** In the past week there were 4 states reporting new confirmations of cucurbit downy mildew: AL, MS, NC, and NY (counties colored red in map below from 9/2/16). Previous confirmations were made in AL, DE, FL, GA, IN, KY, MA, MD, MI, NC, NJ, NY, OH, ON Canada, PA, SC, TX, VA, and VT (counties colored green in map below from 9/2/16). The closest past finds to WI at this time are in central IL (not recorded on map, but present based on disease reports from IL pathologist, Dr. Mohammad Babadoost). There is no risk of movement of the pathogen to Wisconsin production regions in the upcoming forecast for cucurbit downy mildew movement over the next several days (see below from <http://cdm.ipmpipe.org/current-forecast>). However, the forecast was not calculated with the central IL report. Growers should be on watch for earliest symptoms of

downy mildew for rapid response with effective fungicides (link below to treatment information). <http://www.plantpath.wisc.edu/wivegdis/pdf/2016/July%202013,%202016.pdf>



Risk prediction map for Day 2: Thursday, September 1



**HIGH Risk for cucurbits in northern FL, the eastern panhandle, and central and southern GA. Moderate Risk for the western panhandle, eastern AL, northern GA, northeast TN, SC, NC, VA, central and eastern MD, DE, southeast PA, NJ, Long Island, southern CT, RI, and eastern MA. Low risk for cucurbits in central and southern MI, southern ON, central and northern PA, NY, VT, NJ, central and western MA, northern CT, southern KY, central and eastern TN, western AL, southern FL, and southeast and deep south TX. Minimal Risk to cucurbits elsewhere.**

Forecaster: TK at NCSU for the Cucurbit ipmPIPE - 2016



# A Night on the Farm

## Helping fight local hunger

Friday, Sept. 16<sup>th</sup> 3:30 p.m. – 6:30 p.m.

The UW-Rhinelander Agricultural Research Station and WI Potato & Vegetable Growers Association (WPVGA) in cooperation with our Area Food Pantries, are hosting an event to provide for local food needs. We are looking for family and friends to help us pick potatoes for our local food pantries. In addition to the picking, we are accepting additional non-perishable food items for donation. As a thank you, we welcome participants to pick potatoes to take home!



### What's in it for you?

- Help provide food for our local pantries.
- Have a fun night of learning and being outside with family & friends.
- Come see The Wisconsin Spudmobile – the WI potato industry's most comprehensive educational and informational on wheels resource center.
- Take a few pounds of potatoes home!



Light refreshments and food will be served.

This is an informal event for individuals or the whole family. Please bring a container to pick and take your potatoes home!

**Directions:** Field is located 6.5 miles east of the Ice Arena on Cty. Hwy. C, on the right, watch for signs. Google map: <http://rhinelander.ars.wisc.edu/map-directions/>

**News Announcement:** The UW-Rhinelander Agricultural Research Station and WI Potato & Vegetable Growers Association (WPVGA) in cooperation with our Area Food Pantries, are hosting an event to provide for local food needs. **A Night on the Farm – Helping fight local hunger** will be held on Friday, September 16th from 3:30-6:30 p.m. and include opportunities to pick potatoes for area food pantries. You will have the opportunity to learn about the research conducted by the UW Rhinelander Research Station as well as experience **The Wisconsin Spudmobile** – the WI potato industry's most comprehensive educational and informational on wheels resource center. In addition to the picking for the Food Pantries, the station will be accepting additional non-perishable food item donations. Potatoes picked and donated items will be distributed in Rhinelander and other North Central Wisconsin communities. This is an informal event for individuals or the whole family. Light refreshments and food will be served. Please bring a container to pick and take your potatoes home!

**Directions:** Field is located 6.5 miles east of the Ice Arena on Cty. Hwy. C, on the right, watch for signs. Google map: <http://rhinelander.ars.wisc.edu/map-directions/>

