



# Vegetable Crop Update

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

No. 21 – September 22, 2013

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## Calendar of Events

**October 30-31, 2013** Potato Variety Harvest Expo, Storage Research Facility, Hancock Agricultural Research Station, WI

**January 19-21, 2014** WI Fresh Fruit & Vegetable Conference, The Wilderness, Wisconsin Dells, WI

**February 4-6, 2014** WI Potato & Vegetable Growers Association & UWEX Grower Education Conference, Holiday Inn, Stevens Point, WI

**Vegetable Disease Update – Amanda J. Gevens, Assistant Professor & Extension Vegetable Plant Pathologist, UW-Madison, Dept. of Plant Pathology, 608-890-3072 (office), Email: [gevens@wisc.edu](mailto:gevens@wisc.edu). Vegetable Path Webpage: <http://www.plantpath.wisc.edu/wivegdis/>**

**Late blight status in WI and the U.S.:** Three new WI counties with late blight reports in this past week. All of these later season submissions have been on tomato and have been determined to be US-23. In summary, we have confirmed the disease in 14 WI counties from both tomato and potato. For all but 2 samples submitted, the pathogen genotype has been US-23. In the last seven days just one state, NY, reported late blight on tomato. To date this production year, late blight has been reported to the [usablight.org](http://www.usablight.org) website from FL, KY, LA, MA, MD, ME, MI, NJ, NY, OH, OR, PA, TN, WI, WV, and Ontario Canada. The website: <http://www.usablight.org/> indicates location of late blight in the U.S. and provides further information on disease characteristics and management. Additional late blight detections may have occurred in other states, but are not reported on the [usablight](http://www.usablight.org) website.

**Table 1.** Characterization of late blight from Wisconsin in 2013.

County	Host	Genotype	Date of First Confirmation in County
Adams	potato	US-23	28 Jun
Juneau	potato	US-23	29 Jun
Sauk	tomato	US-23	2 Jul
Dunn	potato	US-23	29 Jul
Portage	potato	US-8/US-23	29 Jul/6 Aug
Brown	potato+tomato	US-23	6 Aug
Langlade	potato	US-23	6 Aug
Racine	tomato	US-23	8 Aug
Waushara	potato	US-23	8 Aug
Milwaukee	tomato	US-23	22 Aug
Forest	tomato	US-23	28 Aug
Marinette	tomato	US-23	10 Sep
Walworth	tomato	TBD	10 Sep
Waukesha	tomato	US-23	20 Sep

As a reminder, US-8 is resistant to mefenoxam/metalaxyl fungicides and is an A2 mating type; US-23 is sensitive to mefenoxam/metalaxyl fungicides and is an A1 mating type.

### Current P-Day (Early Blight) and Severity Value (Late Blight) Accumulations

P-Day of  $\geq 300$  indicates threshold for early blight risk and triggers preventative application of fungicide. DSV of  $\geq 18$  indicates threshold for late blight risk and triggers preventative fungicide. Red text in table below indicates threshold has been met. [http://www.plantpath.wisc.edu/wivegdis/contents\\_pages/pday\\_sevval\\_2013.html](http://www.plantpath.wisc.edu/wivegdis/contents_pages/pday_sevval_2013.html)

Location	Planted	50% Emergence	P-Day Cumulative (increase from 9/3)	DSV Cumulative (increase from 9/10)	Calculation Date
Antigo Area	Early 5/13	6/4	770 (67)	88 (20)	9/22/13
	Mid 5/22	6/17	693 (68)	80 (20)	9/22/13
	Late 6/7	6/29	595 (68)	64 (20)	9/22/13
Grand Marsh Area	Early 4/15	5/10	816 FINAL	310 FINAL	9/10/13
	Mid 5/1	5/21	781 FINAL	310 FINAL	9/10/13
	Late 5/15	6/5	690 FINAL	283 FINAL	9/10/13
Hancock Area	Early 4/20	5/15	984 (80)	105 (9)	9/22/13
	Mid 5/5	5/23	923 (80)	103 (9)	9/22/13
	Late 5/15	6/5	841 (81)	81 (9)	9/22/13
Plover Area	Early 4/22	5/17	858 FINAL	218 FINAL	9/10/13
	Mid 5/7	5/30	778 FINAL	194 FINAL	9/10/13
	Late 5/24	6/5	736 FINAL	185 FINAL	9/10/13

**DSVs and Late Blight:** From in-potato-field weather stations here in Wisconsin, we have exceeded initial threshold for Blitecast in all monitored locations. Accumulations of DSVs were low in remaining active sites, Antigo and Hancock. A 5 to 7-day fungicide program is appropriate at this time for any green vines given presence of pathogen in state. This will be one of the last postings of DSVs and PDay accumulations for the production season in WI.

In order to help better understand the epidemic at hand, **please submit samples to my lab** or work through your county agent and request that they send to me for genotyping. *Even if a sample has already been submitted from your county and determined to be US-23.* All we need to know is the county of sample origin. Identification of genotype at the county level would be very helpful in improving our understanding of this epidemic and potential future risks. Lab address is: Amanda Gevens, 1630 Linden Dr, Room 689, Plant Pathology Dept., University of Wisconsin, Madison, WI 53706. Please send infected leaves in a slightly inflated Ziplock bag with no paper towel. Overnight shipping is best.