



Vegetable Crop Update

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

No. 23 – September 26, 2014

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Calendar of Events

October 29-30 – Hancock Ag Research Station Fresh Market Potato Variety Trial Open House (Jeff Endelman), Hancock, WI

December 2-3 – Midwest Food Processing Crops Conference, Kalahari Resort, Wisconsin Dells, WI

January 13-15 – Wisconsin Crop Management Conference, Madison, WI

January 26-28 – Wisconsin Fresh Fruit & Vegetable Growers Conference, Wisconsin Dells, WI

February 3-5 – UWEX & WPVGA Grower Education Conference, 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. Veg Pathology Webpage: <http://www.plantpath.wisc.edu/wivegdis/>



Nationally: In the past week, there have been new late blight reports from NC, NY, and PA. Recent reports are indicated on map above in dark red. Most of the *P. infestans* isolates that have been genotyped from U.S. field and garden samples in 2014, thus far, have been of the US-23 genotype/strain, with the exception of US-8 in a few WI counties, a New Type B 2014 from NY, and US-24 from OR. Reports from greater than one week ago include CT, DE, FL, ID, IN, MA, MD, ME, MI, MN, NC, NH, NJ, NY, OH, ON Canada, OR, PA, VA, VT, WA, WI, and WV. Details can be found at <http://www.usablight.org/>. The website provides location of positive reports of late blight in the U.S. and further information on the disease. If you would like further information regarding late blight pathogen character, oospore risk and impact, or management, please see presentation linked below. Map above was generated from the www.usablight.org website at 7:31PM Sep 26, 2014.

<http://www.plantpath.wisc.edu/wivegdis/pdf/2014/Gevens%20LB%20Presentation%20HARS%202014%20-%20Copy.pdf>

Late blight updates for Wisconsin: No new counties reported late blight this past week. In summary this season, we confirmed late blight from the following counties (mating types in parentheses). Adams (US-8/US-23), Brown (US-23), Marinette (US-23), Milwaukee (US-23), Oconto (US-23), Portage (US-8/US-23), Waushara (US-8/US-23), Racine (US-23), and Waushara Counties (US-23). US-23 is an A1 mating type strain with sensitivity to mefenoxam/metalaxyl. US-8 is an A2 mating type strain with resistance to mefenoxam/metalaxyl fungicides.

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 ≥ 300 indicates the threshold for early blight risk and triggers preventative fungicide application. A DSV of ≥ 18 indicates the threshold for late blight risk and triggers preventative fungicide application. Red text in table below indicates threshold has been met/surpassed. NA indicates that information is not yet available as emergence has yet to occur. 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_2014.html

<i>Location</i>	Planting Date	50% Emergence	P-Day Cumulative	Disease Severity Value	Date of DSV Generation	Increase in DSV from last week (9/12)
<i>Antigo</i>	Early 5/20	6/9	787	110*	9/26	4
	Mid 5/27	6/16	739	110*	9/26	4
	Late 6/6	7/2	603	79*	9/26	4
<i>Grand Marsh</i>	Early 4/20	5/19	968	178*	9/26	12
	Mid 5/4	6/1	880	172*	9/26	12
	Late 6/3	6/23	704	137*	9/26	13
<i>Hancock</i>	Early 4/24	5/20	1025	107*	9/26	4
	Mid 5/8	6/2	927	104*	9/26	4
	Late 6/3	6/24	737	86*	9/26	4
<i>Plover</i>	Early 4/21	5/20	912	172*	9/26	6
	Mid 5/5	6/1	828	170*	9/26	7
	Late 6/5	6/24	651	141*	9/26	7

Please note that we have surpassed the threshold for late blight DSVs (18) in all monitored areas for all plantings of potatoes. Asterisks on the DSVs indicate that I have revised the value as displayed in the SureHarvest Blitecast daily output that is found at the UW-Vegetable Pathology website. In some cases, the number of hours of relative humidity above 90% was being issued as a value greater than 24 - giving unusually high DSVs for the individual day. I assigned a maximum DSV of 4 to such dates. P-Days are over the 300 threshold for potatoes of all planting dates at all locations. Recall, the P-Day 300 threshold is an indicator for timing the initial fungicide application for management of early blight. **This will be our last formal posting of PDay and DSV values for potato disease forecasting for 2014.** If there are any questions,

please feel free to contact me. We will continue to post the weather as generated from field stations for as long as they are in place this fall (on UW Veg Path website, link above).

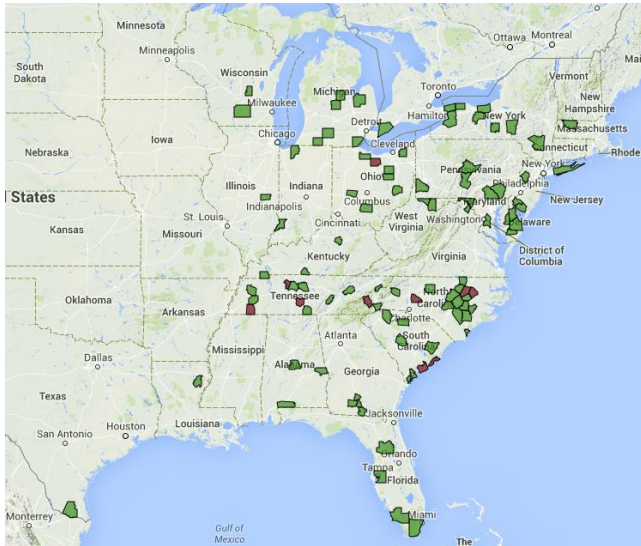
For further information on specific fungicide rates and activities, please find the 2014 updated list of potato fungicides for WI at the link below.

<http://www.plantpath.wisc.edu/wivegdis/pdf/2014/June%206%202014.pdf>

Further details on registered fungicides for WI vegetables can be found in the Univ. of WI Commercial Vegetable Production in WI Guide A3422,

<http://learningstore.uwex.edu/assets/pdfs/A3422.PDF>.

Cucurbit downy mildew updates: In the last 14 days, downy mildew was reported in Calumet County, WI. To date, we've confirmed cucurbit downy mildew in Calumet, Dane and Green Lake Counties, WI. Pickling cucumber crops are finishing up in Central WI and it is important to pay attention to pre-harvest intervals on fungicide labels to enable timely harvests in a multi-pick crop. In the past week, NC, OH, SC, and TN reported cucurbit downy mildew, as depicted in red on the map below. In summary this year, AL, DE, FL, GA, IL, IN, KY, LA, MA, MD, MI, NC, NJ, NY, OH, ON Canada, PA, SC, TN, TX, WI, and WV have reported cucurbit downy mildew across multiple cucurbit hosts. There is no forecasted risk of pathogen movement from sites of previous detection in the Midwestern states at this time.



National reports of cucurbit downy mildew

Locations of recent (red) and older (green) reports of cucurbit downy mildew in the U.S. in 2014. Map sourced from <http://cdm.ipmpipe.org/> from 7:20PM Sep 26 2014.

Further information on cucurbit downy mildew:

<http://learningstore.uwex.edu/Assets/pdfs/A3978.pdf>