Vegetable Crop Update

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

Division of Extension
University of Wisconsin-Madison

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In This Issue

Calendar of Events

December 3-5, 2019 – Midwest Food Producers Association Annual Convention/Processing Crops Conference, Wisconsin Dells, WI
January 26-28, 2020 – WI Fresh Fruit & Vegetable Growers Conference, Wisconsin Dells, WI
February 4-6, 2020 – UW-Madison Div. of Extension & WPVGA Grower Education Conference, Stevens Point, WI

Amanda Gevens, Associate Professor & Extension Specialist, UW-Madison Plant Pathology, gevens@wisc.edu, 608-575-3029. https://wivegdis.plantpath.wisc.edu/

Cucurbit downy mildew: No new cucurbit downy mildew reports from this past week, but, to date, we've had a few in WI including Buffalo (9/5); Vernon (8/20) and Dane County (8/20). **Visit our 2019 WI Commercial Vegetable Production Guide** for further information pertaining to the fungicides listed in this newsletter. https://learningstore.uwex.edu/Assets/pdfs/A3422.pdf The cucurbit downy mildew reporting and forecasting site http://cdm.ipmpipe.org/ indicated new confirmations of downy mildew in MS, OH, and WV during this past week. In 2019 so far, the site documented confirmations in AL, AR, CT, DE, FL, GA, IN, KY, MA, MD, MI, MO, MS, NC, NH, NJ, NY, OH, PA, RI, SC, TN, VA, and WI.

Potato & Tomato Late Blight Updates: One new report on tomato from Walworth Co. last week.

Date	County	Host Crop	Clonal Lineage
7/17/2019	Wood	Potato	US-23
8/2/2019	La Crosse	Tomato	US-23
8/6/2019	Portage	Potato	US-23
8/15/2019		Potato	US-23
8/22/2019		Potato	US-23
9/3/2019		Potato & Tomato	US-23
8/13/2019	Monroe	Tomato	US-23
8/14/2019	Adams	Potato	US-23
8/27/2019		Potato	US-23
8/14/2019	Waushara	Potato	US-23
8/15/2019		Potato	US-23
8/19/2019		Tomato	US-23
8/14/2019	Vernon	Tomato	US-23
8/19/2019	Crawford	Potato	US-23
9/13/2019		Potato & Tomato	US-23
8/24/2019	Sauk	Potato	US-23
9/16/2019		Tomato	US-23
8/29/2019	Juneau	Tomato	US-23
9/12/2019	Shawano	Potato	US-23
9/13/2019	Green Lake	Tomato	US-23
9/18/2019	St. Croix	Tomato	TBD
9/26/2019	Walworth	Tomato	TBD

Most isolates of US-23 can be managed with phenylamide fungicides such as mefenoxam and metalaxyl. It is critical that susceptible potatoes and tomatoes in and around the counties of reports be treated with a combination of antisporulant and protectant fungicides to limit reproduction of the pathogen and new infections. **Antisporulants include: Orondis, Forum, Curzate, Tanos, Ariston, Previcur, Revus, and Ridomil.** Outside of WI, late blight has been confirmed in FL, NC, NY, PA, TN, and WA. Late blight fungicides registered for use in Wisconsin are available at the UW-Potato & Vegetable Pathology website or at link: https://wivegdis.wiscweb.wisc.edu/wp-content/uploads/sites/210/2019/06/2019-Potato-Late-Blight-Fungicides.pdf

Current P-Day (Early Blight) and Disease Severity Value (Late Blight) Accumulations - As potato fields are vine killed and harvested, our stations will be shut down for this season. Many thanks to Ben Bradford, UW-Madison Entomology; Stephen Jordan, John Hammel, & Samuel Meyer, UW-Madison Plant Pathology for maintaining stations and advancing data collection and processing in 2019. 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 indicates threshold has been met/surpassed. Weather data used in these calculations comes from stations that are in potato fields. Data are available in graphical and raw data formats for each weather station at: https://wivegdis.plantpath.wisc.edu/dsv/

Location	***Planting Date***		**Emergence Date (50%)**	**Disease Severity Values (DSVs) 9/29/19**	**Potato Physiological Days (P-Days) 9/29/19**
Grand Marsh	Early	Apr 10	May 20	**167**	**1015.69**
	Mid	May 1	June 1	**165**	**938.49**
	Late	May 20	June 9	**163**	**880**
Hancock	Early	Apr 10	May 22	**112**	**1010.09**
	Mid	Apr 25	May 27	**111**	**974.19**
	Late	May 15	June 8	**109**	**884.67**
Plover	Early	Apr 22	May 27	**158**	**983.42**
	Mid	May 1	June 1	**158**	**949.02**
	Late	May 29	June 13	**156**	**858.8**
Antigo	Early	May 14	May 29	**92**	**854.45**
	Mid	May 24	June 8	**92**	**847.54**
	Late	Jun 1	June 20	**89**	**765.4**