Vegetable Crop Update

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

No. 10 – June 23, 2017

In This Issue

Calendar of Events

July 20, 2017 – UW-Hancock ARS Field Day, Hancock, WI
July 27, 2017 – UWEX Langlade County Airport Research Station Field Day, Antigo, WI
August 4, 2017 – UW-Lelah Starks Elite Foundation Seed Potato Farm Field Day, Rhinelander, WI (10AM to Noon Lunch to Follow)
January 21-23, 2018 – Wisconsin Fresh Fruit & Vegetable Conference, Wisconsin Dells, WI
February 6-8, 2018 – UWEX & WPVGA Grower Education Conference, Stevens Point, 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 ≥ 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. "-" 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/weather_%20list_2017.html

Location	Planting Date	50% Emergence	P-Day Cumulative	Disease Severity Value	Date of DSV Generation	Increase in DSV from 6/16
Antigo	Early 5/3	5/25	>104*	**29***	6/23	-
	Mid 5/15	6/1	>104*	**25***	6/23	-
	Late 6/1	6/15	-	15*	6/23	-
Grand Marsh	Early 4/10	5/15	248	**30**	6/23	10
	Mid 5/1	5/22	241	**28**	6/23	10
	Late 5/17	6/1	178	**20**	6/23	10
Hancock	Early 4/15	5/18	245	**24**	6/23	6
	Mid 5/5	5/30	182	14	6/23	6
	Late 5/20	6/5	144	14	6/23	6
Plover	Early 4/20	5/20	248	**26**	6/23	6
	Mid 5/8	5/25	223	15	6/23	6
	Late 5/25	6/8	127	14	6/23	6

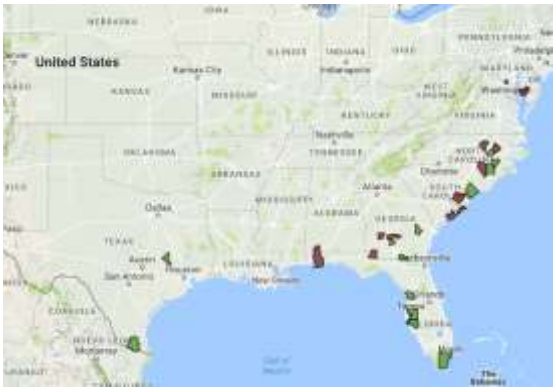
Summary: Disease Severity Values (DSVs) and Late Blight Blitecast: All potatoes are at 50% emergence or greater. Several locations have reached threshold and should be considered for preventive fungicide application to manage the risk of late blight. Locations at/surpassing the threshold of DSV 18

are: early planted potatoes at Grand Marsh, Hancock, Plover, and Antigo; and mid-planted in Grand Marsh and Antigo; and late-planted at Grand Marsh. *We are again having problems with weather station components – batteries and modems are causing data drops. We are making replacements and working through these concerns. In the meantime, I am using DSV data generated through our UW Vegetable Disease and Insect Forecasting web tool (http://agweather.cals.wisc.edu/vdifn/maps) to provide information for the Antigo location. The weather data which generates these values are from NOAA rather than in-potato-field stations; the values have been comparable this season prior to the station failure. Note that the site also now has insect phenological data available for several pests. Recall the maximum number of DSVs that one day can accumulate is 4. Once 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/2017/May%2022,%202017.pdf

P-Days indicating early blight risk have not yet reached threshold for Wisconsin potatoes. Recall the threshold is 300 P-Days. In commercial fields planted in mid-April in southern/central Wisconsin, the first early blight lesions have been noted. I found one lesion in the lower canopy of our foliar early blight fungicide trial at the UW Hancock Ag Research station this week. We typically reach 300 P-Days on/around the first of July in the Hancock area for a general reference.

National Late Blight Updates: **http://usablight.org** is a useful resource for the detection and characterization of late blight on tomato and potato crops from the U.S. No new reports of late blight in the US have been reported at the site during recent weeks. Already this year, late blight has been confirmed on potato and tomato in southwestern Florida – as reported on the usablight.org website. In all reported cases, the pathogen genotype was US-23. This has been the predominant genotype in Wisconsin, and across the U.S., in recent years. US-23 can still generally be managed well with use of phenylamide fungicides.

National Cucurbit Downy Mildew Updates: **http://cdm.ipmpipe.org/** offers information on the detection and characterization of the cucurbit downy mildew pathogen from the U.S. (and often Canada). In this past week, confirmations of downy mildew have come from AL, GA, MD, NC, and SC. Prior confirmations were from FL, GA, NC, SC, and TX on a variety of cucurbits. The counties highlighted in red on map (below) have had disease reports within this past week; green counties indicate locations of confirmed disease this season, but greater than 7 days ago.



The 2017 A3422 Commercial Vegetable Production in Wisconsin Guide is now available for 2017. As in past years, the guide can be downloaded for free (link below) or a hard copy can be purchased from UWEX Learning Store for $10. **https://learningstore.uwex.edu/Assets/pdfs/A3422.pdf**