



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 9, 2018

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Calendar of Events

November 27-29, 2018 – Processing Crops Conference & MWFPFA Annual Convention, Wisconsin Dells, WI
January 15-17, 2019 – Wisconsin Agribusiness Classic, Alliant Energy Center, Madison, WI
January 27-29, 2019 – Wisconsin Fresh Fruit & Vegetable Conference, Kalahari Conference Center, Wisconsin Dells, WI
February 5-7, 2019 – UWEX & WPVGA Grower Education Conference, Stevens Point, WI

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Late blight risk for Wisconsin, based on accumulation of DSVs for 8/29-9/4/18

Date	Grand Marsh	Hancock	Plover	Antigo
9/2/18	0	0	4.0	3.0
9/3/18	0	0	0	3.0
9/4/18	3.0	3.0	3.0	4.0
9/5/18	0	4.0	4.0	0
9/6/18	1.0	2.0	1.0	0
9/7/18	0	0	1.0	1.0
9/8/18	0	0	0	0
Weekly Total	4.0	9.0	13.0	11.0

Severity legend: very high severity risk for late blight indicates a weekly accumulation of ≥ 20 DSVs, high indicates accumulation of 15-20 DSVs, medium indicates 10-15, low indicates 5-10, and very low indicates < 5 DSVs. Values available with select dates/locations at: <https://agweather.cals.wisc.edu/vdifn/maps>

WI Potato Disease Risk Updates: All commercial potato plantings have surpassed 18 DSVs and with presence of the disease in WI, I recommend that fields of susceptible potato and tomato be routinely receiving preventative fungicide applications to limit disease. 7-day programs should be appropriate unless field is proximal to known infection. With close proximity to infection, programs should shift to 5-day intervals with fungicides known to have both curative and anti-sporulant activities.

A list of registered fungicides for late blight in potato for Wisconsin can be found in past Vegetable Crop Updates Newsletter #6 (May 20, 2018) and at link below: <http://www.plantpath.wisc.edu/wivegdis/pdf/2018/2018%20Potato%20Late%20Blight%20Fungicides.pdf> Further information on fungicides and other vegetable crop management inputs in the 2018 Commercial Vegetable Production in Wisconsin guide (A3422): <http://learningstore.uwex.edu/Assets/pdfs/A3422.pdf>

A new potato late blight confirmation from Grand Marsh-Adams County this week. The clonal lineage of the pathogen was US-23, as we've detected from all other Wisconsin detections from 2018 so far.

To date, all Midwestern samples (IL, MI, WI) were of the US-23 genotype. The MN tomato late blight report from earlier in summer was not typed. Back in July, WA confirmed US-8 late blight on potato; and earlier season sample from FL also had a US-8 result. Aside from a recent characterization of the new genotype US-25 from tomato in 2 counties in NY, all other late blight samples from 2018 from NC, NY, and PA were US-23.

Cucumber downy mildew was confirmed in Waushara County this week, in our sentinel plot at the UW-Hancock Agricultural Research Station this past week by Dr. Steve Jordan, UW-Potato & Vegetable Pathology. This late season, we have had reports of cucumber downy mildew in Columbia, Dane, Ozaukee, and Portage Counties. These findings represent sentinel plot detections as well as commercial pickling cucumber and commercial fresh market cucumbers. Steve's pictures of the symptoms, and sporangia (spores), are included below. We have seen much greater incidence and severity of downy mildew on cucurbits this year than in past recent years. While fruit cannot become infected with *Pseudoperonospora cubensis*, the downy mildew pathogen, declining foliage can be very problematic for protecting fruit from UW, and we often see secondary infection of other pathogens once a crop is impacted by downy mildew. Late season management of the foliage is critical for winter squash and pumpkins that require several more weeks of maturation in the field.



New reports were abundant in the US this past week with detections in IN, NC, NY, OH, TN, and WI based on the reporting and forecasting site: <http://cdm.ipmpipe.org/>. Previous reports this 2018 season have come from: AL, CT, DE, FL, GA, IN, KY, MA, MD, MI, NC, NJ, NY, OH, ON Canada, PA, RI, SC, TN, VA, WI, and WV on various cucurbits. Given the detections in WI over the past few weeks, and likely further spread, preventative fungicides are recommended to limit downy mildew in later crops. Fungicide information can be found in previous newsletters. For more info on symptoms, disease cycle, and general management, please visit: <http://learningstore.uwex.edu/Assets/pdfs/A3978.pdf>