



# Vegetable Crop Update

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

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Disease forecasting updates – *Blitecast DSVs exceeding threshold of 18 in several locations*

Season limits on mancozeb and chlorothalonil

## Calendar of Events

**July 15** – UW-Hancock ARS Field Day, 1:00PM, Hancock, WI

**July 17** – Rhinelander State Farm Field Day, Lelah Starks Elite Found. Seed Farm, Rhinelander, WI

**August 20** – UWEX Langlade County Airport Field Day, Antigo, WI

**August 25-27** – Wisconsin Farm Technology Days, Statz Bros., Inc. Farm, Sun Prairie, 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  $\geq 300$  indicates the threshold for early blight risk and triggers preventative fungicide application. A DSV of  $\geq 18$  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 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/pday\\_sevval\\_2015.html](http://www.plantpath.wisc.edu/wivegdis/contents_pages/pday_sevval_2015.html)

Location	Planting Date	50% Emergence	P-Day Cumulative	Disease Severity Value	Date of DSV Generation	Increase in DSV from 6/5
<b>Antigo</b>	Early 4/25	5/25	<b>56</b>	<b>7</b>	6/9	3
	Mid 5/5	6/1	<b>56</b>	<b>7</b>	6/9	3
	Late 5/15	NA	NA	NA	NA	NA
<b>Grand Marsh</b>	Early 4/5	5/10	<b>189</b>	<b>23</b>	6/9	3
	Mid 4/15	5/15	<b>179</b>	<b>22</b>	6/9	3
	Late 5/1	NA	<b>145</b>	<b>20</b>	6/9	3
<b>Hancock</b>	Early 4/10	5/15	<b>178</b>	<b>21</b>	6/9	2
	Mid 4/20	5/18	<b>153</b>	<b>18</b>	6/9	2
	Late 5/5	NA	<b>120</b>	<b>13</b>	6/9	2
<b>Plover</b>	Early 4/15	5/15	<b>178</b>	<b>25</b>	6/9	2
	Mid 4/25	5/22	<b>139</b>	<b>22</b>	6/9	2
	Late 5/10	NA	<b>76</b>	<b>6</b>	6/9	2

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>. Disease indicator/forecast tools provide information based on pathogen ecology to help make management decisions. No tool replaces field scouting and disease observations.

**Potato Early Blight Preventive Management:** P-Days have not yet reached threshold of 300 in any locations of Wisconsin. Likely this threshold will be met within the next 2 weeks for several locations.

**Late Blight Preventive Management:** The DSV 18 threshold has been met/surpassed for early and mid-planted/emerged potatoes in the Grand Marsh, Hancock, and Plover potato production areas. The threshold has also been met for late-planted/emerged potatoes in Grand Marsh. This threshold indicates that environmental conditions have been met to promote late blight disease activity. At 18 DSVs, preventive applications of effective late blight fungicides is recommended. No late blight detections have been made in WI at this time on tomato or potato.

**Considerations for fungicide programs to manage late blight:** There is not one recommended fungicide program for all late blight susceptible potato fields in Wisconsin. Fungicide selections may vary based on type of inoculum introduction, proximity to infected fields, crop stage, late blight strain, and other diseases that may be in need of management. This article provides general guidance to assist in development of your fungicide program. Please see UWEX Veg Crop Updates article on fungicide selections from June 5 at link below.

<http://www.plantpath.wisc.edu/wivegdis/pdf/2015/June%205,%202015.pdf>

**Season limits on mancozeb and chlorothalonil:** With the early start to fungicide applications given the late blight risk, it is important to remember to keep track of your use of both mancozeb and chlorothalonil as we can reach the limits quickly. As per federal labelling, you cannot apply more than 11.2 lb of mancozeb per acre per crop. Remember that some pre-mixes contain mancozeb and this component must also be accounted for in your season totals (ie: Gavel, Elixir). The federal labels for chlorothalonil fungicides limits use to 11.25 lb of active ingredient per acre during each growing season. However, Syngenta chlorothalonil formulations (Bravo ZN, Bravo Ultrex, Bravo Weatherstik) have a 24(c) Special Registration for long season potatoes in WI which allows for up to 16 lb of active ingredient per acre/growing season. At this time, the Bravo formulations are the only chlorothalonils with this special label.

**Listing of 2015 WI potato late blight fungicides:**

<http://www.plantpath.wisc.edu/wivegdis/pdf/2015/Potato%20Late%20Blight%20Fungicides%202015.pdf>

**The 2015 A3422 Commercial Vegetable Production in Wisconsin guide is available for purchase through the UW Extension Learning Store website:**

<http://learningstore.uwex.edu/Commercial-Vegetable-Production-in-Wisconsin2015-P540.aspx>

A pdf of the document can be downloaded or is available at the following direct link:

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