

Montana Potato Weather Data and Disease Report

August 15, 2016

We are nearing vine-kill and overall, late blight risk is low. While we have reached the threshold for Late Blight Severity Units for the first time at the Churchill West station, the total accumulation for the week was only two units. The Ronan station showed a 6 unit increase which indicates a higher actual risk for that location. Considering how close we are to vine kill, a final fungicide application with activity against both late blight and early blight should finish out the season. If you are planning on vine kill after September 1 or if we have an extended wet period an additional application may be needed. Preventative fungicides such as chlorothalonil, mancozeb or dithane should be adequate and will give protection against both early blight and late blight.

<u>Site</u>	<u>Accrued Severity Values¹</u>					<u>P – Days²</u>	<u>Fungicide Recommendation</u>
	7/17	7/24	7/29	8/8	8/15		
<i>Churchill West – MSPUD1</i>	7	9	10	16	18	402	<i>Late Blight and Early Blight</i>
<i>Churchill North – MSPUD2</i>	10	15	19	36	36	407	<i>Late Blight, Early Blight</i>
<i>Churchill South – MSPUD3</i>	3	3	3	6	6	406	<i>Early Blight (All Varieties)</i>
<i>Toston – MSPUD4</i>	9	13	17	28	31	396	<i>Late Blight, Early Blight</i>
<i>Dillon – MSPUD5</i>	2	2	2	12	12	344	<i>Early Blight (mid-season var.)</i>
<i>Twin Bridges – MSPUD6</i>	2	2	3	12	14	350	<i>Early Blight (mid-season var.)</i>
<i>Ronan – MSPUD7</i>	4	7	9	13	19	406	<i>Late Blight and Early Blight</i>
<i>Polson – MSPUD8</i>	1	4	4	5	11	377	<i>Early Blight (mid-season var.)</i>
<i>Kalispell – MSPUD9</i>	4	5	5	6	17	396	<i>Early Blight (All Varieties)</i>
<i>Townsend – MSPUD10</i>	6	8	9	13	13	441	<i>Early Blight (All Varieties)</i>

¹ A threshold of 18 severity values is used for prediction of late blight disease development. Late blight is anticipated 7 to 14 days after 18 severity values have accrued from emergence when inoculum is present.

² A threshold of 300 P-Days is used to schedule preventative sprays for Early Blight for early varieties, 350 P-Days for medium season varieties, and 400 P-Days for late season varieties. P-days are calculated from emergence.