

Montana Potato Weather Data and Disease Report

July 24, 2016

Hot dry weather is keeping late blight risk low. We are just reaching the threshold for early blight for early varieties in Townsend and most areas should be at the threshold (300 P-Days) for early varieties in the next week. A preventative fungicide spray is recommended at 300 P days for early varieties, 350 P-days for mid-season varieties, and 400 P-Days for late varieties. Most potatoes are still in full flower and an application of Omega or Endura for white mold control would be beneficial. Since late blight risk is currently low, application of Endura may be considered over Omega because of its activity against early blight. Omega has activity against late blight but not early blight.

<u>Site</u>	<u>Accrued Severity Values¹</u>			<u>P – Days²</u>	<u>Fungicide Spray Recommendation</u>
	7/5	7/17	7/24		
<i>Churchill West – MSPUD1</i>	0	7	9	270	<i>Sclerotinia at 1st Flower</i>
<i>Churchill North – MSPUD2</i>	0	10	15	279	<i>Sclerotinia</i>
<i>Churchill South – MSPUD3</i>	0	3	3	268	<i>Sclerotinia</i>
<i>Toston – MSPUD4</i>	0	9	13	255	<i>Sclerotinia</i>
<i>Dillon – MSPUD5</i>	0	2	2	208	<i>Sclerotinia</i>
<i>Twin Bridges – MSPUD6</i>	0	2	2	211	<i>Sclerotinia</i>
<i>Ronan – MSPUD7</i>	0	4	7	261	<i>Sclerotinia</i>
<i>Polson – MSPUD8</i>	0	1	4	244	<i>Sclerotinia</i>
<i>Kalispell – MSPUD9</i>	0	4	5	255	<i>Sclerotinia</i>
<i>Townsend – MSPUD10</i>	0	6	8	300	<i>Sclerotinia, Early Blight</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.

Sclerotinia white mold treatments should be initiated at first bloom. The following table contains products for control of white mold.

Boscalid	Endura 5.5-10 oz	1-2 applications starting at 1 st flower. Can be used to replace early blight spray. No late blight activity.
Fluazinam	Omega 5.5-8.0 fl oz	1-2 applications starting at 1 st flower. Must combine with M class fungicide to control early blight. This is a very good late blight fungicide Tank mix with Top MP, chlorothalonil, mancozeb to control early blight
Fluopyram 7 + pyrimethani 19	Luna Tranquility 11.2 fl oz	1-2 applications starting at 1 st flower. Can be used to replace early blight spray. No late blight activity
iprodione	Rovral 50 WP, 4F Nevado \$F 2.0 lb or 2 pt	2 applications starting at 1 st flower. Early blight activity, no late blight activity.
Thiophanate -methyl	Topsin M 75WP-1-1.5 lb/A or 20-30 oz of 4.5 FL	Make first application at row closure with subsequent applications 7-14 days later. No late blight or early blight activity. Tank mix with mancozeb to control those diseases.