

**Potato Disease Advisory #6**  
**June 3, 2010**  
**Cooperative Extension System**  
**University of Delaware**

Bob Mulrooney, Extension Plant Pathologist

**Disease Severity Value (DSV) Accumulation as of June 2, 2010 is as follows:**

*Location: Art and Keith Wicks Farm, Rt 9, Little Creek, Kent County.*  
*Green row: May 6*

Date	LATE BLIGHT			EARLY BLIGHT
	Daily DSV	Total DSV	Spray Recs	Accumulated P- days*
5/20	0	11	none	-
5/21-5/23	0	11	none	-
5/23- 5/25	18	29	5-7 days	-
5/26	0	29	7-days	-
5/27- 5/28	1	30	10-days	-
5/29-5/30	1	31	10- days	-
5/31	0	31	10-days	199
6/1	1	32	10-days	206
6/2	0	32	10-days	214

Maintain the recommended spray interval. At 300 P-days fungicide sprays will be needed to control early blight. Growers who do not want to rely only on the DSV calculations for scheduling fungicide applications should apply at least 1-2 sprays of mancozeb (Dithane, Manzate, Pencozeb, Manex II) or Bravo (chlorothalonil) before plants canopy down the row. At this point weekly fungicide applications would be suggested. There have been no reports of late blight on potatoes in the region.

\* **P days**- We use the predictive model WISDOM to determine the first fungicide application for prevention of **early blight** as well. The model predicts the first seasonal rise in the number of spores of the early blight fungus based on the accumulation of 300 physiological days (a type of degree-day unit, referred to as P-days) from green row. To date, **214 P-days** have accumulated at the site. Once 300 P-days have accumulated, the first fungicide for early blight control should be applied. This usually occurs when rows are touching.

The **Spray Recs** column in the table is also generated by the WISDOM software program. This recommendation combines the DSV accumulation for late blight as well as the P-day accumulations for early blight and computes a spray recommendation. **This is presented as a guide only. Spray decisions should be made with local conditions in mind and this information can help to determine if disease conditions are favorable.**

For specific fungicide recommendations, see the 2010 Delaware Commercial Vegetable Production Recommendations Book.