

Disease Infection Periods during Spring 2013

Date	Hrs Wet ¹	Ave Temp . (°F)	Apple Scab ²	Pear Scab ³	Cherry Leaf Spot ⁴	Brown Rot Blossom Blight ⁶	Mummy Berry ⁷	Grape Powdery Mildew ⁵	Notes
17 Mar	18.5	42	---	?(---)	?(---)	---	H		Blueberry 30% bud break
19 Mar	39	45	M	+	?(+)	---(+)	H		Rose Bud Break
21 Mar	13.5	39	---	?(---)	?(---)	---	M		Cedar Rust Telia
26 Mar	6	47	---	---	---	---	L		Cherry bud swell
4 Apr	12	55	L	---	L	+	H		Pear white bud
4 Apr	10	52	---	---	---	+	H		Cherry full bloom
5 Apr	15	51	L	---	---	+	H		Apple green tip
6 Apr	12+	49	---	---	---	---	H		Pear full bloom
14 Apr	26	44	L	?(+)	?(---)	---	H		Blueberry Bloom
19 Apr	12.5	51	L	---	---	+	H		Cherry petal fall
Apr to May									Dry warm weather lots of plant growth
16 May	11	55	L	---	L			M	
21 May	26	46	M	+	---			S	Grape clusters tight
22 May	15	48	L	---	---			M	
23 May	19.5	50	M	---	L			S	
25 May	9	53	---	---	---			L	
27 May	12	54	L	---	L			M	
28 May	10.5	53	---	---	---			L	Grape cluster separation
13 Jun	10.5	52	---	---	---			L	Grape begin bloom

- 1 Wet hours begin with rain and end with 8 hours drying time. Monitored with an Adcon A730 weather station; however, calculations for infection period done by hand.
- 2 High = high infection period, Med = moderate infection period, Low = low infection period, -- = no infection period based on an ascospore model.
- 3 Pear scab infection periods according to Spotts. + = conditions were right for a minimal infection period. -- = no infection period identified.
- 4 High = high infection period, Med = moderate infection period, Low = low infection period, -- = no infection period, + = possible infection. Infection periods based on model from Michigan. ? = unknown infection period since the model has no information for temperatures below 46° F.
- 5 Infection periods based on ascospore release and infection from the Gubler-Thomas (UC-Davis) grape powdery mildew forecasting program.
- 6 Infection periods based on Brown Rot Blossom Blight Risk Model, Luo, Morgan and Michailides 2001, Phytopathology 91:759-768
- 7 Infection periods based on Risk of mummy berry infection, Hildebrand and Braun, 1991, Canadian Journal of Plant Pathology 13:232-240