

Disease Infection Periods during Spring 2018

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
8 Mar	22	48	M						
13 Mar	13.5	47	---						Crabapple green tip
21 Mar	66.5	42	H	? (+)		---			Peaches pink
24 Mar	10	40	? (-)	?		?	+		
25 Mar	?	?	?	?		?	?		
26 Mar	?	?	?	?		?	?		Blueberry Floral Bud Break
1 Apr	13	39	---	? (-)	? (-)	---	+		Cherry popcorn
4 Apr	8	46	---	---	---	---	+		Crabapple pink
5 Apr	23.5	53	M	+	M	+	+		
7 Apr	4	59	---	---	---	+	L		Peach petal fall
7 Apr	26.5	49	M	+	L	---	+		Cherry bloom
11 Apr	39.5	45	M	+	? (L)	---	+		Serviceberry bloom
14 Apr	28.5	49	M	+	L	+	+		Braeburn king bloom
16 Apr	29	44	M	? (+)	? (-)	---	+		Bing full bloom
27 Apr	45	50	H	+	H	+		S	Grape bud break
6 May	6	56	---	---	---			---	Apple full bloom
8 May	8.5	62	---	---	L			M	Blueberry late bloom
10 May	9.5	52	---	---	---			L	
8 Jun	18	54	M	+	L			S	
10 Jun	28	53	H	+	M			S	Grape bloom start

- 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