

Disease Infection Periods during Spring 2010

Date	Hrs Wet ¹	Average Temp. (°F)	Apple Scab ²	Pear Scab ³	Cherry Leaf Spot ⁴	Brown Rot Blossom Blight ⁶	Grape Powdery Mildew ⁵	Notes
10 Mar								Hazelnut bud break
11 Mar	43.5	44	H	+	(L)	---		Blueberry bud break
21 Mar	20	48	M	+	---	---		Peach full bloom
24 Mar	56.5	45	H	+	(M)	---		
28 Mar	84	46	H	+	M	(+)		Bing cherry 5% popcorn, Serviceberry full bloom
2 Apr	29.5	43	M	+	(---)	---		Pear full bloom, Apple tight cluster
11 Apr	11 (5)	48	---	---	---	+		
19 Apr	17	52	L	+	L	+		Cherry petal fall, blueberry full bloom
26 Apr	17.5	51	L	+	L		M	Grape bud break
27 Apr	35	46	M	+	L		S	Cherry shuck split
3 May	28.5	46	M	+	L		S	Apple full bloom or past
16 May	10	53	---	---	---		L	
17 May	10.5	54	---	---	---		L	End of blueberry bloom
19 May	18.5	49	L	+	---		M	
21 May	24.5	46	M	+	---		M	
25 May	17.5	52	L	+	L		S	
30 May	12	56	L	+	L		M	
1 Jun	21.5	59	H	+	H		S	
3 Jun	18.5	52	M	+	L		S	
6 Jun	7.5	61	---	---	L		L	
8 Jun	13.5	55	L	+	L		M	
10 Jun	8	52	---	---	---		L	

- 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