

Disease Infection Periods during Spring 2011

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
11 Mar								Lilac bud break
19 Mar								Hazelnut bud break
5 Apr	32	42	L	?(+)	?(--)			Pear tight cluster
10 Apr	11	44	--	--	--	---		Braeburn apple tight cluster
13 Apr	52	46	H	+	H	+		Corum cherry popcorn
16 Apr	5	54	--	--	--	+		Pear full bloom
8 May	16.5	50	L	+	--	--		Rome apple tight cluster, Corum cherry petal fall, Blueberry 25% bloom, Braeburn apple king bloom
11 May	19	43	--	(--)	(--)	---	L	Grape bud break
17 May	13	49	--	--	--		M	Bing cherry shuck-split
25 May	13	52	L	--	--		M	Rome apple petal fall
26 May	37.5	50	H	+	H		S	
28 May	15.5	46	--	--	--		L	
30 May	18	51	M	+	L		S	Bing cherry pits hard
1 Jun	8.5	52	--	--	--		L	
2 Jun	8	54	--	--	--		L	
12 Jun	10	56	--	--	L		M	

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