

Disease Infection Periods during Spring 2024

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
22 Mar	29	49	M	+	M	+	H		Peach full bloom
23 Mar	18	44	--	--	? (--)	--	H		Apple bud break
25 Mar	13.5	47	--	--	--	+	H		Cherry popcorn
26 Mar	12	48	--	--	--	--	H		Blueberry bud break
28 Mar	20	43	L	? (--)	? (--)	--	H		Goldens Calyx
2 Apr	47	42	M	? (--)	? (+)	--	H		Breaburn pink
6 Apr	23	45	L	--	? (--)	--	H		Blueberry early bloom
11 Apr	11	47	--	--	--	--	M-H		
13 Apr	9	54	--	--	--	+	H		Cherry petal fall
25 Apr	34	52	H	+	H			S	Blueberry full bloom
30 Apr	13	45	--	--	? (--)			L	Romes full bloom
1 May	20	48	M	+	--			S	
3 May	31	50	H	+	M			S	
6 May	12	48	--	--	--			L	
7 May	8.5	53	--	--	--			L	
2 Jun	26	57	H	+	H			S	
16 Jun	24	50	M	+	L			S	

1 Wet hours begin with rain and end with 8 hours drying time. Monitored with a Meter Atmos 41 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