

Disease Infection Periods during Spring 2023

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
19 Mar	16	47	L	--	--	--	H		Peach Pink
23 Mar	33	37	--	?(--)	?(--)	--	H		
26 Mar	13.5	39	--	?(--)	?(--)	--	M		
27 Mar	21	43	L	?(--)	?(--)	--	H		
31 Mar	23.5	42	L	?(--)	?(--)	--	H		Crabapple bud break
1 Apr	15	41	--	?(--)	?(--)	--	M-H		
4 Apr	8	40	--	?(--)	?(--)	--	L		
5 Apr	33.5	49	H	+	M	L	H		
9 Apr	61	48	M	+	--	M	H		Ennis bud break, Peaches full bloom, Blueberry bud break
12 Apr	8	38	--	?(--)	?(--)	--	0-L		Cherry bud break
16 Apr	7	47	--	--	--	--	L		
17 Apr	23	41	--	?(--)	?(--)	--	H		Apple green tip
19 Apr	12.5	42	--	?(--)	?(--)	--	H		
20 Apr	34	48	H	+	M	L	H		
22 Apr	9	54	--	--	--	L	H		
23 Apr	13	47	--	--	--	--	H		Apple calyx, Cherry popcorn
1 May									Blueberry bloom, Cherry full bloom
8 May	11	51	--	--	--	L		L	Cherry petal fall, apple bloom

- 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