

Disease Infection Periods during Spring 2022

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
17 Mar	14	48	---	---	---	---	H		Peach pink
21 Mar	8	44	---	---	---	? (---)	M		Hazel bud break
28 Mar	12.5	50	---	---	---	---	M		Apple tight cluster
1 Apr	10.5	45	---	---	---	---	H		Peach full bloom
3 Apr	11.5	48	---	---	---	---	H		Bluetta pre-bloom
4 Apr	9	42	---	? (---)	? (---)	---	L-M		Pear popcorn
9 Apr	33.5	42	M	? (+)	? (---)	---	H		Apple pink
11 Apr	11.5	38	---	? (---)	? (---)	---	M		Cherry full bloom
12 Apr	25	39	---	? (---)	? (---)	---	H		
18 Apr	9	47	---	---	---	---	M-H	---	Apple king bloom
20 Apr	24	46	M	+	---	--- (+)		M	Blueberry full bloom
21 Apr	20.5	48	M	+	---	+		S	Crab full bloom
27 Apr	69.5	50	H	+	H	+		S	
2 May	15	47	L	---	---	---		L	Apple petal fall
5 May	56	51	H	+	H	---		S	
7 May	41	43	M	? (+)	? (L)	---		M	
12 May	15	47	L	---	---	---		M	
13 May	21	53	M	+	M	---		S	
28 May	13.5	54	L	+	L	---		M	
3 Jun	49.5	57	H	+	H	---		S	
6 Jun	12	55	L	---	L	---		M	
9 Jun	13	63	M	+	M	---		S	
10 Jun	57.5	56	H	+	H	---		S	
14 Jun	11	54	---	---	---	---		M	
17 Jun	11	53	---	---	---	---		M	

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