Disease Infection Periods during Spring 2020

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
23 Mar	6	47	---	---	---	---	L		Peach full bloom
23 Mar	36	38	---	? (--)	? (--)	---	H		Tight cluster pears
27 Mar	46	48	H	+	H	+	H		cherry break - bloom
30 Mar	30	44	M	+	? (--)	---	H		Crabapple pink
1 Apr	32	42	L	? (+)	? (--)	---	H		
3 Apr	42	42	M	? (+)	? (L)	---	H		Braeburn bud break
18 Apr	19	48	L	+	---	---	H	M	Grapes bud break +
22 Apr	16	53	L	+	L	+	H	M	
24 Apr	10	52	---	---	---	+	H	L	Cherry petal fall
25 Apr	7	59	---	---	L	+	H	L	
26 Apr	9	51	---	---	---	+	H	L	Bluetta full bloom
1 May	20	54	M	+	M			S	Late Rome bloom
13 May	28	52	H	+	M			S	Grape BBCH 55
13 May	22	51	M	+	L			S	Braeburn full bloom
16 May	17	55	M	+	L			S	
17 May	13	52	L	---	---			M	
30 May	12	53	L	---	---			M	
6 Jun	12	55	L	-- (+)	L			M	
8 Jun	9	55	---	---	---			L	
9 Jun	24	60	H	+	H			S	
11 Jun	8	56	---	---	---			L	
13 Jun	16	54	M	+	L			S	
14 Jun	12	55	L	+	L			M	Pinot noir bloom
16 Jun	8	53	---	---	---			L	

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