Disease Infection Periods during Spring 2019

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	21	46	L	--	--	--	H		
28 Mar	11	43	--	?(--)	?(--)	--	H		Crabapple bud break
1 Apr	31	54	H	+	H	+	H		Peach full bloom
4 Apr	28	51	H	+	M	+	H		Cedar rust telia
6 Apr	68	51	H	+	H	+	H		Blueberry bud break
9 Apr	7	47	--	--	--	--	L		Cherry popcorn
9-11 Ap									Farm Flooded
11 Apr	30	49	H	+	M	+	H		
13 Apr	13.5	44	--	--	--	--	H		
14 Apr	33	44	M	?(+)	?(--)	--	H		Bing full bloom
19 Apr	14	52	L	--	--	+	H		Breaburn pink
14 May	7	56	--	--	--			--(L)	blueberry late bloom
18 May	16.5	52	L	+	L			M	
21 May	15	52	L	+	L			M	
22 May	9	53	--	--	--			L	
25 May	18	49	L	+	--			M	
27 Jun	9	58	--	--	L			L	Bluetta harvest
9 Jul	15	63	M	+	M			S	

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

7 Infection periods based on Risk of mummy berry infection, Hildebrand and Braun, 1991, Canadian Journal of Plant Pathology 13:232-240