

Grape Disease Risk, Deerfield, MA, 8/16/2010 to 8/26/2010

Black Rot

	High	Low	Wet	Daily		
Date	Temp	Temp	Hours	Risk	Warning	
08/16	79.0	64.7	24.0	3.94	Infection Risk	
08/17	90.2	64.9	12.5	5.82	Infection Risk	
08/18	86.1	58.3	11.3	0.95		
08/19	91.5	59.6	12.0	1.62	Infection Risk	
08/20	82.3	56.5	8.8	1.79	Infection Risk	
08/21	81.2	48.1	6.0	0.28		
08/22	69.6	61.9	24.0	3.72	Infection Risk	
08/23	64.9	60.5	24.0	6.86	Infection Risk	
08/24	72.1	62.5	17.5	9.37	Infection Risk	
08/25	70.7	60.7	23.8	12.79	Infection Risk	
08/26	81.0	60.0	11.3	14.31	Infection Risk	

Botrytis

High Low Wet RH>95 Daily

Date	Temp	Temp	Hours	Hours	Risk	Warning
08/16	79.0	64.7	24.0	18.5	3.23	High Infection Risk
08/17	90.2	64.9	12.5	8.5	0.32	Low Infection Risk
08/18	86.1	58.3	11.3	0.8	0.00	
08/19	91.5	59.6	12.0	7.8	0.19	Low Infection Risk
08/20	82.3	56.5	8.8	7.8	0.00	
08/21	81.2	48.1	6.0	0.00		
08/22	69.6	61.9	24.0	6.3	3.28	High Infection Risk
08/23	64.9	60.5	24.0	3.8	3.01	High Infection Risk
08/24	72.1	62.5	17.5	1.59		High Infection Risk
08/25	70.7	60.7	23.8	3.8	3.08	High Infection Risk
08/26	81.0	60.0	11.3	8.0	0.01	Low Infection Risk

Downy Mildew

High Deg Rain Wet Hours>95%RH

Date	Temp	Hrs43	Fall	Hours	43-86	66-77	Risk	Warning
08/16	79.0	0.0	0.06	24.0	18.0	13.0	1	Primary Infection
08/17	90.2	>min	12.5	8.5	7.8	3		High Risk of Infection
08/18	86.1	>min	11.3	0.0	0.0	0		
08/19	91.5	>min	0.02	12.0	5.0	0.0	1	Possible Infection
08/20	82.3	>min	0.02	8.8	7.8	0.3	1	Possible Infection
08/21	81.2	>min	6.0	0.0	0.0	0		
08/22	69.6	>min	0.89	24.0	2.0	0.0	1	Possible Infection
08/23	64.9	>min	0.16	24.0	0.0	0.0	0	
08/24	72.1	>min	17.5	0.0	0.0	0		
08/25	70.7	>min	0.11	23.8	3.3	0.0	1	Possible Infection
08/26	81.0	>min	11.3	8.0	0.5	3		High Risk of Infection

Powdery Mildew

	Temperature	Hours	Hours	Wet	Ascospore	Conidial
Date	High	Mean	70-85	>95	Hours	Infection Index
08/16	79.0	70.3	13.3	0.0	23.5	Heavy
08/17	90.2	75.2	4.8	0.0	9.3	Heavy
08/18	86.1	69.9	5.5	0.0	11.0	
08/19	91.5	73.2	3.5	0.0	11.8	
08/20	82.3	69.8	11.3	0.0	8.8	
08/21	81.2	64.9	9.0	0.0	5.8	
08/22	69.6	65.8	0.0	0.0	22.0	Heavy
08/23	64.9	62.7	0.0	0.0	24.0	Heavy
08/24	72.1	65.7	2.8	0.0	14.8	Heavy
08/25	70.7	64.6	0.5	0.0	22.0	Heavy
08/26	81.0	69.6	10.8	0.0	9.3	Heavy

Phomopsis Cane and Leaf Spot

	Temp	Wet	Rain-	Wet+	Wet	Disease Intensity	
Date	Mean	Hours	Fall	Rain	Temp	Catawba	Seyval
08/16	70.3	24.0	0.06	22.3	70.7	127 High	168 High
08/17	75.2	20.5	0.00	39.0	73.0	254 High	288 High
08/18	69.9	20.5	0.00	0.0	0.0	0	0
08/19	73.2	20.8	0.02	3.0	66.4	8 Light	21 Light
08/20	69.8	12.3	0.02	15.3	67.6	81 Moderate	116 High
08/21	64.9	8.3	0.00	0.0	0.0	0	0
08/22	65.8	24.0	0.89	13.5	65.9	70 Moderate	102 High
08/23	62.7	24.0	0.16	37.5	63.9	307 High	289 High
08/24	65.7	24.0	0.00	61.5	64.6	622 High	488 High
08/25	64.6	24.0	0.11	85.5	64.6	997 High	688 High
08/26	69.6	18.3	0.00	102.8	65.6	1287 High	841 High