

Grape Disease Risk, Deerfield, MA 7/2 - 7/16/2010

Black Rot

Date	High Temp	Low Temp	Wet Hours	Daily Risk	Warning
07/02	80.2	48.5	8.3	0.38	
07/03	89.3	52.4	8.5	0.59	
07/04	91.2	58.2	7.3	1.21	Infection Risk
07/05	98.4	57.5	7.0	0.54	
07/06	100.9	71.7	8.8	1.44	Infection Risk
07/07	99.0	74.7	12.5	1.60	Infection Risk
07/08	92.0	71.7	9.5	1.76	Infection Risk
07/09	91.3	67.6	11.8	1.62	Infection Risk
07/10	76.5	66.1	21.0	3.99	Infection Risk
07/11	90.1	64.7	14.5	5.87	Infection Risk
07/12	92.3	63.1	10.0	2.00	Infection Risk
07/13	88.7	69.0	11.0	1.00	
07/14	79.7	68.3	23.3	4.87	Infection Risk
07/15	89.0	67.2	16.3	7.49	Infection Risk
07/16	95.1	66.9	18.5	10.44	Infection Risk

Botrytis

Date	High Temp	Low Temp	Wet Hours	RH>95 Hours	Daily Risk	Warning
07/02	80.2	48.5	8.3	0.8	0.00	
07/03	89.3	52.4	8.5	1.0	0.00	
07/04	91.2	58.2	7.3	1.8	0.00	
07/05	98.4	57.5	7.0		0.00	
07/06	100.9	71.7	8.8	0.8	0.00	
07/07	99.0	74.7	12.5		0.00	
07/08	92.0	71.7	9.5	1.8	0.00	
07/09	91.3	67.6	11.8	3.3	0.13	Low Infection Risk
07/10	76.5	66.1	21.0	10.8	2.50	High Infection Risk
07/11	90.1	64.7	14.5	7.3	0.83	Moderate Infection Risk
07/12	92.3	63.1	10.0	6.8	0.00	
07/13	88.7	69.0	11.0	2.0	0.00	
07/14	79.7	68.3	23.3	17.3	2.96	High Infection Risk
07/15	89.0	67.2	16.3	8.8	1.16	High Infection Risk
07/16	95.1	66.9	18.8	13.5	1.62	High Infection Risk

Downy Mildew

Date	High Temp	Deg Hrs43	Rain Fall	Wet Hours	Hours >95%RH	66-77	Risk	Warning
07/02	80.2	0.0		8.3	0.0	0.0	0	Primary Infection
07/03	89.3	>min		8.5	0.8	0.0	1	Possible Infection
07/04	91.2	>min		7.3	1.0	0.0	1	Possible Infection
07/05	98.4	>min		7.0	0.0	0.0	0	
07/06	100.9	>min		8.8	0.3	0.3	0	
07/07	99.0	>min		11.5	0.0	0.0	0	
07/08	92.0	>min		9.5	0.5	0.5	3	High Risk of Infection
07/09	91.3	>min		11.8	1.5	1.5	3	High Risk of Infection
07/10	76.5	>min	0.75	21.0	8.8	8.8	3	High Risk of Infection
07/11	90.1	>min		14.5	7.0	4.3	3	High Risk of Infection
07/12	92.3	>min	0.01	10.0	6.3	2.3	3	High Risk of Infection
07/13	88.7	>min	0.48	11.0	1.8	1.8	3	High Risk of Infection
07/14	79.7	>min	0.10	23.3	16.5	16.5	3	High Risk of Infection
07/15	89.0	>min		16.3	8.3	8.3	3	High Risk of Infection
07/16	95.1	>min	0.49	17.5	12.5	12.5	3	High Risk of Infection

Powdery Mildew

Date	Temperature High	Mean	Hours 70-85	Hours >95	Wet Hours	Ascospore Infection	Conidial Index
07/02	80.2	66.1	10.8	0.0	8.3		
07/03	89.3	71.7	4.3	0.0	8.0		
07/04	91.2	75.6	2.5	0.0	7.0		
07/05	98.4	79.1	4.5	3.5	5.5		
07/06	100.9	85.4	12.3	6.0	7.5		
07/07	99.0	85.6	12.8	5.8	10.0		
07/08	92.0	79.5	17.5	0.0	8.5		60 Heavy
07/09	91.3	79.7	6.0	0.0	10.0		80 Heavy
07/10	76.5	72.4	24.0	0.0	19.8	Heavy	100 Heavy
07/11	90.1	75.2	5.3	0.0	11.5	Heavy	90 Heavy
07/12	92.3	76.8	5.5	0.0	8.5		80 Heavy
07/13	88.7	77.2	16.8	0.0	9.5		100 Heavy
07/14	79.7	73.3	21.8	0.0	19.5	Heavy	100 Heavy
07/15	89.0	76.4	5.5	0.0	12.8	Heavy	90 Heavy
07/16	95.1	77.1	10.8	0.3	15.0	Heavy	100 Heavy

Phomopsis Cane and Leaf Spot

Date	Temp	Wet	Rain-	Wet+	Wet	Disease Intensity	
	Mean	Hours	Fall	Rain	Temp	Catawba	Seyval
07/02	66.1	10.5	0.00	0.0	0.0	0	0
07/03	71.7	15.5	0.00	0.0	0.0	0	0
07/04	75.6	12.8	0.00	0.0	0.0	0	0
07/05	79.1	12.3	0.00	0.0	0.0	0	0
07/06	85.4	16.0	0.00	0.0	0.0	0	0
07/07	85.6	18.3	0.00	0.0	0.0	0	0
07/08	79.5	19.8	0.00	0.0	0.0	0	0
07/09	79.7	22.3	0.00	0.0	0.0	0	0
07/10	72.4	24.0	0.75	14.8	72.0	67 Moderate	107 High
07/11	75.2	21.3	0.00	33.5	74.3	189 High	237 High
07/12	76.8	17.8	0.01	16.5	77.0	56 Moderate	102 High
07/13	77.2	21.5	0.48	2.3	72.3	4 Light	15 Light
07/14	73.3	24.0	0.10	26.3	73.2	142 High	189 High
07/15	76.4	24.0	0.00	50.3	74.8	327 High	356 High
07/16	77.1	24.0	0.49	74.3	75.5	542 High	520 High