

## Deerfield, MA Black Rot - Grape From 2009-08-01 To 2009-08-28

Date	High Temp	Low Temp	Wet Hours	Daily Risk	Warning
08/01	84.2	58.1	17.8	2.41	Infection Risk
08/02	74.9	62.7	22.5	6.03	Infection Risk
08/03	84.6	59.8	16.8	8.49	Infection Risk
08/04	84.9	55.4	14.0	9.43	Infection Risk
08/05	84.9	59.3	14.0	2.47	Infection Risk
08/06	80.6	54.9	12.3	1.36	Infection Risk
08/07	78.4	52.9	9.3	1.04	Infection Risk
08/08	75.5	47.9	13.0	0.60	
08/09	68.8	50.1	19.3	2.34	Infection Risk
08/10	86.0	63.2	16.5	4.87	Infection Risk
08/11	88.2	67.9	13.8	7.09	Infection Risk
08/12	78.9	65.1	16.8	9.90	Infection Risk
08/13	74.5	62.2	16.8	12.61	Infection Risk
08/14	88.0	60.5	18.5	15.28	Infection Risk
08/15	91.4	60.4	17.3	17.78	Infection Risk
08/16	89.0	61.8	16.8	20.28	Infection Risk
08/17	92.2	65.8	18.5	23.21	Infection Risk
08/18	92.6	65.1	17.0	25.82	Infection Risk
08/19	89.4	66.9	16.8	28.53	Infection Risk
08/20	89.4	62.6	13.5	29.83	Infection Risk
08/21	90.5	70.5	22.3	4.19	Infection Risk
08/22	80.8	68.5	24.0	8.15	Infection Risk
08/23	82.5	68.4	24.0	12.06	Infection Risk
08/24	83.8	63.6	18.3	14.91	Infection Risk
08/25	85.1	61.8	17.8	17.48	Infection Risk
08/26	84.2	60.2	16.3	19.74	Infection Risk
08/27	75.9	51.2	7.8	20.08	Infection Risk

## Deerfield, MA Botrytis - Grape From 2009-08-01 To 2009-08-28

Date	High Temp	Low Temp	Wet Hours	RH>95 Hours	Daily Risk	Warning
08/01	84.2	58.1	17.8	11.8	1.45	High Infection Risk
08/02	74.9	62.7	22.5	18.5	2.88	High Infection Risk
08/03	84.6	59.8	16.8	9.8	1.33	High Infection Risk
08/04	84.9	55.4	14.0	6.8	0.46	Low Infection Risk
08/05	84.9	59.3	14.0	7.0	0.73	Moderate Infection Risk
08/06	80.6	54.9	12.3	5.3	0.00	
08/07	78.4	52.9	9.3	1.8	0.00	
08/08	75.5	47.9	13.3	3.5	0.00	
08/09	68.8	50.1	19.3	15.8	1.72	High Infection Risk
08/10	86.0	63.2	16.5	10.8	1.30	High Infection Risk
08/11	88.2	67.9	13.8	7.3	0.54	Moderate Infection Risk
08/12	78.9	65.1	16.8	10.3	1.53	High Infection Risk
08/13	74.5	62.2	16.8	7.0	1.53	High Infection Risk
08/14	88.0	60.5	18.5	11.0	1.70	High Infection Risk
08/15	91.4	60.4	17.3	8.8	1.37	High Infection Risk
08/16	89.0	61.8	16.8	9.0	1.24	High Infection Risk
08/17	92.2	65.8	18.5	11.5	1.56	High Infection Risk
08/18	92.6	65.1	17.0	8.8	1.19	High Infection Risk
08/19	89.4	66.9	16.8	7.8	1.28	High Infection Risk
08/20	89.4	62.6	13.5	6.8	0.58	Moderate Infection Risk
08/21	90.5	70.5	22.5	16.5	2.57	High Infection Risk
08/22	80.8	68.5	24.0	17.0	3.09	High Infection Risk
08/23	82.5	68.4	24.0	15.5	3.03	High Infection Risk

08/24	83.8	63.6	18.3	9.0	1.74	High Infection Risk
08/25	85.1	61.8	17.8	10.0	1.57	High Infection Risk
08/26	84.2	60.2	16.3	8.0	1.08	High Infection Risk
08/27	75.9	51.2	7.8		0.00	

Deerfield, MA Downy Mildew - Grape From 2009-08-01 To 2009-08-28

Date	High Temp	Deg Hrs43	Rain Fall	Wet Hours	Hours>95%RH 43-86	66-77	Risk	Warning
08/01	84.2	0.0	0.01	17.8	11.0	0.8	1	Primary Infection
08/02	74.9	>min	0.09	22.5	17.3	9.8	3	High Risk of Infection
08/03	84.6	>min		16.8	9.3	2.3	3	High Risk of Infection
08/04	84.9	>min		14.0	6.8	0.0	1	Possible Infection
08/05	84.9	>min		14.0	6.3	6.3	3	High Risk of Infection
08/06	80.6	>min		12.3	3.8	0.0	1	Possible Infection
08/07	78.4	>min		9.3	0.8	0.0	1	Possible Infection
08/08	75.5	>min		13.3	2.5	0.0	1	Possible Infection
08/09	68.8	>min	0.04	19.3	15.3	0.0	1	Possible Infection
08/10	86.0	>min	0.21	16.5	10.3	2.8	3	High Risk of Infection
08/11	88.2	>min		13.5	7.3	7.3	3	High Risk of Infection
08/12	78.9	>min	0.01	16.8	8.3	7.5	3	High Risk of Infection
08/13	74.5	>min		16.8	6.5	3.3	3	High Risk of Infection
08/14	88.0	>min		18.5	10.5	1.0	3	High Risk of Infection
08/15	91.4	>min		17.3	7.8	0.3	1	Possible Infection
08/16	89.0	>min		16.8	8.5	2.0	3	High Risk of Infection
08/17	92.2	>min		17.3	10.3	10.0	3	High Risk of Infection
08/18	92.6	>min	0.02	16.3	8.8	7.5	3	High Risk of Infection
08/19	89.4	>min		16.3	7.3	7.3	3	High Risk of Infection
08/20	89.4	>min		13.5	5.3	0.5	3	High Risk of Infection
08/21	90.5	>min	1.08	20.0	14.5	14.3	3	High Risk of Infection
08/22	80.8	>min	0.32	24.0	16.5	16.5	3	High Risk of Infection
08/23	82.5	>min	0.55	24.0	14.3	14.3	3	High Risk of Infection
08/24	83.8	>min		18.3	8.8	2.5	3	High Risk of Infection
08/25	85.1	>min		17.8	9.3	0.3	1	Possible Infection
08/26	84.2	>min		16.3	8.0	0.3	1	Possible Infection
08/27	75.9	>min		7.8	0.0	0.0	0	

Deerfield, MA Powdery Mildew - Grape From 2009-08-01 To 2009-08-28

Date	Temperature High	Mean	Hours 70-85	Hours >95	Wet Hours	Ascospore Infection	Conidial Index
08/01	84.2	69.6	10.3	0.0	14.3		
08/02	74.9	68.9	11.5	0.0	22.5	Heavy	
08/03	84.6	71.0	10.5	0.0	13.8	Heavy	60 Heavy
08/04	84.9	70.4	13.5	0.0	14.0	Heavy	80 Heavy
08/05	84.9	71.7	11.5	0.0	12.5	Heavy	100 Heavy
08/06	80.6	66.9	9.8	0.0	11.5		100 Heavy
08/07	78.4	65.2	9.8	0.0	9.3		100 Heavy
08/08	75.5	61.0	6.5	0.0	13.3		100 Heavy
08/09	68.8	60.4	0.0	0.0	19.3	Heavy	90 Heavy
08/10	86.0	73.1	13.5	0.0	15.0	Heavy	100 Heavy
08/11	88.2	77.3	15.8	0.0	10.0	Heavy	100 Heavy
08/12	78.9	70.5	12.8	0.0	16.8	Heavy	100 Heavy
08/13	74.5	68.3	5.8	0.0	14.5	Heavy	90 Heavy
08/14	88.0	71.4	5.0	0.0	15.3	Heavy	80 Heavy
08/15	91.4	73.2	4.3	0.0	15.3	Heavy	70 Heavy
08/16	89.0	74.3	11.5	0.0	15.0	Heavy	90 Heavy
08/17	92.2	76.9	9.3	0.0	15.0	Heavy	100 Heavy
08/18	92.6	77.2	9.0	0.0	14.3	Heavy	100 Heavy

08/19	89.4	76.2	10.5	0.0	14.3		100	Heavy
08/20	89.4	75.5	10.8	0.0	13.0	Heavy	100	Heavy
08/21	90.5	76.6	19.5	0.0	18.5	Heavy	100	Heavy
08/22	80.8	72.9	16.8	0.0	20.8	Heavy	100	Heavy
08/23	82.5	73.2	17.3	0.0	20.8	Heavy	100	Heavy
08/24	83.8	72.1	12.5	0.0	14.0	Heavy	100	Heavy
08/25	85.1	70.4	9.8	0.0	15.0	Heavy	100	Heavy
08/26	84.2	70.5	11.5	0.0	13.5	Heavy	100	Heavy
08/27	75.9	62.5	4.8	0.0	7.0		90	Heavy

Leaf Wetness Sensor Parameters:

Base Temperature 0.0  
Upper Temperature 100.0  
Wetness Threshold 6.0

Deerfield, MA Phomopsis Cane+Leaf Spot - Grape From 2009-08-01 To 2009-08-28

Date	Temp Mean	Wet Hours	Rain-Fall	Wet+Rain	Wet Temp	Disease Catawba	Intensity Seyval
08/01	69.6	24.0	0.01	16.5	73.7	71 Moderate	115 High
08/02	68.9	24.0	0.09	40.5	70.9	297 High	312 High
08/03	71.0	23.5	0.00	58.5	71.5	489 High	453 High
08/04	70.4	23.5	0.00	0.0	0.0	0	0
08/05	71.7	21.3	0.00	0.0	0.0	0	0
08/06	66.9	20.0	0.00	0.0	0.0	0	0
08/07	65.2	14.3	0.00	0.0	0.0	0	0
08/08	61.0	15.0	0.00	0.0	0.0	0	0
08/09	60.4	23.8	0.04	6.8	64.1	26 Light	49 Moderate
08/10	73.1	24.0	0.21	30.8	71.1	198 High	234 High
08/11	77.3	23.0	0.00	48.5	73.6	334 High	355 High
08/12	70.5	24.0	0.01	7.5	69.9	28 Light	55 Moderate
08/13	68.3	24.0	0.00	31.5	68.7	223 High	246 High
08/14	71.4	24.0	0.00	55.5	69.9	484 High	439 High
08/15	73.2	24.0	0.00	79.5	70.9	778 High	630 High
08/16	74.3	24.0	0.00	103.5	71.7	1096 High	817 High
08/17	76.9	24.0	0.00	127.5	72.7	1406 High	994 High
08/18	77.2	24.0	0.02	151.5	73.4	1730 High	1169 High
08/19	76.2	24.0	0.00	175.5	73.8	2087 High	1347 High
08/20	75.5	24.0	0.00	199.5	74.0	2473 High	1530 High
08/21	76.6	24.0	1.08	223.5	74.2	2859 High	1707 High
08/22	72.9	24.0	0.32	247.5	74.1	3336 High	1906 High
08/23	73.2	24.0	0.55	271.5	74.0	3827 High	2103 High
08/24	72.1	24.0	0.00	295.5	73.9	4361 High	2308 High
08/25	70.4	24.0	0.00	319.5	73.6	4953 High	2521 High
08/26	70.5	24.0	0.00	343.5	73.4	5564 High	2735 High
08/27	62.5	19.0	0.00	356.0	72.9	6017 High	2874 High

Leaf Wetness Sensor Parameters:

Base Temperature 41.0  
Upper Temperature 95.9  
Wetness Threshold 3.0

Wet+Rain is the number of rain-initiated leaf wetness hours  
Wet Temp is the mean temperature during the rain-initiated wetness period  
Disease Intensity projects the estimated lesions per leaf