

Deerfield_Risk_6_1_6_26_2009.txt

Deerfield, MA Black Rot - Grape From 2009-06-01 To 2009-06-26

Date	High Temp	Low Temp	Wet Hours	Daily Risk	Warning
06/01	70.0	34.6		0.00	
06/02	78.9	50.1	1.8	0.09	
06/03	68.5	52.4	1.8	0.10	
06/04	74.5	48.4	8.5	0.28	
06/05	69.9	49.6	7.0	0.58	
06/06	80.6	51.0	4.8	0.26	
06/07	80.0	58.4		0.00	
06/08	77.9	57.1	1.8	0.12	
06/09	61.7	53.2	23.5	1.93	Infection Risk
06/10	75.4	52.3	9.5	2.35	Infection Risk
06/11	63.0	56.9	16.8	1.86	Infection Risk
06/12	80.3	57.6	13.0	3.09	Infection Risk
06/13	82.5	53.7	13.0	0.81	
06/14	74.4	57.0	16.0	2.31	Infection Risk
06/15	69.5	53.9	18.5	3.94	Infection Risk
06/16	73.3	51.1	11.5	4.53	Infection Risk
06/17	73.7	46.8	9.5	0.54	
06/18	62.9	50.8	24.0	2.36	Infection Risk
06/19	76.2	60.8	14.5	3.78	Infection Risk
06/20	77.5	58.3	14.0	1.48	Infection Risk
06/21	73.6	62.8	11.3	2.49	Infection Risk
06/22	71.1	63.5	4.0	0.62	
06/23	76.4	65.2	0.3	0.04	
06/24	76.2	64.9	15.0	2.48	Infection Risk
06/25	82.7	63.2	11.3	3.55	Infection Risk
06/26	68.4	64.1	7.8	1.94	Infection Risk

Deerfield, MA Botrytis - Grape From 2009-06-01 To 2009-06-26

Date	High Temp	Low Temp	Wet Hours	RH>95 Hours	Daily Risk	Warning
06/01	70.0	34.6	0.3		0.00	
06/02	78.9	50.1	1.8		0.00	
06/03	68.5	52.4	1.8		0.00	
06/04	74.5	48.4	8.5		0.00	
06/05	69.9	49.6	7.0		0.00	
06/06	80.6	51.0	4.8		0.00	
06/07	80.0	58.4			0.00	
06/08	77.9	57.1	1.8		0.00	
06/09	61.7	53.2	23.5	9.3	2.10	High Infection Risk
06/10	75.4	52.3	9.5	8.8	0.00	
06/11	63.0	56.9	16.8	14.0	1.11	High Infection Risk
06/12	80.3	57.6	13.0	11.8	0.11	Low Infection Risk
06/13	82.5	53.7	13.0	2.8	0.06	Low Infection Risk
06/14	74.4	57.0	16.0	12.0	0.59	Moderate Infection Risk
06/15	69.5	53.9	18.5	14.8	1.43	High Infection Risk
06/16	73.3	51.1	11.5	7.5	0.00	
06/17	73.7	46.8	11.3	9.3	0.00	
06/18	62.9	50.8	24.0	21.0	2.80	High Infection Risk
06/19	76.2	60.8	14.5	13.3	0.74	Moderate Infection Risk
06/20	77.5	58.3	14.0	13.0	0.61	Moderate Infection Risk
06/21	73.6	62.8	11.3	8.8	0.11	Low Infection Risk
06/22	71.1	63.5	4.0		0.00	
06/23	76.4	65.2	0.3		0.00	
06/24	76.2	64.9	15.0		1.10	High Infection Risk
06/25	82.7	63.2	11.3	3.5	0.13	Low Infection Risk
06/26	68.4	64.1	7.8	4.5	0.00	

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Deerfield, MA Downy Mildew - Grape From 2009-06-01 To 2009-06-26

Date	High Temp	Deg Hrs43	Rain Fall	Wet Hours	Hours>95%RH 43-86	66-77	Risk	Warning
06/01	70.0				0.0	0.0	0	
06/02	78.9	0.0		1.8	0.0	0.0	0	Primary Infection
06/03	68.5	>min		1.8	0.0	0.0	0	
06/04	74.5	>min		8.5	0.0	0.0	0	
06/05	69.9	>min		7.0	0.0	0.0	0	
06/06	80.6	>min		4.8	0.0	0.0	0	
06/07	80.0	>min			0.0	0.0	0	
06/08	77.9	>min		1.8	0.0	0.0	0	
06/09	61.7	>min	0.33	23.5	7.3	0.0	1	Possible Infection
06/10	75.4	>min	0.01	9.5	7.8	0.0	1	Possible Infection
06/11	63.0	>min	0.45	16.8	12.8	0.0	1	Possible Infection
06/12	80.3	>min	1.08	13.0	11.5	0.0	1	Possible Infection
06/13	82.5	>min	0.19	13.0	1.3	0.0	1	Possible Infection
06/14	74.4	>min	0.36	16.0	11.0	0.0	1	Possible Infection
06/15	69.5	>min	0.34	18.5	13.8	0.0	1	Possible Infection
06/16	73.3	>min		11.5	5.5	0.0	1	Possible Infection
06/17	73.7	>min		11.3	8.8	0.0	1	Possible Infection
06/18	62.9	>min	1.16	24.0	14.3	0.0	1	Possible Infection
06/19	76.2	>min	0.19	14.5	12.5	0.5	3	High Risk of Infection
06/20	77.5	>min	0.02	14.0	12.0	1.5	3	High Risk of Infection
06/21	73.6	>min	0.14	11.3	6.8	0.0	1	Possible Infection
06/22	71.1	>min		4.0	0.0	0.0	0	
06/23	76.4	>min		0.3	0.0	0.0	0	
06/24	76.2	>min		15.0	0.0	0.0	0	
06/25	82.7	>min		11.3	2.0	0.0	1	Possible Infection
06/26	68.4	>min		7.8	3.0	0.3	1	Possible Infection

Deerfield, MA Powdery Mildew - Grape From 2009-06-01 To 2009-06-26

Date	Temperature High	Mean	Hours 70-85	Hours >95	Wet Hours	Ascospore Infection	Conidial Index
06/01	70.0	54.7	0.3	0.0	2.8		
06/02	78.9	64.3	7.8	0.0	1.8		
06/03	68.5	59.6	0.0	0.0	1.8		
06/04	74.5	61.6	6.3	0.0	8.0		
06/05	69.9	59.7	0.0	0.0	6.8		
06/06	80.6	64.9	8.3	0.0	4.8		
06/07	80.0	68.6	9.8	0.0	0.0		
06/08	77.9	65.7	7.8	0.0	0.8		60 Heavy
06/09	61.7	56.2	0.0	0.0	23.5	Heavy	50 Medium
06/10	75.4	61.5	3.8	0.0	9.5	Heavy	40 Medium
06/11	63.0	59.8	0.0	0.0	16.8	Heavy	30 Light
06/12	80.3	65.8	7.3	0.0	13.0	Heavy	50 Medium
06/13	82.5	66.8	8.8	0.0	13.0		70 Heavy
06/14	74.4	62.1	3.5	0.0	16.0	Heavy	60 Heavy
06/15	69.5	59.2	0.0	0.0	18.5	Heavy	50 Medium
06/16	73.3	60.6	3.8	0.0	11.5	Heavy	40 Medium
06/17	73.7	58.7	5.5	0.0	11.3		30 Light
06/18	62.9	57.9	0.0	0.0	24.0	Heavy	20 Light
06/19	76.2	66.8	8.5	0.0	14.5	Heavy	40 Medium
06/20	77.5	67.0	7.8	0.0	14.0		60 Heavy
06/21	73.6	67.9	7.0	0.0	11.3	Heavy	80 Heavy
06/22	71.1	66.7	0.8	0.0	3.8		70 Heavy
06/23	76.4	69.8	9.5	0.0	0.3		90 Heavy
06/24	76.2	68.7	6.8	0.0	11.3		100 Heavy
06/25	82.7	72.3	15.3	0.0	10.3	Heavy	100 Heavy

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06/26 68.4 66.5 0.0 0.0 8.3 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 2009-06-01 To 2009-06-26

Date	Temp Mean	Wet Hours	Rain-Fall	Wet+Rain	Wet Temp	Di sease Catawba	Intensi ty Seyval
06/01	54.7	0.0	0.00	0.0	0.0	0	0
06/02	64.3	2.0	0.00	0.0	0.0	0	0
06/03	59.6	2.8	0.00	0.0	0.0	0	0
06/04	61.6	8.8	0.00	0.0	0.0	0	0
06/05	59.7	7.0	0.00	0.0	0.0	0	0
06/06	64.9	5.0	0.00	0.0	0.0	0	0
06/07	68.6	0.0	0.00	0.0	0.0	0	0
06/08	65.7	3.5	0.00	0.0	0.0	0	0
06/09	56.2	23.5	0.33	18.0	55.2	83 Moderate	97 Hi gh
06/10	61.5	10.0	0.01	26.0	54.5	134 Hi gh	135 Hi gh
06/11	59.8	18.5	0.45	10.3	58.8	44 Moderate	65 Moderate
06/12	65.8	17.5	1.08	16.5	60.4	91 Hi gh	114 Hi gh
06/13	66.8	14.0	0.19	3.3	60.9	9 Li ght	21 Li ght
06/14	62.1	16.5	0.36	15.0	58.9	76 Moderate	97 Hi gh
06/15	59.2	18.5	0.34	16.5	57.4	83 Moderate	101 Hi gh
06/16	60.6	12.3	0.00	16.0	56.7	77 Moderate	94 Hi gh
06/17	58.7	11.3	0.00	0.0	0.0	0	0
06/18	57.9	24.0	1.16	18.8	59.6	108 Hi gh	126 Hi gh
06/19	66.8	19.8	0.19	33.8	62.3	262 Hi gh	252 Hi gh
06/20	67.0	19.0	0.02	4.0	66.0	12 Li ght	29 Li ght
06/21	67.9	21.3	0.14	22.8	67.2	145 Hi gh	176 Hi gh
06/22	66.7	15.3	0.00	0.0	0.0	0	0
06/23	69.8	3.3	0.00	0.0	0.0	0	0
06/24	68.7	21.8	0.00	0.0	0.0	0	0
06/25	72.3	22.3	0.00	0.0	0.0	0	0
06/26	66.5	7.8	0.00	0.0	0.0	0	0

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