

Deerfield_Risk_5_29.txt

Deerfield, MA Black Rot - Grape From 2009-05-01 To 2009-05-29

Date	High Temp	Low Temp	Wet Hours	Daily Risk	Warning
05/01	71.6	50.6	16.5	1.35	Infection Risk
05/02	64.7	43.1	6.3	1.80	Infection Risk
05/03	60.8	37.7	3.0	0.18	
05/04	65.9	46.2	5.3	0.40	
05/05	56.6	48.6	19.0	0.93	
05/06	69.0	46.2	6.5	1.09	Infection Risk
05/07	75.5	52.3	13.0	1.08	Infection Risk
05/08	77.7	47.0	8.0	0.43	
05/09	73.1	54.2	14.8	1.60	Infection Risk
05/10	61.9	47.9	2.0	1.74	Infection Risk
05/11	66.8	40.2		0.00	
05/12	66.0	39.3	2.3	0.17	
05/13	72.8	38.0	0.8	0.21	
05/14	59.4	49.2	18.5	1.34	Infection Risk
05/15	80.4	53.6	9.3	2.01	Infection Risk
05/16	76.4	48.7	10.3	0.69	
05/17	61.5	44.8	10.0	1.53	Infection Risk
05/18	55.2	40.4		0.00	
05/19	73.9	32.7		0.00	
05/20	83.0	43.5	0.3	0.03	
05/21	91.6	47.6	2.8	0.12	
05/22	87.4	48.9	0.8	0.03	
05/23	74.7	54.6	2.5	0.21	
05/24	79.9	52.7	5.8	0.36	
05/25	77.5	51.1	2.8	0.16	
05/26	64.0	38.4	0.3	0.01	
05/27	52.2	46.3	15.0	0.73	
05/28	51.6	48.0	24.0	1.75	Infection Risk
05/29	48.6	47.3	1.3	1.80	Infection Risk

Deerfield, MA Botrytis - Grape From 2009-05-01 To 2009-05-29

Date	High Temp	Low Temp	Wet Hours	RH>95 Hours	Daily Risk	Warning
05/01	71.6	50.6	16.5	4.0	1.05	High Infection Risk
05/02	64.7	43.1	6.3	1.3	0.00	
05/03	60.8	37.7	3.0		0.00	
05/04	65.9	46.2	8.5	6.8	0.00	
05/05	56.6	48.6	19.0	1.5	1.40	High Infection Risk
05/06	69.0	46.2	12.5	6.8	0.00	
05/07	75.5	52.3	13.0	9.8	0.00	
05/08	77.7	47.0	9.5	5.3	0.00	
05/09	73.1	54.2	14.8	10.8	0.47	Low Infection Risk
05/10	61.9	47.9	2.0	0.8	0.00	
05/11	66.8	40.2			0.00	
05/12	66.0	39.3	5.8		0.00	
05/13	72.8	38.0	7.0	4.5	0.00	
05/14	59.4	49.2	18.5	6.5	1.41	High Infection Risk
05/15	80.4	53.6	9.3	7.8	0.00	
05/16	76.4	48.7	10.3	3.0	0.00	
05/17	61.5	44.8	10.0	5.0	0.00	
05/18	55.2	40.4	0.3		0.00	
05/19	73.9	32.7	0.8		0.00	
05/20	83.0	43.5	2.5		0.00	
05/21	91.6	47.6	3.3		0.00	
05/22	87.4	48.9	0.8		0.00	
05/23	74.7	54.6	2.5		0.00	

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05/24	79.9	52.7	5.8		0.00			
05/25	77.5	51.1	2.8		0.00			
05/26	64.0	38.4	0.3		0.00			
05/27	52.2	46.3	23.8	16.3	2.10	High	Infection	Risk
05/28	51.6	48.0	24.0	21.5	2.14	High	Infection	Risk
05/29	48.6	47.3	7.8	7.8	0.00			

Deerfield, MA Downy Mildew - Grape From 2009-05-01 To 2009-05-29

Date	High Temp	Deg Hrs43	Rain Fall	Wet Hours	Hours>95%RH 43-86	66-77	Risk	Warning
05/01	71.6	0.0	0.02	16.5	1.8	0.0	1	Primary Infection
05/02	64.7	>min	0.01	6.3	0.3	0.0	0	
05/03	60.8	>min		3.0	0.0	0.0	0	
05/04	65.9	>min		8.5	6.0	0.0	1	Possible Infection
05/05	56.6	>min	0.09	19.0	0.0	0.0	0	
05/06	69.0	>min	0.25	12.5	5.3	0.0	1	Possible Infection
05/07	75.5	>min	1.02	13.0	9.0	0.0	1	Possible Infection
05/08	77.7	>min		9.5	4.8	0.0	1	Possible Infection
05/09	73.1	>min	0.45	14.8	10.0	0.0	1	Possible Infection
05/10	61.9	>min		2.0	0.8	0.0	1	Possible Infection
05/11	66.8	>min			0.0	0.0	0	
05/12	66.0	>min	0.01	3.8	0.0	0.0	0	
05/13	72.8	>min		3.0	0.3	0.0	0	
05/14	59.4	>min	0.21	18.5	3.5	0.0	1	Possible Infection
05/15	80.4	>min		9.3	7.3	0.0	1	Possible Infection
05/16	76.4	>min	0.20	10.3	2.5	0.0	1	Possible Infection
05/17	61.5	>min	0.34	10.0	5.0	0.0	1	Possible Infection
05/18	55.2	>min			0.0	0.0	0	
05/19	73.9	>min			0.0	0.0	0	
05/20	83.0	>min		2.5	0.0	0.0	0	
05/21	91.6	>min		3.3	0.0	0.0	0	
05/22	87.4	>min		0.8	0.0	0.0	0	
05/23	74.7	>min	0.01	2.5	0.0	0.0	0	
05/24	79.9	>min	0.01	5.8	0.0	0.0	0	
05/25	77.5	>min		2.8	0.0	0.0	0	
05/26	64.0	>min		0.3	0.0	0.0	0	
05/27	52.2	>min	0.79	23.8	10.8	0.0	1	Possible Infection
05/28	51.6	>min	0.14	24.0	20.3	0.0	1	Possible Infection
05/29	48.6	>min	0.12	7.8	7.8	0.0	1	Possible Infection

Deerfield, MA Powdery Mildew - Grape From 2009-05-01 To 2009-05-29

Date	Temperature High	Mean	Hours 70-85	Hours >95	Wet Hours	Ascospore Infection	Conidial Index
05/01	71.6	60.1	2.3	0.0	16.0	Heavy	
05/02	64.7	56.4	0.0	0.0	6.0	Heavy	
05/03	60.8	50.0	0.0	0.0	3.3		
05/04	65.9	55.9	0.0	0.0	8.3		
05/05	56.6	51.9	0.0	0.0	19.0	Heavy	
05/06	69.0	56.6	0.0	0.0	10.5	Heavy	
05/07	75.5	59.6	3.0	0.0	13.0		
05/08	77.7	61.8	6.0	0.0	9.3		
05/09	73.1	62.8	3.3	0.0	14.8	Heavy	
05/10	61.9	54.7	0.0	0.0	1.8	Heavy	
05/11	66.8	53.6	0.0	0.0	0.0		
05/12	66.0	52.8	0.0	0.0	5.8		
05/13	72.8	55.7	3.8	0.0	8.5		
05/14	59.4	55.2	0.0	0.0	17.5	Heavy	
05/15	80.4	64.0	7.0	0.0	9.3	Heavy	
05/16	76.4	62.2	4.3	0.0	10.0		

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05/17	61.5	54.3	0.0	0.0	10.0	Heavy
05/18	55.2	47.3	0.0	0.0	0.3	
05/19	73.9	53.4	4.0	0.0	7.5	
05/20	83.0	63.6	9.0	0.0	2.0	
05/21	91.6	69.9	3.8	0.0	3.3	
05/22	87.4	70.1	5.3	0.0	0.8	
05/23	74.7	63.5	4.8	0.0	2.5	
05/24	79.9	64.4	5.8	0.0	5.8	
05/25	77.5	65.7	8.8	0.0	2.8	
05/26	64.0	54.0	0.0	0.0	0.3	
05/27	52.2	49.5	0.0	0.0	23.8	Heavy
05/28	51.6	49.6	0.0	0.0	24.0	Heavy
05/29	48.6	47.6	0.0	0.0	8.3	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 2009-05-01 To 2009-05-29

Date	Temp Mean	Wet Hours	Rain-Fall	Wet+Rain	Wet Temp	Disease Intensity	
						Catawba	Seyval
05/01	60.1	17.0	0.02	11.3	56.3	45 Moderate	64 Moderate
05/02	56.4	6.5	0.01	4.5	55.0	11 Light	23 Light
05/03	50.0	4.5	0.00	0.0	0.0	0	0
05/04	55.9	8.5	0.00	0.0	0.0	0	0
05/05	51.9	19.3	0.09	15.3	50.6	42 Moderate	54 Moderate
05/06	56.6	13.8	0.25	19.3	49.1	47 Moderate	56 Moderate
05/07	59.6	13.5	1.02	11.8	54.1	42 Moderate	58 Moderate
05/08	61.8	10.3	0.00	0.0	0.0	0	0
05/09	62.8	14.8	0.45	12.8	59.1	61 Moderate	83 Moderate
05/10	54.7	2.0	0.00	7.0	57.9	25 Light	42 Moderate
05/11	53.6	0.0	0.00	0.0	0.0	0	0
05/12	52.8	3.8	0.01	1.3	56.9	2 Light	7 Light
05/13	55.7	5.8	0.00	0.0	0.0	0	0
05/14	55.2	19.0	0.21	11.8	57.2	50 Moderate	70 Moderate
05/15	64.0	10.3	0.00	20.0	56.9	107 High	120 High
05/16	62.2	11.0	0.20	2.0	61.8	5 Light	13 Light
05/17	54.3	10.0	0.34	12.0	57.3	52 Moderate	72 Moderate
05/18	47.3	0.0	0.00	0.0	0.0	0	0
05/19	53.4	0.3	0.00	0.0	0.0	0	0
05/20	63.6	2.8	0.00	0.0	0.0	0	0
05/21	69.9	3.3	0.00	0.0	0.0	0	0
05/22	70.1	1.0	0.00	0.0	0.0	0	0
05/23	63.5	2.5	0.01	2.3	56.8	5 Light	12 Light
05/24	64.4	6.0	0.01	5.5	53.9	14 Light	26 Light
05/25	65.7	2.8	0.00	0.0	0.0	0	0
05/26	54.0	0.3	0.00	0.0	0.0	0	0
05/27	49.5	23.8	0.79	22.0	49.5	60 Moderate	67 Moderate
05/28	49.6	24.0	0.14	46.0	49.5	174 High	147 High
05/29	47.6	7.8	0.12	54.3	49.2	210 High	167 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