

Deerfield 2010 Black Rot - Grape From 2010-05-01 To 2010-05-26

Date	High Temp	Low Temp	Wet Hours	Daily Risk	Warning
05/01	85.5	49.6		0.00	
05/02	88.5	58.0	0.8	0.05	
05/03	80.2	57.1	3.0	0.52	
05/04	78.6	47.2	8.8	0.31	
05/05	82.2	40.8	0.3	0.32	
05/06	75.6	51.8	0.5	0.05	
05/07	69.3	43.7		0.00	
05/08	57.0	45.3	12.0	0.66	
05/09	49.6	37.5		0.00	
05/10	57.0	36.6		0.00	
05/11	60.3	28.5		0.00	
05/12	50.0	38.4	0.3	0.01	
05/13	68.5	31.9		0.01	
05/14	71.1	47.3	10.0	0.56	
05/15	70.5	48.3	1.5	0.64	
05/16	71.8	43.3	0.3	0.01	
05/17	79.3	38.0		0.00	
05/18	64.7	45.1	7.0	0.34	
05/19	57.2	49.4	14.0	1.10	Infection Risk
05/20	84.8	47.4	7.8	1.45	Infection Risk
05/21	85.8	53.0	6.8	0.58	
05/22	79.4	53.1	0.3	0.01	
05/23	80.6	52.1	7.8	0.33	
05/24	84.0	55.4	9.8	0.97	
05/25	90.7	61.4	8.3	1.36	Infection Risk
05/26	89.9	60.7	6.8	1.08	Infection Risk

Deerfield 2010 Downy Mildew - Grape From 2010-05-01 To 2010-05-26

Date	High Temp	Deg Hrs43	Rain Fall	Wet Hours	Hours>95%RH 43-86	66-77	Risk	Warning
05/01	85.5				0.0	0.0	0	
05/02	88.5	0.0		0.8	0.0	0.0	0	Primary Infection
05/03	80.2	>min	0.02	3.0	0.0	0.0	0	
05/04	78.6	>min	0.18	10.5	1.0	0.0	1	Possible Infection
05/05	82.2	>min		5.3	5.5	0.0	1	Possible Infection
05/06	75.6	>min		0.5	0.0	0.0	0	
05/07	69.3	>min			0.0	0.0	0	
05/08	57.0	>min	0.91	18.0	9.5	0.0	1	Possible Infection
05/09	49.6	>min			0.0	0.0	0	
05/10	57.0	>min			0.0	0.0	0	
05/11	60.3	>min			0.0	0.0	0	
05/12	50.0	>min	0.13	3.8	0.0	0.0	0	
05/13	68.5	>min			0.0	0.0	0	
05/14	71.1	>min	0.18	14.3	10.3	0.0	1	Possible Infection
05/15	70.5	>min		1.5	0.0	0.0	0	
05/16	71.8	>min		3.3	0.0	0.0	0	
05/17	79.3	>min			0.0	0.0	0	
05/18	64.7	>min	0.32	8.8	1.0	0.0	1	Possible Infection
05/19	57.2	>min	0.08	14.0	8.3	0.0	1	Possible Infection
05/20	84.8	>min		8.3	8.8	0.0	1	Possible Infection
05/21	85.8	>min		6.8	2.8	0.0	1	Possible Infection
05/22	79.4	>min		0.3	0.0	0.0	0	
05/23	80.6	>min		7.8	1.8	0.0	1	Possible Infection
05/24	84.0	>min		9.8	7.0	0.0	1	Possible Infection
05/25	90.7	>min		8.3	7.5	0.3	1	Possible Infection
05/26	89.9	>min		6.8	3.8	0.0	1	Possible Infection

Deerfield2010 Powdery Mildew - Grape From 2010-05-01 To 2010-05-26

Date	Temperature		Hours 70-85	Hours >95	Wet Hours	Ascospore Infection	Conidial Index
	High	Mean					
05/01	85.5	66.7	10.3	0.0	0.0		
05/02	88.5	71.8	11.0	0.0	0.5		
05/03	80.2	70.8	15.0	0.0	2.8		60 Heavy
05/04	78.6	59.7	6.5	0.0	10.5		80 Heavy
05/05	82.2	62.3	8.5	0.0	6.5		100 Heavy
05/06	75.6	61.4	5.0	0.0	0.5		90 Heavy
05/07	69.3	56.5	0.0	0.0	0.0		80 Heavy
05/08	57.0	49.9	0.0	0.0	17.0		70 Heavy
05/09	49.6	43.1	0.0	0.0	0.0		60 Heavy
05/10	57.0	46.7	0.0	0.0	0.0		50 Medium
05/11	60.3	46.5	0.0	0.0	2.3		40 Medium
05/12	50.0	44.5	0.0	0.0	10.8		30 Light
05/13	68.5	51.6	0.0	0.0	6.5		20 Light
05/14	71.1	56.2	0.5	0.0	14.0		10 Light
05/15	70.5	59.8	0.5	0.0	1.5		0
05/16	71.8	58.6	4.0	0.0	3.3		0
05/17	79.3	59.2	7.5	0.0	0.8		20 Light
05/18	64.7	53.9	0.0	0.0	8.8		10 Light
05/19	57.2	53.6	0.0	0.0	13.8	Heavy	0
05/20	84.8	65.1	8.5	0.0	8.0	Heavy	20 Light
05/21	85.8	69.6	6.8	0.0	6.5		40 Medium
05/22	79.4	65.2	8.5	0.0	0.0		60 Heavy
05/23	80.6	66.3	9.0	0.0	7.5		80 Heavy
05/24	84.0	69.8	11.8	0.0	9.8		100 Heavy
05/25	90.7	74.4	5.0	0.0	8.3		90 Heavy
05/26	89.9	69.7	3.0	0.0	6.8		80 Heavy

Leaf Wetness Sensor Parameters:

Base Temperature 0.0
 Upper Temperature 100.0
 Wetness Threshold 6.0

Deerfield2010 Phomopsis Cane+Leaf Spot - Grape From 2010-05-01 To 2010-05-26

Date	Temp Mean	Wet Hours	Rain-Fall	Wet+Rain	Wet Temp	Disease Intensity Catawba	Disease Intensity Seyval
05/01	66.7	0.0	0.00	0.0	0.0	0	0
05/02	71.8	1.0	0.00	0.0	0.0	0	0
05/03	70.8	3.8	0.02	0.0	0.0	0	0
05/04	59.7	10.5	0.18	0.5	54.6	0 Light	2 Light
05/05	62.3	7.3	0.00	0.0	0.0	0	0
05/06	61.4	0.8	0.00	0.0	0.0	0	0
05/07	56.5	0.0	0.00	0.0	0.0	0	0
05/08	49.9	19.5	0.91	29.8	49.8	98 High	97 High
05/09	43.1	0.0	0.00	0.0	0.0	0	0
05/10	46.7	0.0	0.00	0.0	0.0	0	0
05/11	46.5	0.0	0.00	0.0	0.0	0	0
05/12	44.5	10.3	0.13	8.3	44.0	3 Light	6 Light
05/13	51.6	0.3	0.00	0.0	0.0	0	0
05/14	56.2	15.3	0.18	10.3	48.5	17 Light	26 Light
05/15	59.8	1.5	0.00	0.0	0.0	0	0
05/16	58.6	3.5	0.00	0.0	0.0	0	0
05/17	59.2	0.0	0.00	0.0	0.0	0	0
05/18	53.9	9.3	0.32	6.5	50.8	13 Light	23 Light
05/19	53.6	15.5	0.08	15.3	50.6	42 Moderate	54 Moderate
05/20	65.1	9.3	0.00	0.0	0.0	0	0
05/21	69.6	7.3	0.00	0.0	0.0	0	0
05/22	65.2	1.3	0.00	0.0	0.0	0	0
05/23	66.3	8.8	0.00	0.0	0.0	0	0
05/24	69.8	10.0	0.00	0.0	0.0	0	0
05/25	74.4	9.0	0.00	0.0	0.0	0	0
05/26	69.7	6.8	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