

Belchertown 2010 Black Rot - Grape From 2010-05-06 To 2010-05-26

Date	High Temp	Low Temp	Wet Hours	Daily Risk	Warning
05/06	74.3	52.2	2.8	0.33	
05/07	69.4	42.7		0.00	
05/08	66.3	45.1	11.8	0.63	
05/09	48.9	36.8		0.00	
05/10	56.3	33.0		0.00	
05/11	59.4	33.3		0.00	
05/12	46.8	39.0		0.00	
05/13	68.1	33.4	0.5	0.02	
05/14	76.0	47.3	7.0	0.27	
05/15	69.4	48.8	1.3	0.41	
05/16	71.3	44.3		0.00	
05/17	75.0	42.1		0.00	
05/18	62.2	48.8	7.8	0.36	
05/19	56.9	46.5	17.5	1.39	Infection Risk
05/20	83.8	50.7	8.5	1.85	Infection Risk
05/21	86.6	55.0	4.3	0.36	
05/22	79.5	54.1		0.00	
05/23	78.1	53.9	9.8	0.50	
05/24	82.3	56.5	11.0	1.33	Infection Risk
05/25	90.4	59.5	9.3	1.39	Infection Risk
05/26	89.3	60.7	7.5	1.10	Infection Risk

Belchertown 2010 Downy Mildew - Grape From 2010-05-06 To 2010-05-26

Date	High Temp	Deg Hrs43	Rain Fall	Wet Hours	Hours>95%RH 43-86	66-77	Risk	Warning
05/06	74.3	0.0	0.03	2.8	0.0	0.0	0	Primary Infection
05/07	69.4	>min		0.3	0.0	0.0	0	
05/08	66.3	>min	1.01	12.0	7.0	0.0	1	Possible Infection
05/09	48.9	>min			0.0	0.0	0	
05/10	56.3	>min			0.0	0.0	0	
05/11	59.4	>min			0.0	0.0	0	
05/12	46.8	>min	0.10	3.5	0.0	0.0	0	
05/13	68.1	>min		1.0	0.3	0.0	0	
05/14	76.0	>min	0.18	11.3	7.0	0.0	1	Possible Infection
05/15	69.4	>min		1.3	0.5	0.0	1	Possible Infection
05/16	71.3	>min		1.8	0.0	0.0	0	
05/17	75.0	>min			0.0	0.0	0	
05/18	62.2	>min	0.40	7.8	2.5	0.0	1	Possible Infection
05/19	56.9	>min	0.14	21.3	18.0	0.0	1	Possible Infection
05/20	83.8	>min		8.5	9.3	0.0	1	Possible Infection
05/21	86.6	>min		4.3	0.5	0.0	1	Possible Infection
05/22	79.5	>min			0.0	0.0	0	
05/23	78.1	>min		9.8	3.0	0.0	1	Possible Infection
05/24	82.3	>min		11.0	7.0	0.0	1	Possible Infection
05/25	90.4	>min		9.3	7.5	0.5	3	High Risk of Infection
05/26	89.3	>min		7.5	0.0	0.0	0	

Belchertown 2010 Powdery Mildew - Grape From 2010-05-06 To 2010-05-26

Date	Temperature High	Temperature Mean	Hours 70-85	Hours >95	Wet Hours	Ascospore Infection	Conidial Index
05/06	74.3	61.8	4.0	0.0	2.8		
05/07	69.4	56.7	0.0	0.0	0.5		
05/08	66.3	52.8	0.0	0.0	11.8		
05/09	48.9	42.1	0.0	0.0	0.0		
05/10	56.3	45.2	0.0	0.0	0.0		
05/11	59.4	46.2	0.0	0.0	0.0		
05/12	46.8	43.5	0.0	0.0	13.0		
05/13	68.1	51.5	0.0	0.0	8.8		
05/14	76.0	58.8	5.3	0.0	11.0		
05/15	69.4	59.9	0.0	0.0	1.3		
05/16	71.3	57.9	2.3	0.0	1.5		
05/17	75.0	60.1	6.0	0.0	0.0		
05/18	62.2	54.2	0.0	0.0	7.8		
05/19	56.9	52.1	0.0	0.0	21.0	Heavy	
05/20	83.8	66.2	10.5	0.0	8.5	Heavy	
05/21	86.6	69.1	10.8	0.0	4.0		
05/22	79.5	65.2	8.3	0.0	0.0		60 Heavy
05/23	78.1	64.8	6.8	0.0	9.5		80 Heavy
05/24	82.3	69.8	12.0	0.0	11.0		100 Heavy
05/25	90.4	73.4	3.5	0.0	9.0		90 Heavy
05/26	89.3	69.5	2.8	0.0	7.5		80 Heavy

Leaf Wetness Sensor Parameters:

Base Temperature 0.0
 Upper Temperature 100.0
 Wetness Threshold 6.0

Belchertown2010 Phomopsis Cane+Leaf Spot - Grape From 2010-05-06 To 2010-05-26

Date	Temp Mean	Wet Hours	Rain-Fall	Wet+Rain	Wet Temp	Disease Intensity	
						Catawba	Seyval
05/06	61.8	3.5	0.03	3.0	61.9	8 Light	20 Light
05/07	56.7	0.5	0.00	0.0	0.0	0	0
05/08	52.8	12.5	1.01	10.3	51.5	27 Light	39 Moderate
05/09	42.1	0.0	0.00	0.0	0.0	0	0
05/10	45.2	0.0	0.00	0.0	0.0	0	0
05/11	46.2	0.0	0.00	0.0	0.0	0	0
05/12	43.5	10.0	0.10	8.8	42.6	1 Light	3 Light
05/13	51.5	1.5	0.00	0.0	0.0	0	0
05/14	58.8	12.3	0.18	8.8	48.3	13 Light	21 Light
05/15	59.9	1.3	0.00	0.0	0.0	0	0
05/16	57.9	2.3	0.00	0.0	0.0	0	0
05/17	60.1	0.0	0.00	0.0	0.0	0	0
05/18	54.2	7.8	0.40	6.8	49.8	12 Light	21 Light
05/19	52.1	22.0	0.14	25.3	51.4	96 High	99 High
05/20	66.2	8.8	0.00	20.3	53.6	87 Moderate	97 High
05/21	69.1	4.5	0.00	0.0	0.0	0	0
05/22	65.2	0.0	0.00	0.0	0.0	0	0
05/23	64.8	10.5	0.00	0.0	0.0	0	0
05/24	69.8	11.3	0.00	0.0	0.0	0	0
05/25	73.4	10.0	0.00	0.0	0.0	0	0
05/26	69.5	7.5	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