

Bel chertown\_Ri sk\_5\_29. txt

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

Date	Hi gh Temp	Low Temp	Wet Hours	Dai ly Ri sk	Warni ng
05/01	65.4	49.7	21.5	1.97	Infecti on Ri sk
05/02	66.4	50.2	8.8	2.64	Infecti on Ri sk
05/03	59.9	41.0	10.8	0.60	
05/04	64.4	49.4	9.0	0.92	
05/05	52.9	46.5	20.3	1.01	Infecti on Ri sk
05/06	69.0	44.7	1.0	1.05	Infecti on Ri sk
05/07	72.5	50.7	19.3	1.52	Infecti on Ri sk
05/08	74.8	47.0	11.0	2.03	Infecti on Ri sk
05/09	72.5	58.0	14.5	1.74	Infecti on Ri sk
05/10	60.9	42.6		0.00	
05/11	67.0	38.8		0.00	
05/12	64.6	42.5	2.0	0.08	
05/13	72.6	42.3	3.0	0.15	
05/14	61.0	47.7	16.3	1.17	Infecti on Ri sk
05/15	78.7	55.1	8.8	1.84	Infecti on Ri sk
05/16	77.0	49.6	9.8	0.81	
05/17	62.3	45.8	10.5	1.72	Infecti on Ri sk
05/18	54.3	41.8		0.00	
05/19	71.4	36.0		0.00	
05/20	83.2	46.4		0.00	
05/21	88.5	54.3		0.00	
05/22	87.9	55.4		0.00	
05/23	73.1	55.4		0.00	
05/24	80.9	51.4	10.8	1.09	Infecti on Ri sk
05/25	76.3	53.8	7.8	1.86	Infecti on Ri sk
05/26	63.6	42.0	0.5	0.02	
05/27	56.4	43.4	12.5	0.70	
05/28	52.9	47.1	16.8	1.40	Infecti on Ri sk
05/29	48.8	47.2	2.0	1.48	Infecti on Ri sk

Bel chertown, MA Botrytis - Grape From 2009-05-01 To 2009-05-29

Date	Hi gh Temp	Low Temp	Wet Hours	RH>95 Hours	Dai ly Ri sk	Warni ng
05/01	65.4	49.7	21.5	15.5	2.22	Hi gh Infecti on Ri sk
05/02	66.4	50.2	8.8	5.0	0.00	
05/03	59.9	41.0	10.8	2.3	0.00	
05/04	64.4	49.4	9.0	7.5	0.00	
05/05	52.9	46.5	22.3	5.0	1.88	Hi gh Infecti on Ri sk
05/06	69.0	44.7	9.5	8.5	0.00	
05/07	72.5	50.7	19.3	17.8	1.54	Hi gh Infecti on Ri sk
05/08	74.8	47.0	11.3	7.8	0.00	
05/09	72.5	58.0	14.5	10.5	0.46	Low Infecti on Ri sk
05/10	60.9	42.6			0.00	
05/11	67.0	38.8			0.00	
05/12	64.6	42.5	5.5		0.00	
05/13	72.6	42.3	10.5	1.3	0.00	
05/14	61.0	47.7	17.5	3.5	1.22	Hi gh Infecti on Ri sk
05/15	78.7	55.1	8.8	9.0	0.00	
05/16	77.0	49.6	9.8	2.0	0.00	
05/17	62.3	45.8	10.5	8.3	0.00	
05/18	54.3	41.8			0.00	
05/19	71.4	36.0	1.3		0.00	
05/20	83.2	46.4			0.00	
05/21	88.5	54.3			0.00	
05/22	87.9	55.4			0.00	
05/23	73.1	55.4			0.00	

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05/24	80.9	51.4	10.8	2.0	0.00		
05/25	76.3	53.8	7.8	0.3	0.00		
05/26	63.6	42.0	0.5		0.00		
05/27	56.4	43.4	21.0	14.8	1.70	High Infection Risk	
05/28	52.9	47.1	21.0	19.8	1.70	High Infection Risk	
05/29	48.8	47.2	7.8	7.8	0.00		

Belchertown, 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	65.4	0.0	0.05	21.5	13.5	0.0	1	Primary Infection
05/02	66.4	>min	0.05	8.8	5.0	0.0	1	Possible Infection
05/03	59.9	>min	0.04	10.8	1.3	0.0	1	Possible Infection
05/04	64.4	>min	0.03	9.0	7.5	0.0	1	Possible Infection
05/05	52.9	>min	0.08	22.3	1.3	0.0	1	Possible Infection
05/06	69.0	>min	0.34	9.5	6.5	0.0	1	Possible Infection
05/07	72.5	>min	1.46	19.3	17.0	0.0	1	Possible Infection
05/08	74.8	>min	0.01	11.3	7.8	0.0	1	Possible Infection
05/09	72.5	>min	0.75	14.5	9.8	0.0	1	Possible Infection
05/10	60.9	>min			0.0	0.0	0	
05/11	67.0	>min			0.0	0.0	0	
05/12	64.6	>min		5.3	0.0	0.0	0	
05/13	72.6	>min		9.5	0.0	0.0	0	
05/14	61.0	>min	0.22	17.5	1.0	0.0	1	Possible Infection
05/15	78.7	>min		8.8	8.5	0.0	1	Possible Infection
05/16	77.0	>min		9.8	1.5	0.0	1	Possible Infection
05/17	62.3	>min	0.46	10.5	8.0	0.0	1	Possible Infection
05/18	54.3	>min			0.0	0.0	0	
05/19	71.4	>min		0.5	0.0	0.0	0	
05/20	83.2	>min			0.0	0.0	0	
05/21	88.5	>min			0.0	0.0	0	
05/22	87.9	>min			0.0	0.0	0	
05/23	73.1	>min			0.0	0.0	0	
05/24	80.9	>min	0.14	10.8	1.0	0.0	1	Possible Infection
05/25	76.3	>min		7.8	0.0	0.0	0	
05/26	63.6	>min		0.5	0.0	0.0	0	
05/27	56.4	>min	0.29	21.0	12.3	0.0	1	Possible Infection
05/28	52.9	>min	0.02	21.0	19.3	0.0	1	Possible Infection
05/29	48.8	>min	0.11	7.8	7.8	0.0	1	Possible Infection

Belchertown, 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	65.4	58.3	0.0	0.0	21.0	Heavy	
05/02	66.4	57.6	0.0	0.0	8.8	Heavy	
05/03	59.9	51.5	0.0	0.0	10.8		
05/04	64.4	56.1	0.0	0.0	9.0	Heavy	
05/05	52.9	50.3	0.0	0.0	22.3	Heavy	
05/06	69.0	54.7	0.0	0.0	9.5	Heavy	
05/07	72.5	58.5	0.8	0.0	19.3	Heavy	
05/08	74.8	61.7	5.5	0.0	11.3	Heavy	
05/09	72.5	63.5	2.3	0.0	14.0	Heavy	
05/10	60.9	54.3	0.0	0.0	0.0		
05/11	67.0	52.5	0.0	0.0	0.0		
05/12	64.6	53.4	0.0	0.0	5.5		
05/13	72.6	56.5	1.3	0.0	10.3		
05/14	61.0	54.8	0.0	0.0	17.3	Heavy	
05/15	78.7	64.2	7.3	0.0	8.8	Heavy	
05/16	77.0	62.9	4.8	0.0	9.5		

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05/17	62.3	53.2	0.0	0.0	10.3	Heavy
05/18	54.3	47.4	0.0	0.0	0.0	
05/19	71.4	54.0	2.8	0.0	6.5	
05/20	83.2	64.5	9.8	0.0	0.0	
05/21	88.5	70.8	4.0	0.0	0.0	
05/22	87.9	71.8	4.8	0.0	0.0	
05/23	73.1	63.4	3.8	0.0	0.0	
05/24	80.9	64.8	9.0	0.0	10.0	
05/25	76.3	65.7	8.3	0.0	7.8	Heavy
05/26	63.6	53.7	0.0	0.0	0.5	
05/27	56.4	50.2	0.0	0.0	21.0	Heavy
05/28	52.9	49.3	0.0	0.0	20.3	Heavy
05/29	48.8	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

Belchertown, 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	58.3	21.8	0.05	14.5	56.1	64 Moderate	82 Moderate
05/02	57.6	8.8	0.05	5.0	52.6	11 Light	21 Light
05/03	51.5	10.8	0.04	10.0	52.0	27 Light	40 Moderate
05/04	56.1	9.0	0.03	18.3	51.1	58 Moderate	68 Moderate
05/05	50.3	22.3	0.08	18.5	49.9	50 Moderate	60 Moderate
05/06	54.7	10.8	0.34	19.5	47.4	34 Moderate	42 Moderate
05/07	58.5	22.3	1.46	34.8	57.0	235 High	214 High
05/08	61.7	16.8	0.01	33.5	56.7	221 High	203 High
05/09	63.5	18.3	0.75	11.3	60.5	53 Moderate	77 Moderate
05/10	54.3	0.0	0.00	4.0	59.9	12 Light	26 Light
05/11	52.5	0.0	0.00	0.0	0.0	0	0
05/12	53.4	7.0	0.00	0.0	0.0	0	0
05/13	56.5	10.8	0.00	0.0	0.0	0	0
05/14	54.8	18.0	0.22	12.3	56.7	52 Moderate	71 Moderate
05/15	64.2	15.3	0.00	19.3	56.8	100 High	114 High
05/16	62.9	10.3	0.00	0.0	0.0	0	0
05/17	53.2	10.8	0.46	10.0	56.5	39 Moderate	57 Moderate
05/18	47.4	0.0	0.00	0.0	0.0	0	0
05/19	54.0	0.5	0.00	0.0	0.0	0	0
05/20	64.5	0.5	0.00	0.0	0.0	0	0
05/21	70.8	0.5	0.00	0.0	0.0	0	0
05/22	71.8	0.0	0.00	0.0	0.0	0	0
05/23	63.4	0.0	0.00	0.0	0.0	0	0
05/24	64.8	11.8	0.14	5.5	57.3	17 Light	32 Moderate
05/25	65.7	8.5	0.00	0.0	0.0	0	0
05/26	53.7	0.5	0.00	0.0	0.0	0	0
05/27	50.2	21.5	0.29	9.8	46.4	10 Light	16 Light
05/28	49.3	24.0	0.02	12.3	49.8	27 Light	39 Moderate
05/29	47.6	7.8	0.11	20.5	49.0	50 Moderate	58 Moderate

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