

Bel chertown_Ri sk_6_1_6_26_2009.txt

Bel chertown MA Black Rot - Grape From 2009-06-01 To 2009-06-26

Date	Hi gh Temp	Low Temp	Wet Hours	Dai ly Ri sk	Warni ng
06/01	70.4	37.7		0.00	
06/02	80.0	53.1	5.5	0.34	
06/03	66.3	52.2	7.0	0.50	
06/04	74.5	52.6	10.0	0.97	
06/05	67.0	52.8	8.3	0.74	
06/06	80.3	50.5	8.3	0.36	
06/07	81.2	56.4	7.8	0.74	
06/08	78.5	57.4	0.8	0.11	
06/09	60.3	52.2	16.3	1.13	Infecti on Ri sk
06/10	66.2	51.9	17.8	2.64	Infecti on Ri sk
06/11	62.8	55.0	20.3	4.49	Infecti on Ri sk
06/12	78.3	57.6	14.8	6.39	Infecti on Ri sk
06/13	82.4	58.1	9.5	7.11	Infecti on Ri sk
06/14	72.3	53.9	15.5	1.26	Infecti on Ri sk
06/15	67.8	54.1	16.3	1.73	Infecti on Ri sk
06/16	72.4	49.1	11.8	2.21	Infecti on Ri sk
06/17	76.0	47.6	8.3	0.63	
06/18	62.3	52.8	22.3	2.21	Infecti on Ri sk
06/19	76.6	61.1	17.8	4.72	Infecti on Ri sk
06/20	76.9	59.2	16.0	6.90	Infecti on Ri sk
06/21	68.5	61.7	23.5	10.33	Infecti on Ri sk
06/22	67.1	61.0	23.0	13.40	Infecti on Ri sk
06/23	71.8	60.8	20.5	16.37	Infecti on Ri sk
06/24	71.7	63.5	21.5	19.64	Infecti on Ri sk
06/25	83.3	62.9	20.3	22.66	Infecti on Ri sk
06/26	72.4	63.2	10.0	24.21	Infecti on Ri sk

Bel chertown MA Botrytis - Grape From 2009-06-01 To 2009-06-26

Date	Hi gh Temp	Low Temp	Wet Hours	RH>95 Hours	Dai ly Ri sk	Warni ng
06/01	70.4	37.7			0.00	
06/02	80.0	53.1	5.5		0.00	
06/03	66.3	52.2	7.0		0.00	
06/04	74.5	52.6	10.0	4.0	0.00	
06/05	67.0	52.8	8.3		0.00	
06/06	80.3	50.5	8.3	2.0	0.00	
06/07	81.2	56.4	7.8	2.5	0.00	
06/08	78.5	57.4	0.8		0.00	
06/09	60.3	52.2	16.3	8.5	1.00	Hi gh Infecti on Ri sk
06/10	66.2	51.9	17.8	17.0	1.37	Hi gh Infecti on Ri sk
06/11	62.8	55.0	20.3	11.8	1.82	Hi gh Infecti on Ri sk
06/12	78.3	57.6	14.8	12.0	0.71	Moderate Infecti on Ri sk
06/13	82.4	58.1	9.5	0.8	0.00	
06/14	72.3	53.9	15.5	12.0	0.32	Low Infecti on Ri sk
06/15	67.8	54.1	16.3	13.5	1.00	Hi gh Infecti on Ri sk
06/16	72.4	49.1	11.8	7.8	0.00	
06/17	76.0	47.6	8.5	7.0	0.00	
06/18	62.3	52.8	22.3	18.3	2.37	Hi gh Infecti on Ri sk
06/19	76.6	61.1	17.8	14.3	1.61	Hi gh Infecti on Ri sk
06/20	76.9	59.2	16.0	13.8	1.13	Hi gh Infecti on Ri sk
06/21	68.5	61.7	23.5	15.3	3.07	Hi gh Infecti on Ri sk
06/22	67.1	61.0	23.0	9.8	2.80	Hi gh Infecti on Ri sk
06/23	71.8	60.8	20.5	4.0	2.30	Hi gh Infecti on Ri sk
06/24	71.7	63.5	21.5	8.5	2.65	Hi gh Infecti on Ri sk
06/25	83.3	62.9	20.3	8.5	2.09	Hi gh Infecti on Ri sk
06/26	72.4	63.2	10.0	6.8	0.00	

Belchertown_Risk_6_1_6_26_2009.txt

Belchertown 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	70.4				0.0	0.0	0	
06/02	80.0	0.0		5.5	0.0	0.0	0	Primary Infection
06/03	66.3	>min		7.0	0.0	0.0	0	
06/04	74.5	>min		10.0	3.5	0.0	1	Possible Infection
06/05	67.0	>min		8.3	0.0	0.0	0	
06/06	80.3	>min		8.3	0.3	0.0	0	
06/07	81.2	>min		7.8	2.0	0.0	1	Possible Infection
06/08	78.5	>min		0.8	0.0	0.0	0	
06/09	60.3	>min	0.24	16.3	8.3	0.0	1	Possible Infection
06/10	66.2	>min		17.8	16.5	0.0	1	Possible Infection
06/11	62.8	>min	0.42	20.3	9.3	0.0	1	Possible Infection
06/12	78.3	>min	0.83	14.8	11.8	1.0	3	High Risk of Infection
06/13	82.4	>min	0.02	9.5	0.3	0.0	0	
06/14	72.3	>min	0.74	15.5	10.8	0.0	1	Possible Infection
06/15	67.8	>min	0.23	16.3	11.8	0.0	1	Possible Infection
06/16	72.4	>min		11.8	7.5	0.0	1	Possible Infection
06/17	76.0	>min		8.5	6.5	0.0	1	Possible Infection
06/18	62.3	>min	1.21	22.3	17.3	0.0	1	Possible Infection
06/19	76.6	>min	0.30	17.8	13.5	2.0	3	High Risk of Infection
06/20	76.9	>min	0.09	16.0	12.8	0.0	1	Possible Infection
06/21	68.5	>min	0.14	23.5	13.5	0.5	3	High Risk of Infection
06/22	67.1	>min	0.14	23.0	8.3	0.0	1	Possible Infection
06/23	71.8	>min		20.5	3.0	0.0	1	Possible Infection
06/24	71.7	>min	0.08	21.5	6.5	1.8	3	High Risk of Infection
06/25	83.3	>min		20.3	8.3	0.0	1	Possible Infection
06/26	72.4	>min		10.0	6.0	0.3	1	Possible Infection

Belchertown 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	70.4	54.3	0.5	0.0	0.0		
06/02	80.0	64.8	7.8	0.0	5.0		
06/03	66.3	59.0	0.0	0.0	6.8		
06/04	74.5	62.2	6.0	0.0	10.0		
06/05	67.0	59.0	0.0	0.0	7.8		
06/06	80.3	64.7	8.5	0.0	8.0		
06/07	81.2	67.0	9.3	0.0	7.3		
06/08	78.5	65.4	5.8	0.0	0.8		
06/09	60.3	55.3	0.0	0.0	16.3	Heavy	
06/10	66.2	58.6	0.0	0.0	17.8	Heavy	
06/11	62.8	58.7	0.0	0.0	16.3	Heavy	
06/12	78.3	66.3	6.3	0.0	12.3	Heavy	
06/13	82.4	68.4	9.5	0.0	9.0	Heavy	
06/14	72.3	61.0	2.3	0.0	15.3		
06/15	67.8	59.1	0.0	0.0	16.3	Heavy	
06/16	72.4	58.8	0.3	0.0	10.8	Heavy	
06/17	76.0	59.4	4.5	0.0	8.5		
06/18	62.3	58.5	0.0	0.0	21.8	Heavy	
06/19	76.6	66.8	7.3	0.0	16.8	Heavy	
06/20	76.9	66.6	6.8	0.0	14.0	Heavy	
06/21	68.5	64.6	0.0	0.0	21.3	Heavy	
06/22	67.1	63.1	0.0	0.0	20.3	Heavy	
06/23	71.8	65.5	3.3	0.0	12.5	Heavy	
06/24	71.7	65.8	1.3	0.0	17.8	Heavy	
06/25	83.3	70.9	12.0	0.0	12.0	Heavy	

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06/26 72.4 65.8 0.3 0.0 8.3

Leaf Wetness Sensor Parameters:
 Base Temperature 0.0
 Upper Temperature 100.0
 Wetness Threshold 6.0

Belchertown MA Phomopsis Cane+Leaf Spot - Grape From 2009-06-01 To 2009-06-26

Date	Temp Mean	Wet Hours	Rain-Fall	Wet+Rain	Wet Temp	Di sease Catawba	Intensi ty Seyval
06/01	54.3	0.0	0.00	0.0	0.0	0	0
06/02	64.8	9.3	0.00	0.0	0.0	0	0
06/03	59.0	9.0	0.00	0.0	0.0	0	0
06/04	62.2	11.3	0.00	0.0	0.0	0	0
06/05	59.0	9.3	0.00	0.0	0.0	0	0
06/06	64.7	13.5	0.00	0.0	0.0	0	0
06/07	67.0	10.0	0.00	0.0	0.0	0	0
06/08	65.4	3.0	0.00	0.0	0.0	0	0
06/09	55.3	19.3	0.24	15.5	53.6	60 Moderate	74 Moderate
06/10	58.6	24.0	0.00	39.5	56.7	278 Hi gh	240 Hi gh
06/11	58.7	24.0	0.42	63.5	57.4	569 Hi gh	410 Hi gh
06/12	66.3	24.0	0.83	87.5	59.9	981 Hi gh	633 Hi gh
06/13	68.4	22.5	0.02	105.5	61.4	1323 Hi gh	806 Hi gh
06/14	61.0	21.3	0.74	14.8	58.7	74 Moderate	95 Hi gh
06/15	59.1	21.8	0.23	13.8	57.7	65 Moderate	84 Moderate
06/16	58.8	21.3	0.00	24.0	58.2	146 Hi gh	155 Hi gh
06/17	59.4	15.8	0.00	0.0	0.0	0	0
06/18	58.5	23.0	1.21	18.0	60.1	103 Hi gh	123 Hi gh
06/19	66.8	24.0	0.30	42.0	64.0	361 Hi gh	326 Hi gh
06/20	66.6	24.0	0.09	66.0	64.9	687 Hi gh	528 Hi gh
06/21	64.6	24.0	0.14	90.0	64.8	1071 Hi gh	728 Hi gh
06/22	63.1	24.0	0.14	114.0	64.5	1504 Hi gh	927 Hi gh
06/23	65.5	24.0	0.00	138.0	64.6	1976 Hi gh	1133 Hi gh
06/24	65.8	24.0	0.08	162.0	64.8	2483 Hi gh	1341 Hi gh
06/25	70.9	24.0	0.00	186.0	65.6	3006 Hi gh	1559 Hi gh
06/26	65.8	10.0	0.00	196.5	65.6	3251 Hi gh	1651 Hi gh

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