

Belchertown, MA Black Rot - Grape From 2009-08-01 To 2009-08-28

Date	High Temp	Low Temp	Wet Hours	Daily Risk	Warning
08/01	85.9	60.4	20.0	2.77	Infection Risk
08/02	75.0	63.2	24.0	6.70	Infection Risk
08/03	84.0	62.4	18.8	9.54	Infection Risk
08/04	85.2	60.6	19.8	12.35	Infection Risk
08/05	85.6	59.6	20.8	15.53	Infection Risk
08/06	80.5	55.4	14.0	17.21	Infection Risk
08/07	77.7	52.9	9.0	18.01	Infection Risk
08/08	74.3	50.3	9.8	0.51	
08/09	71.9	54.2	19.0	2.53	Infection Risk
08/10	87.3	65.0	22.5	5.77	Infection Risk
08/11	89.3	69.4	20.3	8.78	Infection Risk
08/12	77.4	66.5	20.5	12.24	Infection Risk
08/13	70.8	61.6	24.0	15.99	Infection Risk
08/14	87.0	56.9	22.0	18.77	Infection Risk
08/15	90.4	63.9	20.8	21.79	Infection Risk
08/16	91.9	66.3	19.0	24.65	Infection Risk
08/17	93.0	68.1	18.5	27.44	Infection Risk
08/18	91.6	68.8	16.8	30.00	Infection Risk
08/19	88.5	68.7	20.3	33.07	Infection Risk
08/20	89.7	67.2	22.0	36.26	Infection Risk
08/21	89.0	69.3	24.0	39.75	Infection Risk
08/22	84.8	69.6	24.0	43.58	Infection Risk
08/23	84.0	68.1	24.0	47.42	Infection Risk
08/24	82.9	65.8	21.5	50.82	Infection Risk
08/25	85.5	61.2	20.3	53.77	Infection Risk
08/26	82.9	63.7	17.3	56.33	Infection Risk
08/27	75.5	53.8	9.0	57.03	Infection Risk

Belchertown, MA Botrytis - Grape From 2009-08-01 To 2009-08-28

Date	High Temp	Low Temp	Wet Hours	RH>95 Hours	Daily Risk	Warning
08/01	85.9	60.4	20.0	9.5	1.85	High Infection Risk
08/02	75.0	63.2	24.0	11.0	3.25	High Infection Risk
08/03	84.0	62.4	18.8	8.5	1.62	High Infection Risk
08/04	85.2	60.6	19.8	7.5	1.87	High Infection Risk
08/05	85.6	59.6	20.8	7.8	2.06	High Infection Risk
08/06	80.5	55.4	14.0	4.8	0.37	Low Infection Risk
08/07	77.7	52.9	9.0	0.3	0.00	
08/08	74.3	50.3	9.8	2.5	0.00	
08/09	71.9	54.2	19.0		1.67	High Infection Risk
08/10	87.3	65.0	22.5	8.0	2.27	High Infection Risk
08/11	89.3	69.4	20.3	7.8	1.93	High Infection Risk
08/12	77.4	66.5	20.5	5.5	2.48	High Infection Risk
08/13	70.8	61.6	24.0	15.8	3.29	High Infection Risk
08/14	87.0	56.9	22.0	10.5	2.17	High Infection Risk
08/15	90.4	63.9	21.3	8.8	2.07	High Infection Risk
08/16	91.9	66.3	21.3	7.0	2.07	High Infection Risk
08/17	93.0	68.1	22.0	7.3	2.12	High Infection Risk
08/18	91.6	68.8	19.3	3.8	1.71	High Infection Risk
08/19	88.5	68.7	20.3	6.0	1.96	High Infection Risk
08/20	89.7	67.2	22.0	3.3	2.19	High Infection Risk
08/21	89.0	69.3	24.0	14.8	2.86	High Infection Risk
08/22	84.8	69.6	24.0	15.8	2.89	High Infection Risk
08/23	84.0	68.1	24.0	14.3	2.90	High Infection Risk

08/24	82.9	65.8	21.5	9.0	2.39	High	Infection Risk
08/25	85.5	61.2	20.3	8.0	2.01	High	Infection Risk
08/26	82.9	63.7	17.3	7.5	1.37	High	Infection Risk
08/27	75.5	53.8	9.0	0.3	0.00		

Belchertown, MA Downy Mildew - Grape From 2009-08-01 To 2009-08-28

Date	High Temp	Deg Hrs43	Rain Fall	Wet Hours	Hours>95%RH 43-86	66-77	Risk	Warning
08/01	85.9	0.0	0.01	20.0	9.0	1.3	1	Primary Infection
08/02	75.0	>min		24.0	8.5	4.8	3	High Risk of Infection
08/03	84.0	>min		18.8	8.3	6.0	3	High Risk of Infection
08/04	85.2	>min		19.8	6.5	2.0	3	High Risk of Infection
08/05	85.6	>min	0.48	20.8	6.5	6.5	3	High Risk of Infection
08/06	80.5	>min		14.0	4.5	0.0	1	Possible Infection
08/07	77.7	>min		9.0	0.0	0.0	0	
08/08	74.3	>min		9.8	2.5	0.0	1	Possible Infection
08/09	71.9	>min		19.0	0.0	0.0	0	
08/10	87.3	>min	0.01	19.8	7.8	7.0	3	High Risk of Infection
08/11	89.3	>min		17.5	6.5	6.5	3	High Risk of Infection
08/12	77.4	>min		20.5	4.0	4.0	3	High Risk of Infection
08/13	70.8	>min	0.02	24.0	12.3	0.8	3	High Risk of Infection
08/14	87.0	>min		19.8	10.5	0.5	3	High Risk of Infection
08/15	90.4	>min		17.0	8.3	2.8	3	High Risk of Infection
08/16	91.9	>min		16.3	6.8	6.8	3	High Risk of Infection
08/17	93.0	>min		16.0	6.8	6.8	3	High Risk of Infection
08/18	91.6	>min		14.5	3.0	3.0	3	High Risk of Infection
08/19	88.5	>min		18.3	5.3	5.3	3	High Risk of Infection
08/20	89.7	>min		17.5	2.0	2.0	3	High Risk of Infection
08/21	89.0	>min	0.87	21.5	13.5	13.5	3	High Risk of Infection
08/22	84.8	>min	0.69	24.0	15.3	15.3	3	High Risk of Infection
08/23	84.0	>min	1.66	24.0	13.5	13.5	3	High Risk of Infection
08/24	82.9	>min	0.01	21.5	8.8	8.3	3	High Risk of Infection
08/25	85.5	>min		20.3	7.3	0.5	3	High Risk of Infection
08/26	82.9	>min		17.3	6.8	0.5	3	High Risk of Infection
08/27	75.5	>min		9.0	0.0	0.0	0	

Belchertown, MA Powdery Mildew - Grape From 2009-08-01 To 2009-08-28

Date	Temperature High	Mean	Hours 70-85	Hours >95	Wet Hours	Ascospore Infection	Conidial Index
08/01	85.9	71.9	5.3	0.0	11.5		
08/02	75.0	69.8	13.5	0.0	18.3	Heavy	
08/03	84.0	72.7	12.8	0.0	11.3	Heavy	
08/04	85.2	72.4	13.3	0.0	13.0		60 Heavy
08/05	85.6	72.6	17.5	0.0	14.3	Heavy	80 Heavy
08/06	80.5	67.2	10.3	0.0	9.3	Heavy	100 Heavy
08/07	77.7	65.6	9.0	0.0	7.3		100 Heavy
08/08	74.3	62.4	4.8	0.0	9.3		90 Heavy
08/09	71.9	63.1	1.8	0.0	18.0	Heavy	80 Heavy
08/10	87.3	75.4	5.8	0.0	13.5	Heavy	70 Heavy
08/11	89.3	77.6	19.0	0.0	12.5		90 Heavy
08/12	77.4	69.8	10.0	0.0	14.8	Heavy	100 Heavy
08/13	70.8	66.1	0.3	0.0	24.0	Heavy	90 Heavy
08/14	87.0	71.1	5.5	0.0	17.0	Heavy	80 Heavy
08/15	90.4	75.3	5.8	0.0	15.3	Heavy	70 Heavy
08/16	91.9	77.1	5.8	0.0	15.3	Heavy	60 Heavy
08/17	93.0	79.0	8.8	0.0	15.5	Heavy	80 Heavy
08/18	91.6	78.8	9.0	0.0	13.0	Heavy	100 Heavy

08/19	88.5	77.3	23.8	0.0	14.0		100	Heavy
08/20	89.7	77.5	11.0	0.0	14.0	Heavy	100	Heavy
08/21	89.0	77.1	11.8	0.0	19.0	Heavy	100	Heavy
08/22	84.8	74.2	23.0	0.0	19.8	Heavy	100	Heavy
08/23	84.0	73.5	18.0	0.0	21.0	Heavy	100	Heavy
08/24	82.9	72.9	14.0	0.0	11.5	Heavy	100	Heavy
08/25	85.5	71.9	12.0	0.0	13.5		100	Heavy
08/26	82.9	71.8	12.5	0.0	12.5	Heavy	100	Heavy
08/27	75.5	63.4	3.0	0.0	8.8		90	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 2009-08-01 To 2009-08-28

Date	Temp Mean	Wet Hours	Rain-Fall	Wet+Rain	Wet Temp	Disease Catawba	Intensity Seyval
08/01	71.9	24.0	0.01	20.3	73.3	98 High	144 High
08/02	69.8	24.0	0.00	44.3	71.4	329 High	339 High
08/03	72.7	24.0	0.00	68.3	71.9	598 High	528 High
08/04	72.4	24.0	0.00	92.3	72.0	914 High	720 High
08/05	72.6	24.0	0.48	116.3	72.1	1265 High	914 High
08/06	67.2	24.0	0.00	140.3	71.3	1721 High	1129 High
08/07	65.6	18.3	0.00	158.3	70.6	2102 High	1293 High
08/08	62.4	21.3	0.00	0.0	0.0	0	0
08/09	63.1	24.0	0.00	0.0	0.0	0	0
08/10	75.4	24.0	0.01	16.3	79.7	42 Moderate	87 Moderate
08/11	77.6	24.0	0.00	40.3	78.5	175 High	240 High
08/12	69.8	24.0	0.00	64.3	75.2	450 High	451 High
08/13	66.1	24.0	0.02	88.3	72.7	827 High	677 High
08/14	71.1	24.0	0.00	112.3	72.4	1188 High	876 High
08/15	75.3	24.0	0.00	136.3	72.9	1525 High	1059 High
08/16	77.1	24.0	0.00	160.3	73.5	1856 High	1233 High
08/17	79.0	24.0	0.00	184.3	74.2	2169 High	1396 High
08/18	78.8	24.0	0.00	208.3	74.8	2496 High	1559 High
08/19	77.3	24.0	0.00	232.3	75.0	2866 High	1731 High
08/20	77.5	24.0	0.00	256.3	75.3	3246 High	1902 High
08/21	77.1	24.0	0.87	280.3	75.4	3648 High	2075 High
08/22	74.2	24.0	0.69	304.3	75.3	4130 High	2268 High
08/23	73.5	24.0	1.66	328.3	75.2	4647 High	2466 High
08/24	72.9	24.0	0.01	352.3	75.0	5197 High	2668 High
08/25	71.9	24.0	0.00	376.3	74.8	5790 High	2878 High
08/26	71.8	24.0	0.00	400.3	74.7	6402 High	3087 High
08/27	63.4	22.8	0.00	416.5	74.2	6987 High	3267 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