

Griswold 2011 Black Rot - Grape From 2011-05-01 To 2011-05-19

Date	High Temp	Low Temp	Wet Hours	Daily Risk	Warning
05/01	69.4	34.2	0.5	0.02	
05/02	65.1	33.5	0.3	0.01	
05/03	73.9	45.1	2.3	0.15	
05/04	63.1	45.8	14.5	1.15	Infection Risk
05/05	60.9	36.1	0.8	1.19	Infection Risk
05/06	67.7	33.4	1.0	1.21	Infection Risk
05/07	73.8	47.8	11.8	0.28	
05/08	69.0	44.4	7.8	0.69	
05/09	70.9	45.9	4.5	0.90	
05/10	62.1	45.7		0.00	
05/11	62.2	48.1	3.3	0.10	
05/12	66.7	42.0	3.5	0.13	
05/13	74.6	38.8	1.8	0.13	
05/14	64.5	46.4	7.3	0.29	
05/15	69.3	51.4	13.5	1.47	Infection Risk
05/16	62.3	48.6	22.5	2.59	Infection Risk
05/17	56.9	48.7	19.8	3.54	Infection Risk
05/18	67.4	50.4	15.5	4.27	Infection Risk
05/19	62.5	58.5	8.0	1.32	Infection Risk

Griswold 2011 Downy Mildew - Grape From 2011-05-01 To 2011-05-19

Date	High Temp	Deg Hrs43	Rain Fall	Wet Hours	Hours>95%RH 43-86	66-77	Risk	Warning
05/01	69.4	0.0		0.8	0.3	0.0	0	Primary Infection
05/02	65.1	>min		0.8	0.5	0.0	1	Possible Infection
05/03	73.9	>min		5.8	0.0	0.0	0	
05/04	63.1	>min	0.30	17.8	12.8	0.0	1	Possible Infection
05/05	60.9	>min		6.5	0.0	0.0	0	
05/06	67.7	>min		1.0	0.0	0.0	0	
05/07	73.8	>min	0.21	12.5	3.0	0.0	1	Possible Infection
05/08	69.0	>min	0.01	12.0	7.8	0.0	1	Possible Infection
05/09	70.9	>min		7.0	3.3	0.0	1	Possible Infection
05/10	62.1	>min		1.3	0.0	0.0	0	
05/11	62.2	>min		3.3	0.0	0.0	0	
05/12	66.7	>min		9.3	0.0	0.0	0	
05/13	74.6	>min		4.5	1.3	0.0	1	Possible Infection
05/14	64.5	>min	0.02	9.5	0.0	0.0	0	
05/15	69.3	>min	0.22	13.5	10.3	0.0	1	Possible Infection
05/16	62.3	>min	0.58	22.5	23.5	0.0	1	Possible Infection
05/17	56.9	>min	1.69	19.8	20.3	0.0	1	Possible Infection
05/18	67.4	>min	0.55	15.5	19.3	0.0	1	Possible Infection
05/19	62.5	>min	0.18	8.0	8.0	0.0	1	Possible Infection

Griswold 2011 Powdery Mildew - Grape From 2011-05-01 To 2011-05-19

Date	Temperature		Hours	Hours	Wet	Ascospore	Conidial
	High	Mean	70-85	>95	Hours	Infection	Index
05/01	69.4	49.4	0.0	0.0	10.8		
05/02	65.1	50.7	0.0	0.0	8.3		
05/03	73.9	58.6	3.3	0.0	5.5		
05/04	63.1	54.9	0.0	0.0	17.8	Heavy	
05/05	60.9	49.7	0.0	0.0	10.5	Heavy	
05/06	67.7	53.1	0.0	0.0	7.8		
05/07	73.8	57.6	3.5	0.0	12.5		
05/08	69.0	56.4	0.0	0.0	12.0		
05/09	70.9	59.2	1.0	0.0	6.0	Heavy	
05/10	62.1	55.4	0.0	0.0	1.0		
05/11	62.2	54.6	0.0	0.0	2.5		
05/12	66.7	54.7	0.0	0.0	10.5		
05/13	74.6	55.3	1.5	0.0	10.0		
05/14	64.5	54.7	0.0	0.0	9.5		
05/15	69.3	60.0	0.0	0.0	13.0	Heavy	
05/16	62.3	51.2	0.0	0.0	22.5	Heavy	
05/17	56.9	51.5	0.0	0.0	19.8	Heavy	
05/18	67.4	58.3	0.0	0.0	15.5	Heavy	
05/19	62.5	60.7	0.0	0.0	8.0		

Griswold 2011 Phomopsis Cane+Leaf Spot - Grape From 2011-05-01 To 2011-05-19

Date	Temp	Wet	Rain-	Wet+	Wet	Disease Intensity	
	Mean	Hours	Fall	Rain	Temp	Catawba	Seyval
05/01	49.4	1.8	0.00	0.0	0.0	0	0
05/02	50.7	1.3	0.00	0.0	0.0	0	0
05/03	58.6	7.0	0.00	0.0	0.0	0	0
05/04	54.9	17.8	0.30	9.8	50.6	22 Light	34 Moderate
05/05	49.7	9.3	0.00	17.8	47.9	33 Moderate	42 Moderate
05/06	53.1	1.8	0.00	0.0	0.0	0	0
05/07	57.6	12.5	0.21	5.5	51.4	11 Light	20 Light
05/08	56.4	12.0	0.01	14.3	49.7	33 Moderate	44 Moderate
05/09	59.2	7.0	0.00	0.0	0.0	0	0
05/10	55.4	1.8	0.00	0.0	0.0	0	0
05/11	54.6	4.5	0.00	0.0	0.0	0	0
05/12	54.7	11.0	0.00	0.0	0.0	0	0
05/13	55.3	6.5	0.00	0.0	0.0	0	0
05/14	54.7	11.5	0.02	5.8	52.1	12 Light	23 Light
05/15	60.0	16.3	0.22	31.0	53.3	156 High	148 High
05/16	51.2	24.0	0.58	22.8	50.8	76 Moderate	83 Moderate
05/17	51.5	19.8	1.69	110.3	50.7	716 High	422 High
05/18	58.3	15.8	0.55	56.0	51.9	317 High	240 High
05/19	60.7	8.0	0.18	11.8	60.0	56 Moderate	79 Moderate

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