

Hamden_Ri sk_May_June.txt

Hamden, CT Black Rot - Grape From 2009-05-01 To 2009-06-19

Date	High Temp	Low Temp	Wet Hours	Daily Risk	Warning
05/01	69.3	50.9	20.0	1.77	Infection Risk
05/02	67.7	49.2	11.3	2.41	Infection Risk
05/03	61.2	45.0	14.3	0.90	
05/04	60.6	50.5	19.8	2.13	Infection Risk
05/05	54.4	49.2	22.5	3.34	Infection Risk
05/06	66.1	47.0	3.3	3.42	Infection Risk
05/07	70.2	50.4	19.8	1.75	Infection Risk
05/08	73.0	47.9	8.0	2.20	Infection Risk
05/09	71.7	55.7	12.5	0.81	
05/10	67.2	49.8		0.00	
05/11	64.2	38.9	0.8	0.03	
05/12	66.9	42.5	5.0	0.26	
05/13	69.0	37.1	5.0	0.33	
05/14	64.1	47.7	17.5	1.50	Infection Risk
05/15	77.2	54.6	13.0	2.18	Infection Risk
05/16	67.3	50.9	16.5	1.80	Infection Risk
05/17	60.6	48.9	8.8	2.60	Infection Risk
05/18	57.0	46.1		0.00	
05/19	67.7	36.1		0.00	
05/20	80.5	42.2	1.8	0.10	
05/21	85.6	49.0	5.3	0.23	
05/22	85.7	47.3	9.0	0.52	
05/23	69.6	52.7	5.5	1.00	Infection Risk
05/24	81.3	53.1	16.5	1.83	Infection Risk
05/25	78.9	59.5	6.8	2.62	Infection Risk
05/26	62.1	48.8	5.3	0.23	
05/27	60.6	47.9	14.8	1.19	Infection Risk
05/28	58.5	51.9	21.3	2.84	Infection Risk
05/29	72.7	50.9	16.0	3.88	Infection Risk
05/30	76.9	54.8	9.0	4.61	Infection Risk
05/31	77.9	47.0	8.0	0.64	
06/01	69.2	39.5		0.00	
06/02	78.3	52.3	8.3	0.47	
06/03	71.5	54.6	12.8	0.94	
06/04	72.7	53.4	12.0	1.54	Infection Risk
06/05	61.3	53.2	23.3	2.09	Infection Risk
06/06	77.0	53.1	10.8	2.56	Infection Risk
06/07	80.7	54.2	10.0	1.08	Infection Risk
06/08	77.1	59.6	4.0	0.92	
06/09	61.4	55.8	21.3	1.91	Infection Risk
06/10	68.1	55.1	15.5	3.34	Infection Risk
06/11	63.1	58.8	24.0	5.98	Infection Risk
06/12	77.4	59.6	21.8	9.20	Infection Risk
06/13	76.6	62.1	15.8	10.31	Infection Risk
06/14	72.5	52.5	11.8	2.02	Infection Risk
06/15	69.6	51.4	11.8	1.11	Infection Risk
06/16	70.3	51.7	10.5	1.61	Infection Risk
06/17	70.0	46.6	10.0	0.61	
06/18	63.5	56.7	24.0	3.01	Infection Risk
06/19	63.4	62.5	6.8	3.91	Infection Risk

Hamden, CT Botrytis - Grape From 2009-05-01 To 2009-06-19

Date	High Temp	Low Temp	Wet Hours	RH>95 Hours	Daily Risk	Warning
05/01	69.3	50.9	20.0	18.8	1.82	High Infection Risk
05/02	67.7	49.2	11.3	6.0	0.00	

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05/03	61.2	45.0	20.0	11.8	1.55	Hi gh	I nfecti on	Ri sk
05/04	60.6	50.5	19.8	14.5	1.51	Hi gh	I nfecti on	Ri sk
05/05	54.4	49.2	22.5	13.0	1.92	Hi gh	I nfecti on	Ri sk
05/06	66.1	47.0	8.5	8.3	0.00			
05/07	70.2	50.4	19.8	20.5	2.02	Hi gh	I nfecti on	Ri sk
05/08	73.0	47.9	8.3	8.0	0.00			
05/09	71.7	55.7	12.5	8.8	0.00			
05/10	67.2	49.8			0.00			
05/11	64.2	38.9	4.8		0.00			
05/12	66.9	42.5	11.3	4.0	0.00			
05/13	69.0	37.1	8.5	5.0	0.00			
05/14	64.1	47.7	17.8	9.0	1.27	Hi gh	I nfecti on	Ri sk
05/15	77.2	54.6	13.0	11.8	0.00			
05/16	67.3	50.9	16.5	15.8	1.06	Hi gh	I nfecti on	Ri sk
05/17	60.6	48.9	8.8	7.0	0.00			
05/18	57.0	46.1			0.00			
05/19	67.7	36.1	1.3		0.00			
05/20	80.5	42.2	8.0	2.0	0.00			
05/21	85.6	49.0	5.3		0.00			
05/22	85.7	47.3	10.0		0.00			
05/23	69.6	52.7	5.5		0.00			
05/24	81.3	53.1	16.5	9.0	1.06	Hi gh	I nfecti on	Ri sk
05/25	78.9	59.5	6.8	5.3	0.00			
05/26	62.1	48.8	5.3		0.00			
05/27	60.6	47.9	15.0	3.8	0.00			
05/28	58.5	51.9	21.3	15.0	1.80	Hi gh	I nfecti on	Ri sk
05/29	72.7	50.9	16.0	15.3	0.00	Low	I nfecti on	Ri sk
05/30	76.9	54.8	9.0	3.8	0.00			
05/31	77.9	47.0	9.3	4.3	0.00			
06/01	69.2	39.5			0.00			
06/02	78.3	52.3	8.3	1.5	0.00			
06/03	71.5	54.6	12.8		0.00			
06/04	72.7	53.4	12.0	9.0	0.00			
06/05	61.3	53.2	23.3	16.5	2.23	Hi gh	I nfecti on	Ri sk
06/06	77.0	53.1	10.8	8.3	0.00			
06/07	80.7	54.2	10.0	7.3	0.00			
06/08	77.1	59.6	4.0		0.00			
06/09	61.4	55.8	21.3	20.5	2.37	Hi gh	I nfecti on	Ri sk
06/10	68.1	55.1	15.5	10.5	0.40	Low	I nfecti on	Ri sk
06/11	63.1	58.8	24.0	21.5	2.74	Hi gh	I nfecti on	Ri sk
06/12	77.4	59.6	21.8	16.0	2.58	Hi gh	I nfecti on	Ri sk
06/13	76.6	62.1	15.8	5.8	1.17	Hi gh	I nfecti on	Ri sk
06/14	72.5	52.5	11.8	10.5	0.00			
06/15	69.6	51.4	11.8	9.3	0.00			
06/16	70.3	51.7	10.5	5.0	0.00			
06/17	70.0	46.6	12.5	9.0	0.00			
06/18	63.5	56.7	24.0	19.3	2.81	Hi gh	I nfecti on	Ri sk
06/19	63.4	62.5	6.8	6.8	0.00			

Hamden, CT Downy Mi ldew - Grape From 2009-05-01 To 2009-06-19

Date	Hi gh Temp	Deg Hrs43	Rai n Fall	Wet Hours	Hours>95%RH 43-86	66-77	Ri sk	Warni ng
05/01	69.3	0.0	0.27	20.0	18.0	0.0	1	Pri mary I nfecti on
05/02	67.7	>mi n	0.09	11.3	4.0	0.0	1	Possi ble I nfecti on
05/03	61.2	>mi n	0.10	20.0	10.8	0.0	1	Possi ble I nfecti on
05/04	60.6	>mi n	0.06	19.8	13.3	0.0	1	Possi ble I nfecti on
05/05	54.4	>mi n	0.17	22.5	8.8	0.0	1	Possi ble I nfecti on
05/06	66.1	>mi n	0.27	8.5	7.5	0.0	1	Possi ble I nfecti on
05/07	70.2	>mi n	0.61	19.8	20.3	0.0	1	Possi ble I nfecti on
05/08	73.0	>mi n	0.01	8.3	7.8	0.0	1	Possi ble I nfecti on
05/09	71.7	>mi n	0.15	12.5	7.5	0.0	1	Possi ble I nfecti on

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05/10	67.2	>mi n		0.0	0.0	0		
05/11	64.2	>mi n		2.8	0.0	0.0	0	
05/12	66.9	>mi n	0.05	10.5	3.0	0.0	1	Possi ble Infecti on
05/13	69.0	>mi n		5.8	1.3	0.0	1	Possi ble Infecti on
05/14	64.1	>mi n	0.44	17.8	7.8	0.0	1	Possi ble Infecti on
05/15	77.2	>mi n		13.0	11.0	0.0	1	Possi ble Infecti on
05/16	67.3	>mi n		16.5	15.8	0.0	1	Possi ble Infecti on
05/17	60.6	>mi n	0.15	8.8	7.0	0.0	1	Possi ble Infecti on
05/18	57.0	>mi n			0.0	0.0	0	
05/19	67.7	>mi n		1.0	0.0	0.0	0	
05/20	80.5	>mi n		5.5	0.0	0.0	0	
05/21	85.6	>mi n		5.3	0.0	0.0	0	
05/22	85.7	>mi n		10.0	0.0	0.0	0	
05/23	69.6	>mi n	0.04	5.5	0.0	0.0	0	
05/24	81.3	>mi n	0.65	16.5	6.5	0.0	1	Possi ble Infecti on
05/25	78.9	>mi n		6.8	5.3	0.0	1	Possi ble Infecti on
05/26	62.1	>mi n	0.03	5.3	0.0	0.0	0	
05/27	60.6	>mi n	0.01	15.0	3.0	0.0	1	Possi ble Infecti on
05/28	58.5	>mi n	0.02	21.3	12.8	0.0	1	Possi ble Infecti on
05/29	72.7	>mi n	0.26	16.0	13.8	0.0	1	Possi ble Infecti on
05/30	76.9	>mi n	0.01	9.0	2.3	0.0	1	Possi ble Infecti on
05/31	77.9	>mi n	0.01	9.3	3.3	0.0	1	Possi ble Infecti on
06/01	69.2	>mi n			0.0	0.0	0	
06/02	78.3	>mi n		8.3	0.8	0.0	1	Possi ble Infecti on
06/03	71.5	>mi n	0.02	12.8	0.0	0.0	0	
06/04	72.7	>mi n	0.23	12.0	8.3	0.0	1	Possi ble Infecti on
06/05	61.3	>mi n	0.43	23.3	13.8	0.0	1	Possi ble Infecti on
06/06	77.0	>mi n	0.01	10.8	7.8	0.0	1	Possi ble Infecti on
06/07	80.7	>mi n		10.0	7.0	0.0	1	Possi ble Infecti on
06/08	77.1	>mi n		4.0	0.0	0.0	0	
06/09	61.4	>mi n	0.89	21.3	19.0	0.0	1	Possi ble Infecti on
06/10	68.1	>mi n	0.01	15.5	10.3	0.0	1	Possi ble Infecti on
06/11	63.1	>mi n	0.03	24.0	19.3	0.0	1	Possi ble Infecti on
06/12	77.4	>mi n	0.64	21.8	15.8	4.3	3	High Risk of Infecti on
06/13	76.6	>mi n		15.8	4.8	0.0	1	Possi ble Infecti on
06/14	72.5	>mi n	0.31	11.8	9.8	0.0	1	Possi ble Infecti on
06/15	69.6	>mi n	0.04	11.8	8.8	0.0	1	Possi ble Infecti on
06/16	70.3	>mi n		10.5	1.8	0.0	1	Possi ble Infecti on
06/17	70.0	>mi n		12.5	9.0	0.0	1	Possi ble Infecti on
06/18	63.5	>mi n	1.93	24.0	17.5	0.0	1	Possi ble Infecti on
06/19	63.4	>mi n	0.08	6.8	6.8	0.0	1	Possi ble Infecti on

Hamden, CT Powdery Mi ldew - Grape From 2009-05-01 To 2009-06-19

Date	Temperature High	Temperature Mean	Hours 70-85	Hours >95	Wet Hours	Ascospore Infecti on	Coni di al Index
05/01	69.3	59.0	0.0	0.0	19.8	Heavy	
05/02	67.7	58.1	0.0	0.0	11.3	Heavy	
05/03	61.2	51.2	0.0	0.0	19.8	Heavy	
05/04	60.6	54.3	0.0	0.0	19.8	Heavy	
05/05	54.4	52.4	0.0	0.0	22.5	Heavy	
05/06	66.1	54.3	0.0	0.0	8.3	Heavy	
05/07	70.2	58.5	0.5	0.0	19.3	Heavy	
05/08	73.0	62.4	4.3	0.0	8.3	Heavy	
05/09	71.7	62.5	1.3	0.0	12.0		
05/10	67.2	60.1	0.0	0.0	0.0		
05/11	64.2	52.7	0.0	0.0	5.0		
05/12	66.9	53.0	0.0	0.0	10.8		
05/13	69.0	54.4	0.0	0.0	12.0		
05/14	64.1	56.6	0.0	0.0	17.8	Heavy	
05/15	77.2	63.4	7.0	0.0	13.0	Heavy	
05/16	67.3	59.4	0.0	0.0	16.3	Heavy	

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Date	Temp	Wet	Rain	Wet+	Wet	Risk	Severity
05/17	60.6	54.6	0.0	0.0	8.5	Heavy	
05/18	57.0	50.6	0.0	0.0	0.0		
05/19	67.7	54.4	0.0	0.0	3.5		
05/20	80.5	62.1	9.3	0.0	7.8		
05/21	85.6	66.6	5.3	0.0	5.0		
05/22	85.7	68.1	6.3	0.0	8.8		
05/23	69.6	62.7	0.0	0.0	5.3		
05/24	81.3	64.2	5.8	0.0	16.5	Heavy	
05/25	78.9	67.7	9.3	0.0	6.8	Heavy	
05/26	62.1	54.9	0.0	0.0	5.3		
05/27	60.6	54.5	0.0	0.0	14.5	Heavy	
05/28	58.5	56.4	0.0	0.0	19.3	Heavy	
05/29	72.7	57.7	0.8	0.0	15.8	Heavy	
05/30	76.9	65.9	9.3	0.0	8.5		
05/31	77.9	62.2	7.0	0.0	9.0		
06/01	69.2	56.4	0.0	0.0	0.0		
06/02	78.3	64.9	7.8	0.0	8.0		
06/03	71.5	61.6	1.0	0.0	12.0		
06/04	72.7	60.0	2.0	0.0	12.0	Heavy	
06/05	61.3	57.0	0.0	0.0	23.0	Heavy	
06/06	77.0	64.5	8.5	0.0	10.8	Heavy	
06/07	80.7	68.2	11.8	0.0	9.3		
06/08	77.1	66.5	7.3	0.0	3.8		60 Heavy
06/09	61.4	58.3	0.0	0.0	20.0	Heavy	50 Medium
06/10	68.1	60.6	0.0	0.0	15.0	Heavy	40 Medium
06/11	63.1	60.4	0.0	0.0	23.3	Heavy	30 Light
06/12	77.4	67.2	8.0	0.0	17.3	Heavy	50 Medium
06/13	76.6	66.7	5.8	0.0	14.8	Heavy	40 Medium
06/14	72.5	62.3	1.0	0.0	11.5	Heavy	30 Light
06/15	69.6	60.0	0.0	0.0	11.0		20 Light
06/16	70.3	60.5	0.3	0.0	10.0	Heavy	10 Light
06/17	70.0	58.7	0.3	0.0	12.3		0
06/18	63.5	60.6	0.0	0.0	24.0	Heavy	0
06/19	63.4	62.9	0.0	0.0	7.3	Heavy	0

Leaf Wetness Sensor Parameters:

Base Temperature 0.0
 Upper Temperature 100.0
 Wetness Threshold 6.0

Hamden, CT Phomopsis Cane+Leaf Spot - Grape From 2009-05-01 To 2009-06-19

Date	Temp Mean	Wet Hours	Rain-Fall	Wet+Rain	Wet Temp	Di sease Catawba	Intensi ty Seyval
05/01	59.0	20.5	0.27	30.0	57.1	192 High	185 High
05/02	58.1	12.0	0.09	26.8	57.3	164 High	166 High
05/03	51.2	20.5	0.10	11.5	51.7	32 Moderate	45 Moderate
05/04	54.3	20.8	0.06	30.3	52.6	141 High	136 High
05/05	52.4	23.3	0.17	48.0	53.4	295 High	236 High
05/06	54.3	11.8	0.27	40.0	52.0	197 High	171 High
05/07	58.5	24.0	0.61	24.8	58.3	153 High	160 High
05/08	62.4	16.3	0.01	37.3	58.2	274 High	244 High
05/09	62.5	17.8	0.15	7.3	58.5	27 Light	45 Moderate
05/10	60.1	0.0	0.00	0.0	0.0	0	0
05/11	52.7	3.5	0.00	0.0	0.0	0	0
05/12	53.0	13.0	0.05	2.5	53.3	4 Light	11 Light
05/13	54.4	7.5	0.00	0.0	0.0	0	0
05/14	56.6	19.5	0.44	6.3	57.1	20 Light	36 Moderate
05/15	63.4	19.8	0.00	17.3	58.0	91 High	109 High
05/16	59.4	17.5	0.00	0.0	0.0	0	0
05/17	54.6	9.8	0.15	8.5	57.2	32 Moderate	50 Moderate
05/18	50.6	0.0	0.00	0.0	0.0	0	0

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05/19	54.4	1.0	0.00	0.0	0.0	0		0	
05/20	62.1	8.3	0.00	0.0	0.0	0		0	
05/21	66.6	6.0	0.00	0.0	0.0	0		0	
05/22	68.1	11.0	0.00	0.0	0.0	0		0	
05/23	62.7	7.3	0.04	0.8	59.5	1	Light	4	Light
05/24	64.2	20.0	0.65	10.3	62.4	48	Moderate	73	Moderate
05/25	67.7	10.0	0.00	14.8	63.0	81	Moderate	108	High
05/26	54.9	5.3	0.03	4.5	49.6	6	Light	13	Light
05/27	54.5	16.5	0.01	12.5	49.0	25	Light	35	Moderate
05/28	56.4	24.0	0.02	17.8	56.6	88	Moderate	104	High
05/29	57.7	22.0	0.26	35.0	56.5	232	High	210	High
05/30	65.9	17.0	0.01	8.0	63.3	34	Moderate	57	Moderate
05/31	62.2	10.8	0.01	0.3	67.8	0	Light	2	Light
06/01	56.4	0.0	0.00	0.0	0.0	0		0	
06/02	64.9	10.5	0.00	0.0	0.0	0		0	
06/03	61.6	14.0	0.02	7.3	57.3	25	Light	43	Moderate
06/04	60.0	15.8	0.23	17.3	56.1	83	Moderate	98	High
06/05	57.0	23.5	0.43	11.8	56.3	48	Moderate	67	Moderate
06/06	64.5	22.5	0.01	30.3	61.2	221	High	218	High
06/07	68.2	17.0	0.00	0.0	0.0	0		0	
06/08	66.5	5.5	0.00	0.0	0.0	0		0	
06/09	58.3	23.5	0.89	22.3	58.3	132	High	143	High
06/10	60.6	24.0	0.01	46.3	59.5	390	High	322	High
06/11	60.4	24.0	0.03	70.3	59.8	716	High	503	High
06/12	67.2	24.0	0.64	94.3	61.7	1131	High	722	High
06/13	66.7	24.0	0.00	118.3	62.7	1581	High	936	High
06/14	62.3	22.5	0.31	136.8	62.8	1947	High	1091	High
06/15	60.0	22.5	0.04	10.0	62.1	46	Moderate	71	Moderate
06/16	60.5	21.5	0.00	0.0	0.0	0		0	
06/17	58.7	17.5	0.00	0.0	0.0	0		0	
06/18	60.6	24.0	1.93	19.0	61.4	114	High	136	High
06/19	62.9	6.8	0.08	26.3	61.8	182	High	192	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