

Windsor_Risk_May_June.txt

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

Date	High Temp	Low Temp	Wet Hours	Daily Risk	Warning
05/01	68.0	50.7	24.0	2.76	Infection Risk
05/02	69.3	49.3	8.5	3.51	Infection Risk
05/03	62.6	42.9	10.5	0.64	
05/04	62.9	51.1	14.3	1.07	Infection Risk
05/05	55.1	48.7	22.3	1.69	Infection Risk
05/06	68.2	46.8	7.5	2.26	Infection Risk
05/07	72.5	51.5	24.0	4.81	Infection Risk
05/08	77.7	49.3	18.0	6.73	Infection Risk
05/09	73.3	58.0	21.5	9.58	Infection Risk
05/10	66.6	48.6	1.5	9.77	Infection Risk
05/11	67.6	43.8		0.00	
05/12	68.3	40.9	2.3	0.09	
05/13	72.2	40.9	5.8	0.38	
05/14	64.9	49.5	19.5	1.74	Infection Risk
05/15	79.0	56.5	23.8	4.70	Infection Risk
05/16	72.1	52.3	18.3	6.78	Infection Risk
05/17	62.2	49.4	10.0	7.68	Infection Risk
05/18	56.6	42.6		0.00	
05/19	73.1	35.6	4.5	0.72	
05/20	85.8	44.4	5.5	0.67	
05/21	89.0	53.5	2.0	0.19	
05/22	91.0	52.0	3.0	0.29	
05/23	71.2	56.4	4.8	0.51	
05/24	81.9	53.9	17.8	2.32	Infection Risk
05/25	80.5	57.9	17.0	4.60	Infection Risk
05/26	66.2	47.2	1.5	0.07	
05/27	60.9	46.2	11.5	0.86	
05/28	57.9	50.5	24.0	2.46	Infection Risk
05/29	71.7	49.5	24.0	4.84	Infection Risk
05/30	78.5	56.0	20.5	7.56	Infection Risk
05/31	79.6	48.0	18.5	9.68	Infection Risk
06/01	71.9	40.0	1.3	0.22	
06/02	82.1	53.6	16.0	2.08	Infection Risk
06/03	69.5	55.0	22.3	4.65	Infection Risk
06/04	76.1	55.0	24.0	7.57	Infection Risk
06/05	64.0	55.4	24.0	9.89	Infection Risk
06/06	83.1	51.2	24.0	12.84	Infection Risk
06/07	84.9	54.3	24.0	15.95	Infection Risk
06/08	78.5	59.9	24.0	19.46	Infection Risk
06/09	61.8	55.3	24.0	21.58	Infection Risk
06/10	68.7	54.8	24.0	24.43	Infection Risk
06/11	64.9	57.6	24.0	27.26	Infection Risk
06/12	77.9	61.9	24.0	30.96	Infection Risk
06/13	81.1	60.8	24.0	34.57	Infection Risk
06/14	74.9	56.6	24.0	37.71	Infection Risk
06/15	73.4	54.7	24.0	40.57	Infection Risk
06/16	72.0	54.2	24.0	43.31	Infection Risk
06/17	73.7	48.7	24.0	45.93	Infection Risk
06/18	64.4	55.5	24.0	48.59	Infection Risk
06/19	63.6	62.3	6.8	49.46	Infection Risk

Windsor, 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	68.0	50.7	24.0	5.0	2.88	High Infection Risk
05/02	69.3	49.3	8.5	0.3	0.00	

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05/03	62.6	42.9	14.8		0.00				
05/04	62.9	51.1	14.3	8.5	0.00				
05/05	55.1	48.7	22.3	9.3	1.88	High	Infection	Risk	
05/06	68.2	46.8	12.8	7.5	0.00				
05/07	72.5	51.5	24.0	14.5	2.76	High	Infection	Risk	
05/08	77.7	49.3	18.0	8.0	1.39	High	Infection	Risk	
05/09	73.3	58.0	21.5	9.0	2.31	High	Infection	Risk	
05/10	66.6	48.6	1.5	0.3	0.00				
05/11	67.6	43.8	0.5		0.00				
05/12	68.3	40.9	11.5	0.5	0.00				
05/13	72.2	40.9	13.5	7.8	0.00				
05/14	64.9	49.5	19.5	2.8	1.62	High	Infection	Risk	
05/15	79.0	56.5	23.8	8.3	2.73	High	Infection	Risk	
05/16	72.1	52.3	18.3	6.0	1.47	High	Infection	Risk	
05/17	62.2	49.4	10.0	5.8	0.00				
05/18	56.6	42.6			0.00				
05/19	73.1	35.6	7.5		0.00				
05/20	85.8	44.4	8.5		0.00				
05/21	89.0	53.5	2.0		0.00				
05/22	91.0	52.0	3.3		0.00				
05/23	71.2	56.4	4.8		0.00				
05/24	81.9	53.9	17.8	4.3	1.36	High	Infection	Risk	
05/25	80.5	57.9	17.0	4.0	1.16	High	Infection	Risk	
05/26	66.2	47.2	1.5		0.00				
05/27	60.9	46.2	16.8	1.5	1.10	High	Infection	Risk	
05/28	57.9	50.5	24.0	15.8	2.18	High	Infection	Risk	
05/29	71.7	49.5	24.0	11.3	2.93	High	Infection	Risk	
05/30	78.5	56.0	20.5	3.5	1.92	High	Infection	Risk	
05/31	79.6	48.0	18.5	2.0	1.56	High	Infection	Risk	
06/01	71.9	40.0	1.3		0.00				
06/02	82.1	53.6	16.0		0.80	Moderate	Infection	Risk	
06/03	69.5	55.0	22.3	1.8	2.21	High	Infection	Risk	
06/04	76.1	55.0	24.0	8.3	2.80	High	Infection	Risk	
06/05	64.0	55.4	24.0	5.0	2.57	High	Infection	Risk	
06/06	83.1	51.2	24.0	1.8	2.75	High	Infection	Risk	
06/07	84.9	54.3	24.0	5.0	2.77	High	Infection	Risk	
06/08	78.5	59.9	24.0		3.02	High	Infection	Risk	
06/09	61.8	55.3	24.0	2.5	2.44	High	Infection	Risk	
06/10	68.7	54.8	24.0	7.5	2.90	High	Infection	Risk	
06/11	64.9	57.6	24.0	8.0	2.85	High	Infection	Risk	
06/12	77.9	61.9	24.0	12.8	3.14	High	Infection	Risk	
06/13	81.1	60.8	24.0		3.04	High	Infection	Risk	
06/14	74.9	56.6	24.0	7.8	2.85	High	Infection	Risk	
06/15	73.4	54.7	24.0	7.3	2.69	High	Infection	Risk	
06/16	72.0	54.2	24.0	8.0	2.73	High	Infection	Risk	
06/17	73.7	48.7	24.0	8.3	2.75	High	Infection	Risk	
06/18	64.4	55.5	24.0	15.8	2.84	High	Infection	Risk	
06/19	63.6	62.3	6.8	6.8	0.00				

Windsor, CT Downy Mildew - Grape From 2009-05-01 To 2009-06-19

Date	High Temp	Deg Hrs43	Rain Fall	Wet Hours	Hours>95%RH 43-86	66-77	Risk	Warning
05/01	68.0	0.0		24.0	2.5	0.0	1	Primary Infection
05/02	69.3	>min	0.07	8.5	0.0	0.0	0	
05/03	62.6	>min	0.02	14.5	0.0	0.0	0	
05/04	62.9	>min	0.06	14.3	5.0	0.0	1	Possible Infection
05/05	55.1	>min	0.10	22.3	3.8	0.0	1	Possible Infection
05/06	68.2	>min	0.46	12.8	6.3	0.0	1	Possible Infection
05/07	72.5	>min	1.19	24.0	12.3	0.0	1	Possible Infection
05/08	77.7	>min	0.08	18.0	7.8	0.0	1	Possible Infection
05/09	73.3	>min	0.07	21.5	7.8	0.0	1	Possible Infection

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05/10	66.6	>min		1.5	0.3	0.0	0	
05/11	67.6	>min		0.5	0.0	0.0	0	
05/12	68.3	>min		8.8	0.0	0.0	0	
05/13	72.2	>min		9.0	2.5	0.0	1	Possible Infection
05/14	64.9	>min	0.44	19.5	0.5	0.0	1	Possible Infection
05/15	79.0	>min		23.8	4.5	0.0	1	Possible Infection
05/16	72.1	>min		18.3	4.5	0.0	1	Possible Infection
05/17	62.2	>min	0.10	10.0	5.3	0.0	1	Possible Infection
05/18	56.6	>min			0.0	0.0	0	
05/19	73.1	>min		5.3	0.0	0.0	0	
05/20	85.8	>min		8.5	0.0	0.0	0	
05/21	89.0	>min			0.0	0.0	0	
05/22	91.0	>min			0.0	0.0	0	
05/23	71.2	>min	0.23	4.8	0.0	0.0	0	
05/24	81.9	>min	0.54	17.8	3.8	0.0	1	Possible Infection
05/25	80.5	>min		17.0	3.8	0.0	1	Possible Infection
05/26	66.2	>min		1.5	0.0	0.0	0	
05/27	60.9	>min	0.26	16.8	0.8	0.0	1	Possible Infection
05/28	57.9	>min	0.02	24.0	13.5	0.0	1	Possible Infection
05/29	71.7	>min	0.19	24.0	10.5	0.0	1	Possible Infection
05/30	78.5	>min	0.03	20.5	2.8	0.0	1	Possible Infection
05/31	79.6	>min		18.5	1.0	0.0	1	Possible Infection
06/01	71.9	>min		1.3	0.0	0.0	0	
06/02	82.1	>min		16.0	0.0	0.0	0	
06/03	69.5	>min	0.05	22.3	0.0	0.0	0	
06/04	76.1	>min	0.06	24.0	6.5	0.0	1	Possible Infection
06/05	64.0	>min	0.07	24.0	0.0	0.0	0	
06/06	83.1	>min		24.0	0.5	0.0	1	Possible Infection
06/07	84.9	>min		24.0	4.3	0.0	1	Possible Infection
06/08	78.5	>min		24.0	0.0	0.0	0	
06/09	61.8	>min	0.38	24.0	0.8	0.0	1	Possible Infection
06/10	68.7	>min		24.0	6.0	0.0	1	Possible Infection
06/11	64.9	>min	0.48	24.0	7.0	0.0	1	Possible Infection
06/12	77.9	>min	0.81	24.0	11.0	3.0	3	High Risk of Infection
06/13	81.1	>min	0.06	24.0	0.0	0.0	0	
06/14	74.9	>min	0.80	24.0	6.3	0.0	1	Possible Infection
06/15	73.4	>min	0.37	24.0	4.0	0.0	1	Possible Infection
06/16	72.0	>min		24.0	6.8	0.0	1	Possible Infection
06/17	73.7	>min		24.0	7.8	0.0	1	Possible Infection
06/18	64.4	>min	1.25	24.0	11.5	0.0	1	Possible Infection
06/19	63.6	>min	0.22	6.8	6.8	0.0	1	Possible Infection

Windsor, CT Powdery Mildew - Grape From 2009-05-01 To 2009-06-19

Date	Temperature High	Temperature Mean	Hours 70-85	Hours >95	Wet Hours	Ascospore Infection	Conidial Index
05/01	68.0	60.6	0.0	0.0	24.0	Heavy	
05/02	69.3	59.7	0.0	0.0	8.0	Heavy	
05/03	62.6	51.7	0.0	0.0	14.5		
05/04	62.9	56.1	0.0	0.0	13.0	Heavy	
05/05	55.1	52.4	0.0	0.0	21.5	Heavy	
05/06	68.2	55.8	0.0	0.0	9.5	Heavy	
05/07	72.5	59.9	2.5	0.0	17.8	Heavy	
05/08	77.7	63.0	7.3	0.0	11.5	Heavy	
05/09	73.3	64.7	5.0	0.0	12.0		
05/10	66.6	58.6	0.0	0.0	1.5		
05/11	67.6	54.9	0.0	0.0	0.5		
05/12	68.3	53.1	0.0	0.0	11.5		
05/13	72.2	56.5	1.8	0.0	13.3		
05/14	64.9	57.3	0.0	0.0	18.8	Heavy	
05/15	79.0	65.7	8.3	0.0	11.3	Heavy	
05/16	72.1	62.6	1.8	0.0	14.0		

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Date	Temp	Wet	Rain	Wet+	Wet	Risk	Severity
05/17	62.2	55.0	0.0	0.0	8.8	Heavy	
05/18	56.6	50.3	0.0	0.0	0.0		
05/19	73.1	55.4	2.8	0.0	7.5		
05/20	85.8	65.5	10.5	0.0	3.0		
05/21	89.0	71.4	4.0	0.0	0.0		
05/22	91.0	72.9	9.8	0.0	0.0		
05/23	71.2	64.2	1.0	0.0	3.5		
05/24	81.9	65.4	8.5	0.0	13.0		
05/25	80.5	68.6	10.3	0.0	7.0	Heavy	
05/26	66.2	56.3	0.0	0.0	1.0		
05/27	60.9	54.3	0.0	0.0	15.3		
05/28	57.9	54.5	0.0	0.0	24.0	Heavy	
05/29	71.7	58.3	1.0	0.0	21.0	Heavy	
05/30	78.5	67.0	9.5	0.0	16.3	Heavy	
05/31	79.6	62.8	9.0	0.0	7.8	Heavy	
06/01	71.9	57.3	3.0	0.0	0.0		
06/02	82.1	65.7	7.5	0.0	3.3		
06/03	69.5	60.8	0.0	0.0	11.0		
06/04	76.1	63.5	6.3	0.0	18.5	Heavy	
06/05	64.0	58.8	0.0	0.0	24.0	Heavy	
06/06	83.1	66.7	9.3	0.0	21.8	Heavy	
06/07	84.9	70.1	12.8	0.0	16.5	Heavy	
06/08	78.5	67.8	9.0	0.0	7.0	Heavy	60 Heavy
06/09	61.8	57.8	0.0	0.0	21.0	Heavy	50 Medium
06/10	68.7	61.3	0.0	0.0	24.0	Heavy	40 Medium
06/11	64.9	61.3	0.0	0.0	24.0	Heavy	30 Light
06/12	77.9	68.4	5.3	0.0	24.0	Heavy	20 Light
06/13	81.1	68.9	8.8	0.0	24.0	Heavy	40 Medium
06/14	74.9	63.7	3.8	0.0	24.0	Heavy	30 Light
06/15	73.4	62.1	3.8	0.0	24.0	Heavy	20 Light
06/16	72.0	61.3	2.3	0.0	22.8	Heavy	10 Light
06/17	73.7	60.5	4.8	0.0	19.3	Heavy	0
06/18	64.4	60.3	0.0	0.0	24.0	Heavy	0
06/19	63.6	62.5	0.0	0.0	7.3	Heavy	0

Leaf Wetness Sensor Parameters:

Base Temperature 0.0
 Upper Temperature 100.0
 Wetness Threshold 6.0

Windsor, 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	60.6	24.0	0.00	0.0	0.0	0	0
05/02	59.7	18.0	0.07	12.5	60.2	61 Moderate	85 Moderate
05/03	51.7	17.5	0.02	6.5	51.9	15 Li ght	26 Li ght
05/04	56.1	24.0	0.06	30.5	55.2	176 Hi gh	168 Hi gh
05/05	52.4	24.0	0.10	54.5	54.0	369 Hi gh	281 Hi gh
05/06	55.8	24.0	0.46	78.5	54.5	651 Hi gh	428 Hi gh
05/07	59.9	24.0	1.19	102.5	55.8	1036 Hi gh	615 Hi gh
05/08	63.0	24.0	0.08	126.5	57.1	1505 Hi gh	826 Hi gh
05/09	64.7	24.0	0.07	150.5	58.3	2030 Hi gh	1048 Hi gh
05/10	58.6	18.3	0.00	168.5	58.5	2405 Hi gh	1190 Hi gh
05/11	54.9	9.8	0.00	0.0	0.0	0	0
05/12	53.1	18.0	0.00	0.0	0.0	0	0
05/13	56.5	20.5	0.00	0.0	0.0	0	0
05/14	57.3	24.0	0.44	12.0	60.2	58 Moderate	81 Moderate
05/15	65.7	24.0	0.00	36.0	63.8	290 Hi gh	277 Hi gh
05/16	62.6	24.0	0.00	60.0	63.3	601 Hi gh	467 Hi gh
05/17	55.0	24.0	0.10	84.0	60.9	948 Hi gh	628 Hi gh
05/18	50.3	24.0	0.00	108.0	58.6	1275 Hi gh	750 Hi gh

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05/19	55.4	18.8	0.00	127.8	58.0	1585	Hi gh	871	Hi gh
05/20	65.5	24.0	0.00	0.0	0.0	0		0	
05/21	71.4	17.5	0.00	0.0	0.0	0		0	
05/22	72.9	18.0	0.00	0.0	0.0	0		0	
05/23	64.2	22.5	0.23	18.0	63.7	108	Hi gh	134	Hi gh
05/24	65.4	24.0	0.54	42.0	64.6	361	Hi gh	328	Hi gh
05/25	68.6	23.8	0.00	65.8	66.0	676	Hi gh	530	Hi gh
05/26	56.3	8.3	0.00	0.0	0.0	0		0	
05/27	54.3	24.0	0.26	23.0	54.4	112	Hi gh	119	Hi gh
05/28	54.5	24.0	0.02	47.0	54.5	312	Hi gh	251	Hi gh
05/29	58.3	24.0	0.19	71.0	55.8	612	Hi gh	419	Hi gh
05/30	67.0	24.0	0.03	95.0	58.6	1062	Hi gh	657	Hi gh
05/31	62.8	24.0	0.00	119.0	59.4	1505	Hi gh	858	Hi gh
06/01	57.3	22.0	0.00	122.3	59.1	1549	Hi gh	872	Hi gh
06/02	65.7	24.0	0.00	0.0	0.0	0		0	
06/03	60.8	24.0	0.05	8.8	58.7	35	Moderate	55	Moderate
06/04	63.5	24.0	0.06	32.8	62.2	251	Hi gh	244	Hi gh
06/05	58.8	24.0	0.07	56.8	60.7	539	Hi gh	415	Hi gh
06/06	66.7	24.0	0.00	80.8	62.5	915	Hi gh	627	Hi gh
06/07	70.1	24.0	0.00	104.8	64.3	1334	Hi gh	846	Hi gh
06/08	67.8	24.0	0.00	128.8	64.9	1786	Hi gh	1057	Hi gh
06/09	57.8	24.0	0.38	152.8	63.8	2289	Hi gh	1245	Hi gh
06/10	61.3	24.0	0.00	176.8	63.4	2818	Hi gh	1441	Hi gh
06/11	61.3	24.0	0.48	200.8	63.2	3378	Hi gh	1638	Hi gh
06/12	68.4	24.0	0.81	224.8	63.7	3976	Hi gh	1859	Hi gh
06/13	68.9	24.0	0.06	248.8	64.2	4594	Hi gh	2080	Hi gh
06/14	63.7	24.0	0.80	272.8	64.2	5242	Hi gh	2288	Hi gh
06/15	62.1	24.0	0.37	296.8	64.0	5915	Hi gh	2492	Hi gh
06/16	61.3	24.0	0.00	320.8	63.8	6611	Hi gh	2694	Hi gh
06/17	60.5	24.0	0.00	344.8	63.6	7329	Hi gh	2893	Hi gh
06/18	60.3	24.0	1.25	368.8	63.4	8065	Hi gh	3092	Hi gh
06/19	62.5	6.8	0.22	376.0	63.4	8292	Hi gh	3155	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