

Hamden 2011 Black Rot - Grape From 2011-08-26 To 2011-09-15

| Date | High Temp | Low Temp | Wet Hours | Daily Risk | Warning |
|-------|-----------|----------|-----------|------------|----------------|
| 08/26 | 87.0 | 66.4 | 12.0 | 1.23 | Infection Risk |
| 08/27 | 77.0 | 66.0 | 20.8 | 4.23 | Infection Risk |
| 08/28 | 75.5 | 62.7 | 14.8 | 6.74 | Infection Risk |
| 08/29 | 79.1 | 53.3 | 9.3 | 7.06 | Infection Risk |
| 08/30 | 82.2 | 54.5 | 11.5 | 0.98 | |
| 08/31 | 86.5 | 54.4 | 12.3 | 1.05 | Infection Risk |
| 09/01 | 80.4 | 60.1 | 12.0 | 1.64 | Infection Risk |
| 09/02 | 79.0 | 57.1 | 11.5 | 1.21 | Infection Risk |
| 09/03 | 84.4 | 57.7 | 7.5 | 1.24 | Infection Risk |
| 09/04 | 84.9 | 66.1 | 7.0 | 1.17 | Infection Risk |
| 09/05 | 81.3 | 66.0 | 4.0 | 0.67 | |
| 09/06 | 73.4 | 58.3 | 20.8 | 2.35 | Infection Risk |
| 09/07 | 65.6 | 57.6 | 21.0 | 4.73 | Infection Risk |
| 09/08 | 81.2 | 58.5 | 12.5 | 5.65 | Infection Risk |
| 09/09 | 84.1 | 59.1 | 10.5 | 1.53 | Infection Risk |
| 09/10 | 83.1 | 58.1 | 6.8 | 1.14 | Infection Risk |
| 09/11 | 75.3 | 57.7 | 8.3 | 0.74 | |
| 09/12 | 82.8 | 63.4 | 11.0 | 1.02 | Infection Risk |
| 09/13 | 84.1 | 59.9 | 11.0 | 1.76 | Infection Risk |
| 09/14 | 85.9 | 62.9 | 13.0 | 1.76 | Infection Risk |
| 09/15 | 72.2 | 66.2 | 8.5 | 2.25 | Infection Risk |

Hamden 2011 Botrytis - Grape From 2011-08-26 To 2011-09-15

| Date | High Temp | Low Temp | Wet Hours | RH>95 Hours | Daily Risk | Warning |
|-------|-----------|----------|-----------|-------------|------------|-------------------------|
| 08/26 | 87.0 | 66.4 | 12.0 | 9.8 | 0.37 | Low Infection Risk |
| 08/27 | 77.0 | 66.0 | 20.8 | 23.8 | 2.96 | High Infection Risk |
| 08/28 | 75.5 | 62.7 | 14.8 | 13.8 | 0.99 | Moderate Infection Risk |
| 08/29 | 79.1 | 53.3 | 9.3 | 6.0 | 0.00 | |
| 08/30 | 82.2 | 54.5 | 11.5 | 4.0 | 0.00 | |
| 08/31 | 86.5 | 54.4 | 12.3 | 7.0 | 0.00 | |
| 09/01 | 80.4 | 60.1 | 12.0 | 8.5 | 0.11 | Low Infection Risk |
| 09/02 | 79.0 | 57.1 | 11.5 | 9.0 | 0.00 | |
| 09/03 | 84.4 | 57.7 | 7.5 | 7.8 | 0.00 | |
| 09/04 | 84.9 | 66.1 | 7.0 | 6.3 | 0.00 | |
| 09/05 | 81.3 | 66.0 | 4.0 | 1.8 | 0.00 | |
| 09/06 | 73.4 | 58.3 | 20.8 | 18.3 | 1.96 | High Infection Risk |
| 09/07 | 65.6 | 57.6 | 21.0 | 24.0 | 2.82 | High Infection Risk |
| 09/08 | 81.2 | 58.5 | 12.5 | 13.0 | 0.34 | Low Infection Risk |
| 09/09 | 84.1 | 59.1 | 10.5 | 9.3 | 0.00 | |
| 09/10 | 83.1 | 58.1 | 6.8 | 4.5 | 0.00 | |
| 09/11 | 75.3 | 57.7 | 8.3 | 2.0 | 0.00 | |
| 09/12 | 82.8 | 63.4 | 11.0 | 8.8 | 0.12 | Low Infection Risk |
| 09/13 | 84.1 | 59.9 | 11.0 | 10.5 | 0.08 | Low Infection Risk |
| 09/14 | 85.9 | 62.9 | 13.0 | 11.3 | 0.57 | Moderate Infection Risk |
| 09/15 | 72.2 | 66.2 | 8.5 | 8.8 | 0.00 | |

Hamden 2011 Downy Mildew - Grape From 2011-08-26 To 2011-09-15

| Date | High Temp | Deg Hrs43 | Rain Fall | Wet Hours | Hours>95%RH 43-86 | 66-77 | Risk | Warning |
|-------|-----------|-----------|-----------|-----------|-------------------|-------|------|------------------------|
| 08/26 | 87.0 | 0.0 | | 12.0 | 8.5 | 8.5 | 1 | Primary Infection |
| 08/27 | 77.0 | >min | 1.08 | 20.8 | 21.0 | 21.0 | 3 | High Risk of Infection |
| 08/28 | 75.5 | >min | 3.48 | 14.8 | 13.3 | 13.3 | 3 | High Risk of Infection |
| 08/29 | 79.1 | >min | | 9.3 | 4.8 | 0.0 | 1 | Possible Infection |
| 08/30 | 82.2 | >min | | 11.5 | 2.3 | 0.0 | 1 | Possible Infection |
| 08/31 | 86.5 | >min | | 12.3 | 7.0 | 0.0 | 1 | Possible Infection |
| 09/01 | 80.4 | >min | | 12.0 | 5.8 | 0.0 | 1 | Possible Infection |
| 09/02 | 79.0 | >min | | 11.5 | 7.8 | 0.0 | 1 | Possible Infection |
| 09/03 | 84.4 | >min | | 7.5 | 7.8 | 0.0 | 1 | Possible Infection |
| 09/04 | 84.9 | >min | | 7.0 | 5.8 | 5.8 | 3 | High Risk of Infection |
| 09/05 | 81.3 | >min | | 4.0 | 1.3 | 1.3 | 3 | High Risk of Infection |
| 09/06 | 73.4 | >min | 2.89 | 20.8 | 15.3 | 0.0 | 1 | Possible Infection |
| 09/07 | 65.6 | >min | 0.41 | 21.0 | 24.0 | 0.0 | 1 | Possible Infection |
| 09/08 | 81.2 | >min | 0.48 | 12.5 | 12.5 | 0.0 | 1 | Possible Infection |
| 09/09 | 84.1 | >min | | 10.5 | 8.5 | 0.3 | 1 | Possible Infection |
| 09/10 | 83.1 | >min | | 6.8 | 3.8 | 0.0 | 1 | Possible Infection |
| 09/11 | 75.3 | >min | | 8.3 | 1.8 | 0.0 | 1 | Possible Infection |
| 09/12 | 82.8 | >min | | 11.0 | 8.0 | 0.3 | 1 | Possible Infection |
| 09/13 | 84.1 | >min | | 11.0 | 10.0 | 2.3 | 3 | High Risk of Infection |
| 09/14 | 85.9 | >min | | 13.0 | 10.3 | 4.5 | 3 | High Risk of Infection |
| 09/15 | 72.2 | >min | | 8.5 | 8.5 | 8.5 | 3 | High Risk of Infection |

Hamden 2011 Powdery Mildew - Grape From 2011-08-26 To 2011-09-15

| Date | Temperature High | Temperature Mean | Hours 70-85 | Hours >95 | Wet Hours | Ascospore Infection | Conidial Index |
|-------|------------------|------------------|-------------|-----------|-----------|---------------------|----------------|
| 08/26 | 87.0 | 74.8 | 7.5 | 0.0 | 12.0 | | |
| 08/27 | 77.0 | 71.6 | 16.3 | 0.0 | 20.5 | Heavy | |
| 08/28 | 75.5 | 71.0 | 8.3 | 0.0 | 14.8 | Heavy | 60 Heavy |
| 08/29 | 79.1 | 65.0 | 7.8 | 0.0 | 9.3 | Heavy | 80 Heavy |
| 08/30 | 82.2 | 66.4 | 9.3 | 0.0 | 11.5 | | 100 Heavy |
| 08/31 | 86.5 | 69.2 | 9.8 | 0.0 | 12.3 | | 100 Heavy |
| 09/01 | 80.4 | 68.5 | 10.5 | 0.0 | 12.0 | | 100 Heavy |
| 09/02 | 79.0 | 66.3 | 9.0 | 0.0 | 11.5 | | 100 Heavy |
| 09/03 | 84.4 | 70.5 | 15.0 | 0.0 | 7.5 | | 100 Heavy |
| 09/04 | 84.9 | 74.5 | 16.8 | 0.0 | 7.0 | | 100 Heavy |
| 09/05 | 81.3 | 74.2 | 19.5 | 0.0 | 4.0 | | 100 Heavy |
| 09/06 | 73.4 | 62.1 | 2.8 | 0.0 | 20.8 | Heavy | 90 Heavy |
| 09/07 | 65.6 | 61.2 | 0.0 | 0.0 | 21.0 | Heavy | 80 Heavy |
| 09/08 | 81.2 | 66.1 | 6.0 | 0.0 | 12.3 | Heavy | 100 Heavy |
| 09/09 | 84.1 | 70.6 | 10.0 | 0.0 | 10.3 | | 100 Heavy |
| 09/10 | 83.1 | 69.4 | 10.3 | 0.0 | 6.8 | | 100 Heavy |
| 09/11 | 75.3 | 65.2 | 6.8 | 0.0 | 8.0 | | 100 Heavy |
| 09/12 | 82.8 | 70.8 | 11.3 | 0.0 | 11.0 | | 100 Heavy |
| 09/13 | 84.1 | 71.7 | 13.0 | 0.0 | 11.0 | Heavy | 100 Heavy |
| 09/14 | 85.9 | 73.2 | 13.0 | 0.0 | 13.0 | | 100 Heavy |
| 09/15 | 72.2 | 68.1 | 1.3 | 0.0 | 8.3 | Heavy | 90 Heavy |

Hamden 2011 Phomopsis Cane+Leaf Spot - Grape From 2011-08-26 To 2011-09-15

| Date | Temp Mean | Wet Hours | Rain- Fall | Wet+ Rain | Wet Temp | Disease Intensity | |
|-------|--------------|--------------|---------------|--------------|-------------|-------------------|-----------|
| | | | | | | Catawba | Seyval |
| 08/26 | 74.8 | 12.0 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 08/27 | 71.6 | 22.0 | 1.08 | 17.0 | 74.2 | 72 Moderate | 117 High |
| 08/28 | 71.0 | 14.8 | 3.48 | 25.0 | 72.8 | 136 High | 182 High |
| 08/29 | 65.0 | 9.8 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 08/30 | 66.4 | 11.8 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 08/31 | 69.2 | 12.5 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 09/01 | 68.5 | 12.0 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 09/02 | 66.3 | 11.5 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 09/03 | 70.5 | 7.5 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 09/04 | 74.5 | 7.5 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 09/05 | 74.2 | 4.8 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 09/06 | 62.1 | 22.3 | 2.89 | 27.0 | 60.7 | 186 High | 192 High |
| 09/07 | 61.2 | 21.5 | 0.41 | 138.5 | 60.3 | 1911 High | 1035 High |
| 09/08 | 66.1 | 12.5 | 0.48 | 50.3 | 60.4 | 450 High | 362 High |
| 09/09 | 70.6 | 11.0 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 09/10 | 69.4 | 7.0 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 09/11 | 65.2 | 10.5 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 09/12 | 70.8 | 11.5 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 09/13 | 71.7 | 11.3 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 09/14 | 73.2 | 13.5 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 09/15 | 68.1 | 8.5 | 0.00 | 0.0 | 0.0 | 0 | 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

