

Hamden 2011 Black Rot - Grape From 2011-08-15 To 2011-08-31

| Date | High Temp | Low Temp | Wet Hours | Daily Risk | Warning |
|-------|-----------|----------|-----------|------------|----------------|
| 08/15 | 72.5 | 63.5 | 22.8 | 3.84 | Infection Risk |
| 08/16 | 75.6 | 60.6 | 11.5 | 4.69 | Infection Risk |
| 08/17 | 87.5 | 57.7 | 12.0 | 1.45 | Infection Risk |
| 08/18 | 84.0 | 61.7 | 9.0 | 1.73 | Infection Risk |
| 08/19 | 82.0 | 64.1 | 9.0 | 1.46 | Infection Risk |
| 08/20 | 85.8 | 61.8 | 11.0 | 1.25 | Infection Risk |
| 08/21 | 85.1 | 63.5 | 14.5 | 1.88 | Infection Risk |
| 08/22 | 78.1 | 60.1 | 7.8 | 2.15 | Infection Risk |
| 08/23 | 78.2 | 52.0 | 7.8 | 0.47 | |
| 08/24 | 79.9 | 56.3 | 7.5 | 1.15 | Infection Risk |
| 08/25 | 79.7 | 70.4 | 5.0 | 0.83 | |
| 08/26 | 87.0 | 66.4 | 12.0 | 2.06 | 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 | 57.9 | 55.6 | 4.0 | 0.77 | |

Hamden 2011 Botrytis - Grape From 2011-08-15 To 2011-08-31

| Date | High Temp | Low Temp | Wet Hours | RH>95 Hours | Daily Risk | Warning |
|-------|-----------|----------|-----------|-------------|------------|-------------------------|
| 08/15 | 72.5 | 63.5 | 22.8 | 23.5 | 3.12 | High Infection Risk |
| 08/16 | 75.6 | 60.6 | 11.5 | 11.8 | 0.16 | Low Infection Risk |
| 08/17 | 87.5 | 57.7 | 12.0 | 10.0 | 0.09 | Low Infection Risk |
| 08/18 | 84.0 | 61.7 | 9.0 | 8.3 | 0.00 | |
| 08/19 | 82.0 | 64.1 | 9.0 | 7.5 | 0.00 | |
| 08/20 | 85.8 | 61.8 | 11.0 | 6.3 | 0.06 | Low Infection Risk |
| 08/21 | 85.1 | 63.5 | 14.5 | 12.0 | 0.93 | Moderate Infection Risk |
| 08/22 | 78.1 | 60.1 | 7.8 | 5.5 | 0.00 | |
| 08/23 | 78.2 | 52.0 | 7.8 | 2.0 | 0.00 | |
| 08/24 | 79.9 | 56.3 | 7.5 | 7.3 | 0.00 | |
| 08/25 | 79.7 | 70.4 | 5.0 | 0.5 | 0.00 | |
| 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 | 57.9 | 55.6 | 4.0 | 4.0 | 0.00 | |

Hamden 2011 Downy Mildew - Grape From 2011-08-15 To 2011-08-31

| Date | High Temp | Deg Hrs43 | Rain Fall | Wet Hours | Hours>95%RH 43-86 | 66-77 | Risk | Warning |
|-------|-----------|-----------|-----------|-----------|-------------------|-------|------|------------------------|
| 08/15 | 72.5 | 0.0 | 0.48 | 22.8 | 22.5 | 19.0 | 1 | Primary Infection |
| 08/16 | 75.6 | >min | | 11.5 | 11.5 | 0.0 | 1 | Possible Infection |
| 08/17 | 87.5 | >min | | 12.0 | 8.8 | 0.3 | 1 | Possible Infection |
| 08/18 | 84.0 | >min | | 9.0 | 7.5 | 0.8 | 3 | High Risk of Infection |
| 08/19 | 82.0 | >min | | 9.0 | 7.5 | 4.3 | 3 | High Risk of Infection |
| 08/20 | 85.8 | >min | | 11.0 | 5.3 | 0.3 | 1 | Possible Infection |
| 08/21 | 85.1 | >min | 0.22 | 14.5 | 11.5 | 4.8 | 3 | High Risk of Infection |
| 08/22 | 78.1 | >min | | 7.8 | 5.5 | 5.5 | 3 | High Risk of Infection |
| 08/23 | 78.2 | >min | | 7.8 | 0.8 | 0.0 | 1 | Possible Infection |
| 08/24 | 79.9 | >min | | 7.5 | 7.3 | 0.0 | 1 | Possible Infection |
| 08/25 | 79.7 | >min | 0.04 | 5.0 | 0.0 | 0.0 | 0 | |
| 08/26 | 87.0 | >min | | 12.0 | 8.5 | 8.5 | 3 | High Risk of 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 | 57.9 | >min | | 4.0 | 4.0 | 0.0 | 1 | Possible Infection |

Hamden 2011 Powdery Mildew - Grape From 2011-08-15 To 2011-08-31

| Date | Temperature High | Mean | Hours 70-85 | Hours >95 | Wet Hours | Ascospore Infection | Conidial Index |
|-------|------------------|------|-------------|-----------|-----------|---------------------|----------------|
| 08/15 | 72.5 | 68.9 | 8.0 | 0.0 | 22.8 | Heavy | |
| 08/16 | 75.6 | 66.7 | 7.3 | 0.0 | 11.5 | Heavy | |
| 08/17 | 87.5 | 72.1 | 6.3 | 0.0 | 11.8 | | 60 Heavy |
| 08/18 | 84.0 | 73.0 | 15.5 | 0.0 | 9.0 | | 80 Heavy |
| 08/19 | 82.0 | 72.7 | 14.5 | 0.0 | 9.0 | | 100 Heavy |
| 08/20 | 85.8 | 73.6 | 5.8 | 0.0 | 11.0 | | 90 Heavy |
| 08/21 | 85.1 | 73.2 | 16.0 | 0.0 | 14.5 | | 100 Heavy |
| 08/22 | 78.1 | 69.7 | 10.8 | 0.0 | 7.5 | Heavy | 100 Heavy |
| 08/23 | 78.2 | 66.0 | 9.3 | 0.0 | 7.8 | | 100 Heavy |
| 08/24 | 79.9 | 69.1 | 15.8 | 0.0 | 7.5 | | 100 Heavy |
| 08/25 | 79.7 | 73.8 | 24.0 | 0.0 | 4.8 | | 100 Heavy |
| 08/26 | 87.0 | 74.8 | 7.5 | 0.0 | 12.0 | | 100 Heavy |
| 08/27 | 77.0 | 71.6 | 16.3 | 0.0 | 20.5 | Heavy | 100 Heavy |
| 08/28 | 75.5 | 71.0 | 8.3 | 0.0 | 14.8 | Heavy | 100 Heavy |
| 08/29 | 79.1 | 65.0 | 7.8 | 0.0 | 9.3 | Heavy | 100 Heavy |
| 08/30 | 82.2 | 66.4 | 9.3 | 0.0 | 11.5 | | 100 Heavy |
| 08/31 | 57.9 | 56.7 | 0.0 | 0.0 | 4.0 | | 90 Heavy |

Hamden 2011 Phomopsis Cane+Leaf Spot - Grape From 2011-08-15 To 2011-08-31

| Date | Temp Mean | Wet Hours | Rain- Fall | Wet+ Rain | Wet Temp | Disease Intensity | |
|-------|--------------|--------------|---------------|--------------|-------------|-------------------|-------------|
| | | | | | | Catawba | Seyval |
| 08/15 | 68.9 | 22.8 | 0.48 | 35.0 | 69.1 | 257 High | 274 High |
| 08/16 | 66.7 | 11.8 | 0.00 | 28.5 | 67.0 | 201 High | 223 High |
| 08/17 | 72.1 | 12.3 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 08/18 | 73.0 | 9.3 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 08/19 | 72.7 | 9.3 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 08/20 | 73.6 | 11.5 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 08/21 | 73.2 | 15.5 | 0.22 | 7.8 | 73.7 | 24 Light | 53 Moderate |
| 08/22 | 69.7 | 8.3 | 0.00 | 12.5 | 70.8 | 55 Moderate | 92 High |
| 08/23 | 66.0 | 7.8 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 08/24 | 69.1 | 7.5 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 08/25 | 73.8 | 7.3 | 0.04 | 1.3 | 75.0 | 2 Light | 8 Light |
| 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 | 56.7 | 4.0 | 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