

Griswold 2011 Black Rot - Grape From 2011-07-15 To 2011-08-01

| Date | High Temp | Low Temp | Wet Hours | Daily Risk | Warning |
|-------|-----------|----------|-----------|------------|----------------|
| 07/15 | 85.5 | 53.9 | 8.3 | 0.59 | |
| 07/16 | 89.1 | 58.6 | 10.0 | 1.04 | Infection Risk |
| 07/17 | 88.1 | 60.6 | 7.3 | 1.32 | Infection Risk |
| 07/18 | 86.6 | 70.2 | 4.8 | 0.73 | |
| 07/19 | 90.4 | 66.1 | 10.8 | 1.95 | Infection Risk |
| 07/20 | 88.0 | 61.3 | 11.0 | 1.66 | Infection Risk |
| 07/21 | 89.4 | 71.4 | 7.8 | 1.92 | Infection Risk |
| 07/22 | 101.4 | 70.5 | 8.3 | 0.84 | |
| 07/23 | 92.8 | 64.4 | 9.8 | 1.60 | Infection Risk |
| 07/24 | 86.2 | 65.8 | 8.5 | 1.86 | Infection Risk |
| 07/25 | 73.4 | 62.7 | 7.5 | 0.97 | |
| 07/26 | 83.6 | 62.9 | 13.3 | 1.98 | Infection Risk |
| 07/27 | 83.7 | 59.4 | 11.3 | 1.80 | Infection Risk |
| 07/28 | 84.0 | 59.1 | 12.3 | 1.54 | Infection Risk |
| 07/29 | 77.9 | 64.8 | 18.3 | 3.83 | Infection Risk |
| 07/30 | 89.4 | 62.8 | 10.8 | 4.98 | Infection Risk |
| 07/31 | 87.9 | 58.1 | 11.8 | 1.43 | Infection Risk |
| 08/01 | 88.4 | 63.1 | 7.3 | 1.86 | Infection Risk |

Griswold 2011 Botrytis - Grape From 2011-07-15 To 2011-08-01

| Date | High Temp | Low Temp | Wet Hours | RH>95 Hours | Daily Risk | Warning |
|-------|-----------|----------|-----------|-------------|------------|-------------------------|
| 07/15 | 85.5 | 53.9 | 8.3 | 7.5 | 0.00 | |
| 07/16 | 89.1 | 58.6 | 10.0 | 9.3 | 0.00 | |
| 07/17 | 88.1 | 60.6 | 7.3 | 7.3 | 0.00 | |
| 07/18 | 86.6 | 70.2 | 4.8 | 1.5 | 0.00 | |
| 07/19 | 90.4 | 66.1 | 10.8 | 9.8 | 0.24 | Low Infection Risk |
| 07/20 | 88.0 | 61.3 | 11.0 | 8.8 | 0.01 | Low Infection Risk |
| 07/21 | 89.4 | 71.4 | 7.8 | 2.5 | 0.00 | |
| 07/22 | 101.4 | 70.5 | 8.3 | 2.5 | 0.00 | |
| 07/23 | 92.8 | 64.4 | 9.8 | 7.0 | 0.00 | |
| 07/24 | 86.2 | 65.8 | 8.5 | 6.8 | 0.00 | |
| 07/25 | 73.4 | 62.7 | 7.5 | 3.5 | 0.00 | |
| 07/26 | 83.6 | 62.9 | 13.3 | 13.0 | 0.59 | Moderate Infection Risk |
| 07/27 | 83.7 | 59.4 | 11.3 | 10.5 | 0.06 | Low Infection Risk |
| 07/28 | 84.0 | 59.1 | 12.3 | 9.5 | 0.24 | Low Infection Risk |
| 07/29 | 77.9 | 64.8 | 18.3 | 17.5 | 1.85 | High Infection Risk |
| 07/30 | 89.4 | 62.8 | 10.8 | 3.3 | 0.00 | |
| 07/31 | 87.9 | 58.1 | 11.8 | 7.5 | 0.08 | Low Infection Risk |
| 08/01 | 88.4 | 63.1 | 7.3 | 7.3 | 0.00 | |

Griswold 2011 Downy Mildew - Grape From 2011-07-15 To 2011-08-01

| Date | High Temp | Deg Hrs43 | Rain Fall | Wet Hours | Hours>95%RH 43-86 | 66-77 | Risk | Warning |
|-------|-----------|-----------|-----------|-----------|-------------------|-------|------|------------------------|
| 07/15 | 85.5 | 0.0 | | 8.3 | 6.8 | 0.0 | 1 | Primary Infection |
| 07/16 | 89.1 | >min | | 10.0 | 7.8 | 0.5 | 3 | High Risk of Infection |
| 07/17 | 88.1 | >min | | 7.3 | 7.3 | 0.3 | 1 | Possible Infection |
| 07/18 | 86.6 | >min | 0.06 | 4.8 | 1.0 | 1.0 | 3 | High Risk of Infection |
| 07/19 | 90.4 | >min | | 10.8 | 9.0 | 9.0 | 3 | High Risk of Infection |
| 07/20 | 88.0 | >min | | 11.0 | 7.5 | 0.3 | 1 | Possible Infection |
| 07/21 | 89.4 | >min | | 7.8 | 0.5 | 0.5 | 3 | High Risk of Infection |
| 07/22 | 101.4 | >min | | 8.3 | 1.5 | 1.5 | 3 | High Risk of Infection |
| 07/23 | 92.8 | >min | | 9.8 | 6.5 | 4.0 | 3 | High Risk of Infection |
| 07/24 | 86.2 | >min | | 8.5 | 5.8 | 5.8 | 3 | High Risk of Infection |
| 07/25 | 73.4 | >min | 0.05 | 7.5 | 2.3 | 0.0 | 1 | Possible Infection |
| 07/26 | 83.6 | >min | 0.97 | 13.3 | 12.8 | 0.8 | 3 | High Risk of Infection |
| 07/27 | 83.7 | >min | 0.01 | 11.3 | 10.3 | 0.5 | 3 | High Risk of Infection |
| 07/28 | 84.0 | >min | | 12.3 | 9.0 | 0.0 | 1 | Possible Infection |
| 07/29 | 77.9 | >min | | 18.3 | 15.8 | 13.3 | 3 | High Risk of Infection |
| 07/30 | 89.4 | >min | | 10.8 | 1.3 | 1.0 | 3 | High Risk of Infection |
| 07/31 | 87.9 | >min | | 11.8 | 7.3 | 0.0 | 1 | Possible Infection |
| 08/01 | 88.4 | >min | | 7.3 | 5.3 | 1.8 | 3 | High Risk of Infection |

Griswold 2011 Powdery Mildew - Grape From 2011-07-15 To 2011-08-01

| Date | Temperature High | Temperature Mean | Hours 70-85 | Hours >95 | Wet Hours | Ascospore Infection | Conidial Index |
|-------|------------------|------------------|-------------|-----------|-----------|---------------------|----------------|
| 07/15 | 85.5 | 70.0 | 11.3 | 0.0 | 8.3 | | |
| 07/16 | 89.1 | 72.6 | 5.8 | 0.0 | 10.0 | | |
| 07/17 | 88.1 | 75.5 | 10.3 | 0.0 | 7.3 | | |
| 07/18 | 86.6 | 77.0 | 21.8 | 0.0 | 4.8 | | |
| 07/19 | 90.4 | 77.9 | 4.3 | 0.0 | 10.5 | | |
| 07/20 | 88.0 | 74.6 | 12.3 | 0.0 | 11.0 | | |
| 07/21 | 89.4 | 79.6 | 18.0 | 0.0 | 7.5 | | |
| 07/22 | 101.4 | 86.5 | 8.3 | 9.0 | 7.8 | | 60 Heavy |
| 07/23 | 92.8 | 78.4 | 5.3 | 0.0 | 9.3 | | 50 Medium |
| 07/24 | 86.2 | 76.1 | 19.3 | 0.0 | 8.0 | | 70 Heavy |
| 07/25 | 73.4 | 68.6 | 8.5 | 0.0 | 7.5 | | 90 Heavy |
| 07/26 | 83.6 | 69.9 | 9.0 | 0.0 | 13.3 | Heavy | 100 Heavy |
| 07/27 | 83.7 | 70.9 | 11.5 | 0.0 | 11.0 | Heavy | 100 Heavy |
| 07/28 | 84.0 | 71.2 | 12.5 | 0.0 | 12.0 | | 100 Heavy |
| 07/29 | 77.9 | 72.2 | 18.3 | 0.0 | 18.0 | Heavy | 100 Heavy |
| 07/30 | 89.4 | 78.1 | 10.8 | 0.0 | 10.8 | Heavy | 100 Heavy |
| 07/31 | 87.9 | 73.4 | 5.5 | 0.0 | 11.5 | | 90 Heavy |
| 08/01 | 88.4 | 73.2 | 3.3 | 0.0 | 7.3 | | 80 Heavy |

Griswold 2011 Phomopsis Cane+Leaf Spot - Grape From 2011-07-15 To 2011-08-01

| Date | Temp Mean | Wet Hours | Rain-Fall | Wet+Rain | Wet Temp | Disease Intensity Catawba | Disease Intensity Seyval |
|-------|-----------|-----------|-----------|----------|----------|---------------------------|--------------------------|
| 07/15 | 70.0 | 8.3 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 07/16 | 72.6 | 10.3 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 07/17 | 75.5 | 7.3 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 07/18 | 77.0 | 6.0 | 0.06 | 2.5 | 79.7 | 3 Light | 12 Light |
| 07/19 | 77.9 | 11.3 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 07/20 | 74.6 | 11.5 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 07/21 | 79.6 | 8.8 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 07/22 | 86.5 | 9.8 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 07/23 | 78.4 | 10.8 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 07/24 | 76.1 | 9.8 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 07/25 | 68.6 | 7.5 | 0.05 | 6.3 | 64.6 | 24 Light | 45 Moderate |
| 07/26 | 69.9 | 13.3 | 0.97 | 19.5 | 64.5 | 120 High | 148 High |
| 07/27 | 70.9 | 11.8 | 0.01 | 13.5 | 63.3 | 71 Moderate | 99 High |
| 07/28 | 71.2 | 12.3 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 07/29 | 72.2 | 18.5 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 07/30 | 78.1 | 10.8 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 07/31 | 73.4 | 11.8 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 08/01 | 73.2 | 7.3 | 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