

Colchester 2010 Black Rot - Grape From 2010-05-06 To 2010-05-25

| Date | High Temp | Low Temp | Wet Hours | Daily Risk | Warning |
|-------|-----------|----------|-----------|------------|----------------|
| 05/06 | 77.0 | 54.3 | 3.0 | 0.25 | |
| 05/07 | 70.8 | 45.9 | | 0.00 | |
| 05/08 | 71.2 | 48.2 | 6.5 | 0.43 | |
| 05/09 | 52.7 | 39.0 | | 0.00 | |
| 05/10 | 55.9 | 36.1 | | 0.00 | |
| 05/11 | 56.3 | 32.0 | | 0.00 | |
| 05/12 | 46.0 | 40.2 | | 0.00 | |
| 05/13 | 65.7 | 33.5 | | 0.00 | |
| 05/14 | 73.7 | 45.7 | 0.8 | 0.03 | |
| 05/15 | 68.3 | 52.0 | 2.0 | 0.23 | |
| 05/16 | 69.9 | 46.0 | | 0.00 | |
| 05/17 | 74.3 | 42.6 | | 0.00 | |
| 05/18 | 54.3 | 46.0 | 6.8 | 0.31 | |
| 05/19 | 57.9 | 46.8 | 9.3 | 0.81 | |
| 05/20 | 78.6 | 51.1 | 7.5 | 1.15 | Infection Risk |
| 05/21 | 82.8 | 53.5 | 3.8 | 0.39 | |
| 05/22 | 73.2 | 49.3 | 4.5 | 0.30 | |
| 05/23 | 73.3 | 58.2 | 12.0 | 1.07 | Infection Risk |
| 05/24 | 78.1 | 58.2 | 10.5 | 1.13 | Infection Risk |
| 05/25 | 84.0 | 55.3 | 6.0 | 1.03 | Infection Risk |

Colchester 2010 Downy Mildew - Grape From 2010-05-06 To 2010-05-25

| Date | High Temp | Deg Hrs43 | Rain Fall | Wet Hours | Hours>95%RH 43-86 | 66-77 | Risk | Warning |
|-------|-----------|-----------|-----------|-----------|-------------------|-------|------|--------------------|
| 05/06 | 77.0 | 0.0 | | 3.0 | 0.0 | 0.0 | 0 | Primary Infection |
| 05/07 | 70.8 | >min | | | 0.0 | 0.0 | 0 | |
| 05/08 | 71.2 | >min | 0.13 | 6.5 | 4.8 | 0.0 | 1 | Possible Infection |
| 05/09 | 52.7 | >min | | | 0.0 | 0.0 | 0 | |
| 05/10 | 55.9 | >min | | | 0.0 | 0.0 | 0 | |
| 05/11 | 56.3 | >min | | | 0.0 | 0.0 | 0 | |
| 05/12 | 46.0 | >min | 0.23 | 6.0 | 0.0 | 0.0 | 0 | |
| 05/13 | 65.7 | >min | | | 0.0 | 0.0 | 0 | |
| 05/14 | 73.7 | >min | 0.32 | 5.0 | 2.0 | 0.0 | 1 | Possible Infection |
| 05/15 | 68.3 | >min | 0.11 | 2.0 | 0.8 | 0.0 | 1 | Possible Infection |
| 05/16 | 69.9 | >min | | | 0.0 | 0.0 | 0 | |
| 05/17 | 74.3 | >min | | | 0.0 | 0.0 | 0 | |
| 05/18 | 54.3 | >min | 0.78 | 14.3 | 6.5 | 0.0 | 1 | Possible Infection |
| 05/19 | 57.9 | >min | 0.16 | 14.5 | 14.3 | 0.0 | 1 | Possible Infection |
| 05/20 | 78.6 | >min | 0.01 | 7.5 | 8.0 | 0.0 | 1 | Possible Infection |
| 05/21 | 82.8 | >min | | 3.8 | 0.0 | 0.0 | 0 | |
| 05/22 | 73.2 | >min | | 4.5 | 0.0 | 0.0 | 0 | |
| 05/23 | 73.3 | >min | | 12.0 | 11.3 | 0.0 | 1 | Possible Infection |
| 05/24 | 78.1 | >min | | 10.5 | 6.8 | 0.0 | 1 | Possible Infection |
| 05/25 | 84.0 | >min | | 6.0 | 6.5 | 0.0 | 1 | Possible Infection |

Colchester 2010 Powdery Mildew - Grape From 2010-05-06 To 2010-05-25

| Date | Temperature High | Temperature Mean | Hours 70-85 | Hours >95 | Wet Hours | Ascospore Infection | Conidial Index |
|-------|------------------|------------------|-------------|-----------|-----------|---------------------|----------------|
| 05/06 | 77.0 | 63.6 | 6.0 | 0.0 | 3.0 | | |
| 05/07 | 70.8 | 57.7 | 0.5 | 0.0 | 0.0 | | |
| 05/08 | 71.2 | 57.4 | 1.3 | 0.0 | 5.8 | | |
| 05/09 | 52.7 | 44.7 | 0.0 | 0.0 | 0.0 | | |
| 05/10 | 55.9 | 46.1 | 0.0 | 0.0 | 0.0 | | |
| 05/11 | 56.3 | 45.4 | 0.0 | 0.0 | 0.0 | | |
| 05/12 | 46.0 | 43.3 | 0.0 | 0.0 | 15.0 | | |
| 05/13 | 65.7 | 51.5 | 0.0 | 0.0 | 6.0 | | |
| 05/14 | 73.7 | 58.7 | 4.3 | 0.0 | 4.8 | | |
| 05/15 | 68.3 | 61.2 | 0.0 | 0.0 | 2.0 | | |
| 05/16 | 69.9 | 58.3 | 0.0 | 0.0 | 0.0 | | |
| 05/17 | 74.3 | 59.8 | 6.0 | 0.0 | 0.0 | | |
| 05/18 | 54.3 | 49.4 | 0.0 | 0.0 | 13.8 | | |
| 05/19 | 57.9 | 52.3 | 0.0 | 0.0 | 14.5 | Heavy | |
| 05/20 | 78.6 | 63.8 | 8.0 | 0.0 | 7.3 | Heavy | |
| 05/21 | 82.8 | 66.0 | 8.8 | 0.0 | 3.5 | | |
| 05/22 | 73.2 | 61.0 | 5.8 | 0.0 | 4.5 | | |
| 05/23 | 73.3 | 63.7 | 5.0 | 0.0 | 11.8 | | |
| 05/24 | 78.1 | 66.5 | 9.8 | 0.0 | 10.3 | | |
| 05/25 | 84.0 | 69.4 | 11.3 | 0.0 | 6.0 | | |

Leaf Wetness Sensor Parameters:

Base Temperature 0.0
 Upper Temperature 100.0
 Wetness Threshold 6.0

Colchester 2010 Phomopsis Cane+Leaf Spot - Grape From 2010-05-06 To 2010-05-25

| Date | Temp Mean | Wet Hours | Rain-Fall | Wet+Rain | Wet Temp | Disease Intensity Catawba | Disease Intensity Seyval |
|-------|-----------|-----------|-----------|----------|----------|---------------------------|--------------------------|
| 05/06 | 63.6 | 3.8 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 05/07 | 57.7 | 0.0 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 05/08 | 57.4 | 8.0 | 0.13 | 7.3 | 54.7 | 22 Light | 36 Moderate |
| 05/09 | 44.7 | 0.0 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 05/10 | 46.1 | 0.0 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 05/11 | 45.4 | 0.0 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 05/12 | 43.3 | 14.8 | 0.23 | 7.3 | 41.5 | 0 Light | 0 Light |
| 05/13 | 51.5 | 0.0 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 05/14 | 58.7 | 6.8 | 0.32 | 5.3 | 46.8 | 4 Light | 9 Light |
| 05/15 | 61.2 | 2.3 | 0.11 | 2.0 | 60.7 | 4 Light | 13 Light |
| 05/16 | 58.3 | 0.0 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 05/17 | 59.8 | 0.0 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 05/18 | 49.4 | 14.5 | 0.78 | 12.0 | 48.5 | 21 Light | 31 Moderate |
| 05/19 | 52.3 | 14.5 | 0.16 | 24.8 | 49.2 | 68 Moderate | 73 Moderate |
| 05/20 | 63.8 | 7.5 | 0.01 | 11.3 | 52.3 | 33 Moderate | 47 Moderate |
| 05/21 | 66.0 | 4.3 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 05/22 | 61.0 | 5.5 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 05/23 | 63.7 | 12.3 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 05/24 | 66.5 | 11.0 | 0.00 | 0.0 | 0.0 | 0 | 0 |
| 05/25 | 69.4 | 6.0 | 0.00 | 0.0 | 0.0 | 0 | 0 |

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