# Disease Infection Periods during Spring 2014

| Date | Hrs Wet[1] | Ave Temp. ($^o$F) | Apple Scab[2] | Pear Scab[3] | Cherry Leaf Spot[4] | Brown Rot Blossom Blight[6] | Mummy Berry[7] | Grape Powdery Mildew[5] | Notes |
|------|------|------|------|------|------|------|------|------|-------|
| 10 Mar | 8 | 48.5 | -- | -- | -- | -- | H | | Blueberry Floral Bud Break |
| 14 Mar | 10 | 50 | -- | -- | -- | -- | H | | |
| 16 Mar | 13 | 42 | -- | ? (--) | ? (--) | -- | H | | Braeburn Green Tip |
| 25 Mar | 51.5 | 48 | H | + | H | ? | H | | Corum Popcorn |
| 27 Mar | 45.5 | 49.5 | H | + | H | + | H | | Corum Full Bloom |
| 29 Mar | 21 | 47 | L | + | -- | -- | H | | Bing Popcorn |
| 31 Mar | 21.5 | 45 | L | -- | -- | -- | H | | Pear White Bud, Bing Full Bloom |
| 1 Apr | 16 | 43 | -- | ? (--) | -- | -- | H | | Braeburn Tight cluster |
| 4 Apr | 8 | 46 | -- | -- | -- | -- | M | | Blueberry 1st bloom |
| 5 Apr | 16.5 | 52 | L | + | L | + | H | | Cherry petal fall |
| 17 Apr | 34 | 48 | H | + | M | + | H | | Bing Shuck Split |
| 21 Apr | 17.5 | 48 | L | -- | -- | | | M | Blueberry full bloom |
| 22 Apr | 34.5 | 50 | H | + | M | | | S | Braeburn petal fall |
| 24 Apr | 17 | 46 | L | -- | -- | | | M | Hail |
| 26 Apr | 19 | 46 | L | -- | -- | | | M | |
| 3 May | 16 | 52 | L | + | L | | | M | |
| 8 May | 48.5 | 51 | H | + | H | | | S | |
| 18 May | 15 | 54 | L | + | L | | | M | |
| 12 Jun | | | | | | | | | Grape bloom |
| 25 Jun | 18 | 62 | H | + | M | | | S | Blueberry harvest |
| 26 Jun | 10 | 60 | L | -- | L | | | M | Grape fruit set |

1   Wet hours begin with rain and end with 8 hours drying time.  Monitored with an Adcon weather station; however, calculations for infection period done by hand.

2   High = high infection period, Med = moderate infection period, Low = low infection period, -- = no infection period based on an ascospore model.

3   Pear scab infection periods according to Spotts.  + = conditions were right for a minimal infection period. -- = no infection period identified.

4   High = high infection period, Med = moderate infection period, Low = low infection period, -- = no infection period, + = possible infection.  Infection periods based on model from Michigan.  ? = unknown infection period since the model has no information for temperatures below 46$^o$ F.

5   Infection periods based on ascospore release and infection from the Gubler-Thomas (UC-Davis) grape powdery mildew forecasting program.

6   Infection periods based on Brown Rot Blossom Blight Risk Model, Luo, Morgan and Michailides 2001, Phytopathology 91:759-768

7   Infection periods based on Risk of mummy berry infection, Hildebrand and Braun, 1991, Canadian Journal of Plant Pathology 13:232-240