



Code-A-Phone Message for 8/7/2009.

The following information is intended for commercial fruit growers only and is brought to you by Colorado State University Research Center and Extension staff. It is current as of Aug. 7th, 2009. Backyard and homeowner information is available by dialing 244-1706.

1. **Crop development:** Peach harvest is in progress and harvest is fast approaching for Gala apples and pears. Growers need to check preharvest intervals on any sprays being considered and allow sufficient time between sprays and harvest.

2. **Insect pests:** Growers really need to have insect traps in their own orchards to gain the best understanding of pest populations and timings for their orchard. Biofix for the 3rd generation of Codling moth (CM) in Mesa County was about July 30th - Aug. 1st. In Delta & Montrose Co's., 2nd generation of codling moth biofix was about July 8th - 15th. A third generation biofix for peach twig borer (PTB) in Mesa County could have occurred about Aug. 5th; growers need to monitor PTB populations in their own orchards to determine if a 3rd generation spray is needed in late August. In Delta and Montrose counties, 2nd generation PTB biofix was about July 19th - 21st.

Spray dates: Crown Borer protection should be maintained on stone fruit trees in all three counties.

For Mesa Co.: The 3rd generation CM cover spray date for insect growth regulator (or IGR) materials like Intrepid was Aug. 5th - 6th (150 DD's) & Aug. 12th - 13th for standard insecticide sprays like Imidan (250 DD's post-biofix). PTB - 2nd generation spray should have been applied July 20th - 24th.

For Delta / Montrose Co's: At Rogers Mesa, the 2nd generation CM cover spray dates using IGR's were July 14th - 15th (150 DD's) & July 23rd - 24th using standard insecticide sprays (250 DD's post biofix). Second generation PTB sprays in Delta / Montrose counties are projected for Aug. 8th - 15th (depending on elevation).

[DD accumulations as of 8/7/2009 (since March 1 unless noted otherwise): WCRC-OM – 2116 CM DD's since biofix, 1812 PTB DD's since biofix, & 3472 WCFF DD's; WCRC-RM – 1502 CM DD's & 1251 PTB DD's since biofix, 2755 WCFF DD's; Cedaredge – 1324 CM & 1118 PTB DD's since calculated biofix, 2486 WCFF DD's.]

3. **Fruit diseases:** Preventative treatment for Coryneum prior to any forecasted extended wet weather periods is strongly recommended for peaches approaching harvest within two weeks after such a weather event. Remember, captan has a 4 day re-entry period.

Dr. Pokharel is still looking for orchards with cherry rasp leaf virus (CRLV) infections and with multiple crop types (e.g., cherries + interplanted or adjacent apricot, plum, tart cherry, apple, &/or pear). He would like to collect tissue samples to test for CRLV to verify the virus host range. Contact him by phone at: (970) 434-3264, x-203 or by email at: Ramesh.Pokharel@Colostate.edu .

4. **Grape growers:** Grapes are approaching veraison and time to implement bird protection. A final powdery mildew fungicide spray should be applied before netting is applied to insure good spray penetration into the canopy. Do NOT to apply strobilurins, DMI's, or Pristine for the final two sprays of the season to avoid resistance. Also, 30 - 50% veraison is the final window to collect leaves for nutrient analysis. See the websites of leaf analysis laboratories like A&L Labs West for instructions and forms.

If you have any questions or need more information regarding these subjects, call the Extension office at 244-1834 or the Western Colorado Research Center - Orchard Mesa at 434-3264. This concludes the

message for Aug. 7th, 2009. Thank you.

Code-A-Phone Message for 7/17/2009.

The following information is intended for commercial fruit growers only and is brought to you by Colorado State University Research Center and Extension staff. It is current as of July 17th, 2009. Backyard and homeowner information is available by dialing 244-1706.

1. **Crop development:** Peach harvest has begun with early peach varieties being picked. Ripening will be pushed along with our current hot weather. Flower bud formation for next season has begun and will continue into August; trees that experience strong drought stress during flower initiation will tend to have increased numbers of fruit doubles / triples , etc. next year. So be careful not to stress your trees between now and Sept.

2. **Insect pests:** Growers really need to have insect traps in their own orchards to gain the best understanding of pest populations and timings for their orchard. Biofix for the 3rd generation of Codling moth (CM) in Mesa County is expected about July 24th. In Delta & Montrose Co's., 2nd generation of codling moth biofix was about July 8th - 11th . Peachtree borer (crown borer) flights began about June 27 - 29th in Mesa Co. and are now underway across all three counties. Second generation peach twig borer (PTB) flights in Mesa County have been very sporadic so far; based on trap catch data, I have settled on a July 9th biofix date. In Delta and Montrose counties, 1st generation PTB emergence and egg hatch are now at 100%; so PTB trap catches should pick up again with 2nd generation flight about July 19th - 21st. W. Cherry Fruit Fly (WCFF) control should be continued as long as cherry fruit remains on trees in orchards where they have been found.

Spray dates: Crown Borer protection should be in place now – mating disruptors should be out and trunk sprays applied in all three counties.

For Mesa Co.: The 2nd generation CM cover spray date for insect growth regulator (or IGR) materials like Intrepid was June 28 -30th (150 DD's) & July 2 - 5th for standard insecticide sprays like Imidan (250 DD's post-biofix). PTB - 2nd generation spray is projected for July 20 - 27th; growers with high or unknown PTB moth catches might be best served to use the earlier date.

For Delta / Montrose Co's: At Rogers Mesa, the 2nd generation CM cover spray using IGR's is projected for July 14-15 (150 DD's) & for July 18-24 using standard insecticide sprays (250 DD's post biofix). First generation PTB sprays in Delta / Montrose counties should have been applied between June 24 and July 2 (depending on elevation).

[DD accumulations as of 7/17/2009 (since March 1 unless noted otherwise): WCRC-OM – 1537 CM DD's since biofix, 1233 PTB DD's since biofix, & 2685 WCFF DD's; WCRC-RM – 1060 CM DD's & 809 PTB DD's since biofix, 2120 WCFF DD's; Cedaredge – 1015 CM & 830 PTB DD's since calculated biofix, 2118 WCFF DD's.]

3. **Fruit diseases:** The return of more normal hot dry weather this week has shut down further infection risk for Coryneum blight (shothole), bacterial canker, and powdery mildew on fruit trees. However, watch for forecasts of any extended wet weather periods. Preventative treatment for Coryneum prior to such wet weather periods is strongly recommended for peaches approaching harvest within two weeks after such a weather event. Remember, captan has a 4 day re-entry period.

Dr. Pokharel is still looking for orchards with cherry rasp leaf virus (CRLV) infections and with multiple crop types (e.g., cherries + interplanted or adjacent apricot, plum, tart cherry, apple, &/or pear). He would like to collect tissue samples to test for CRLV to verify the virus host range. Contact him by phone at: (970) 434-3264, x-203 or by email at: Ramesh.Pokharel@Colostate.edu .

4. **Grape growers:** Grape powdery mildew finally has been found in Mesa Co.; a systemic fungicide spray

including a summer oil should be applied as soon as possible where mildew is present. Remember that growing vine shoot tips will produce several new unprotected leaves each week. Also remember to rotate mildewcide chemistry through the season to minimize risk of developing resistance and plan NOT to apply strobilurins, DMI's, or Pristine for the final two sprays of the season to avoid resistance.

If you have any questions or need more information regarding these subjects, call the Extension office at 244-1834 or the Western Colorado Research Center - Orchard Mesa at 434-3264. This concludes the message for July 17th, 2009. Thank you.

Code-A-Phone Message for 7/9/2009.

The following information is intended for commercial fruit growers only and is brought to you by Colorado State University Research Center and Extension staff. It is current as of July 9th, 2009. Backyard and homeowner information is available by dialing 244-1706.

1. **Crop development:** Peach harvest has begun with early peach varieties being picked. Ripening will be pushed along with our current hot weather. Flower bud formation for next season will begin within the next week or so and continue into August; trees that experience strong drought stress during flower initiation will tend to have increased numbers of fruit doubles / triples, etc. next year. So be careful not to stress your trees between now and Sept.

2. **Insect pests:** Growers really need to have insect traps in their own orchards to gain the best understanding of pest populations and timings for their orchard. Biofix for the 2nd generation of Codling moth (CM) in Mesa County occurred June 22nd. In Delta & Montrose Co's., 2nd generation of codling moth biofix is expected about July 8th - 11th. Peachtree borer (crown borer) flights began about June 27 - 29th in Mesa Co. and are now underway across all three counties. Second generation peach twig borer (PTB) flights in Mesa County appear to have begun about July 7th - 8th. In Delta and Montrose counties, 1st generation PTB emergence is at 100% and egg hatch at ~ 92%; so PTB trap catches should drop off until 2nd generation emergence around July 19th - 21st. W. Cherry Fruit Fly (WCFF) control should be continued as long as cherry fruit remains on trees in orchards where they have been found.

Spray dates: Crown Borer protection should be in place now – mating disruptors should be out and trunk sprays applied in all three counties.

For Mesa Co.: The 2nd generation CM cover spray date for insect growth regulator (or IGR) materials like Intrepid was June 28 -30th (150 DD's) & July 2 - 5th for standard insecticide sprays like Imidan (250 DD's post-biofix). PTB - 2nd generation spray is projected for July 20 - 27th.

For Delta / Montrose Co's: At Rogers Mesa, the 2nd generation CM cover spray using IGR's is projected for July 15-16 (150 DD's) & for July 19-24 using standard insecticide sprays (250 DD's post biofix). First generation PTB sprays in Delta / Montrose counties should have been applied between June 24 and July 2 (depending on elevation).

[DD accumulations as of 7/9/2009 (since March 1 unless noted otherwise): WCRC-OM – 1313 CM DD's since biofix, 1009 PTB DD's since biofix, & 2382 WCFF DD's; WCRC-RM – 882 CM DD's & 631 PTB DD's since biofix, 1781 WCFF DD's; Cedaredge – 837 CM & 652 PTB DD's since calculated biofix, 1868 WCFF DD's.]

3. **Fruit diseases:** The return of more normal hot dry weather this week has shut down further infection risk for Coryneum blight (shothole), bacterial canker, and powdery mildew on fruit trees. However, watch for forecasts of any extended wet weather periods. Preventative treatment for Coryneum prior to such wet weather periods is strongly recommended for peaches approaching harvest within two weeks

after such a weather event. Remember, captan has a 4 day re-entry period.

Dr. Pokharel is still looking for orchards with cherry rasp leaf virus (CRLV) infections and with multiple crop types (e.g., cherries + interplanted or adjacent apricot, plum, tart cherry, apple, &/or pear). He would like to collect tissue samples to test for CRLV to verify the virus host range. Contact him by phone at: (970) 434-3264, x-203 or by email at: Ramesh.Pokharel@Colostate.edu .

4. **Grape growers:** Grape powdery mildew finally has been found in Mesa Co.; a systemic fungicide spray including a summer oil should be applied as soon as possible where mildew is present. Remember that growing vine shoot tips will produce several new unprotected leaves each week. Also remember to rotate mildewicide chemistry through the season to minimize risk of developing resistance and plan NOT to apply strobilurins, DMI's, or Pristine for the final two sprays of the season to avoid resistance.

If you have any questions or need more information regarding these subjects, call the Extension office at 244-1834 or the Western Colorado Research Center - Orchard Mesa at 434-3264. This concludes the message for July 9th, 2009. Thank you.

Code-A-Phone Message for 7/3/2009.

The following information is intended for commercial fruit growers only and is brought to you by Colorado State University Research Center and Extension staff. It is current as of July 3rd, 2009. Backyard and homeowner information is available by dialing 244-1706.

1. **Crop development:** Early peach varieties look to reach harvest this coming week. Red Haven peach harvest is still projected for approximately the last week in July.

2. **Insect pests:** Biofix for the 2nd generation of Codling moth (CM) in Mesa County occurred June 22nd. In Delta & Montrose Co's., 2nd generation of codling moth biofix is expected about July 8th - 11th. Peachtree borer (crown borer) flights began about June 27 - 29th in Mesa Co. and are now underway across all three counties. Peach twig borer (PTB) in Mesa County should reach 2nd generation biofix about July 3 - July 6. In Delta and Montrose counties, 1st generation PTB emergence should be at 100% and egg hatch at 70 - 75%; so PTB trap catches should start to wind down until 2nd generation emergence around July 18th. W. Cherry Fruit Fly (WCFF) control treatments need to continue as long as cherry fruit remains on trees in orchards where they have been found.

Spray dates: Crown Borer protection should be started now – mating disruptors should be out now and trunk sprays applied as soon as possible in all three counties.

For Mesa Co.: The 2nd generation CM cover spray date for insect growth regulator (or IGR) materials like Intrepid was June 28 -30th (150 DD's) & is July 2 - 5th for standard insecticide sprays like Imidan (250 DD's post-biofix). PTB - 2nd generation spray is projected for July 20 - 27th.

For Delta / Montrose Co's: At Rogers Mesa, the 2nd generation CM cover spray using IGR's is projected for 7/17-19 (150 DD's) & for 7/22-24 using standard insecticide sprays (250 DD's post biofix). First generation PTB sprays in Delta / Montrose counties should have been applied between June 24 and July 2 (depending on elevation).

[DD accumulations as of 7/3/2009 (since March 1 unless noted otherwise): WCRC-OM – 1155 CM DD's since biofix, 851 PTB DD's since biofix, & 2168 WCFF DD's; WCRC-RM – 776 CM DD's & 525 PTB DD's since biofix, 1708 WCFF DD's; Cedaredge – 721 CM & 536 PTB DD's since calculated biofix, 1699 WCFF DD's.]

3. **Fruit diseases:** The return of more normal hot dry weather this next week should shut down further

infection risk for *Coryneum* blight (shothole), bacterial canker, and powdery mildew on fruit trees. However, with early varieties of peaches starting to ripen, keep an eye on the weather forecast for any extended wet weather periods anticipated. Pre-harvest fruit infections by *Coryneum* blight that are active when the fruit is picked can continue to grow when the fruit is kept in cold storage and cause sunken fruit rot. Preventative treatments prior to such wet weather periods is strongly recommended for peaches approaching harvest within two weeks after such a weather event. Remember, captan has a 4 day re-entry period (effectively making a 4 day pre-harvest interval).

4. **Grape growers:** Surprisingly, very little grape powdery mildew has been found so far this season, but growers need to continue to monitor their plantings in order to catch infections early. Remember that vine shoot tips will produce several new leaves each week that are not protected by prior sprays. Also remember to rotate mildewcide chemistry through the season to minimize risk of developing resistance and do NOT apply strobilurins, DMI's, or Pristine for the final two sprays of the season to avoid resistance.

If you have any questions or need more information regarding these subjects, call the Extension office at 244-1834 or the Western Colorado Research Center - Orchard Mesa at 434-3264. This concludes the message for July 3rd, 2009. Thank you.

