

Small Fruit Update



Providing Northwest berry growers with the information they need when they need it.

The Small Fruit Update is sent out weekly during the growing season by [Peerbolt Crop Management](#) and is funded entirely by the Northwest berry growers and industry through their commissions and councils.

July 25, 2012

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National Berry Industry Reports from The Packer (7/20):

- [Supplies of quality fruit remain strong, growers say](#)
- [Growers fear possibility of skilled labor shortage](#)
- [Organic category continues to see steady growth](#)
- (Cal) [Strawberries could reach record year for volume](#)

[US exporting first fresh blueberries to South Korea](#) (7/19, Fresh Fruit Portal)

[The Weather Cafe](#) by Rufus La Lone [Small Fruit Cold Storage Report](#)

George Thoeny, longtime Woodland, Washington farmer passes away at 81.

George was one of the first growers I met when I started working with berries 20 years ago. I can't imagine the Woodland Bottoms growing area without him. Erin, George's daughter, quotes George as saying, "When they nail the lid shut on the coffin, that's when I'll retire."

Tom Peerbolt

[Click here](#) for George's obituary

Services will be held at the Woodland Presbyterian Church, 756 Park Street, Woodland, WA at 2:00 p.m. on Monday, July 30th. In lieu of flowers, the family is asking that donations be made to Woodland High School and specified for the FFA Horticulture program.

SWD Alert

[Click here](#) to go directly to the full SWD report below.

7-24-12 Spotted Wing Drosophila, all berries

In the southern growing areas (and maybe some in the north) we're into the critical stage when the risk of economic losses from this pest greatly increases.

Disseminating information for:

Washington

[Washington Red Raspberry Commission](#)
[Washington Blueberry Commission](#)
[Washington Strawberry Commission](#)

Oregon

[Oregon Raspberry and Blackberry Commission](#)
[Oregon Blueberry Commission](#)
[Oregon Strawberry Commission](#)

British Columbia

[Fraser Valley Strawberry Growers Association](#)
[Raspberry Industry Development Council](#)
[B.C. Blueberry Council](#)

National

[North American Blueberry Council](#)

- In the last two years we've seen increases of up to 300% in trap catches just about at this point of the season.
- It seems we're running at least a week ahead of last year and we've recorded a big increase again over this past week.
- Young, just emerged, females are showing up in many traps indicating we're into another generation.
- Most of the trap increase the past two years in the Oregon and SW Washington survey have come in raspberry and blackberry fields, but the increase is seen across the board.
- Raspberry and blackberry larval infestations have been found although so far at low levels in commercial fields.
- Blueberry fields with ripe fruit have seen a big increase in adult trap counts and as of yesterday (7/24) there is a confirmed report of a larval infestation in a commercial blueberry field. It's a mature field with thick growth and overhead irrigation that can greatly decrease the residual activity of insecticides.
- 2010, 2011 and now 2012 data indicates that there is a very real correlation to this increase in adult trap catches and an actual increase in larval infestation of the fruit.
- Insecticide spray intervals will need to be shortened in order to maintain an equivalent level of control as was achieved earlier in the season.
- Be prepared. Be conservative and pro-active. If you or your neighbors had SWD pressure last year, expect higher pressure this year. Take all reasonable precautions to minimize the risk this insect poses to your crop.

Regional Reports

These reports are from individuals within the region and are their particular observations. They are included to give an impression of the present 'state of the industry' and regional activities.

British Columbia, Fraser Valley (Monday, 7/23)

- **Blueberries:** Dukes are well into hand-picking with weather impacting the days' activities. Fruit quality looks very good. But we really need some sunny warm, weather to bring it on for machines. These intermittent rain events are making us nervous.
- **Raspberries:** Rain again is making raspberry harvest difficult. Friday rains were heavy and again all night Sunday (22nd into Monday 23rd). As if that's not enough, add increasing mite activity and climbing SWD counts into the mix. One of the most difficult harvests I can recall.

Northern Washington, Whatcom County (Thursday, 7/19)

- **SWD:** I'm finding the yeast/sugar/water trap bait MUCH more effective than apple cider vinegar in catching SWD. However, I'm not sure how long it lasts and how often we need to replace/recharge it?
- **Blueberries:** Blueberries trying to ripen before the birds get them, falcons and kestrels and cannons and distress calls and more being used. USDA trapper catching 7000+ starlings per week in Whatcom.
- **Raspberries:** Raspberry harvest well underway, still fighting the mold. Mites just won't go away. Slugs and snails and weevils like the bushes too.
- **Strawberries:** Strawberry renovation in progress.

Northern Washington, Skagit County (Friday, 7/20)

(This report is from Tom Walters, WSU small fruit horticulturist)

- **Raspberries:** Lots of spot mold. Skagit just got into IQF yesterday, now rain overnight and thunderstorms this morning have set everything back again.
- **Blueberries:** Now harvesting Duke and Bluecrop, quality looks good so far
- **Strawberries:** Day neutrals went through some bronzing immediately following the switch to sunny weather, but are not coming on with higher yields of clean fruit. Seascape and Albion are most productive, with San Andreas lagging behind. Verticillium symptoms showing up now, too.

Northern Washington, Skagit County (Monday, 7/23)

Skagit Valley is suffering same wet conditions.

- **Raspberries:** Raspberries never got into IQF quality for long and we'll go back into clean-up mode into drums tomorrow and see how it looks afterwards.
- **Blueberries:** Hand harvest fresh blues ramping up, good quality so far. Aerial applications for S.W.D. quite effective based on trap count results using yeast/vinegar bait. Weeds getting away in organic blocks as picking is tying up available labor. Giving new "AXE" material a trial in blues via spot spraying as we can't get spray rigs in blues now.

- **Blackberries:** Machining some organic blacks, grey mold creeping into the blocks that were clean up to now.
- **Strawberries:** Strawberries finished up Friday for most part, still some Albion's trickling in fresh from the tunnels.

Willamette Valley, Oregon and SW Washington

- **Blackberries, processed:** (Tuesday, 7/24) We're past the peak in Marions but there's still a steady amount of good quality fruit coming in. Picking weather is just about perfect. Overall crop size could be about the same as last year. Pretty much got by the leafroller issues. Most of what we're getting is IQF-able. Price is holding as well. Black Diamond looks good also.
- **Blackberries, fresh:** (Tuesday, 7/24) We're just finishing up picking Onyx. One of our growers says he thinks he'll be picking Chesters next week. Seem a little early. We'll see.

Willamette Valley, Oregon and SW Washington

- **Blueberries** (Tuesday, 7/24) (First report) We're continuing to get very firm fruit that's allowing us to ship fresh some varieties we normally wouldn't. We're into the second picks of Bluecrop and Draper. Draper has given us some problems with inconsistent berry size. We're doing to the first pick of Legacy. The Liberty crop looks light with fruit clusters that have only 4 or 5 berries when they'd normally have 8. Don't know why. Given the 30% shock infection also will leave it very light. Aurora is looking just beautiful right now. Dust abatement has become a full time job.
- **Blueberries** (Tuesday, 7/24) (Second report) Thank you for the decent weather! It make things a whole lot easier—I hope the guys up north can get out of the wet weather soon. Our overall quality has been excellent. Bluecrop has been a little hit and miss with some fields having soft fruit. Draper is in the second pick and Legacy in the first. Both with good quality. The first round of Liberty will start later this week. The fruit ripened fast. We're into record setting daily volumes right now.

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Event Calendar

For more comprehensive event calendar, [click here](#).

- **August 3 and 4 — Mossyrock Blueberry Festival, Mossyrock, WA.** [Click here](#) for the website.
- **August 4 — Cloverdale Blueberry Festival, Cloverdale, B.C.** [Click here](#) for the website.
- **August 17 — Sutherlin Blackberry Festival, Sutherlin, OR.** [Click here](#) for the website.
- **August 23—USDA-ARS Blueberry Field Day** ~ 1-4 PM Lewis-Brown Horticultural Research Farm, 33447 DE Peoria Road, Corvallis, OR [Click here](#) for details. For more information, call David Bryla 541-738-4094 or email Dave at david.bryla@ars.usda.gov

Crop Management Related Information

- [OSU seeks grower help in finding stink bug](#) (7/17, Capital Press)
- [Recognizing drought symptoms in blueberries](#) (7/19, MSU Extension)
- [Control of pre- and post-harvest fruit rots in blueberries](#) (7/26/11, MSU Extension)

Pest Management Pesticide Information

- **Miticides for raspberries and blackberries**
From Joe DeFrancesco, OSU small fruit pesticide specialist: "With so many registered miticides for caneberries, I put together a product chart with pertinent information to help growers decide which one to use." [Click here](#) for Joe's caneberry miticide chart.
- [Superweeds resistant to herbicide and plant disease](#) (7/18, Western Farm Press)
- [Methyl Bromide vital to farmers](#) (7/20, Western Farm Press)

Pest Management Activities

- **Scout for and treat as needed:** [Yellow rust](#) raspberries
- **Scout for and treat as needed:** [Aphids](#) northern raspberries

- **Scout for and evaluate if management action is needed: [Twospotted mites](#) raspberries**
- **Scout for and treat as needed: [Aphids/Scorch Virus](#) B.C. Blueberries** –vector (aphid) management
- *From the B.C. Pest Alert: “Blueberry Scorch Virus is transmitted by aphids. An effective aphid control program should be used by all growers.” You can email the B.C. Blueberry Council’s research coordinator, [Karina Sakalauskas](#), for further information on testing and/or disease management.*
- **Scout for and determine if management actions are needed: Root Weevil adults, all crops [Black Vine](#), [Rough Strawberry](#), [Strawberry Root Weevils](#).**
- **Time for preventative fungicide applications: [Alternaria Fruit Rot](#) blueberries**
- Alternaria can infect the fruit beginning at the end of bloom and throughout the fruit development stage, up until harvest. ([Click here for expanded view of this disease.](#))
- **Time for preventative fungicide applications: [Anthracnose Ripe Rot](#) blueberries**
- After harvest, spore masses form rapidly on infected fruit when in cellophane-covered baskets or in plastic clamshell packs. ([Click here for expanded view of this disease.](#))
- **Scout for and determine if management actions are needed: [Orange Tortrix Leafrollers](#), raspberries and blackberries (SW Washington and Oregon)** –The larval hatch that, before SWD, caused our major crop contaminant problems is ongoing in area caneberry fields with very small leafroller larvae being found in some fields.
- **Scout for: [Mummyberry](#) blueberries [Mummyberry primer from MSU](#)**
 - Infected fruit is now becoming easy to distinguish from healthy fruit in some Oregon fields.
 - The infected fruit colors earlier, shrivels, whitens and drops from the bushes easily when disturbed.
 - Right now this fruit could be mistaken for green berry botrytis infected fruit.
 - The inside of an infected berry will be filled with white fungal mycelium.
 - Sort out and remove from field as much of the infected fruit as possible.
 - During harvest evaluate the level of Mummyberry infections and the areas of the field that are infected.
 - Use this yearly Mummyberry information to assess and plan next year’s Mummyberry prevention program.

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Spotted Wing Drosophila Update for 7-24-12

This Update is a collective effort. It is composed by Peerbolt Crop Management with contributions from OSU, USDA-ARS, WSU, B.C. Ministry of Agriculture and various Northwest berry industry people.

SWD Information Websites

[Peerbolt Crop Management](#)

[Oregon State Univ.](#)

[B.C. Ministry of Ag.](#)

[WSU Westside](#)

[WSU Eastside](#)

Advisory for all growers/all crops

- While monitoring traps give us some useful information on SWD populations and indications of potential overall crop risks, it is strongly advised to not make management decisions solely on monitoring trap numbers. *This monitoring system is not reliable enough to be able to do that.*
- Management decisions for SWD should be based on:
 - The presence of fruit at a vulnerable stage (Coloring/ripening).
 - The best judgment and experience of the grower/ manager with the input of regional advisors familiar with local and (hopefully) field specific conditions.
- Using the [fruit monitoring/sampling procedures below](#) to aid in both assuring the grower and fruit buyers of the absence of infestation and/or discovering any infestations when they are still at low levels.

Regional SWD Reports

These reports are from individuals within the region and are their particular observations. They are included to give an impression of the present 'state of the industry' and regional activities.

- **British Columbia, Fraser Valley:** (Monday, 7/23) SWD trap counts are rising.
- **Northern Washington, Whatcom County:** (Thursday, 7/19) I'm finding the yeast/sugar/water trap bait MUCH more effective than apple cider vinegar in catching SWD. However, I'm not sure how long it lasts and how often we need to replace/recharge it?
- **Northern Washington, Skagit County:** (Monday, 7/23) Aerial applications for S.W.D. quite effective based on trap count results using yeast/vinegar bait.
- **Oregon, Willamette Valley:** (Tuesday, 7/23) Trap counts are rising in all the berry crops and we've recovered larvae from some caneberry fields. So far in blueberries we're seeing higher adult trap counts but haven't found any larvae in the fruit. As the ripening fruit hangs longer the odds of infestation will increase.

Regional Monitoring (South to North)

Oregon Public Scouting Program count for the week ending on 7/20

(Number of traps checked this period in the crop in parentheses).

This scouting program and reporting system are being funded by a USDA SCRI grant, and a Northwest Center for Small Fruits Research grant

Fruit sampling for Larvae: 47 salt water fruit tests were taken from these sites this week. Larvae were recovered from 1 blackberry field, 1 cherry orchard and 2 raspberry fields. All were under 5 larvae per test except for 1 raspberry field that had 45 larvae.

Adult Apple Cider Vinegar trapping results

- **Linn County:** Blackberries (7): 5 males/5 females. Black raspberries (2): no males/5 females. Blueberries (13): 1 male/5 females. Cherries (2): 63 males/25 females. Grapes (1): none. Plums (1): 1 male/1 female. Raspberries (3): 10 males/ 9 females. Strawberries (4): 2 males/2 females. Tayberries (1): 8 males/1 female. Wild Habitat (13): 103 males/79 females.
- **Polk County:** Blackberries (3): none.
- **Benton County:** Nectarines (1): 10 males/7 females. Peaches (2): 6 males/6 females.
- **Marion County:** Blackberries (3):38 males/5 females. Blueberries (9): 2 males/ 8 females. Cherries (4): 6 males/ 26 females. Raspberries (2): none. Strawberries (2): 1 male/no females.
- **Clackamas County:** Blackberries (4): 22 males/72 females. Blueberries (14):12 male/16 females. Honeysuckle (2): no males/1 female. Raspberries (2): 1 male/ 10 females. Strawberries (1): 1 male/ no females. Tayberries (1): none.
- **Yamhill County:** Blackberries (6): no males/1 female. Blueberries (2):no males/ 4 females. Cherries (6): 26 males/21 females.
- **Multnomah County:** Blackberries (7): 6 males/28 females. Blueberries (3): 3 males/ 5 females. Boysenberries (2): 2 males/ 1 female. Cherries (2): 16 males/28 females. Peach (1): no males/1 female. Raspberries (4): 1 male/ 3 females. Salmonberries (2): 1 male/ no females.

Southwest Washington Public Scouting Program for the week ending on 7/13

- **Clark/Cowlitz/Lewis Counties:** Blackberries (8): 19 males/20 females. Blueberries (11):3 males/ 5 females. Peaches (1): 2 males/1 female. Raspberries (15): 2 males/9 females.

Eastern Washington

- [Click here](#) for the WSU Eastern Washington SWD reporting site.
- **Latest report from the site--Friday, July 20:** "SWD in the Yakima/Tieton region: A positive catch was reported from the region today.."

Western Washington--WSU Extension Scouting Program

This scouting program and reporting system are being coordinated by Whatcom County Extension and funded in part by the Washington Red Raspberry Commission.

- [Click here](#) for the program's website.
- **From Colleen Burrows, program coordinator:** "We have finished trapping SWD, but on July 19, we found increased numbers in the traps."

- [Click here](#) for the July 16th Whatcom Ag Monthly Newsletter put out by WSU Whatcom County Extension and includes a summary of SWD trapping over the last three years with a degree day comparison.
- [Click here](#) to sign up for this newsletter and/or view past editions
- For more information contact Colleen Burrows at 360-676-6736 x 22 or cburrows@wsu.edu.

Columbia Gorge

Report from [Steve Castagnoli](#), OSU Hood River Extension

- **The latest report: July 21: “Spotted wing Drosophila (SWD) -Overall SWD trap catch this week was up substantially from the previous week, with 106 males and 112 females versus 24 and 43, respectively, the week before. Most of the SWD were in unmanaged hosts including home gardens, wild blackberries, and seedling cherries. The highest numbers were from traps near unmanaged cherries. Trap catch was widely distributed and included traps in the lower and upper Hood River Valley and the White Salmon Valley. This week several traps in commercial orchards had SWD.”**

Report from Lyn Long, OSU Wasco County Extension

- **The latest report: July 20: “Spotted wing Drosophila (SWD) - The populations are starting to build in both gardens and commercial orchards in the area. As we approach the late (cherry) season time period be careful not to let SWD populations in harvested blocks next to unharvested get out of control. It is this type of scenario that has caused problems in California where infested citrus orchards located next to cherry blocks have caused an infestation in harvested cherries. The least that you will want to do is to place a vinegar trap in your harvested block to monitor SWD populations..”**

British Columbia

- [Click here](#) for the July 18th Monitoring report for South Western British Columbia (Coast).
- *From that report:* “ 1 SWD fly was caught in raspberry field traps. None in blueberry field traps. Consider also that:
 - 18 SWD flies caught in another project, including hedgerow and field edge traps (108 traps in total),
 - SWD flies are emerging from wild salmonberry and red elderberry collected through June and July.
 - SWD is inhibited at temperatures over 30C.

SWD is ACTIVE NOW and SEARCHING FOR RIPE FRUIT.”

Guidelines for checking the fruit for SWD larvae

These suggestions are based on techniques that various public researchers and industry personnel have been developing over the past couple of years. If any of you have ideas for improvements to these protocols, please pass them along. We're all in this together.

Suggested methods:

For scouts/field checking ([We have created a video of this larvae-checking method.](#)):

1. Collect a sample of fruit to be tested (Strawberries: 25-30 per sample, Caneberries/blueberries: 75 per sample)
2. Put fruit in a gallon size sealable plastic bag.
3. Pour in enough of the salt water solution to allow the fruit to float (solution is: 1 cup of salt per gallon of water).
4. Mark bag with field code/date.
5. For a quick check in the field after a designated period of time (at least 15 minutes) holding the baggie up to light. This helps to see the larvae in the solution
6. For a more thorough examination, after a designated period of time (at least 15 minutes), pour the fruit and salt solution out into a shallow tray and use a piece of wire mesh screen to hold the fruit down making it easier to separate the larvae from the fruit.

For processors or fruit handling stations:

1. Collect a two pound sample of fruit to be tested.
2. Put the sample into a shallow tray and cover with the salt water solution (1 cup of salt per gallon of water).
3. After a designated period of time (at least 15 minutes) use a piece of wire mesh screen to hold the fruit down to make it easier to separate the larvae from the fruit.

SWD Management Resources

- [Managing spotted wing drosophila update](#) (7/2/12, Michigan State Extension)
- [Spotted Wing Drosophila \(SWD\) Management in B.C. Berry Crops](#)
- [The latest APHIS Map of where SWD is in the United States.](#)
- SWD pesticide options for Oregon and Washington berry crops.
 - Blueberries: [click here](#). Strawberries: [click here](#). Caneberries: [click here](#).
- [NC Spotted Wing Drosophila—General Information and resources](#)

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Industry News/Resources

Newsletters/ Berry Reports

- [BC Blueberry IPM Newsletter](#) (7/20) Weekly by Carolyn Teasdale, [ES Cropconsult](#). Sponsored by the BC Blueberry Council.
- [Whatcom Ag Monthly](#) (7/16) WSU Extension. Articles include: *Decline in red raspberries, birds in blueberries, and SWD Update.*
- [New Jersey Blueberry Bulletin](#) (7/16) Weekly by Gary Pavlis, Rutgers blueberry agent.
- [Michigan State Extension news for Blueberries](#) (7/20)
- [USHBC Bluespaper](#) newsletter for July
- [The Source](#) (7/18) Market reports from *The Produce News*
- [National Berry Report](#) A daily-updated fresh market statistics report on all berry types hosted and maintained by the California Strawberry Commission

Magazine compilations

- The Packer's Market scope: [blueberries](#) [blackberries](#) [raspberries](#) [strawberries](#)
Recent stories and fresh market pricing for the various berries from The Packer.
- Growing Produce: [recent berry articles](#)

Berry Research Blogs

- [Strawberries and Caneberries blog](#) by Mark Bolda, UC Davis Berry Extension Agent. **Recent entry: 7/11—2012 Monterey Bay Academy Field Day Announcement** *Reports on recent insect and disease research and observations in California.*
- [Team Rubus](#) by Gina Fernandez, North Carolina State Small Fruit Specialist. **Recent entry: 7/10—Florican fasciation summer updates** *Reports on issues in blackberries and raspberries from the Southeast.*
- [NC Small Fruit and Specialty Crop IPM](#) by Hannah Burrack, NCSU extension entomologist. **Recent entry: 7/1—Spotted wing drosophila in the city.**

Research

- [Food Science deserves a place at the table](#) (7/12, Nature) *An interview with Sonny Ramaswamy, present NIFA director.*
- [Research could shift industry health messages](#) (7/20, The Packer)

Labor

- [Farm Bureau working on guestworker plan](#) (7/20, Capital Press)
- (Webinar) [Federal immigration policy, uncertainty reigns](#) offered by United Fresh on July 24th. *Click on the link for more information and how to register*
- [Blueberry harvest underway, but where are the workers?](#) (7/24, Fresh Plaza)
- [USDA strives to improve housing for farmworkers](#) (7/20, Western Farm Press)

Farm Bill

- [GOP pressures Boehner on farm bill](#) (7/19, The Hill)
- [Farm bill causes all-out scramble](#) (7/25, Politico)

Politics of Farming

- [Food policy is food politics in election year](#) (7/17, Scripps News)
- [Perspectives: Our coming national food fight](#) (7/16, St George News)
- [Is the food industry under attack from an 'NGO/media complex'?](#) (7/19, Food Navigator)

GMO Crops

- [Stand-off looms over US plans to cut GMO crop oversight](#) (7/18, Reuters)

Technology

- [New tools aid harvest](#) (tree fruit industry) (7/19, Capital Press)

The West

- [Despite late start to season, sellers hopeful at Northwest Raspberry Festival](#) (7/21, Bellingham Journal)
- (Multimedia—photos) [2012 Northwest Raspberry Festival](#) (7/22, Bellingham Herald)

National

- [Impact of heat, drought and related problems on Michigan's blueberry and raspberry harvest](#) (7/18, Michigan State Extension)
- [Midwestern heat wave endangers Michigan's small fruit crops](#) (7/19, The Grower)
- [Summer berries business update](#) (7/20, The Packer)

International

- [U.S. blueberries still under increased scrutiny in Japan](#) (7/17, Capital Press)

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Additional, Ongoing Pest Management and IPM Information

Diseases

- [Phytophthora Root Rot](#) raspberries.
- [Shock virus](#), Blueberries.
- [Blackberry Rust](#) (Phragmidium Rust) Evergreen blackberries

Insects/Mites

- [Raspberry Beetle](#), northern raspberries.
- [Azalea Bark Scale](#), southern blueberries.
- [Blueberry Gall Midge](#), blueberries.
- [Strawberry Crown Moth](#) southern strawberries

Crop Work

All crops

- As fruit starts coloring and throughout harvest monitor fruit for SWD infestation and treat as needed.
- Can put out monitoring traps for adult Spotted wing drosophila.
- Weed management.

Blueberries

Harvest ongoing

- Plan for/Maintain bird damage management.
- Scout for Winter Moth/Spanworm and treat as needed.
- Scout for weevil notching on leaves and for adult weevils.
- Scout for leafroller larvae feeding.
- Stay on top of aphid management where Scorch virus transmission is an issue.
- Scout for virus symptoms and send in samples for testing as needed.
- Scout for Blueberry gall midge damage.
- After petal fall until harvest starts, can treat for Alternaria and anthracnose prevention if needed.
- Scout for berry symptoms like green fruit botrytis, hail damage, Mummyberry, etc.
- Can apply clean up insecticide just before harvest for crop contaminant management.
- Can apply SWD management insecticides.

Raspberries

Harvest ongoing

- Scout for weevils and treat as needed.
- (North) Scout for raspberry beetle feeding symptoms.

- Scout for virus symptoms and send in samples for testing as needed.
- Scout for fruit mold and treat as needed.
- Scout for yellow rust and assess treatment options.
- Scout for spider mites and treat as needed.
- Can apply SWD management insecticides.
- Scout for aphids and treat as needed.
- Scout for leafroller larvae.

Blackberries

Harvest ongoing

- Scout for leafroller larvae and treat as needed to prevent fruit contaminant problems.
- Scout for virus symptoms and send in samples for testing as needed.
- Can apply SWD management insecticides.
- Can apply clean up insecticide just before harvest for crop contaminant management.
- Scout for and treat as needed blackberry rust in Evergreen blackberries.
- Scout for two spotted spider mites and treat as needed in susceptible cultivars.
- Can apply horticultural oil for Redberry mite management at green fruit stage in susceptible cultivars.

Strawberries

Processed harvest finished throughout region. Fresh market harvest ongoing.

All strawberries

- Evaluate weak growing areas and check plants for weevil larvae, root rot and/or cold damage.
- (South) Can scout for Strawberry Crown Moth larvae and put out pheromone monitoring traps.
- Scout for weevil adults and notching.

Processed market-June bearers—finished harvesting

- [Weed Control at strawberry renovation](#) (6/26/12, Michigan State Extension)
- Treat post harvest for SWD if needed especially if field is in close proximity to other ripening berry/stone fruit crops.
- Mow and treat immediately for SCM/SWD if needed.
- Mow and renovate 2-4 weeks after harvest unless pest pressure require mowing and treating sooner.

Fresh market-still harvesting

- Scout for Lygus bugs
- Scout for fruit damage symptoms like cat facing, slug damage, anthracnose, etc.
- Monitor ripe and ripening fruit for SWD larvae.
- Can apply slug bait as needed.
- Scout for Powdery Mildew and treat as needed.
- Scout for Two Spotted Spider Mites and predatory, beneficial mites.
- Scout for aphids, lady beetles, aphid mummies (parasitized aphids), and other beneficial insects that feed on aphids.
- Scout for fruit quality issues such as mold.

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Archived Small Fruit Updates

(For older Updates [click here](#).)

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This document is a guide and not intended as a recommendation or endorsement.

Consult with your supplier, field representative, or pest consultant.
