

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.

May 7, 2013

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- [The Changing World of Food Traceability](#) (5/6, Food Safety News)

New Postings

- **May 22 — [Agriculture Employer Information Session](#)** ~ 4 – 6 pm, Chemeketa Community College, Woodburn Campus, 120 E Lincoln St, Woodburn, Contact Daniel Quinones at 503 378-8572 for more information.
- **May 28 & 29 — [Government Regulation Training](#)** ~ Manny Lopez, American Business League ~ 8:30-12 & 1-3:30 pm, Denny's Restaurant, 3155 Ryan Drive SE, Salem, [Click here](#) for May 28 meeting information. [Click here](#) for May 29 meeting information. [Click here](#) for online registration. Space limited to 25 at each session. \$200 registration fee.

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

I've been holding off on putting out a large amount of information on Spotted Wing Drosophila for this season. The industry has been inundated with information on this pest over the last three years and it feels like it's time to move beyond an atmosphere of crisis management and into rebuilding our integrated pest management plans incorporating SWD into our new realistic, IPM plans. I'll be getting out a special edition of the Small Fruit Update on SWD within the next couple of weeks. For now, the industry 'take home messages' from my perspective:

- *This pest is very responsive to any weather dynamics, primarily temperature but also relative humidity.*
- *This season follows a mild winter and is ahead in degree days from any of the previous three seasons we've had to deal with it.*
- *Monitoring information shows larger counts than any previous year right now but we're just really getting into monitoring in depth and for the new generations.*
- *The crop is also coming earlier—which actually works in our favor with SWD.*
- *While much progress is being made in understanding/managing SWD, for growers I'd advise taking a very conservative course this year. Time insecticide treatments based on crop stage, past field*

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](#)

history and regional pest status reports.

- Check with your usual advisors—public and private on control material options and rotations.

For those of you in the vicinity, we'll be reviewing the present status of the research and understanding of SWD with one of the entomologists most familiar with it at our monthly meeting:

- **May 23 — Willamette Valley Berry Fieldman/Grower Breakfast May Topic: Spotted Wing Drosophila Discussion with Amy Dreves, OSU entomologist** ~ 7:30 to 9:00 am, [Langdon Farms Golf Club](#), 24377 NE Airport Road, Aurora, OR. Call 503-289-7287 or [email](#) for more information.

Tom Peerbolt, SFU editor

Regional Crop Information

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, 5/6)

- **Blueberries:** The warm (hot 80-85F) weather of the past few days has really brought on a heavy bloom for all varieties. This week should be exceptional for pollination as bees are very active in the presence of so much flowering. Pollination is occurring very quickly as flower drop is quite evident. We're going to have to start irrigating in places as soil moisture decreases especially in the lighter soils. It looks to be an early crop if things progress as they are now and the early pick could coincide with the raspberry pick.
- **Raspberries:** Raspberry development is moving quickly as well (although new shoot growth appears quite slow so far) and the need for irrigation is going to be felt this week. We'll probably be looking at fruitworm sprays within a week or so.

Whatcom County, Northern Washington (Monday, 5/6)

Warmer weather makes us 7-8 days earlier than last year.

- **Blueberries:** Looks like a pretty good bloom load in Bluejay, 1613'3, and Jersey. Rekas already past full bloom, green berries forming. GREAT pollination conditions.
- **Raspberries:** Raspberries are growing like weeds. We are a few days away from prebloom in Willamettes. Most of the second round of fertilizer is done, mostly now burning side shoots.
- **Strawberries:** 1st bloom spray on Hood strawberries today, a few weevil spots showing now.

Skagit County, Northern Washington

Tough spraying conditions due to wind but fields are finally drying out. Can tell who is caught up with spraying, their headlands all chewed up!

- **Blueberries** (Friday, 5/3): Fertigation started up in blueberries last week. Foliar fertilizers going on also. Some Gramoxone going on weed escapes from early pre-emergent. Shoot blight from mummyberry infections are evident in Liberty and Reka. A couple of organic growers are rotating through Serenade, Actinovate, Sonata, Zen-o-spore and Double Nickel biofungicides for mummyberry management. It appears less severe than last spring but time will tell. Shock flower & leaf necrosis is showing up with the bloom. The bees are all helping move infected pollen around. Leaf rollers munching away noticeably in organic fields.
- **Blackberries** (Friday, 5/3): Foliar fertilizers are going on Chesters now.
- **Strawberries** (Monday, 5/6): Strawberry bloom just starting on main-season strawberry varieties, nothing yet on Puget Crimson. Foliage generally looks good, but I have seen some cupped leaves that look suspiciously like Powdery Mildew.

Willamette Valley, Oregon and SW Washington

- **Strawberries:** (Monday, 5/6) I've had one report of significant frost damage from last week but most growers and regions seem to have come through O.K. Full bloom and beyond in Totems and Hoods. As expected this warm weather has brought out a lot of bloom. In fact, bloom is ahead of where the foliage

usually is. Not sure how that'll work out but better keep these fields very well watered for growth and a heavy fruit set. We're about two weeks away from the first ripe fruit in Albions and Honeoye's. Sure happens fast—at least this year. Hope we've got the pickers...

From OSU Berry Specialist, Bernadine Strik: (Friday, 5/3)

All Berries:

- No frost here at the [North Willamette Research and Extension Center](#) of any significance over the last few nights.
- We have been irrigating caneberries, blueberries, and strawberries for about a week now. Just don't want the raised beds to dry out as it's hard to re-wet them.
- Fertilization should be going strong in blues and caneberries.

Blackberries & Raspberries:

- Primocanes are coming on well in the caneberries and fruiting lateral growth looks good.
- We are at early bloom in Black Diamond and mainly tight flower bud in Marion.

Blueberries:

- We are full fruit set in some varieties (Bluegold and Reka), about 30% to 50% fruit set in others (Duke, Bluecrop) and at late bloom/early set in the later flowering ones (Aurora, Liberty, Legacy, Draper).
- With warm weather forecast in the WV next week it'll be important to irrigate; we don't want plants to be water stressed during the first stage of fruit development (cell division) as this will reduce berry size at harvest – this is normally not a problem for us!
- Fruit set looks good, but there is a lot of shock showing up, particularly in Liberty, Draper, Bluegold, and Duke. This year we've seen shock hit from very early floral bud break stage to late (after early bloom).
- Mummy berry flagging of first infected leaves is evident now too (easy to get this mixed up with shock though).
- Finally, we are seeing more winter moth than usual – significant damage in spots (eaten flowers and leaves), particularly in the organic blueberry.

Strawberries:

- We have green fruit on some genotypes – we might be harvesting in a couple of weeks on the early ones.
- We will definitely have ripe fruit in abundance on [Strawberry Open House on June 5](#) (and you all thought we had scheduled that too early ha ha).

Blueberry bud development—Western Willamette Valley

Note: There's a lot of bloom/fruit set variability within these fields (especially Liberty!). What I've been doing each week is taking four examples from each field and then using what seemed to be the most representative of overall development for illustrating below. It all involves a fair amount of judgment calls as to overall estimates. Please keep all this in mind when interpreting this information. [Click here](#) for MSU's growth stage table. Tom Peerbolt

4-26-13 (Bottom)

5-3-13 (Top)

Patriot
Early green fruit

Duke
Petal Fall

Draper
Petal Fall

Liberty
Petal Fall

Elliott
50% bloom





- Blueberries** (Monday, 5/6) Well we made it through the mummy berry primary infection period with very little infection.....thanks to this weather. We are finishing the last bloom spray this week on most varieties. We are including Bt with the bloom sprays as we are finding leaf roller and winter moth larva. Azalea bark scale egg sacks are getting very large and I have seen a few that have burst open (see below photo). With a hand lens the eggs are visible within. In the organic production we are going to try some late afternoon Neemix when I start to find crawlers, which I expect will be soon. The wind over the weekend slowed pollination down a bit but overall very good conditions for the pollinators and fruit development this year. We are at least 1 week ahead of last year here.



Azalea Bark Scale from the same field on 4/11 (left) & on 5/6 central Willamette Valley—They become much more visible at this point.

Photo on upper right by T.J. Hafner; others by T. Peerbolt



Red eggs visible in white egg sack



- **Blackberries:** (Tuesday, 5/6) According to my definition of first bloom this year, Marions occurred on May 4. That puts us about a week ahead of last year and harvest to start around July 4. According to degree days, harvest will start July 1. In 2012 it was May 12 and harvest started July 12. Black Diamonds are over 50% bloom and fungicides are being applied. Boysenberries are 1% bloom. Kotatas might be 5% bloom. Evergreens have yet to start bloom. Water going in some fields but would like to see more. Bees are out working, perfect conditions. All looks good at this point.



Marionberries May 4 (above) Black Diamond May 6 (below) All photos by Bill Dinger



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Spring Weather Risks

Pictorial blueberry growth stages with temperature damage thresholds

- [Blueberry growth stages and critical spring temperatures](#) (Michigan State Extension)
- The relevant stages & temperature thresholds from the chart:
 - **Full bloom:** “Most of the flowers on the bush have opened. The bloom stages can tolerate 28°F (-2.2°C).”
 - **Petal Fall:** “The corolla tubes are falling off the flowers, revealing small green fruit. This is the most vulnerable stage to freeze injury. Damage can occur at 32°F (0°C).”

Early Spring Weather Management Information

- **New posting:** [Monitoring for the risk of frost and freezing temperature](#) (Jeff Anderson, MSU Extension)
- [Using your sprinkler system to protect blueberries from freezes](#) (Eric Hansen, Michigan State Small Fruit Specialist)
- (All berries) [Frost protection: Tips & Techniques](#) (Kathy Demchek, Penn State)

Grower Resources

- [Blueberry weed control: late spring & summer options](#) (MSU Extension) *Originally posted on 5/1/12.*
- [Resources for getting up-to-date pesticide labels, labeling and safety data sheets for 2013](#) (MSU Extension) *Originally posted on 1/30/13.*
- [Managing mummy berry shoot strike infections](#) (MSU Extension) *Newly posted on 5/3/13. Great charts on effectiveness of fungicide choices and on weather variables that favor infections.*

Resources of identifying diseases & insects

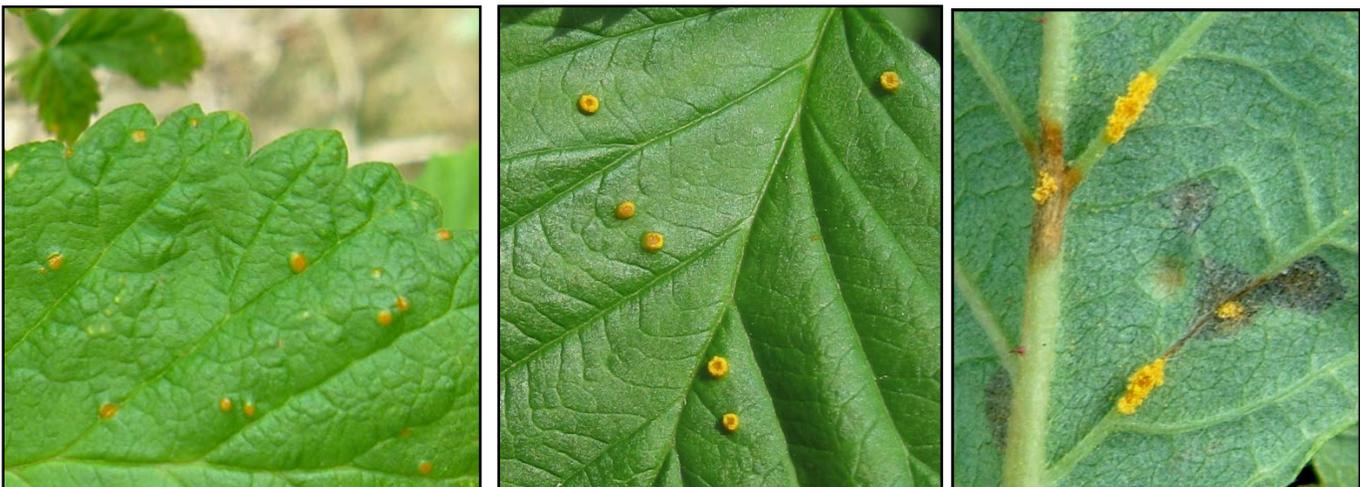
- British Columbia Resource: [Instructions on how to submit blueberry tissue to the BC Ministry of Agriculture Plant Diagnostic lab for insect or disease testing.](#)
- For submitting samples to the Oregon State Plant Clinic, [click here.](#)

Nutrient Management

- [Click here](#) for OSU’s “Nutrient Management in Blueberries” (16 page pdf).
- [Click here](#) for OSU’s “Nutrient Management Guide—Caneberries” (8 page pdf).
- [Click here](#) for OSU’s “Strawberry Fertilizer Guide” (1 page pdf).

Pest Alerts

Time to scout for: [Yellow Rust](#) Raspberries



Stages of Yellow Rust (from left) spermagonia, aecia, uredinia: It has not yet reached the uredinia stage.
(Middle photo by Carolyn Teasdale, others by Tom Peerbolt)

- Yellow rust is now moving through its spore stages from yellow/orange colored 'blisters' (spermagonia) on the top surface of leaves to a very visible, almost day-glow orange/yellow spore stage (aecia) and eventually in the fourth spore stage (uredinia) .
- This fourth spore stage (uredinia) appears later in the season as yellow 'dust' on the bottom of leaves. This last stage is the one that multiplies quickly & can quickly defoliate canes if left untreated.
- Evaluate disease incidence and stage to determine whether (& when) fungicide applications are warranted.

Time to Scout for: [Scorch virus](#) Blueberries

- Symptoms are due to become visible.
 - This disease is vectored aphids.
 - There is no treatment or cure.
- Infected bushes generally never return to productivity & should be removed ASAP.

Vector (aphid) management

- From an April, 2011 B.C. Pest Alert: "Blueberry scorch virus is transmitted by aphids. An effective aphid control program should be used by all growers. *Fields should be treated before bloom with a registered aphicide to control the over-wintering aphids before they reproduce and disperse.*"
- Click on the blue link above for full information from the B.C. Ministry of Agriculture. Check with your berry management specialists, both public and private, for more specific recommendations and selection of appropriate management materials.
- You can also email the B.C. Blueberry Council's research coordinator, [Karina Sakalauskas](#) (or call her at (604) 613-2133) for information.

Time to scout for: [Shock virus](#) Blueberries.

- Symptoms are becoming visible in many fields in the southern areas.
- This disease is vectored by pollinators.
- There is no treatment or cure.
- Infected bushes generally display symptoms for one year and then return to productivity.

Time to scout for and prevent: [Mummyberry](#), blueberries.

Fields at risk should have a protective fungicide on the susceptible tissue at this time to minimize infections.

- **New Posting:** [Managing mummy berry shoot strike infections](#) (MSU Extension) *Newly posted on 5/3/13. Great charts on effectiveness of fungicide choices and on weather variables that favor infections.*
- [Mummyberry primer from MSU.](#)
- Secondary infection symptoms are showing up.

Time to scout for and evaluate if management action is needed: [Yellow mites](#), raspberries

- This early season mite is smaller and paler than two-spotted mite and has less webbing.

Time to scout for and evaluate if management action is needed: [Blackberry Rust](#) (Phragmidium Rust) Evergreen blackberries

- This disease is of economic threat to only to Evergreen blackberries where it can be devastating. There are reports of it being present in fields at this time. Treatment is recommended. Rally (myclobutanil) is particularly effective.

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Ongoing Pest Information

- **Scout for: [Azalea Bark Scale](#), blueberries.** This scale's telltale bright white egg sacs on the lower branches of infested plants are now apparent in some southern blueberry fields. (see photos above)
- **Scout for: [Raspberry Beetle](#), northern raspberries.** This small beetle can cause fruit damage and be a major contaminant in northern raspberry fields.

- **Scout for: Root Weevils, strawberries.** Larvae of [Black Vine](#), [Rough Strawberry](#), [Strawberry Root Weevils](#) are now being recovered from some strawberry fields.
- **Scout for: [Blueberry Gall Midge](#), southern blueberries.** Tip damage from this midge is showing up in southern blueberries. Damage is usually deemed to not be economic except in specific situations like new vigorous fields where gall midge can occasionally cause too much stunting of new growth.
- **Prime Time to Scout for: Mites in raspberries (northern growing areas):** [Twospotted mites](#) [Yellow mites](#)
- **Prime Time to Scout for: [Winter Moth/Bruce Span Worm](#) blueberries**
- **Prime Time to Scout for: [Clay Colored Weevils](#) northern raspberries & blueberries:** This early emerging species is a pest in northern growing areas where it feeds on newly emerging shoots and buds.
- **Prime Time to Scout for: [Strawberry Crown Moth](#) southern strawberries:** As plant growth resumes, plants weakened by SCM can be spotted. Infested plants will have a weakened crown and often will break off with a pull on the top growth.

Spotted Wing Drosophila

- [Fruit fly could reach record levels in Pacific Northwest](#) (5/3, Fresh Plaza)

Crop Work

All crops

- Vole management.
- Weed management.
- Fertilizer program.
- Can put out monitoring traps for Spotted Wing Drosophila.

Blueberries

- Bring in bees around 10% bloom.
- Apply bloom applications to prevent fruit molds.
- Treat for [Mummyberry](#) as needed. (See Alert at top of newsletter)
- Scout for virus symptoms & send in samples for testing as needed.
- Scout for [leafroller larvae](#) feeding.
- Scout for virus symptoms & send in samples for testing as needed ([Shock virus](#); [Scorch virus](#)).
- Plan for pre-bloom [aphid](#) control where [scorch virus](#) transmission is an issue.
- Scout for [winter moth/Bruce spanworm](#) larvae.
- Scout for scale insects.
- Scout for weevil notching.

Blackberries

- Can apply phosphite material for Downey Mildew prevention in Boysens and Kotatas.
- Scout for virus symptoms & send in samples for testing as needed.
- Burn back primocanes as needed.

Evergreen Blackberries

- Scout for and treat as needed for Blackberry rust.

Raspberries

- Burn back primocanes as needed.
- (northern areas) Scout for [Clay Colored Weevil](#) feeding and treat as needed.
- Scout for [twospotted mites](#).
- Scout for virus symptoms & send in samples for testing as needed.
- Can apply a phosphite material for stronger root growth and root rot prevention.
- Scout for Yellow Rust and assess treatment options.
- Scout for spider mites and treat as needed.

Strawberries

- (Southern strawberries) Can scout for Strawberry Crown Moth larvae.
- Can apply phosphite materials to strengthen root systems
- Can apply fungicides starting at 10% bloom to prevent fruit mold
- Scout for weevil adults and notching.
- Can apply slug bait.
- Scout for Powdery Mildew and treat as needed.
- Scout for Two Spotted Spider Mites and predatory, beneficial mites.
- Scout for aphids.

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Industry News/Resources

Newsletters/ Berry Reports

- [BC Blueberry IPM Newsletter](#) (5/3) Weekly by Carolyn Teasdale, [ES Cropconsult](#). Sponsored by the BC Blueberry Council.
- [Michigan State Extension Blueberry News](#) (5/6)
- [New Jersey Blueberry Bulletin](#) (4/29) Excellent weekly newsletter by Gary Pavlis, Rutgers blueberry agent.
- [The Source](#) (5/6) Market reports from The Produce News
- [Market Pulse](#) (Week 17) Market reports from Fresh Fruit Portal
- [National Berry Report](#) Daily fresh market berry reports. Hosted by the California Strawberry Commission, this report is generated from data from the USDA Agricultural Marketing Service and is updated daily.

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](#) by Mark Bolda, UC Davis Berry Extension Agent. **Recent entry: 5/4—Slime Molds** Reports on recent insect and disease research and observations in California.
- [Team Rubus](#) by Gina Fernandez, North Carolina State Small Fruit Specialist. **Recent entry: 5/6—Heat units for determining blueberry ripening dates** 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: 5/1—A reminder: SWD treatments may flair spider mites** Reports on insect issues in the Southeast.

Research

- [Georgia researcher looks at 4 methyl bromide alternative systems](#) (4/25, The Grower)

Marketing

- [Avocado Commission & Naturipe promote California avocados & berries](#) (5/2, The Packer)

Colony Collapse

- [Varroa mites, other factors linked to colony collapse](#) (5/2, Capital Press)
- [Colony Collapse Disorder Progress Report](#) from the USDA's CCD Steering Committee Issued June, 2012. 13 page pdf.
- [Honey bees and Colony Collapse Disorder](#) (April, 2013 – USDA background, research & reports on CCD)

Pesticide Issues

- [Bee-harming pesticides banned in Europe](#) (4/29, The Guardian)
- [EU bans neonicotinoids despite members' split vote](#) (4/29, Growing Produce)
- ['Mega' crop protectant lawsuit dismissed](#) (4/29, Growing Produce)

Farm/ Food Politics

- U.S.: [Schradler predicts Congress will pass farm bill this year](#) (5/2, Capital Press)
- Washington: [Senate coalition protects ag](#) (5/2, Capital Press)

Food Safety

- [More Scandinavian Hepatitis A cases linked to frozen berries](#) (5/2, Fresh Fruit Portal)
- [The U.S. & global food safety violations](#) (4/29, Food Sentry) “This report closely examines U.S. food safety violations reported in the last 15 months, and the results are a little surprising...”

Labor & Immigration

- [Mexicans are leaving farm work: What does this mean for U.S. agriculture and immigration policy?](#) (April-2013, Giannini Foundation Research update)
- [Immigration reform faces Senate gauntlet, uncertain House outlook](#) (5/5, The Hill)
- [On immigration legislation, fissures emerge within conservative ranks](#) (5/6, Washington Post)

West

- [California strawberries boast increased acreage, early season](#) (5/3, Fresh Fruit Portal)

North America

- Eastern U.S.: [Strawberry virus alert](#) (4/30, Growing Produce)
- [USDA proposing new Canada-US border fees](#) (5/6, Fresh Plaza)
- [CanadaGap announces new certification body](#) (5/6, Fresh Plaza)

International

- Peru: [Geography to play key role in Peru's blueberry sector](#) (5/3, Fresh Fruit Portal)

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Food Safety Events

Oregon Food Safety Training Offered

by the Oregon Raspberry & Blackberry, Blueberry, and Strawberry commissions

- [Click here](#) for the website with registration and detailed information.
- Class is free of charge but RSVP is required.
- **Dates & locations:**
 - **May 16** HBF International – 310 NE Kirby St, McMinnville
 - **May 21** Western Star Grange Hall #309 – 30423 Tangent Dr., Albany

Event Calendar

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

- **May 9 — Oregon Strawberry Commission** ~ 6 pm [Langdon Farms Golf Club](#). Call 541-758-4043 or [email](#) Phillip Gutt for more information.
- **May 9 — Webinar on the Department of Labor Hot Goods Issue:** [Click here](#) for information & registration (*Washington Farm Labor Association*)
- **New Posting: May 22 — Agriculture Employer Information Session** ~ 4 – 6 pm, Chemeketa Community College, Woodburn Campus, 120 E Lincoln St, Woodburn, Contact Daniel Quinones at 503-378-8572 for more information. *Participants will include Karen Clark from the US Department of Labor, ODA, WorkSource Oregon, Oregon OSHA, Bureau of Labor and Industries Wage and Hour Division, Oregon Department of Agriculture Farm Mediation Program.*
- **May 23 — Willamette Valley Berry Fieldman/Grower Breakfast May Topic: Spotted Wing Drosophila Discussion with Amy Dreves, OSU entomologist** ~ 7:30 to 9:00 am, [Langdon Farms Golf Club](#), 24377 NE Airport Road, Aurora, OR. Call 503-289-7287 or [email](#) for more information.
- **New Posting: May 28 & 29 — Government Regulation Training** ~ Manny Lopez, American Business League ~ 8:30-12 & 1-3:30 pm, Denny's Restaurant, 3155 Ryan Drive SE, Salem, [Click here](#) for May 28 meeting information. [Click here](#) for May 29 meeting information. [Click here](#) for online registration. *Space limited to 25 at each session. \$200 registration fee.*
- **June 5 — OSU Strawberry Open House** ~ 1-4:30 pm, North Willamette Research & Extension Station, Aurora. [Click here](#) for details.
- **June 18-20 — Berry Health Benefits Symposium** ~ Charlotte, North Carolina. [Click here](#) for registration and agenda information.

- **June 27 — Willamette Valley Berry Fieldman/Grower Breakfast** ~ 7:30 to 9:00 am, [Langdon Farms Golf Club](#), 24377 NE Airport Road, Aurora, OR. Call 503-289-7287 or [email](#) for more information.
- **July 10 — OSU Caneberry Open House** ~ 1-5 pm, [North Willamette Research & Extension Station](#), Aurora Details TBA
- **July 12-13 —Oregon Berry Festival** ~ Portland, Sponsored by the Oregon berry commissions as well as many Oregon berry farms and berry related businesses. [Click here](#) for the website with a schedule of events and more details.
- **July 17 — OSU Blueberry Field Day** ~ 1-5 pm, [North Willamette Research & Extension Station](#), Aurora Details TBA
- **July 19 - 20 — Northwest Raspberry Festival** ~ Lynden, Sponsored by the Lynden Chamber of Commerce. [Click here](#) for the website with a schedule of events and more details.
- **July 25 — Willamette Valley Berry Fieldman/Grower Breakfast** ~ 7:30 to 9:00 am, [Langdon Farms Golf Club](#), 24377 NE Airport Road, Aurora, OR. Call 503-289-7287 or [email](#) for more

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Archived Small Fruit Updates

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

[SFU04-30-13](#) [SFU04-17-13](#) [SFU04-09-13](#)

This document is a guide and not intended as a recommendation or endorsement.
Consult with your supplier, field representative, or pest consultant.