



NW Fruit

Western Washington Fruit Research Foundation
February, 2018

President's Message

Kim Siebert, NW Fruit President

After serving as president for two years, I will be stepping down next month at the Winter Field Day, and returning to my position as Recording Secretary. I want to give a big thank you to Bob Baines, who has volunteered to serve as President for the next year.

We have just gotten word that our trade name of NW Fruit is official! The newsletters have already been printed for mailing, so you may notice that the header and this paragraph are different.

We will be emphasizing nuts and unusual fruit at our Winter Field Day on March 3rd. Persimmon, medlar, Cornelian cherry, fig, mulberry. English walnut, chestnut, and Sea Buckthorn will be covered. I am especially fond of the Illinois Everbearing mulberry and I have planted it several times at when we have lived in different homes.

Kim Siebert



We had fruit last fall on our young chestnut trees.

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Volunteer!

We need volunteers to help at the **Winter Field Day**. Shifts are 1-2 hours and there are a variety of tasks. We also need people to help with registration at workshops.

You can also volunteer by serving on the **Board of Directors** or by helping to **update the Website**.

For more information mail: info@wwfrf.org



Volunteering in the Fruitbooth at the Winter Field Day.

Rootstocks available at the Winter Field Day

Initially there will be a limit of 4 rootstocks of each variety per person. Later in the afternoon you may buy more of a particular variety after everyone has had a chance to buy some. Available varieties are:

Apple, from smallest to largest: EMLA 27, BUDAGOVSKY 9, EMLA 26, EMLA 7

Plum: MARIANNA 2624

Pear: OHxF 87, QUINCE BA29C (much more dwarfing than OHxF 333, but you must graft an interstem (Comice works well) for many European pears).

Cherry: KRYMSK 5



Have you renewed your membership yet? NW Fruit membership is valid for 12 months from the date your check is [received](#). Your membership expiration date is printed above your name on the mailing label indicating the month and year that your membership expires. Renew your membership before it expires by completing the Membership Form and mailing it in. [You can also renew online.](#) (see credit cards on page 6)

Learn about medlar at the Winter Field Day! (photo to the left)

Winter Field Day / Open House: March 3, 2018

Western Washington Fruit Research Foundation

in cooperation with

Washington State University, Northwest Washington Research and Extension Center

16650 State Route 536, Mount Vernon, WA 98273



8:30 AM and after: Registration—All members & non-members must first register & pay

Admission Free for NW Fruit Members: Included in annual dues

Admission Fee for Non-Members: \$15.00/ Individual; \$30.00/ Family

(Parents with non-adult children only); Caregivers free admission with paid client

West Room

8:30 – 1:00 PM Rootstock and Scionwood Sales

9:00 – 1:30 PM Grafting of Purchased Scions & Rootstock)

Workshops, Lectures and Panels

Auditorium

8:55 – 9:05 AM Welcome & update of WWFRF accomplishments (Kristan Johnson)

9:05 – 9:15 AM Brief report on the Cider Trials at NWREC (Travis Alexander)

9:15 – 9:55 AM Fruit Pests: *rose stem girdler* attacks red raspberry, blackberry (Beverly Gerdeman)

10:00 – 10:55 AM Nuts & Unusual Fruit Trees (Michael Dolan)

10:55 – 11:00 AM Welcome & Mummyberry, Screening report (Kristan Johnson)

11:00 – 11:55 AM Panel: Best Unusual Fruit for the Pacific Northwest (Michael Dolan, Sam Benowitz, Zsafia Pasztor, Arthur Lee Jacobsen, Joe Bullock, moderator Kristan Johnson)

Lunch and Social Time

12:00 – 12:30 PM Auditorium (Please bring your own lunch & beverage)

Or take a self-guided Fruit Garden Tour using the 40 tour signs

Annual Business Meeting

All members are encouraged to attend

12:30 – 1:30 PM Auditorium (Election of Board Members & Board Meeting to elect officers)

12:30 – 1:30 PM Fruit Garden Tour (Tom Wake)

Auditorium

1:30 – 2:20 PM Beginners Guide: Selecting & Growing Fruit Trees at Home (Bob Baines)

Demonstrations in the Fruit Garden

1:30 – 2:20 PM Tour of Unusual Fruit & Nuts (Michael Dolan)

2:30 – 3:20 PM Pruning Unusual Berries (Zsafia Pasztor)

Scion wood available at the Winter Field Day

APPLES

Fameuse
Alkmene
Arkansas Black
Ashmeads Kernel
Belle de Boskoop
Ben Davis
Beni Shogun
Braeburn, Hillwell
Daliest
Fall pippin
Golden Russet
Grand Alexander
Hatsuaki
Jonagold (Decoster)
Liberty
Melrose
Newtown Pippin (yellow)
Pristine
Roxbury
Silken
Tompkin's King
Twenty Ounce
Wagener
Wealthy
Westfield Seek-no-furthur
Willuams' Pride
Winesap
Winter Banana
Winter Pearmain
Wolf River
Yellow Bellflower

PEARS

Rescue
Atago
Bosc
Chojuro
Clapps Favorite
Comice
Concorde
Conference
Hamese
Highland
Ichiban Nashi
Mishirasu
Spaulding
Starkrimson
Taylor's Gold

CHERRY

All Star
Angela
Bing
Danube
Early Burlat
Hartland
Hudson
Kristen
Lapins
Montmorency
Rainier
Schneider
Surefire
Sweetheart
Tehranavee
Vandalay
Victory
White Gold

PEACH

Bette
Redstar
Q1-8

SHIPOVA

QUINCE
Aromatnaya

GRAVENSTEIN

VARIATIONS

Black
Bloodred
Candystripe
Common
Eastcoast
Fall
Green
Rosebrook
Schwartz
Sheets
Starr
WA
Worthen
Yellow

Fruit Garden update 2018

Thanks to **Thomas Wake**'s guidance and our many volunteers, we are seeing a much healthier and more productive garden. Last fall we celebrated a great Fruit Garden Volunteer Appreciation Day BBQ. Thanks to all who participated (especially Bob Baines, the master BBQ smoker), we intend to make this year's event even better!



Jacky King was a special guest at our Fruit Garden Volunteer Appreciation Day BBQ.

This past year we applied very fine pest screening to some of the mature *Karmijn De Sonnaville* apple trees, employing various screening methods to compare their effectiveness. The results confirmed that completely wrapping (encapsulating) the trees is the most effective method of deterring virtually all of the pests. This year we are expanding our trials of bug screening and that means we need to prune some of the trees into better shapes. To facilitate that effort, we researched and purchased a super safe orchard ladder (which has a built in platform), and **James Wiss** is developing a ladder safety class.

Bill Davis and his "band of merry grafters" has grafted up 10 *Karmijn De Sonnaville* apple scions onto both M-27 and Bud-9 to create our display of a very-dwarf espalier that we can subsequently wrap with the new fine pest screening. After a year of **Ned Garvey**'s tender care in the Fruit Garden nursery, we will plant them out this winter.

Dennis Davenport is leading the spray program and efforts in mitigating the multitude of pests and diseases in the Fruit Garden. Thanks to him and the rest of the Fruit Garden Spray Committee for working on this task. Last year's pest control efforts were very beneficial to the quality of our fruit harvest! It also seems that our blueberry mulch efforts were successful, as no mummy-berries were observed this past year.

Thanks to **Paul Gotz** for volunteering to fabricate our new “Donations” box, which will be located next to the welcome sign kiosk in the Fruit Garden. Super heavy duty and vandal proof, he did an excellent job and we all thank him for his efforts! When I visited his shop to pick it up, I was amazed by how remote he is, located on the northwestern side of the Olympic Peninsula. He gets snow measured in feet, and cougars and other mountain critters chasing his chickens! His favorite hobby besides raising fruit is welding implements for his tractor, which he uses daily.

The new field drain that was installed recently has performed as designed, and is keeping the sheds nice and dry (versus the “lake” that used to build up during the heavy rains). It’s amazing to think that we got along without it.

Richard Fairfield, while working on refurbishing the irrigation system, has been able to ferret out many of the “hidden” details. We hope that this year will bring new stability to the Fruit Garden’s water application, and we are looking for a volunteer to join Richard in this effort.

The health of soils has become a subject of great interest lately, and volunteer **Peter Jackson** is expanding his soil experiments by implementing a second Mycorrhizal test, this time using “Myco Grow” (donated by Fungi Perfecti) on adjoining Honeycrisp vertical cordons. The purpose is to boost Rhizomatic nutrient uptake and increase tree health. By inoculating Mycogrow around the tree roots, we hope that there will be beneficial fungus, which will: boost the ability of the trees to utilize water and nutrients in the soil, boost the immune systems for help warding off various types of fungus such as anthracnose, aid resistance to codling moth, and increase nutrient density of the fruit itself as determined by Brix measurements.

If you like to solve construction puzzles, **we need volunteers** to help repair the aging Kiwi trellis and some of the East espalier posts.

If you know someone who might enjoy the camaraderie, learning opportunities, and plucking fresh fruit off the trees, then please bring them along and show up on Thursdays 9-12 to help in the Fruit Garden!

Please let us know your impressions after taking the **40 Points of Interest Tour** within the Fruit Garden (using the handy colorful trifold tour map).

We hope to see you soon,
Kristan Johnson



WWFRF Fruit Garden

Pest Control Summary 2017

By Dennis Davenport

In 2017 we used both spray and non spray treatments to achieve much better pest control in the Fruit Garden. For several years the Fruit Garden had not had any sprays with the result that much of the apple crop was heavily damaged by codling moth and scab. Several spray applications were made using Integrated Pest Management approaches, along with Isomate pheromone mating disruptor rings and netting of certain trees.

Results observed from this program showed significant reductions in garden pest activity in 2017 compared to recent years.

Most apples and pears were free of scab damage; the most sensitive varieties still showed slight to moderate scab impact, with most of the damage being along the west fence line where several susceptible varieties did not have 100% coverage due to the proximity of the fence. These trees still produced a good quantity of usable fruit.



Netting apple trees. Completely covered tree circled in red.

Codling moth damage throughout the garden was significantly reduced based on observing the number of apples where visible “frassing” damage was evident. Additionally, two direct comparisons were made between sets of netted, sprayed, and unsprayed Karmijn and Gravenstein trees. In support of the “netting” experiment, we sprayed only half of the adjacent Gravenstein row (17 trees sprayed, 17 not treated) , and sprayed only three of the 6 Karmijns.

We compared treated and untreated Gravenstein and Karmijn samples quantitatively in two ways:

1. By visually inspecting and removing damaged apples where visible frassing was evident. Several dozen Gravenstein and Karmijn apples were removed from untreated trees; less than a half dozen from either fully netted or sprayed trees.



Classic example of “frassing”.

2. By dissecting dropped fruit and tallying apples showing codling moth damage.

Feedback from volunteers who harvested fruit this year was that minimal codling moth damage was found in sprayed or unsprayed netted apples. By contrast, in 2016 a sample of 3 dozen Gravensteins showed about 30% codling moth damage.

Unsprayed Gravensteins : 62 of 295 drops (21%) damaged
Sprayed Gravensteins ; 1 of 101 drops (1%) damaged
Unsprayed, unnetted Karmijn : 50 of 167 drops (29.9%) damaged
Unsprayed, half-netted Karmijn : 33 of 145 drops (22.8%) damaged
Sprayed, unnetted Karmijns : 6 of 140 drops (4.3%) damaged
Netted, unsprayed Karmijns : no drops available for analysis

It should also be noted that the Isomate pheromone rings had been deployed in ALL of the Karmijn and Gravenstein trees, both sprayed and not sprayed. The results we observed in our garden support the conclusion reached in many online write-ups on mating disruption approaches – that in an orchard that has exhibited significant codling presence in the recent past, the mating disruption alone is not an effective control solution.

These results indicate that the 2017 pest control efforts were very beneficial to the quality of our fruit harvest. Because the fungi and insect pests from one year tend to overwinter in the garden and reappear the following year, we need to continue with a program similar to or improved from that of 2017 to sustain our results.

Many thanks go to Ron Dralle of WSU for working with us to optimize the timing of this work to the conditions observed in the garden.



*Learn about Cornelian Cherry at the
Winter Field Day!*

PLEASE SEND YOUR DONATION ALONG WITH THIS FORM

Enclosed is my gift of:

☐ \$5000 ☐ \$1000 ☐ \$500 ☐ \$100 ☐ \$50 ☐ \$25 ☐ \$_____ (Make check payable to WWFRF)

To make a donation by credit card go to: NWfruit.org and click on support.

Please designate my monetary gift toward: ☐ Where it is needed most!
☐ Fruit Garden
☐ WSU sponsored research
☐ Sampling and Field Days

I would like to volunteer! ☐ In the Display Garden
☐ On sampling and field days
☐ By doing work that can be done from my home

Name _____
Address _____
City _____ State _____ Zip _____
Email address _____ Phone # _____

Please make my gift: ☐ In Honor of: ☐ In Memory of:
(Name of person) _____
Address of person or person's family _____

(So we can notify them)

Thank you.. Please send to: **WWFRF**
C/O John Valentine
811 North 1 ST
Tacoma, WA 98403-2013

Your gift is tax-deductible to the fullest extent allowed by law. Please consult your tax accountant for details.

WWFRF Board Meeting
November 4, 2017
2:00 – 4:00 pm
At the Snohomish Co-op

Board members attending: Kristan, Bob Jay, Kim, Ira
Board members online: Sam, Randy, JoeAnn, Mike

A quorum was present for the entire meeting.

Membership – We currently have 99 members including 2 business memberships and 2 complimentary memberships. We had \$385 in donations plus a \$5000 bequest from the estate of Marlene Falkenbury. We have had 104 memberships which have not been renewed this year. It was decided that we would send out a renewal reminder to these members using money already allotted in the budget for publicity.

Reports of Special Committees –

Outreach committee report – Bob – No action has been taken by this committee since it was formed. Bob said that his idea of what they would do for outreach is no longer possible so this committee is now disbanded. Members of the committee are encouraged to consider how we could achieve outreach and to volunteer to chair a new outreach committee if they have ideas for outreach.

Old Business

Extra educational events for next year - The idea that Cloud Mountain Farm would present an educational event in the Fruit Garden was mentioned.

Donation collection box for the Fruit Garden – One person responded to the newsletter call for a volunteer to make this, but then they didn't answer after we replied. We need to move forward with contacting the person again. *(Editor's note: Kristan Johnson followed up on this and Paul Gotz fabricated the donation box. See photo on Page 6.)*

Geocache in the Fruit Garden – It's there now, and the Geocache group is pleased with it.

New Business

Presidency – Kim announced that due to personal affairs she will not be continuing as president after this term, but she is willing to return to the Recording Secretary position.

Partnership with Cloud Mountain Farm – Tom Thornton spoke about the projects at Cloud Mountain Farm. The trials that are of interest to NW Fruit are the peach production trial, cherry production variety and UFO training trial, and pear production and training trial. It was agreed by the NW Fruit BOD that these trials are within our mission and qualify as being eligible to receive donations from NW Fruit. Our bylaws allow for us to support any fruit research that supports our mission, not only WSU research. Cloud Mountain Farm would offer to post our information in various places. The NW Fruit BOD is going to work on a proposal towards the goal of a mutually beneficial relationship.

Budget for 2018 – Mike and Kim The budget was reviewed and updated. Bob motioned that we approve the budget with the update changes. Seconded by Ira. Passed unanimously.

More screening for apple trees – Kristan – Kristan motioned that we allocate \$300 for more screening for apple trees. Seconded by Jay. Passed unanimously.

Winter Field Day 2018 plans - Mike is willing to be the event coordinator for 2018. Kristan will lead the speaker team.

March 3rd General Membership meeting agenda *Followed by the Board meeting*

12:30 – Financial Report – Mike Ewanciw
12:40 – Report from the Fruit Garden Committee
12:50 – Other Committee Reports (membership)
1:00 –1:15 – Nomination and vote for board members

Board Meeting

1:20 – Nomination of Officers – Vote



Western Washington Fruit Research Foundation (NW Fruit) Membership Form

Please check one box ONLY: ☐ Renewal ☐ New Member

DATE: _____

NAME: _____ EMAIL ADDRESS: _____

ADDRESS: _____

CITY: _____ STATE: _____ 9-DIGIT ZIP: _____

TELEPHONE: (____) _____

Please check all applicable lines to designate type of membership and/or extra donation:

_____ \$25 FOR ANNUAL **INDIVIDUAL** MEMBERSHIP *(One person only)*

_____ \$40 FOR ANNUAL **FAMILY** MEMBERSHIP *(Parents with their minor children)*

_____ \$ _____ FOR **GIFT** MEMBERSHIP FOR: *(Please note for Whom Above)*

_____ \$60 FOR ANNUAL **SUSTAINING** MEMBERSHIP *(Individual or family membership with higher level of financial support)*

_____ \$125 FOR ANNUAL **COMMERCIAL (List Only)** MEMBERSHIP *(Includes 3 people, and also includes business name on our website)*

_____ \$200 FOR ANNUAL **COMMERCIAL (Full)** MEMBERSHIP
(Includes 3 people, and also includes a link from our website to the commercial members' website)

_____ AN **EXTRA DONATION** of \$ _____ FOR ☐ **GENERAL FUND** ☐ **FRUIT GARDEN**

I would like to volunteer to help as follows (please check all applicable lines):

_____ FIELD WORK IN THE **WWFRF FRUIT DISPLAY GARDEN** *(usually held every Thursday from 9am-12noon; Jan-Nov.)*

_____ HELP AT THE **WINTER FIELD DAY** *(1st Saturday in March)*

_____ **NORTHWEST FLOWER & GARDEN SHOW** in Seattle *(usually held in February every year)*

_____ **BY DOING WORK I CAN DO IN MY OWN HOME USING MY COMPUTER OR TELEPHONE**

Please make your check payable to: WWFRF and MAIL your completed membership form and check to:

WWFRF
C/O John Valentine, Membership
811 North 1 st
Tacoma, WA 98403-2013

Western Washington Fruit Research Foundation (NW Fruit)
C/O John Valentine
811 North 1 ST
Tacoma, WA 98403-2013

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Please check your label to see if your membership needs renewing.



Winter Field Day!
Notes from the Fruit Garden!
Fruit Garden Pest Control!

Mission: WWFRF exists to advance fruit horticultural programs for our unique Western Washington maritime climate through advocacy, research, education, and demonstration for the benefit of the general public and the small farmer.