What this project is.....
A network of regional on-farm grower trials for evaluating the most promising raspberry advanced selections from our public breeding programs along with some varieties that haven’t been widely planted & deserve another look.

Farms are located in a variety of regional growing conditions.
Why?

You—Northwest growers & industry people need faster & more reliable information on new planting options.

The larger trial sizes (100-250 plants per trial) for processing type selections will give growers & processors enough fruit to run a machine over and run through tunnels for IQF/puree evaluations.

By sharing the same information with all growers/processors at the same time, you can all make better, less risky decisions on what to plant when...and make them faster.

It will also help the wholesale nurseries know what will be in demand and what won’t minimizing their risks (& maximizing returns) when deciding what to propagate for the following year.

...and it’ll help the plant breeding programs know sooner how their material is working out on the farms.

Everybody wins!!

The overall goal --- accelerate the commercialization of our genetic resources.
Type of Trial: Processing Raspberries
Date of photos: May 15, 2014
Trial location: Dobbins Berry Farm, Ridgefield WA.
Main objective: Root rot resistance with IQF quality fruit.
Selections: Cascade Harvest; Rudi; WSU 1980; WSU 2122; WSU 2166
Type of Trial: Processing Raspberries (Planted in 2012)
Date of photos: July 17, 2014
Trial location: Enfield Farms, Lynden, WA.
Main objective: High yielding, root rot resistance with IQF quality fruit.
Selections: Cascade Harvest; Rudi; WSU 1912; WSU 1948
2015 was the first chance to see a mature crop.

Type of Trial: Processing Blackberries (planted in 2013)
Date of photos: July 19, 2015
Trial location: Columbia Farms, Portland (Sauvie Island), OR.
Main objectives: Thornless, high yielding, cold-hardy Marion flavor equivalent fruit with better firmness & less red coloring
Selections: Columbia Star (ORUS 1507-1), ORUS 2707-1, Newberry, ORUS 3172-1 (2 wks later than Marion), ORUS 2635-1

Large on-farm trials for machine harvesting.
## Processed Raspberry Trials in the Ground

<table>
<thead>
<tr>
<th>Year</th>
<th>Variety</th>
<th>Adam Enfield</th>
<th>Ralph Minaker</th>
<th>Richard Sakuma</th>
<th>Don Sturm (OR)</th>
<th>Rob Dhaliwal</th>
<th>Ralph Minaker</th>
<th>Darryl Ehlers</th>
<th>Don Sturm (OR)</th>
<th>Richard Sakuma</th>
<th>Adam Enfield</th>
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</thead>
<tbody>
<tr>
<td>2012</td>
<td>Casc. Harv.</td>
<td>250</td>
<td>225</td>
<td>200</td>
<td>150</td>
<td>250</td>
<td>225</td>
<td>200</td>
<td>100</td>
<td>12</td>
<td>250</td>
</tr>
<tr>
<td>2013</td>
<td>Lewis</td>
<td>250 (died out)</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>250</td>
<td>85</td>
<td>12</td>
<td>12</td>
</tr>
<tr>
<td>2014</td>
<td>WSU 1980</td>
<td>79</td>
<td>100</td>
<td>100</td>
<td>39</td>
<td>100</td>
<td>125</td>
<td>100</td>
<td>100</td>
<td>42</td>
<td>10</td>
</tr>
<tr>
<td></td>
<td>WSU 2122</td>
<td>125</td>
<td>250</td>
<td>250</td>
<td>125</td>
<td>100</td>
<td>250</td>
<td>160</td>
<td>85</td>
<td>200</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>WSU 2166</td>
<td>42</td>
<td>200</td>
<td>160</td>
<td>11</td>
<td>125</td>
<td>200</td>
<td>160</td>
<td>11</td>
<td>125</td>
<td>11</td>
</tr>
<tr>
<td></td>
<td>WSU 2188</td>
<td>45</td>
<td>10</td>
<td>160</td>
<td>11</td>
<td>125</td>
<td>200</td>
<td>160</td>
<td>11</td>
<td>125</td>
<td>11</td>
</tr>
</tbody>
</table>

*Note:* Dobbins also planted 200 Cascade Harvest (WSU 1507) & commercial #’s of Rudi in same field.
Excellent Root Rot Resistance & Machine Harvestable

Cascade Bounty
- Excellent yields
- Negatives
  - Fruit size
  - Flavor
  - Doesn’t easily IQF

WSU 1912
- Excellent Flavor
- Negatives
  - Fruit size
  - Fall fruiting
  - Overall yields?

WSU 1948
- Decent fruit size
- Probably decent yields
- Negatives
  - Flavor
  - Overall yields?

Planned for trials in 2016--good potential for better Phytophthora resistance

WSU 2122
WSU 1914
WSU 2166
WSU 2188
Rudi

- Photos taken: 6-22-15
- Year planted: 2012
- Produces a very early crop
- Harvest period is very concentrated.
- Good yields of fruit with IQF potential.
- Berry size is average.
- Seems to have a tendency to mold especially since it's early and has very heavy picks.
- Doesn't seem to have any more root rot resistance than other available cultivars.
- Have enough plantings in the ground and realistic evaluation of its potential.
- Don't need more. Quite a lot of acres in the ground in B.C.
Photos taken: 6-22-15
Year planted: 2012

It's showing susceptibility to root rot on heavier sites. Disappointing since we had better expectations for good resistance given it's parents.

Need to continue observing the trials already in the ground for at least a couple more years to get a better reading on how much root rot resistance it has compared to standards.

Fruit quality and yields look excellent.

Plenty of commercial plantings now in for observation also.

I'd discourage growers from planting on heavier soils.
Photos taken: 6-22-15
Year planted: 2012
Showing good root rot resistance, good fruit flavor and appearance.
But berry size is small and it produces fall fruit (this takes away from the summer crop potential).
Very upright growth habit
A sibling of WSU 1912, WSU 1914 has larger size fruit in the small trials.
We'll probably trial it in 2016 as well as continuing observations on WSU 1912.
Overall yields are still a question on WSU 1914.
WSU 1948

- Photos taken: 6-22-15
- Year planted: 2012
- Good root rot resistance and decent yields by the look of it so far.
- Main drawback is poor flavor.
- Will observe trials in the ground for another year but most likely not going to go any further with it.
If you’d like information on how to participate contact:

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