

# Fresh Market Strawberry Grower Trial Results



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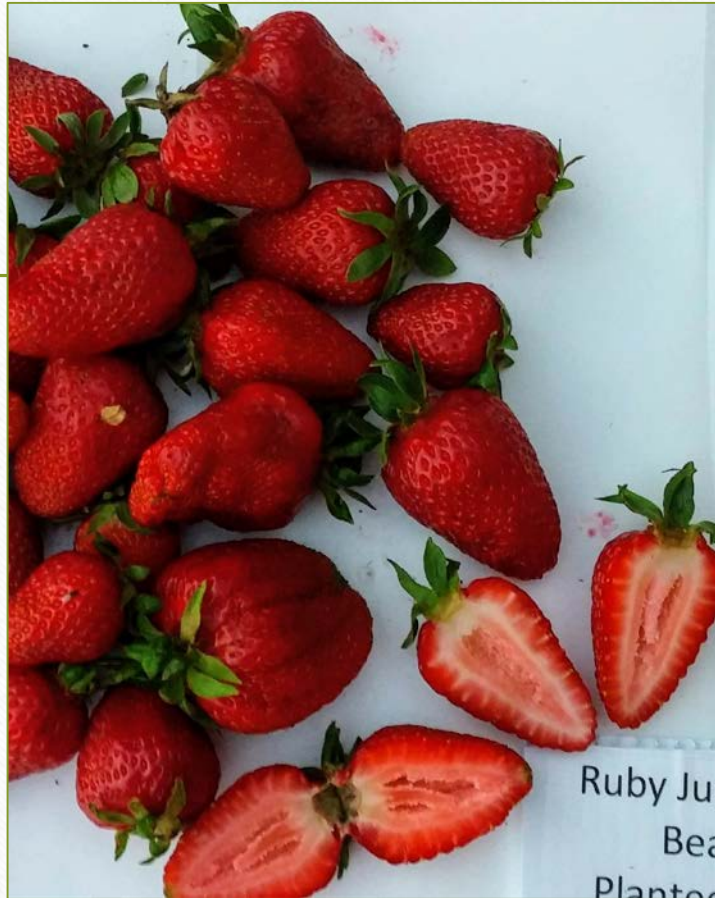
# Ongoing Strawberry on-farm trials

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- Fresh and Processed Trial on Washington and Oregon farms
- 2018 Planting:
  - June Bearing: Ruby June, Camila, Emilia, Sangria, Marys Peak and Puget Crimson
  - Day Neutral: WSU 12-216.3
- 2019 Planting:
  - Day Neutral: Cabrillo, Florida Beauty, LCN 12K65, LCN 86U60
  - June bearing: ORUS 2678-1, ORUS 2486-1, ORUS 3009-1



## June Bearing: Ruby June



- Color: Medium red outside, light-medium red inside.
- Flavor: Sweet strawberry flavor growers were pleased with compared to other 2018 fresh trial varieties.
- Harvest timing: Hood timing. Around 10 day gap between harvests.
- Fruit size: Medium size average. Consistent shaped conical fruit.
- Average yield between all plots: 2.8 ton/A with a large range between 2.1 ton/A and 3.4 ton/A depending on plot.
- Additional observations: Plenty of fruit found within the canopy. Caps on berries stayed on well for fresh market picking. Occasional Powdery Mildew found. Average canopy size.



## June Bearing: Sangria



- Color: Medium red outside, light-medium red inside.
- Flavor: Tart taste compared to Hood. Growers not pleased with flavor.
- Harvest timing: Between hood and Puget Crimson though still blooming during first harvest.
- Fruit size: Inconsistent range between small and medium.
- Average Yield: 4.2 ton/A
- Additional observations: Fruit hidden throughout canopy. Caps stay on for fresh market picking. Herbicide damage from establishment year did not appear to affect plants that survived original application. Some effects of suspected fusarium or verticillium wilt susceptibility in one plot.



## June Bearing: Emilia



- Color: Medium red inside and outside.
- Flavor: Bitter aftertaste lacking sweetness. Not ideal.
- Harvest timing: One clear harvest with weak second pick. Around Hood timing.
- Fruit size: Small to medium size.
- Average Yield between all plots: 3.1 ton/A with a large range between 1.9 ton/A and 4.4 ton/A depending on plot.
- Additional observations: Plants are not as vigorous. Collapse in plants with suspect Verticillium Wilt is commonly found to impact fruit size. More susceptible to herbicide. Plenty of fruit found outside of canopy for ease of picking. Caps stayed on berries. Overall grower observations conclude this selection is not worth growing in the Pacific Northwest.



## June Bearing: Camila



- Color: Light to medium internal and external color.
- Flavor: Range of flavor from mediocre to sweet.
- Harvest timing: Around Hood timing.
- Fruit size: Small to medium size. Shape tends to be thin conical look with a hooked tip.
- Average yield: 3.3 ton/A
- Additional observations: Fruit had pucker spots found consistently. Poor vigor. Weak plant stands likely due to sensitivity to herbicide at planting. Plenty of fruit found outside of canopy. Powdery Mildew found at moderate levels. Overall grower observations conclude this selection is not worth growing in the Pacific Northwest due to inconsistent fruit shape and size.



## June Bearing: Marys Peak



- Color: 'Ideal' red color though seeds are yellow and more pronounced on exposed surface rather than standard Tillamook.
- Flavor: Sweet, full flavor.
- Harvest timing: One week after Hood. Similar processed harvest time to Tillamook (though some growers harvest Tillamook later than Marys Peak).
- Fruit size: Medium to large size, uniform conical shape.
- Average Yield between plots: 3.2 ton/A ranging between 2.4 ton/A (dry land) and 4 ton/A.
- Additional observations: Growers were pleased with consistency in fruit, that it caps well for processing but also versatile for fresh market picking.



## June Bearing: Puget Crimson



- Color: Medium to deep red internal and external color.
- Flavor: Excellent sweet flavor. Growers were pleased with the flavor when picked at optimal time (prior to wine dark color).
- Harvest timing: Similar harvest time to Marys Peak, one week later than Hood.
- Fruit size: Medium to large fruit size. Consistent shaped conical fruit.
- Average Yield between plots: 3.6 ton/A with a large range between 3 ton/A (dry land) and 4.1 ton/A.
- Additional observations: Plenty of fruit found within the canopy. Caps on berries held on slightly more than standard. Plants (and fruit) succumb to Powdery Mildew compared to standard Tillamook. Average canopy size.



## Day Neutral: WSU12-216.3



- Color: Medium to dark red outside, medium internal color (darker than Albion).
- Flavor: Best taste at dark red maturity but less sweet than Albion.
- Harvest timing: Albion time with at least one clear dip in production in early-mid July.
- Fruit size: Medium, slightly smaller than Albion. Organic production even smaller than organic standard. Conical shape until mid season when fruit catfaces with no Lygus Bug found during time of observation.
- Average Yield from May through July: 7.7 tons/A based off 16,000 plant/acre 2 row plasticulture system.
- Additional observations: Compact plants with very few runners. General grower observations included lack of flavor and size consistency, lower repeat flowering and yield.



## Planting 2019 Update



### JUNE BEARERS (Processed and fresh plots):

- **ORUS 2486-1:** dual purpose berry with yield and fruit size higher than totem. This selection has really outstanding flavor and fruit quality.
- **ORUS 2678-1:** said to have best flavor out of all the trial selections. Mid-late season with good yield and size.
- **ORUS 3009-1:** considered better for processed market but dual purpose potential. Very good yield with high quality fruit.

### DAY NEUTRALS (fresh plots):

- **Florida Beauty** – U of F release said to have excellent fruit quality and flavor all packed into a compact plant. Medium red color fruit with excellent shape and good rain tolerance.
- **LCN 12K65** – Medium to large conical fruit. It is medium firm with full very dark red internal and external coloring. Pleasant flavor.
- **LCN 86U60** - This selection has firm, medium to large fruit. Fruit has good flavor, shape, and a dark red color.
- **Cabrillo** - UC Davis release known for high fruiting yields, excellent flavor, fruit size and firmness. It has resistance to many diseases that weaken plants in the Pacific Northwest.





# Thanks!



- Thanks to the following grower cooperators: Clark's Berry Farm, Viva Farms, Goddik Farms, Nottinghamshire Farms, Unger Farms, Nanneman Farms, Boones Ferry Berry Farms, Barbie's Berries, Grandpa's Fresh Market, and Columbia Farms.
- Thanks to the nurseries including: NorCal Nursery and Lassen Canyon Nursery
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- **Sign up for the Fresh Strawberry bulletin**
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