

**RESEARCH REPORT  
TO THE  
OREGON STRAWBERRY COMMISSION  
AND THE  
AGRICULTURAL RESEARCH FOUNDATION  
2017-2018**

**Title:** Evaluation of processing quality of advanced strawberry breeding selections

**Investigator:** Brian Yorgey, Senior Faculty Research Assistant  
Food Science & Technology, OSU

**Cooperators:** Chad Finn, USDA/ARS, Center for Small Fruits Research  
Pat Moore, Washington State University

**Objectives:**

1. Evaluate advanced blackberry and raspberry breeding selections from NWREC and USDA for objective attributes related to processing potential
2. Process samples of advanced selections, selected field crosses, and standard varieties for display to and evaluation by breeders and the industry

**Project Duration:** July 1, 2017, through June 30, 2018

**OSC Funding for 2017-2018:** \$ 7860

**Results:**

2017 was one of the most messed up years I've had since I started working at OSU in 1985 – surpassed only by 2018. Even though I told our department head a year and a half ahead that I was planning to retire on April 1, 2017, and had a plan all worked out, he didn't start making anything happen until after I retired. This meant that I was left to run the whole processing season myself while being paid at 20% of full time salary. (This did get increased finally to 100% in August through the rest of the year.) A replacement was finally hired who started in December. However, his fiancée, who was in graduate school in our department, decided she didn't want to go on for a PhD and left after she completed her Masters degree. My replacement quit at the beginning of June 2018.

Due to the aforementioned chaos, during the 2017 season, we only processed the most important breeding selections and standard cultivars for display and evaluation. We did not do any chemistry analyses.

Strawberry varieties and selections from plots at the North Willamette Research and Extension Center were sent to the OSU Food Science Pilot Plant for processing from May 30 to June 20, 2017.

Six processing/dual use cultivars were processed from 1<sup>st</sup> and 2<sup>nd</sup> year plants at from 1 to 3 harvest dates.

Six processing/dual use ORUS selections were processed from 1<sup>st</sup> and 2<sup>nd</sup> year plants at from 1 to 3 harvest dates.

One processing/dual use WSU selection was processed from 1<sup>st</sup> year plants at one harvest date.

Two fresh market ORUS selections were processed from 1<sup>st</sup> and 2<sup>nd</sup> year plants at from one to two harvest dates.

One fresh market WSU selection was processed from 2<sup>nd</sup> year plants from one harvest date.

Samples were displayed at the Research Evaluation at OSU in December, 2017, and at the OSC Commission Research meeting in February, 2018.

It was a depressing and frustrating year for me.