

ORBC RESEARCH ABSTRACT 2006-2007

Title: Evaluation of processing quality of advanced caneberry breeding selections

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Blackberry varieties and selections from plots at the North Willamette Research and Extension Center were sent to the OSU Food Science Pilot Plant for analysis and processing from June 20 to August 1, 2006. Ten cultivars and fifty-one selections were analyzed and processed, many from multiple harvest dates. In all, one hundred twenty-five separate blackberry samples were evaluated. Two red raspberry cultivars and five selections as well as three fall-fruiting cultivars and five fall-fruiting selections were analyzed and processed. Ten black raspberry cultivars and one selection were processed and analyzed this year.

An evaluation of IQF samples of two thornless selections (ORUS 1442-2 and 1482-2) and two standard cultivars (Marion and Obsidian) was held at the ORBC research report meeting in January, 2006, to help determine whether these two selections had the quality characteristics required for release. Obsidian was rated highest for color and appearance. Marion was rated highest for flavor. There was no significant difference among the samples for seediness or overall quality.

Ten WSU red raspberry selections and two standard cultivars from grower trials in Washington were machined harvested, frozen, and processed into puree in the OSU Food Science Pilot Plant. Industry evaluations were held in Lynden, WA, on Feb. 15, 2006, and at the North Willamette Research and Extension Center on April 20, 2006. A consumer evaluation was held at the Food Science Department in May, 2006. The industry evaluators preferred the flavor of BC 96-21R-58, 1468, 1503 and Willamette. The consumer panel preferred the flavor of Meeker, 1503, Willamette, and 1468. Industry evaluators preferred the color of Willamette, 1468, BC 96-37-1 and 1253. Consumers preferred Willamette, 1468, BC 96-21R-58, 1503 and Meeker. For overall quality, the industry panel rated BC 96-21R-58, 1503, and Willamette highest. The consumer panel preferred Meeker, BC 96-21R-58, Willamette, 1503, and BC 96-37-1. There were no significant differences among the samples for aroma for either panel.