



Cultivar Corner

COLUMBIA STAR BLACKBERRY TESTED AS ORUS 3447-1

Inventor: Chad Finn, USDA-ARS Corvallis



COLLABORATORS

Oregon State University:
Bernadine Strik, Brian Yorgey
USDA-ARS Corvallis: Mary
Peterson, Robert Martin
USDA-ARS Parma: Jungmin Lee
**Plant and Food Research New
Zealand:** Harvey Hall

Chad Finn answers some questions about this new cultivar, released in 2008.

What makes Columbia Star special?

It's the first machine-harvestable, thornless blackberry cultivar that is high yielding and has fruit quality equal to or better than Marion, the current standard. Columbia Star fits both the fresh and frozen market, but 95% of the Pacific Northwest blackberry crop is processed, so fruit is primarily available as individually quick frozen fruit, dried, pureed, or juiced for baked goods, sauces, smoothies, cereal, and cereal bars.

When was the cross made?

2005

What is the pedigree of Columbia Star?

NZ 9629-1 and ORUS 1350-2 (Black Butte × ORUS 828-43). The dominantly controlled source of thornlessness was derived from germplasm provided by Plant & Food Research New Zealand and traces back to the Lincoln Logan source of thornlessness.

What is the size of the family from which Columbia Star was chosen?

55, a moderate size, but we tried for 100.

How long did it take for Columbia Star to go from a seedling selection to a dominant commercial cultivar?

Less than 10 years, as it quickly got the industry's "seal of approval." A grower with one of the largest blackberry acreages in Oregon happened to visit the station the day we were going over our plots with a machine harvester. He saw the fruit coming off and was really excited. Two months later he told the growers who sell to him that he would back them on planting Columbia Star and take their fruit.

Are there other siblings that have commercial potential?

Another sibling (ORUS 3447-2) will be released in 2016.

Will this cultivar be used in RosBREED and how?

Columbia Star was a parent of populations that are being used to identify genetic loci controlling fruit sweetness, which is one of the attributes contributing to its outstanding flavor.



RosBREED

DISEASE RESISTANCE × HORTICULTURAL QUALITY → SUPERIOR CULTIVARS



WWW.ROSBREED.ORG

Acknowledgements:

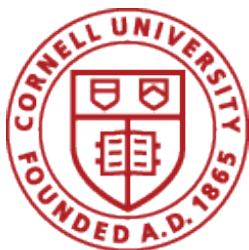
CAL POLY
SAN LUIS OBISPO

U of A DIVISION OF AGRICULTURE
RESEARCH & EXTENSION
University of Arkansas System

CLEMSON
UNIVERSITY

CEDAR LAKE
RESEARCH GROUP LLC

WASHINGTON
TREE FRUIT
RESEARCH
COMMISSION



ATM | **TEXAS A&M**
UNIVERSITY



**University of
New Hampshire**

**OHIO
APPLES**
Family Owned, Freshly Grown

TITAN
FARMS



Cherries

OSU
Oregon State
UNIVERSITY

MEISTER MEDIA
WORLDWIDE

Driscoll's
ONLY THE FINEST BERRIES™

**MICHIGAN STATE
UNIVERSITY**

UNIVERSITY OF MINNESOTA
Driven to Discover™

**california
almonds™**
Almond Board of California

**WASHINGTON STATE
UNIVERSITY**

WISCONSIN
UNIVERSITY OF WISCONSIN-MADISON

UF IFAS
UNIVERSITY of FLORIDA

**PURDUE
UNIVERSITY.**



Bear Mountain Orchards, Inc.



UNIVERSIDAD DE CHILE

Plant & Food
RESEARCH
RANGAHAU AHUMARA KAI



**THE UNIVERSITY
OF QUEENSLAND**
AUSTRALIA

UC DAVIS
UNIVERSITY OF CALIFORNIA



Newflora LLC
Exclusive agent for RosBREED in North America

CRA
CONSIGLIO PER LA RICERCA
E LA SPERIMENTAZIONE
IN AGRICOLTURA



**California
STRAWBERRIES**

**FONDAZIONE
EDMUND
MACH**

140^s



INRA

ACN INC.
SINCE 1981



WAGENINGEN UR
For quality of life

USDA

the
**MARKETING
ASSOCIATIONS**

IRTA
RESEARCH | TECHNOLOGY
FOOD | AGRICULTURE

112
102
1004

Leibniz
Universität
Hannover

RosBREED is a Coordinated Agriculture Project composed of a multi-state, multi-institution, and multi-disciplinary team of scientists dedicated to the accelerated genetic improvement of U.S. rosaceous crops using diagnostic DNA tools. This project is funded through the USDA-NIFA Specialty Crop Research Initiative by a combination of federal and matching funds.

United States Department of Agriculture
National Institute of Food and Agriculture
Agricultural Research Service