

Raspberry Plant Breeding for the Pacific Northwest



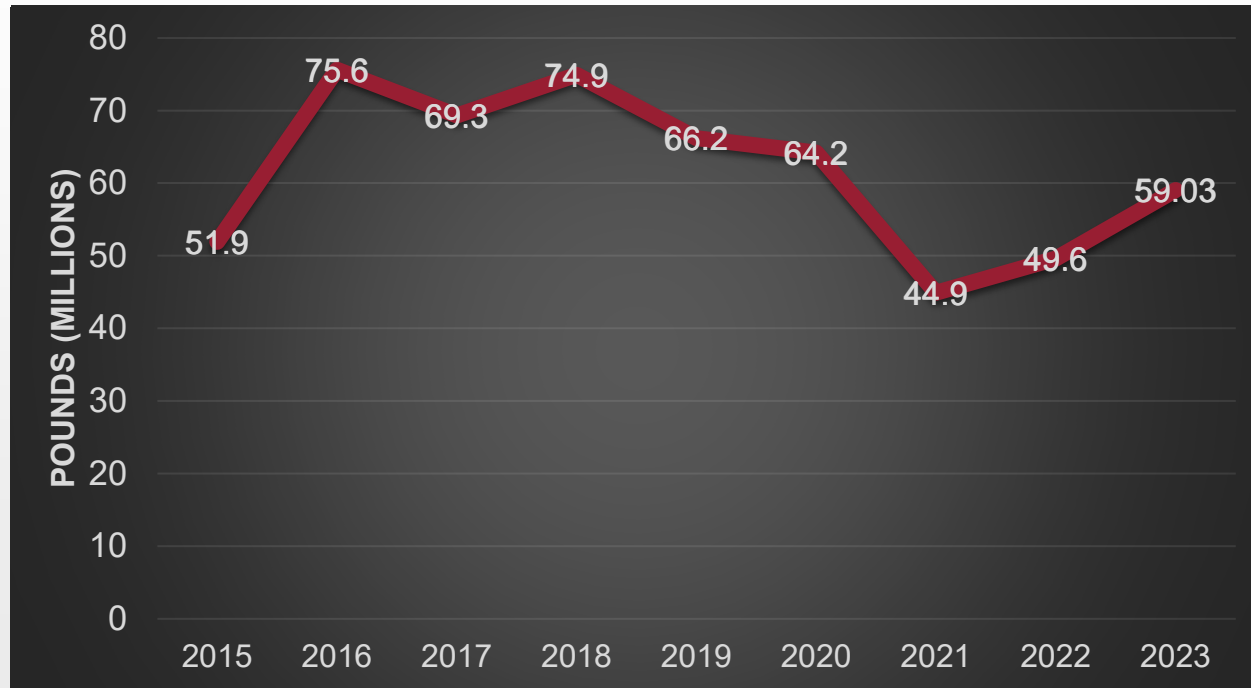
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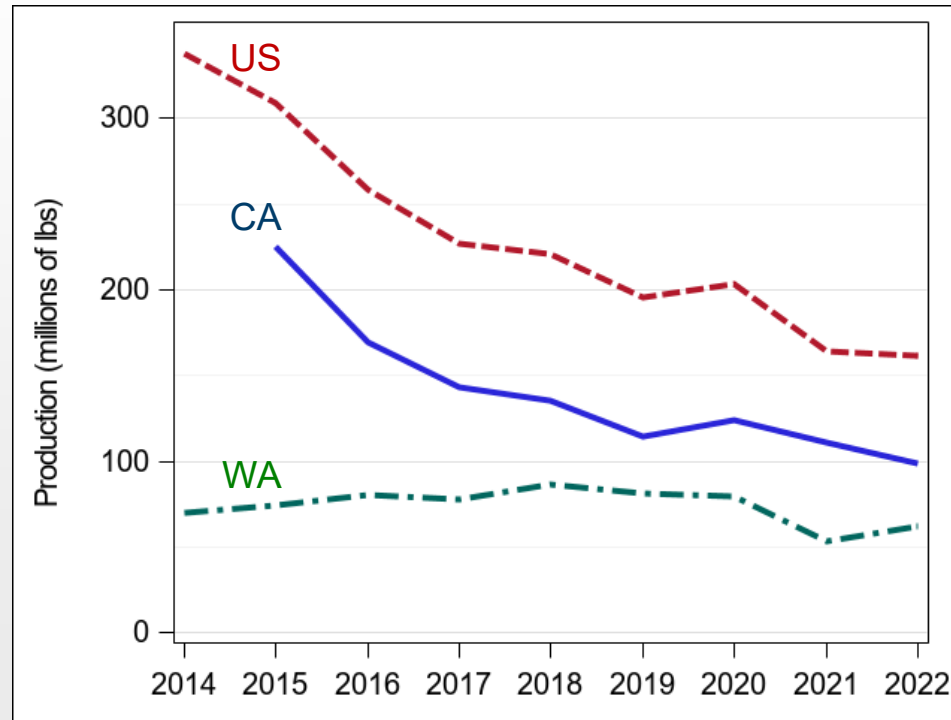
Pacific Northwest Raspberries



Washington Raspberry Production



US Raspberry Production



Source: NASS, USDA, 2024

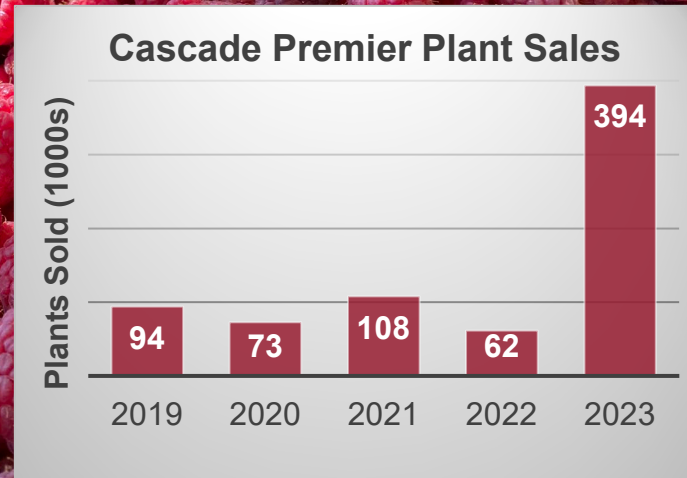
Raspberry Breeding Objectives

- Machine harvestability
- High yield
- Fruit firmness and integrity
- Quality: size, color, flavor, sol. solids
- Root rot tolerance
- RBDV resistance
- High-value processing



Cascade Premier (2018)

Cascade Premier is a high-yielding machine-harvestable cultivar for the processed raspberry industry. Early Season. Firm, large, and good-flavored fruit. Tolerant to root rot. Cane botrytis susceptible. Low winter injury. Plants available at NW Plant Co.



Cascade Harvest (2014)

Cascade Harvest continues as one of the highest yielding cultivar in our trials. It produces premier fresh fruit in PNW, with firm, large, good-looking, flavorful fruit.



Photo by Pat Moore

- Mid-season, a couple days earlier than Meeker
- Large, well shaped, firm fruit
- Seems suited to climates with lower winter chill
- Trialed for long cane production in 2023
- Moderately tolerant to root rot
- Resistant to RBDV
- Widely available at several US/Int'l nurseries

WSU 2188 (to be released)

WSU 2188 is an advanced floricanne fruiting raspberry selection. Overall, WSU 2188 tends to yield slightly higher and have slightly firmer and bigger fruit than Cascade Premier.



- Blooms and fruits similar to 'Meeker'
- Fruit is large and firm, attractive long conic, with good flavor. IQFs well.
- Root rot tolerance is good across locations; can develop cane botrytis; WSU 2188 has good winter hardiness.
- Laterals and leaves tend to be long; 18-25 fruits per lateral
- Propagated by two nurseries in WA.

Cascade Gem (license pending)

Cascade Gem is a mid-season and high-yielding red raspberry with very large, attractive, well shaped fruit for fresh market.



- In the PNW, yield and firmness is similar to the industry standard 'Meeker'.
- Performed well in EU in commercial field and long-cane production.
- Winter hardy; fairly good root rot tolerance.
- Nourse Farms propagation agreement - ~10,000 bare root plants/ ~3,000 long canes avail 2025

WSU 2029 (license pending)

WSU 2029 is an unusual, extremely late floricanefruiter. It may fit a harvest window between summer and primocane fruiting varieties.



- Fresh, very late long season
- Jul 18 – Aug 30 season - OR
- “Good flavor. It is smaller than Cascade Delight but firmer and stores well”
- 2020 Yield: 6.7 T/acre vs Cascade Delight 7.2 T/acre
- Very root rot tolerant
- In conversation with potential licensee for future plant availability for US/CN



Aug 14, 2023
Photo: Lowell Davis

Phytophthora root rot evaluations





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Northwest Center
FOR SMALL FRUITS RESEARCH



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