

Carmel 'O.S.', a Safe Bet for Your Orchard

A Variety in Demand

Although not quite as popular as the industry standard, Nonpareil, Carmel has carved out quite a niche in the market. The variety has excellent blanching and roasting qualities, enough so that it has garnered its own classification within the industry. Due to a slight decline in planting acreage over the years, production has fallen behind the demand.



Observations We've Made About Carmel O.S.

Our first plantings of Carmel 'O.S.' were planted in 2013, but it wasn't until 2014 and 2015 that significant quantities were planted. We have kept close track of these orchards that are now in fifth and sixth leaf, respectively. To date, virtually no bud failure has been observed in any of these orchards. Nearby orchards planted one to two years earlier with the widely available source 'Carmel #1', meanwhile, are showing moderate to severe symptoms of bud failure.

Selection	BF Positive %	Leaf
Carmel #1	32%	7
Carmel #1	30%	7
Carmel #1	47%	8
Carmel #1	37%	10
Carmel O.S.	0%	5
Carmel O.S.	0%	6
Carmel O.S.	0%	5

Comparison of the incidence of noninfectious bud failure of Carmel #1, the standard industry source of Carmel, and Carmel 'O.S.'

The prevailing thought in the industry has been that if an orchard can make it through the first few growing seasons with little to no symptoms, the orchard will remain productive and successful. The early indications with Carmel 'O.S.' point to a variety that is a clear improvement over the 'Carmel #1' clone that has been more commonly available.

Know the Risks

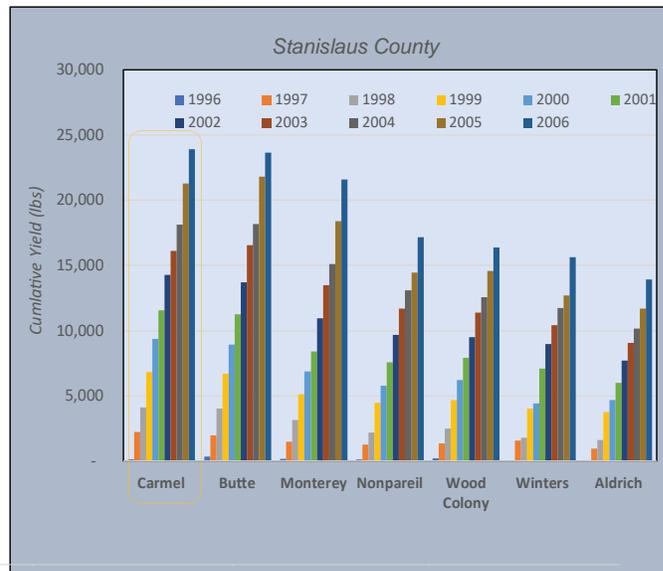
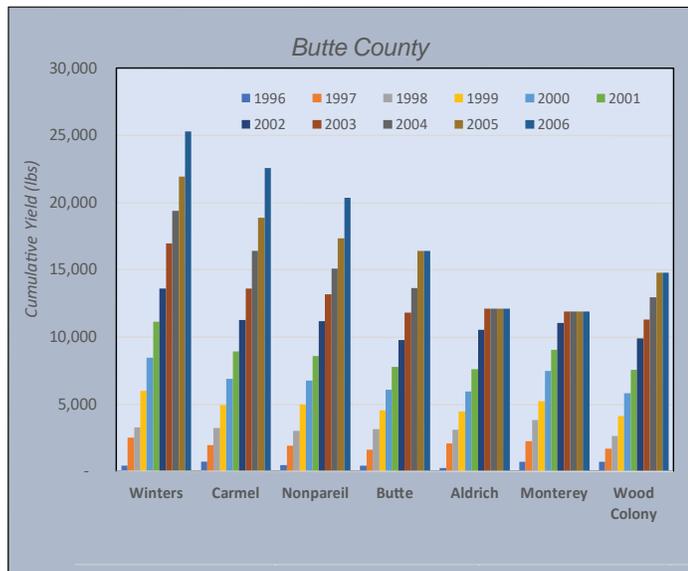
There are a lot of new varieties available to a grower today, and often times not a lot of information to work with when making big planting decisions. All it takes is one problem to make a good variety look bad. For instance, finding a good nursery source of Carmel has been a limiting factor for growers. Rootstock incompatibility, disease and bacterial susceptibilities have arisen with all kinds of varieties over the years. Planting decisions have impacts that will be felt for a long time. It pays to do your homework!



Bacterial Blast in an unreleased almond candidate variety.

The Facts about Carmel

Bloom Time: 1 to 2 days after Nonpareil
 Harvest Time: 17 days after Nonpareil
 Yield: Heavy early producer
 Shell: Soft, well sealed
 Kernel Appearance: Medium, elongated, and light colored
 Kernel Traits: Sweet, excellent for roasting and blanching
 Horticultural Traits: Tree is of low to medium vigor, spreading and upright growth habit



UC Statewide Variety Trials 1993-2006: Carmel at the Top of the Pack

Butte County			Stanislaus County		
Variety	Avg. Annual Yield	Cumulative Yield	Variety	Avg. Annual Yield	Cumulative Yield
Winters	2,489	25,311	Carmel	2,162	23,891
Carmel	2,185	22,588	Butte	2,121	23,658
Nonpareil	1,986	20,351	Monterey	1,950	21,601
Butte	1,772	16,395	Nonpareil	1,548	17,141
Aldrich*	1,690	11,749	Wood Colony	1,470	16,384
Monterey*	1,592	11,893	Winters	1,420	15,620
Wood Colony*	1,563	14,787	Aldrich	1,262	13,915

*Substantial tree loss caused early removal of these varieties in 2004



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