

UC Surflin Cultivar (2023 release)

This is a new short day cultivar from the UC Davis Strawberry breeding program. The initial breeding cross originated in 2016 and the selection 16C555P053 was made. It was subsequently tested as that number from 2019-2022. This cultivar is an early season short day variety that yields well into the season with excellent post-harvest keeping qualities.

UC Surflin produces both early and full season yields and % marketable fruit significantly higher than Fronteras and UCD Victor. UC Surflin does possess much firmer fruit than Fronteras. It performs best in fall planted production systems when harvested with at least 200 chilling hours from high elevation nurseries and grown in southern growing regions.

UC Surflin is resistant to Fusarium wilt (*Fusarium oxysporum*) and Phytophthora crown rot (*Phytophthora cactorum*), moderately resistant to Verticillium wilt (*Verticillium dahlia*) and moderately susceptible to Charcoal rot (*Macrophomina phaseolina*).

Nursery productivity for UC Surflin is superior to that of Fronteras, a well-known short-day cultivar, as comparison.

Early Yield Performance of UC Surflin in advanced trials in Oxnard and Santa Maria 2020-2022 (Yield in lbs/acre harvested from Dec-Feb)

Cultivar	2020 Oxnard	2020 Santa Maria	2021 Oxnard	2021 Santa Maria	2022 Oxnard	2022 Santa Maria	Across Location Yields
UC Surflin	6,851	2,696	9,622	9,107	7,146	6,107	6,922
UCD Victor	2,951	2,680	5,073	1,037	4,010	2,892	3,107
Fronteras	6,081	577	6,558	4,571	8,392	5,765	5,324

Performance of UC Surflin in advanced trials in Oxnard and Santa Maria 2020-2022 (Yield in lbs/acre harvested through early June)

Cultivar	2020 Oxnard	2020 Santa Maria	2021 Oxnard	2021 Santa Maria	2022 Oxnard	2022 Santa Maria	Across Location Yields	Across Location Fruit Size (g/fruit)
UC Surflin	70,307	51,115	64,068	52,241	17,496	48,894	50,687	29.6
UCD Victor	50,593	60,254	59,689	52,280	13,810	25,420	43,674	29.5
Fronteras	43,439	51,633	46,428	53,563	19,386	32,138	41,098	32.4

Disease Reaction of UC Surflin in trials at UC Davis and Cal-Poly SLO 2020-2022

Cultivar	Verticillium Resistance	Phytophthora Resistance	Fusarium Resistance	Macrophomina Resistance
UC Surflin	2	1	1	3
UCD Victor	3	2	1	3
Fronteras	3	2	1	3

Legend Acronym	Legend	Resistance Numerical Category
R	Resistant	1
MR	Moderate Resistance	2
MS	Moderate Susceptibility	3
S	Susceptible	4

Fruit Quality Assessments 2020-2022

Cultivar	BRIX %	Firmness (g force)
UC Surflin	8.2	339
UCD Victor	8	296
Fronteras	8.6	226