

Field Evaluation of Prune Rootstocks 2024 Proposal

Jaime Ott, UCCE Tehama County
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Why Prune Trees?



Why Prune Trees?

Control height (“reduce the sail”)

Reduce cropload

Regenerate fruit wood

Remove disease



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Pruning Downsides:

Expensive (hand)

Excessive growth (mechanical)

Disease





Why Plant K86?

There are other options!

SG Hybrid 6 (and others)

ATAPP

Trio

All with good anchorage

All ~80% the size of K86



Rootstock Trial

2 grower fields (Glenn Co + Tehama Co)

2 scion varieties

- Improved French

- Promising new variety (TBD)

3-5 new rootstocks

- SG Hybrid 6 (+ others)

- ATAPP

- Trio

2 standard rootstocks for comparison

- Krymsk 86

- 29C

Rootstock Trial

Improved French

ATAPP	Krymsk86	Trio	29C	Trio
Trio	ATAPP	SG Hyb	SG Hyb 6	SG Hyb 6
SG Hyb 6	SG Hyb	SG Hyb 6	SG Hyb	29C
SG Hyb	Trio	Krymsk86	Krymsk86	Krymsk86
SG Hyb	SG Hyb	ATAPP	SG Hyb	ATAPP
Krymsk86	29C	SG Hyb	ATAPP	SG Hyb
29C	SG Hyb 6	29C	Trio	SG Hyb

New variety

ATAPP	29C	SG Hyb 6	SG Hyb 6	Krymsk86
Trio	Krymsk86	SG Hyb	29C	ATAPP
SG Hyb 6	Trio	SG Hyb	SG Hyb	SG Hyb
SG Hyb	SG Hyb 6	ATAPP	Trio	29C
SG Hyb	ATAPP	Krymsk86	ATAPP	SG Hyb 6
Krymsk86	SG Hyb	Trio	Krymsk86	SG Hyb
29C	SG Hyb	29C	SG Hyb	Trio

RCBD with 6 trees of each rootstock per plot, 5 reps per variety

Objectives

April 2024- March 2025:

- Identify two grower collaborators

- Plant trials Fall 2024 through Winter of 2025

April 2025-2032:

- Evaluate five new rootstocks under “Improved French” and a promising new variety

Data

Tree size: trunk circumference, light interception, canopy size

Production: yield, dry away, fruit size

Disease: type, incidence, severity

Budget, 2024

Supplies:	15,100.00
Trees (1000 trees @ \$10.50/tree)	10,500.00
Planting materials (stakes, tree tie, flagging, etc.)	2,000.00
Soil testing (nematodes + soil characteristics, 8 samples @ \$200 per sample)	1,600.00
Monitoring materials (flagging, paint, stakes, bags, tape, etc.)	1,000.00
Travel:	1,200.00
N. Ott travel (to field sites for trial establishment + monitoring, presentations at meetings)	600.00
B. Wheeler-Dykes (to field sites for trial establishment + monitoring, presentations at meetings)	600.00
TOTAL BUDGET REQUEST	16,300.00

Questions or Comments?

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