

### NATIONAL TREE CROP

Intensification In
Horticulture Program
(AS18000)

### ALMOND































# PFR High Density + 2D Canopies

### High Density + 2D canopies

AIM: To understand the performance of cultivars with different architectural traits, on vigour-controlling rootstocks, to growing in super high density and 2-dimensional systems.

Panned measurements:

- ✓ precocity (reach marketable harvest faster)
- ✓ light interception (light within the lower canopy)
- ✓ Fruiting habit/position (wood age, wood type, position)
- ✓ productivity
- ✓ water use efficiency
- ✓ responses to pruning cuts
- √ vigour













# PFR High Density + 2D Canopies

#### Planted in August 2022

#### Cultivars and rootstocks:

- ✓ UA102 (R36T212) on 'Nemaguard'
- ✓ 'Marinada' on Nemaguard (to be planted in 2024)

#### Row spacing:

✓ 4.5 and 3.5 m

#### Growing systems:

- ✓ Tall, narrow "slender pyramid" shaped trees
- ✓ Informal "planar cordon" type-tree





# 2D canopies



2D almond canopy growing in New Zealand















# 2D canopies



2D almond canopy growing in New Zealand









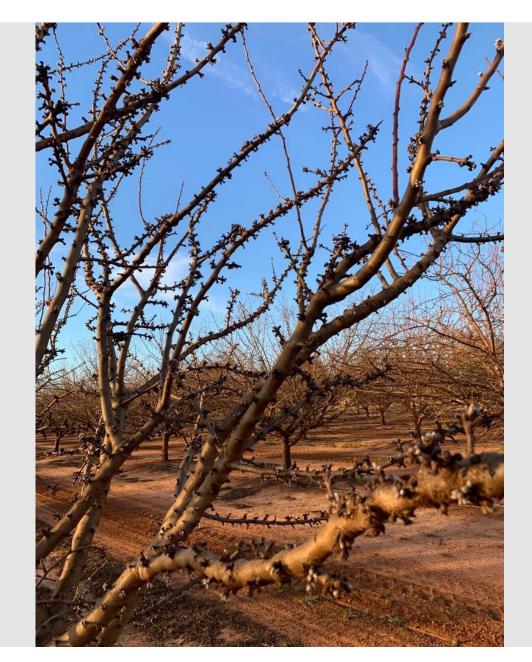






## Cultivar 'Marinada'





- How does this cultivar behave in a planar cordon canopy system?
- How would it respond to mechanical pruning cuts?



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# THANK-YOU