Propagating Dwarfing Olive Rootstocks and Establishing a Long Term Orchard

- Progress Report, July 21, 2016
Objective

• Establish an orchard with dwarfing rootstocks:
  • Mechanical harvesting
  • General olive production
Mechanical Pruning & Harvesting
2008 - 2015

4 x 8 m = 335 trees/hectare
> 200 genetically different olives
Selected Rootstocks

- Nikitskaya
- *Olea cuspidata*
- Verticillium Resistant Oblonga
- Dwarf D/Little Ollie
- Manzanillo: ungrafted and self grafted controls*
- Sevillano: pollinizer*

*purchased from nursery*
Olea cuspidata

Chalkidiki
Verticillum Resistant Oblonga
Planted in 2014:
Four replications of four dwarfing rootstocks + Manzanillo self graft and ungrafted control (Sevillano pollinator)
Split plot with 2 spacings: 8 and 10 X 16’
272 and 311 trees per acre
Pruned to nurse limbs
May 2, 2016
Desired Outcomes

- Smaller trees and more trees/acre
- Better and earlier yields
- Able to trunk shake longer
- Possible Verticillium trial later
2016 Objectives:

- Finish grafting all rootstocks, once the 2015 plants are established
- Collect data to study the growth differences among the scions on the different rootstocks compared to the controls
Thank you!
Questions?