

# New High Quality OLL Sweet Orange Clones Showing Increased Huanglongbing Tolerance

**Researchers:** Jude Grosser, Fred Gmitter, John Chater, Maria Brenelli

**Contact:** Jude Grosser, [jgrosser@ufl.edu](mailto:jgrosser@ufl.edu)

UF/IFAS CREC



**Summary:** The °Brix crisis in Florida's oranges continued this past season. New improved sweet orange clones that reliably produce higher °Brix are desperately needed to maintain Florida not from concentrate (NFC) juice quality, especially in fruit harvested from young trees. From a large population of somaclone-derived nucellar seedlings from commercially available OLL-8, we identified two new late season OLL (Orié & Louise Lee) clones that are

showing enhanced HLB tolerance, and ability to produce fruit with high °Brix from young trees. These two clones, OLL-DC-3-36 and OLL-DC-3-40 continue to show significantly better HLB tolerance than 'Valencia', and are now available in the Parent Tree Program (PTP) for trials under an Materials Transfer Agreement (MTA), as we work towards budwood scaleup and commercialization. OLL sweet oranges make the best orange juice in the world, so these two new OLL

clones with enhanced HLB tolerance should play a critical role in rescuing our industry.

#### **Take Home Message:**

- These two new OLL sweet orange clones are clearly more HLB-tolerant than 'Valencia'.
- These two new OLL clones are capable of producing high °Brix fruit on young trees.
- OLL sweet oranges have higher juice quality than 'Valencia'.

#### **Funding:**



Lee Family Groves (St. Cloud)