

Other New Introduced Cultivars

Tracy L. Kahn, Curator and Givaudan Citrus Variety Collection
Endowed Chair, UCR

Website: <https://citrusvariety.ucr.edu/>



Thanks to David Karp, Toni Siebert and Karene Trunnelle for the amazing photographs.

The Plan

- Today focus on introductions not results of breeding program
- Either already available at CCPP, soon to have CCPP VI or in the process.
 - Process of release from quarantine and VI assigned then propagation of trees for budwood
- If interested breeding program hybrids, attend UCR Citrus Day.



Save The Date

UC Riverside
CITRUS DAY FOR THE INDUSTRY

Wednesday, January 29, 2020

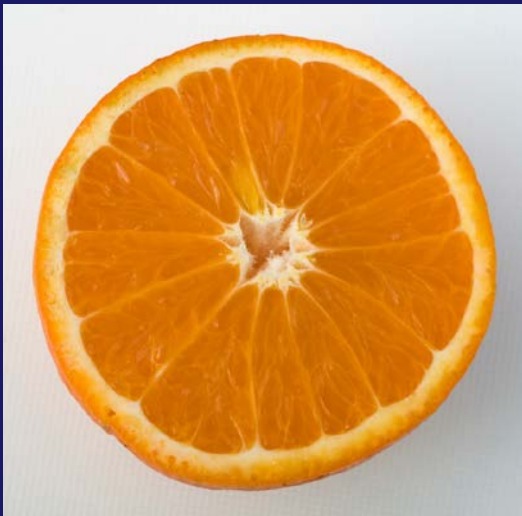
UC Riverside Agricultural Operations
1060 Martin Luther King Blvd
Riverside, California 92507

Registration: 7:30 AM
Program: 8:00 AM - 3:00 PM

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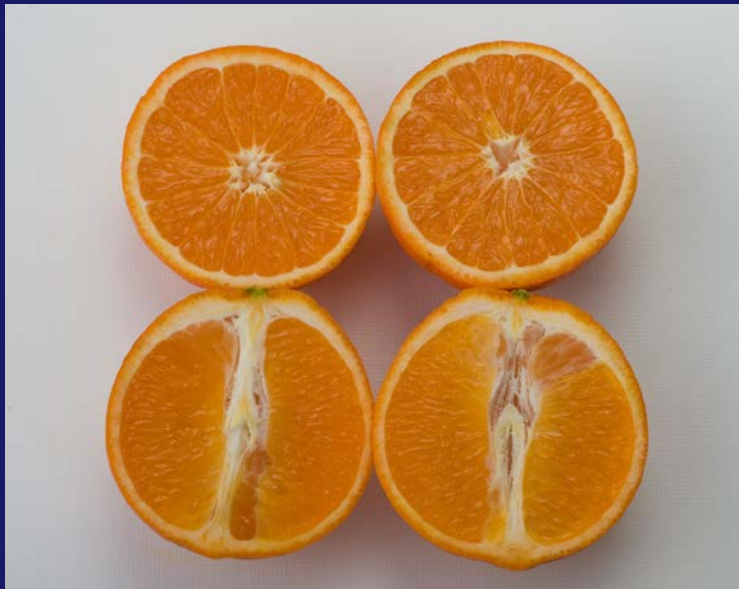
CITRUS RESEARCH BOARD

US Superna VI 501



- Sometimes development & naming follows a circuitous route.
- Referred to as either Lee x Nova, Supernova or USDA 88-2
- Created by Jack Hearn (USDA, FL) in 1966. Low production in FL but believed US Superna “best tasting” citrus of career.
- Also believed this seedless selection might have commercial value in CA so sent to CCPP in 1988.
- Distribution began in California as USDA 88-2 September 2007.
- USDA announced official name and release June 2019 completing this journey.

US Superna VI 501



- Evaluations conducted as part of our (Kahn and Siebert) CRB-funded research from 1996-2002
- See table in handout of comparison with Fina Sodea fruit on Carrizo and C35 from Lindcove. More data at our website in evaluation data for USDA 88-2
- Fruit had slightly higher Brix yet similar acidity in late-Oct./early-Nov.
- By mid-Dec. fruit had higher Brix and slightly lower acidity than Fina Sodea, with larger fruit and better rind color.
- Although under heavy cross-pollination, less than 1 seed/fruit; Fina Sodea 3.7 to 12/fruit.

US Superna VI 501



For budwood currently listed as USDA 88-2, VI 501) visit CCPP: <http://www.ccpp.ucr.edu> for more information.

- Supernova name (not trademarked), coined by LoBue Bros. first planted US Superna in 2010 on Rich 16-6 and Pomeroy.
- Robert described fruit as seedless, with dark orange color, and great fragrance and flavor.
- Medium producer compared to Tango.
- Some alternate bearing, a large “June drop” and size typically 113 navel orange size.
- Can harvest warm but need chilling while packing. Trees respond best grown on good soil with minimal stress.
- Harvest from mid-Dec. at Lindsey, when rind orange since sweating is not effective.
- Emily Ayala, Friend’s Ranches harvested in late Jan. and early Feb. in 2018. “Excellent flavor and consumer acceptance”.

Shahani Red Navel

- Multi-year journey started with UCR extension course
- Frank Shahani donated selection to UCR
- Carrizo and Citrange rootstocks
- Amazing color, flavor, small navel.
- Showed fruit at UCR Citrus Day 2018
- Entered into most recent VI index at CCPP. If all tests negative, projected quarantine release July 2020.
- More information and data listed at

<https://citrusvariety.ucr.edu/citrus/shahani.html>



Shahani Red Navel



Citrograph Fall 2018 Article



- Evaluations from Riverside over 5 years.
- Shahani slightly higher Brix than either Moro or Sanguinelli at each of sample dates.
- Acidity highest for Sanguinelli, with Moro intermediate for all but April date. Shahani lowest acidity for all dates.
- Brix acid ratio reflects both early high acidity of Sanguinelli and the consistently high SSC of Shahani.
- Avg. fruit wt. consistently heavier than that of Moro or Sanguinelli. Finer rind texture than either Moro or Sanguinelli
- Consistently less seedy than either Moro or Sanguinelli

Amoa 8 tangor VI 925



- Moro x Willowleaf mandarin hybrid developed introduced as seed from Dr. Russo Sicily in 2002.
- Cultivar in collection with highest anthocyanin pigmentation.
- Not particularly attractive but interesting flavor and distinctive.
- Used in breeding program to increase external and internal pigmentation.
- Carrizo, C-35 citrange rootstocks
- Matures in Riverside Dec. to Jan.
- Quarantine release completed and trees propagated. Budwood distribution in 2021. Early release of 6-12 buds Feb/March 2020

Variegated Cara Cara



- Budsport discovered on Cara Cara tree in CVC 2006.
- Small yields of variegated fruit with greater lycopene/pink pigmentation than Cara Cara.
- Good flavour but not very juicy.
- Carrizo and C-35 citrange rootstocks
- Maturity in Riverside Dec. to Jan.
- Could enter 2019 VI index and if all test negative then projected quarantine release for late summer/fall 2020.



Excalibur Red Lime VI 924



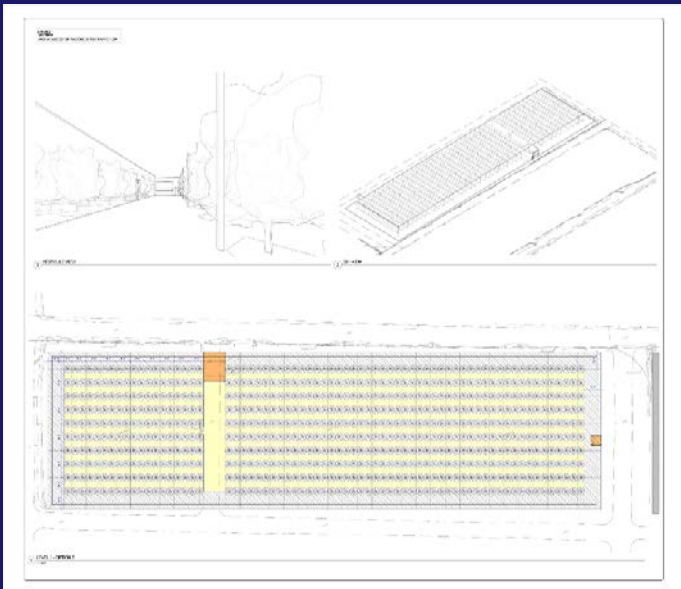
- Attractive, acid fruit, orange flesh, seedy, good flavour and fragrance
- David Karp introduced niche cultivar from Richard and Lynda Wilson at Excalibur Rare Fruit Tree Nursery in Lake Worth, Fla
- Parentage unknown but purportedly Kumquat x Rangpur hybrid
- Yuma Ponderosa lemon rootstock
- Matures in Riverside Jan. to March
- Quarantine release completed and trees propagated.
- Budwood distribution in 2021. Early release of 6-12 buds Feb/Mar. 2020



Update on UCR Citrus Variety Collection (CVC) CUPS Structure



- All CVC accessions all backed up in screened greenhouses.
- Need backup for breeding and evaluation as HLB infections increase.
- Donations from Givaudan and others making it possible to build 2 acre “CUPS” structure.
- Slated for completion first quarter of 2020.





We Thank the Citrus Research Board and the California Citrus Growers for Support of this Research



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