

# CITRUS BUDWOOD

## Annual Report 2019-2020



Florida Department of Agriculture and Consumer Services

## Bureau of Citrus Budwood Registration

Ben Rosson, Chief

We are now entering the 67th year of the Citrus Budwood Registration Program. And what a year it has been! Who would have thought that the simple things in life like going out to eat and family gatherings would have changed so much? The Budwood program has also changed over the past year with the addition of new employees, shifts in production and adopting department-wide updates in processes and procedures. Throughout the Covid 19 pandemic, we have been steadily working to ensure that we continue to provide uncompromised budwood and services while maintaining a safe, productive working environment for our employees while focusing on remaining the same in quality, controls and distribution.

We were fortunate to be able to hire Dennis Connolly to oversee the new Chiefland seed source block on a daily basis to help ensure the success of the project and we harvested the first handful of seeds for the program. We are adding trees to the block as they are produced, and as new information comes in from researchers on promising varieties. Also this year, the first trees were planted in the LaCrosse Foundation backup facility with trees received from Chiefland and new releases from the program. There are currently over 100 trees planted in the facility with room for expansion as necessary. We are continually streamlining the collection and extraction process. We have been able to provide timely results to the industry while still maintaining the cleanup process for the multiple new introductions from within and outside of the State. The Florida program has made thousands of parent tree selections over the years.

Our Winter Haven location maintains the Florida Citrus Arboretum which currently showcases over 200 trees including unique and historical varieties. If you haven't been there lately, please plan a trip to see the updates we have made to the grounds! The Bureau has also been heavily involved in the Indian River Grapefruit Scion/Rootstock trial and with much anticipation it looks like we are coming close to the goal of getting these trees in the ground so that we can gather data and hopefully find a combination that works. While Covid may have changed the way that we interact with the industry, you can rest assured that our commitment and dedication to providing clean material stays the same.

| Bureau of Citrus Budwood Registration<br>Staff Members                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | 26 Fulltime employees (FTE), 4 OPS positions<br>Chiefland 4 FTE, 1 OPS<br>Winter Haven 13 FTE, 2 OPS<br>LaCrosse 9 FTE, 1 OPS |                                                                 |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|-------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------|
| Name                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                | Position Title                                                                                                                |                                                                 |
| LACROSSE - CITRUS GERMPLASM INTRODUCTION PROGRAM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                |                                                                                                                               |                                                                 |
| Ben Rosson                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                | Bureau Chief                                                                                                                  | Chief of Citrus Budwood Registration – DACS 001347 386-853-6446 |
| Kristen Helseth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | Biological Administrator III – SES                                                                                            | Program Manager 001348 386-853-6447                             |
| James Coleman                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | Biological Scientist IV - SES                                                                                                 | Phase I Lab Manager 001331 386-853-6449                         |
| Rinu Kooliyottil                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                | Biological Scientist IV                                                                                                       | Laboratory Testing 001582 386-853-6450                          |
| Regina Fairbanks                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                | Biological Scientist III                                                                                                      | CGIP Lab 001922 386-853-6451                                    |
| Kin-Kwan Lai                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                | Biological Scientist IV – SES                                                                                                 | Phase II Lab Manager 001389 386-853-6452                        |
| Dario DiGenova                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                | OPS Lab Tech IV                                                                                                               | Laboratory Testing 913165 352-395-4989                          |
| Elizabeth Parrish                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | Agriculture & Consumer Prot Spec                                                                                              | Greenhouse Caretaking 001346 352-395-4738                       |
| James DeVelario                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | Laboratory Technician IV                                                                                                      | Greenhouse Caretaking 003772 352-395-4996                       |
| Vester Coggins                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                | Maintenance Mechanic                                                                                                          | Phase I & II 001625 386-853-6448                                |
| WINTER HAVEN – CITRUS BUDWOOD & CITRUS NURSERY INSPECTION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                |                                                                                                                               |                                                                 |
| Justin Ezell                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                | Operations & Mgmt Consultant Mgr - SES                                                                                        | Program Administration Winter Haven 004328 863-298-3042         |
| Karen Ouellette                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | Management Analyst II – SES                                                                                                   | Source Tree Records 001353 863-298-3045                         |
| Randall Dean                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                | Environmental Supervisor I - SES                                                                                              | Citrus Nursery Inspection Supervisor 004458 863-298-3039        |
| Donald Taylor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | Environmental Specialist II                                                                                                   | Citrus Nursery Inspection 004464 863-298-3037                   |
| Peter Carbon                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                | Environmental Specialist II                                                                                                   | Citrus Nursery Inspection 000260 352-395-4705                   |
| Ashley Nolen                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                | Environmental Specialist II                                                                                                   | Citrus Nursery Inspection 004342 863-201-6095                   |
| Johnny Yates                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                | Environmental Specialist II                                                                                                   | Citrus Nursery Inspection 004350 863-298-3037                   |
| Craig Landress                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                | Environmental Specialist II                                                                                                   | Citrus Nursery Inspection 004444 863-201-6095                   |
| Ana Lebron-Rivera                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                | Environmental Specialist II                                                                                                   | Citrus Nursery Inspection 001435 863-298-3043                   |
| Kaleigh Walker                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                | Biological Scientist III                                                                                                      | Parent Tree Cleanup 001252 863-298-3052                         |
| Kacie Gmitter                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | OPS Laboratory Technician I                                                                                                   | Lab Assistant 900395 863-298-3047                               |
| Meta Roth                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                | Agricultural Technician III                                                                                                   | Greenhouse Caretaking 001414 863-298-3051                       |
| Mercedes Jusino                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | Laboratory Technician II                                                                                                      | Greenhouse Caretaking 001350 863-298-3051                       |
| Joe Hanus                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                | Grounds keeping Supervisor II – SES                                                                                           | Arboretum Caretaking 001948 863-298-3045                        |
| James Bouie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                | OPS Agricultural Technician II                                                                                                | Part-time Arboretum Caretaking 901151 863-298-3045              |
| CHIEFLAND – CITRUS BUDWOOD FOUNDATION                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                |                                                                                                                               |                                                                 |
| Marc McCaskill                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                | Operations & Mgmt Consultant Mgr - SES                                                                                        | Chiefland Foundation Budwood Distribution 004313 352-493-6801   |
| Shelby Sheppard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | Administrative Secretary                                                                                                      | Receptionist & Budwood Orders 001352 352-493-6801               |
| George Miller                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | Agriculture & Consumer Protection Specialist                                                                                  | Greenhouse Caretaking & Budwood Cutting 001351 352-493-6801     |
| Dennis Connolly                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                | Environmental Supervisor I – SES                                                                                              | Chiefland Seed Source Block 001342 352-493-6801                 |
| Stacy Webster                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                | OPS Ag Tech II                                                                                                                | Chiefland Seed Source Block 914292 352-493-6801                 |
| Citrus Budwood Technical Advisory Committee Members                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                                                                                                                               |                                                                 |
| Representative                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                |                                                                                                                               |                                                                 |
| Grower                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Nursery        | Regulatory                                                                                                                    | Research                                                        |
| Peter Chaires                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Michael Monroe | Dr. Susan Halbert                                                                                                             | Dr. Kim Bowman                                                  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | John Gose      | Kristen Helseth                                                                                                               | Dr. Fred Gmitter                                                |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Nate Jameson   | Ben Rosson                                                                                                                    | Dr. Mark Hilf                                                   |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | *Phillip Rucks | Justin Ezell                                                                                                                  |                                                                 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Tommy Thayer   |                                                                                                                               |                                                                 |
| *Committee Chairman                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                |                                                                                                                               |                                                                 |
| <p>The Citrus Budwood Technical Advisory Committee provides oversight to the Citrus Nursery Stock Certification Program. The committee last met October 16, 2019. Members voted unanimously to receive and review a list of current Chiefland varieties in order to pare down excessive inventory to address the ongoing shortage of space in the foundation greenhouses. Seven new varieties were approved for introduction into the clean stock program at LaCrosse. Ben Rosson noted that the LaCrosse Greenhouses Phase I and Phase II are being evaluated for approval by the USDA for the process of switching the material housed in these greenhouses in order to be more efficient with the use of available space.</p> |                |                                                                                                                               |                                                                 |

## Florida Citrus Nursery Participants

37 Florida citrus nurseries and 3 research agencies reported making propagations in the 2019-2020 fiscal year.

The data table closed August 12, 2020. Any budwood cutting reports submitted after that date were not recorded. It is imperative to submit budwood cutting reports as soon as propagations have been made in order for the information to be as accurate as possible.

| PART# | PARTICIPANT NAME                  | Nursery Type | PART# | PARTICIPANT NAME                     | Nursery Type |
|-------|-----------------------------------|--------------|-------|--------------------------------------|--------------|
| 0968  | Agromillora Florida, Inc.         | TC           | 0738  | Joshua Citrus Nursery                | OU           |
| 0888  | James H. Albritton                | OU           | 0199  | Lykes Citrus Division                | C            |
| 0821  | Robert J. Barben, Inc.            | C            | 0882  | McGill Citrus Nursery, Inc.          | C            |
| 0955  | Blue Heron Nurseries, LLC         | C            | 0952  | Murphy Citrus Nursery, Inc.          | C            |
| 0805  | Brewer Citrus Nursery             | C            | 0972  | Old South Nursery                    | C            |
| 0876  | Brite Leaf Citrus Nursery, LLC    | C            | 0817  | Petteway Growers                     | C            |
| 0969  | Citrific Holdings, Inc.           | C            | 0384  | Philmon Citrus Nursery               | C            |
| 0960  | CitriSun Nurseries, LLC           | C            | 0535  | Pokey's Lake Jem Citrus Nursery      | C            |
| 0913  | Cutrale Farms, Inc.               | C            | 0974  | Propagations Unlimited, Inc.         | C            |
| 0961  | Dilley Citrus Nursery, Inc.       | C            | 0625  | Rasnake Citrus Nursery               | C            |
| 0799  | K & C Farmer Citrus Nursery, Inc. | C            | 0778  | Reclamation Trees                    | C            |
| 0929  | Franklin D. Fender Citrus Nursery | C            | 0832  | Record Buck Farms, Inc.              | DY, WHSL     |
| 0801  | Fiddler's Ridge Farms, Inc.       | C            | 0721  | Phillip Rucks Citrus Nursery, Inc.   | C            |
| 0728  | Flood Clinch Lake Nursery         | C            | 0033  | Southern Citrus Nurseries, LLC       | C            |
| 0702  | Floyd & Associates, Inc.          | C            | 0700  | Southern Gardens Citrus Nursery, LLC | C            |
| 0522  | W. E. Green & Sons Citrus Nursery | C            | 0753  | Southridge Citrus Nursery, Inc.      | C            |
| 0519  | Ben Hill Griffin, Inc.            | C            | 0948  | Sun Ag LLC                           | C            |
| 0433  | Himrod Citrus Nursery, Inc.       | C            | 0001  | Wards Nursery, Inc.                  | C            |
| 0355  | Holmberg Farms, Inc.              | C, DY        |       |                                      |              |

### Nursery Type

C = Commercial

OU = Own use

DY = Dooryard

WHSL = Wholesale

RE = Research

TC = Tissue culture or micro-propagation

### PART#

### Research Agencies Propagating

1004

UF - CREC

RE

1008

USDA - FT. Pierce

RE

1101

UF-University of Florida - Gainesville

RE

2037 propagations were reported by research agencies.

Mandatory regulation since 1997

Mandatory greenhouse production since 2007

Budwood can only be sold to registered citrus nurseries or citrus research agencies.

### USDA Interstate Rule Revision

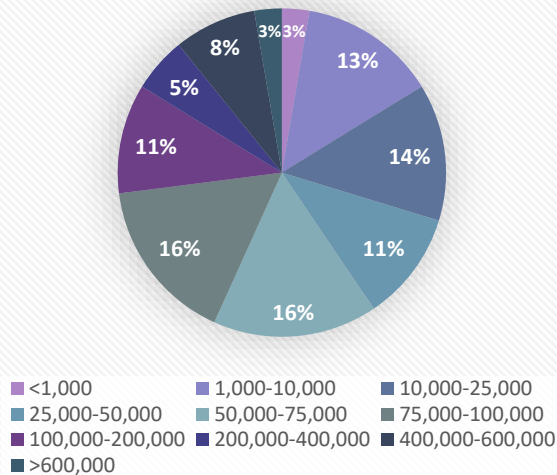
The USDA revised their interstate rule to allow citrus producing states outside of Florida to ship trees to other citrus producing states under federal law. Florida has been getting requests for budwood and tree shipments from other states since that rule came into effect. Currently some states requirements for shipping interstate do not meet the standards of Florida rule which is designed to protect the industry. Texas and California have clean stock programs and have been getting budwood from Florida. The interstate rule gives states authority over that of the federal law. 5030 bud eyes were distributed out of the state in the 2019-2020 Fiscal Year.

## Citrus Nursery Activity

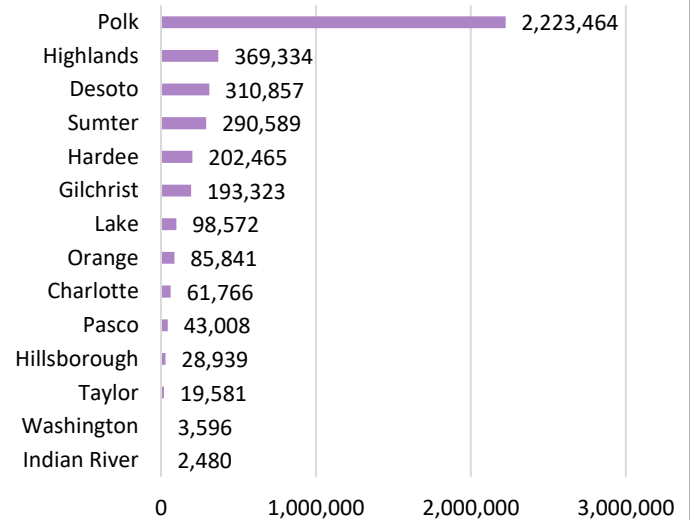
The 2019-2020 annual report was based on information from 37 registered citrus nurseries. Nursery propagations were obtained from the amount budded on the Budwood Cutting Reports, not including research facilities and out of state. There are 59 registered citrus nurseries, 22 did not submit budwood cutting reports by the close of the reporting period.

| 3,933,815<br>nursery<br>propagations in<br>2019-2020 from 37<br>active citrus<br>nurseries | # of Propagations | 2019 | 2018 | 2017 | 2016 | 2015 | 2014 |
|--------------------------------------------------------------------------------------------|-------------------|------|------|------|------|------|------|
|                                                                                            | <1,000            | 1    | 1    | 3    | 4    | 3    | 3    |
|                                                                                            | 1,000-10,000      | 5    | 10   | 10   | 18   | 11   | 9    |
|                                                                                            | 10,000-25,000     | 5    | 2    | 9    | 6    | 9    | 9    |
|                                                                                            | 25,000-50,000     | 4    | 8    | 7    | 6    | 10   | 8    |
|                                                                                            | 50,000-75,000     | 6    | 4    | 3    | 3    | 5    | 5    |
|                                                                                            | 75,000-100,000    | 6    | 3    | 0    | 4    | 4    | 5    |
|                                                                                            | 100,000-200,000   | 4    | 7    | 6    | 8    | 6    | 6    |
|                                                                                            | 200,000-400,000   | 2    | 5    | 4    | 3    | 4    | 5    |
|                                                                                            | 400,000-600,000   | 3    | 1    | 2    | 1    | 1    | 2    |
|                                                                                            | >600,000          | 1    | 0    | 0    | 1    | 1    | 0    |
|                                                                                            |                   | 37   | 41   | 44   | 54   | 54   | 52   |

Citrus Nursery Propagations 2019-2020

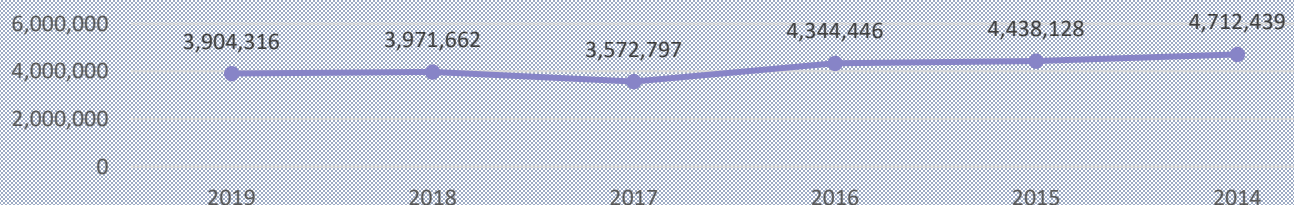


Propagations by County

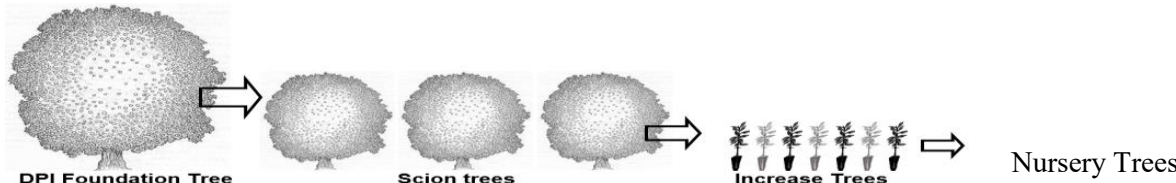


| Propagation Trend                     | 2019      | 2018      | 2017      | 2016      | 2015      | 2014      |
|---------------------------------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Number Propagations Reported          | 3,933,815 | 3,971,662 | 3,572,797 | 4,344,446 | 4,438,128 | 4,712,439 |
| Propagations Change by                | (37,847)  | 398,865   | (771,649) | (93,682)  | (274,311) | 11,711    |
| Percent Change (increase or decrease) | (.95)%    | 11.16%    | (21.6) %  | (2.11) %  | (5.8) %   | .3%       |
| Nurseries Increasing Production       | 17        | 21        | 15        | 25        | 15        | 25        |
| Nurseries Decreasing Production       | 17        | 13        | 28        | 24        | 33        | 21        |
| New or Resumed Production             | 3         | 7         | 1         | 3         | 6         | 5         |
| Nurseries Not Reporting Propagations  | 22        | 15        | 10        | 2         | 4         | 1         |

# Propagations Reported 6 Year Trend



| Budwood Source Trees                                                                                                                                          |              |        |        |                                                       |                                                                                                    |           |           |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|--------|--------|-------------------------------------------------------|----------------------------------------------------------------------------------------------------|-----------|-----------|
| Scion Trees                                                                                                                                                   |              |        |        |                                                       |                                                                                                    |           |           |
| New Scion trees must originate from Chiefland foundation budwood.                                                                                             |              |        |        |                                                       |                                                                                                    |           |           |
|                                                                                                                                                               |              | #Trees |        | (Not including Research participants or out of State) |                                                                                                    |           |           |
| Category                                                                                                                                                      |              | 2019   | 2018   |                                                       | Scion Blocks                                                                                       | 2019      | 2018      |
| Seed Source                                                                                                                                                   |              | 8869   | 8557   |                                                       | Participants with Scion Blocks                                                                     | 25        | 24        |
| Budwood Scion                                                                                                                                                 |              | 3092   | 2527   |                                                       | Number of Scion Blocks (Budwood)                                                                   | 38        | 35        |
|                                                                                                                                                               | Sweet Orange | 2154   | 1864   |                                                       | Participants with Seed Source Blocks                                                               | 21        | 23        |
|                                                                                                                                                               | Grapefruit   | 355    | 104    |                                                       | Number of Seed Source Blocks                                                                       | 32        | 44        |
|                                                                                                                                                               | Mandarin     | 349    | 356    |                                                       | #Bud eyes cut                                                                                      |           |           |
|                                                                                                                                                               | Lemon/Lime   | 142    | 123    |                                                       | Foundation *                                                                                       | 225,786   | 333,337   |
|                                                                                                                                                               | Pummelo      | 23     | 11     |                                                       | Scion                                                                                              | 1,776,554 | 1,599,732 |
|                                                                                                                                                               | Kumquat      | 24     | 25     |                                                       | Increase                                                                                           | 1,983,995 | 2,125,112 |
|                                                                                                                                                               | Other        | 45     | 44     |                                                       | Total                                                                                              | 3,986,395 | 4,058,181 |
|                                                                                                                                                               | Total        | 11,961 | 11,084 |                                                       | * The figure from the database may be lower or higher than the figure actually cut from Chiefland. |           |           |
| During the 2019-2020 fiscal year a total of 510 new scion trees were added by 11 citrus nurseries and 990 seed source trees were added by 3 citrus nurseries. |              |        |        |                                                       |                                                                                                    |           |           |

| Increase Trees                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |  |           |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-----------|
| <u>Label Increase Trees with the Originating BCR Number</u><br>Use the BCR-number of the original Source Tree Bud Cutting Report that established the block to identify the origin of the propagations every time the increase block is cut. Increase trees can only originate from scion trees or Chiefland Foundation budwood.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  |           |
| <u>Increase Block Expiration and Extension</u><br>Approved increase blocks shall be used as a source of propagation material for a period of up to 36 months from budding or extended to a maximum of 60 months with composite diagnostic testing prior to the 36-month expiration date. <ul style="list-style-type: none"><li>• The increase block will need to be tested using a composite tree sampling method. Testing will include all graft transmissible diseases. If any test results in a positive detection the whole block will be void from further use.</li><li>• At least one test per variety, regardless of the number of trees in the block.</li><li>• At the end of 60 months these trees will need to be removed from the greenhouse. They will not be eligible to be converted into scion.</li></ul> |  |           |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |
| Total bud eyes cut from Increase Blocks (IB)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |  | 1,983,995 |
| % of all B/W originating from IB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |  | 50%       |
| # Nurseries reported cutting IB                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  | 29        |
| Valencia SPB-1-14-19 was the most popular variety-clone cut from increase blocks at 814,255 budeyes cut.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |           |
| Valencia SPB-1-14-19 on US-942 rootstock was the combination most budded from increase blocks at 208,383 propagations.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |           |
| <div></div>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |  |           |

| Top 15 Scion Varieties |                           |           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
|------------------------|---------------------------|-----------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                        | Variety Clone             | # Budded  | Description                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 1                      | Valencia SPB-1-14-19      | 1,517,554 | A Hughes nucellar line, entered budwood program in 1955. These SPB-1 trees are the first selections from open pollinated Valencia seedlings in a grove planted by Dr. and Mrs. Ausker Hughes near Plymouth in Orange County in 1941. The nucellar characteristics made them more cold hardy than the old-line selections. Fruit production is better than the old-line selections. They have become the most popular Valencia selections in Florida. Similar to SPB-1-14-31, and SPB-1-12-7.                                                                                                                                                                                                                                                                                                                                                              |
| 2                      | Hamlin 1-4-1              | 593,731   | Is an old-line selection entered into the budwood program by Ward's Nursery in Avon Park. This was the first Hamlin selection entered into the budwood parent tree program in 1953 and still remains the most widely propagated early orange. It has typical Hamlin traits and excellent yields. Hamlin originated in Florida as a chance seedling near Glenwood in 1879. Named after citrus culturist Arthur George Hamlin who was DeLand's first attorney and a legal advisor to Henry Flagler.                                                                                                                                                                                                                                                                                                                                                         |
| 3                      | Vernia UF 35-15           | 506,137   | This is Dr. Bill Castle's nucellar selection planted at Orie Lee's, St. Cloud. Entered in to the budwood program 5/15/1996. The seed for the DPI-441 clone originated from the Coca Cola, Hodgson Grove, Indian Town, same as the Vernia-3 clone. Vernia is a Spanish variety; fruit medium-small, egg shaped, well colored, very prolific, fruit holds well, inclined to produce off bloom fruit, smaller than Valencia. The season is several weeks earlier than Valencia.                                                                                                                                                                                                                                                                                                                                                                              |
| 4                      | Valencia F-55-4           | 208,578   | The "55 series" are DPI nucellar lines. These selections are young nucellar lines from seedlings of fruit collected from the Hughes grove in Orange County. Fruit characteristics are typical of Valencia oranges. Trees are a little more vigorous than old line and Hughes nucellar selections. Fruit production has been slightly better than the Hughes selections and significantly better than the old lines. Similar to F-55-4, F-55-1, S-F-55-28, and F-55-23. Originally assigned SPB-5A, planted in I/4 Foundation Grove in 1961.                                                                                                                                                                                                                                                                                                               |
| 5                      | Star Ruby Gft DPI-60      | 94,151    | One of the first new citrus varieties approved to bring into Florida for release to growers. The variety was requested by Dr. Bill Cooper, USDA in a letter dated 4/13/1970. The 10 budsticks were dispatched from the original Texas tree identified as 61-3 on 6/24/1971. Star Ruby was indexed by Dr. Garnsey, USDA before DPI had its germplasm introduction program and testing facilities up and running. Indexing began in the fall of 1971. Originated from Texas A&I from irradiated seed of Hudson grapefruit variety 1959 and released to Texas growers 1970. The principal advantages are the deep red internal color and the exterior red blush. Leaves blotchy, chlorotic areas. Problems: Sensitive to some herbicides, foot rot, and cold. Fruit quality is not as good as Ruby Red with slightly smaller fruit size. Released 4/21/1977. |
| 6                      | WG Man 911-C-37           | 73,050    | Private (proprietary) selection.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 7                      | Hamlin 8-1-4              | 67,546    | Parent tree entered into the program from the Story Property in Winter Garden in 1953. A top yielding clone in the Budwood Foundation Grove. This clone has typical Hamlin traits and excellent yields.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 8                      | Valencia SPB-1-14-31      | 65,780    | Hughes nucellar line, entered budwood program in 1955. These SPB-1 trees are the first selections from open pollinated Valencia seedlings in a grove planted by Dr. and Mrs. Ausker Hughes near Plymouth in Orange County in 1941. The nucellar characteristics made them more cold hardy than the old-line selections. Fruit production is better than the old-line selections. They have become the most popular Valencia selections in Florida. Similar to SPB-1-14-19, and SPB-1-12-7.                                                                                                                                                                                                                                                                                                                                                                |
| 9                      | Valencia UF B9-65         | 47,876    | Restricted propagation - proprietary - A high yield, high solids selection with typical Valencia maturity, best of 30 selections in trial at Conserve II.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 10                     | Sweet Orange UF OLL8      | 46,159    | Restricted propagation - proprietary - Description will be provided by IFAS upon release.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| 11                     | Ruby Red Gft F-58-39      | 45,467    | Originated from Dr. Mort Cohen's closed pollination selections made from the grove near the Century Tower on the campus of UF. This was the first Ruby Red grapefruit free of exocortis. Excellent fruit yields with typical fruit shape and color of the Ruby variety. Origin: Limb sport of Thompson, McAllen, Texas 1929. Description: Deeper flesh coloration than Thompson, blush in peel, flesh fades to pink later in the season. Season: November-May.                                                                                                                                                                                                                                                                                                                                                                                            |
| 12                     | Sweet Orange UF OLL4      | 39,132    | Entered by Dr. Jude Grosser CREC, High quality processing sweet orange, also attractive for fresh market. Trees are more cold hardy and drought tolerant than Valencia, also has higher juice %, solids, and color than standard Valencia. This clone is repeating for exceptional yield and large fruit size.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| 13                     | Ray Ruby Gft CGIP-103     | 38,732    | Originated from a Ruby Red grapefruit mutation in Texas. Discovered in a Weslaco, Texas Ruby Red grove 1970 by Robert Ray, identical or similar to Henderson? Flesh color and exterior blush is more red than Ruby Red but not as intense as Star Ruby. Good internal red fruit color slightly less than Flame. Good fruit size and shape. Excellent quality, comparable to Ruby Red. Good yields. Released in 1986.                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 14                     | Valquarius LT UF SF14W-62 | 38,567    | Entered by Dr. Jude Grosser, CREC 9/4/2012. Maturity is four to eight weeks ahead of the standard Valencia variety. Good juice color gives it potential to become a favored midseason processed orange variety. (Mid January-February) License has been granted to the New Varieties Development and Management Corporation. (SF14W-62). Second entry of released 'Valquarius' early Valencia processing sweet orange. This is an effort to reduce the thorniness of the budwood supply (original entry maintains strong juvenility characteristics).                                                                                                                                                                                                                                                                                                     |
| 15                     | Flame Gft US 1-26-71      | 36,259    | Originated from seedlings planted in Florida from the Henderson variety which came from Texas. Seed collected by Dr. Wutscher in Texas and planted by Dr. Hearn in 1973. Entered into program by Jack Hearn 7/17/1981 and released by the USDA in 1987. Early evaluation block planted at DPI WHIP. The fruit color is nearly as good as Star Ruby and has a decent blush. Holds flesh color well into season.                                                                                                                                                                                                                                                                                                                                                                                                                                            |

### Top 15 Rootstocks 2019-2020

| 2019                                                                                  |             | # Budded | 2018                                                                                                  | 2017        | 2016                                                                                                  | 2015          |
|---------------------------------------------------------------------------------------|-------------|----------|-------------------------------------------------------------------------------------------------------|-------------|-------------------------------------------------------------------------------------------------------|---------------|
| 1                                                                                     | US-942      | 909,953  | US-942                                                                                                | Swingle     | Kuharske                                                                                              | Kuharske      |
| 2                                                                                     | Kuharske    | 651,926  | Swingle                                                                                               | US-942      | X-639                                                                                                 | X-639         |
| 3                                                                                     | X-639       | 589,163  | Kuharske                                                                                              | X-639       | S/O                                                                                                   | Swingle       |
| 4                                                                                     | Swingle     | 380,000  | X-639                                                                                                 | Kuharske    | US-897                                                                                                | Sour Orange   |
| 5                                                                                     | US-897      | 285,459  | Sour Orange                                                                                           | Sour Orange | SWG                                                                                                   | Cleopatra     |
| 6                                                                                     | US-812      | 264,980  | US-802                                                                                                | US-802      | US-942                                                                                                | US-802        |
| 7                                                                                     | Sour Orange | 181,615  | Volkamer                                                                                              | US-897      | US-802                                                                                                | US-897        |
| 8                                                                                     | US-802      | 127,110  | US-812                                                                                                | UFR-04      | US-812                                                                                                | US-942        |
| 9                                                                                     | Volkamer    | 105,575  | US-897                                                                                                | US-812      | Cleopatra                                                                                             | US-812        |
| 10                                                                                    | C-54        | 85,188   | Rough Lemon                                                                                           | C-35        | UFR-04                                                                                                | C-35 Citrange |
| 11                                                                                    | Rough Lemon | 77,149   | C-35                                                                                                  | Cleopatra   | Volkamer                                                                                              | Carrizo       |
| 12                                                                                    | UFR-04      | 49,017   | UFR-04                                                                                                | Volkamer    | Kinkoji                                                                                               | Volkamer      |
| 13                                                                                    | C-35        | 44,850   | UFR-17                                                                                                | UFR-03      | UFR-03                                                                                                | Own Root      |
| 14                                                                                    | C-57        | 42,815   | Poncirus trifoliata                                                                                   | C-22        | Carrizo                                                                                               | UFR-04        |
| 15                                                                                    | US-1777     | 33,034   | US-1516                                                                                               | Carizzo     | Rough Lemon                                                                                           | Kinkoji       |
|                                                                                       |             |          |                                                                                                       |             |                                                                                                       |               |
| Seed<br>42 different rootstocks used<br>2,924,868 propagations<br>Top Seed = Kuharske |             |          | Tissue Culture<br>25 different rootstocks used<br>772,391 propagations<br>Top Tissue Culture = US 942 |             | Rooted Cutting<br>18 different rootstocks used<br>224,346 propagations<br>Top Rooted Cutting = US-942 |               |

### New Florida Parent Candidates

#### Parents Selected or Bred in Florida

| Year | Candidates Entered | Parents Released | Cultivars being Shoot-tip Grafted | Entries by Agency     | 2019 | 2018 | 2017 | 2016 | 2015 |
|------|--------------------|------------------|-----------------------------------|-----------------------|------|------|------|------|------|
| 2019 | 69                 | 40               | 95                                | IFAS CREC             | 33   | 36   | 31   | 22   | 24   |
| 2018 | 88                 | 96               | 91                                | IFAS Gainesville      | 0    | 18   | 20   | 11   | 9    |
| 2017 | 86                 | 43               | 109                               | USDA                  | 36   | 32   | 25   | 17   | 43   |
| 2016 | 56                 | 89               | 100                               | Bureau / Participant  | 0    | 0    | 1    | 4    | 2    |
| 2015 | 80                 | 99               | 102                               | Private / Proprietary | 0    | 2    | 9    | 2    | 2    |
| 2014 | 110                | 69               | 121                               | Total                 | 69   | 88   | 86   | 56   | 80   |
| 2013 | 42                 | 103              | 81                                |                       |      |      |      |      |      |

### Pathogen Testing

(Florida's Budwood Program)

Testing Frequency

HLB & CTV – PCR Annual; \* Seed Source every 3 years  
Psorosis/Viroids/Leaf Blotch – every six years (PCR).

Scion/Foundation/Parent Source Tree testing only.

\*Lab test figures for 2017 are for the first two quarters

| Pathogen            | Test Type               | 2019   | 2018   | *2017 | 2016   | 2015   | 2014   |
|---------------------|-------------------------|--------|--------|-------|--------|--------|--------|
| HLB                 | qPCR                    | 5,427  | 5,987  | 1,179 | 5,922  | 6,685  | 8,410  |
| Tristeza            | qPCR                    | 7,164  | 5,008  | 1,305 | 6,541  | 7,365  | 7,657  |
| Psorosis            | Biological              | 87     | 106    | 122   | 57     | 95     | 104    |
| Psorosis            | qPCR                    | 4,487  | 5,008  | 177   | 2,225  | 6,188  | 2,281  |
| Tatter Leaf*        | qPCR                    | 7,207  | 5,008  | 3,042 | 2,165  | 3,429  | 6,599  |
| Leaf Blotch*        | qPCR                    | 7,207  | 5,008  | 1,923 | 3,049  | 3,430  | 6,690  |
| Viroid (Biological) | CEVd, CVd I, III, IV, V | 87     | 106    | 77    | 72     | 103    | 159    |
| Viroid (qPCR)       | CVd I – V, CEVd         | 30,542 | 30,048 | 1,946 | 19,124 | 16,790 | 12,977 |
| Total               |                         | 62,208 | 56,279 | 9,771 | 39,155 | 44,085 | 44,877 |

| Propagations by Season |                              |              |           |                 |
|------------------------|------------------------------|--------------|-----------|-----------------|
| Sweet Oranges          |                              | Propagations | % of Type | % Sweet Oranges |
| Early                  | Hamlin 1-4-1                 | 593,731      | 85.85     | 18.26           |
|                        | Hamlin 8-1-4                 | 67,546       | 9.77      | 2.08            |
|                        | Hamlin 8-1-5                 | 10,394       | 1.50      | <1              |
|                        | Earlygold UF 33-4            | 7,010        | 1.01      |                 |
|                        | Carney Orange DPI-229-2      | 4,820        | <1        |                 |
|                        | Hamlin UF N13-32             | 3,456        |           |                 |
|                        | Salustiana 3-1-71            | 1,527        |           |                 |
|                        | Westin UF 47-2               | 1,250        |           |                 |
|                        | Ambersweet US 10-14-65       | 756          |           |                 |
|                        | Parson Brown F-56-2          | 679          |           |                 |
|                        | US Sundragon                 | 381          |           |                 |
|                        | Orange Hyb US 1-75-55        | 24           |           |                 |
| Totals Early Season    |                              | 691,574      |           |                 |
| Navel                  | Cara Cara Navel CGIP-104     | 13,704       | 40.0      | <1              |
|                        | Glen Navel F-56-11           | 10,221       | 29.84     |                 |
|                        | Summerfield Navel DPI-70-4-9 | 7,570        | 22.10     |                 |
|                        | Wash Navel F-60-19           | 1,648        | 4.81      |                 |
|                        | Wash Navel F-60-18           | 565          | 1.65      |                 |
|                        | M-7 Early Navel CGIP-194     | 480          | 1.40      |                 |
|                        | Wash Navel F-60-13           | 46           | <1        |                 |
|                        | Crisafulli Navel DPI-221-1   | 23           |           |                 |
|                        | Totals Navel                 | 34,257       |           |                 |
| Midseason              | Vernia UF 35-15              | 506,137      | 88.70     | 15.57           |
|                        | Valquarius LT UF SF14W-62    | 38,567       | 6.76      | 1.19            |
|                        | Midsweet US 6-9              | 9,571        | 1.68      | <1              |
|                        | Florida EV1 UF B7-70         | 4,982        | <1        |                 |
|                        | Valencia UF SF14W-65 NP      | 4,408        |           |                 |
|                        | Vernia UF 35-16              | 2,500        |           |                 |
|                        | Valencia Mid UF OLL20        | 2,006        |           |                 |
|                        | Florida EV2 UF SF14W-65      | 986          |           |                 |
|                        | Sweet Orange UF OLL6         | 706          |           |                 |
|                        | Midsweet LS UF SF11-1-24     | 500          |           |                 |
|                        | Pineapple SL US 10B-6-30     | 150          |           |                 |
|                        | Vernia UF C2-2-1             | 89           |           |                 |
|                        | Valquarius UF SF14W-62       | 23           |           |                 |
|                        | Sweet Orange UF OLL7         | 6            |           |                 |
| Totals Midseason       |                              | 570,631      |           |                 |
| Blood                  | Sanguinelli B/O US 10-5-17   | 2,299        | 44.16     | <1              |
|                        | Moro B/O DPI-50-19           | 1,512        | 29.04     |                 |
|                        | Moro B/O 3-3-11              | 780          | 14.98     |                 |
|                        | Budd B/O DPI-82              | 555          | 10.66     |                 |
|                        | Tarocco B/O UF 30-37         | 60           | 1.15      |                 |
|                        | Totals Blood Orange          | 5,206        |           |                 |
| Late                   | Valencia SPB-1-14-19         | 1,517,554    | 77.85     | 46.68           |
|                        | Valencia F-55-4              | 208,578      | 10.70     | 6.42            |
|                        | Valencia SPB-1-14-31         | 65,780       | 3.37      | 2.02            |
|                        | Valencia UF B9-65            | 47,876       | 2.46      | 1.47            |
|                        | Sweet Orange UF OLL8         | 46,159       | 2.37      | 1.42            |
|                        | Sweet Orange UF OLL4         | 39,132       | 2.01      | 1.20            |
|                        | Valencia F-55-23             | 18,673       | <1        | <1              |
|                        | Rohde Red 472-11-43          | 1,534        |           |                 |
|                        | Valencia F-55-28             | 1,452        |           |                 |
|                        | Valencia F-55-24             | 1,229        |           |                 |
|                        | Ruby Valencia CGIP-195       | 948          |           |                 |
|                        | Sweet Orange UF OLL23        | 126          |           |                 |
|                        | Sweet Orange UF C1-41-B      | 124          |           |                 |
|                        | Valencia UF N40-16-7-11      | 120          |           |                 |
|                        | Valencia Late UF N10-13      | 6            |           |                 |
|                        | Delta CGIP-118               | 6            |           |                 |
|                        | Valencia SL UF 2-21          | 6            |           |                 |
|                        | Valenfresh UF N7-3           | 6            |           |                 |
|                        | Valencia Late UF N7-2        | 6            |           |                 |
|                        | Pope F-53-28                 | 6            |           |                 |
|                        | Midnight CGIP-119            | 6            |           |                 |
|                        | Sweet Orange UF OLL10        | 6            |           |                 |
|                        | Lue Gim Gong F-53-18         | 5            |           |                 |
| Totals Late Season     |                              | 1,949,338    |           |                 |
| Total Sweet Oranges    |                              | 3,251,006    |           |                 |

| Propagations by Type |                              |          |        |
|----------------------|------------------------------|----------|--------|
|                      | Mandarin                     | # Budded | % Type |
|                      | WG Man 911-C-37              | 73050    | 28.60  |
|                      | WG Man 911-17                | 32100    | 12.57  |
|                      | Minneola F-60-5              | 17966    | 7.03   |
|                      | Early Pride US 1-62-122      | 14563    | 5.70   |
|                      | Owari Sat 874                | 11143    | 4.36   |
|                      | Tango CGIP-168               | 10602    | 4.15   |
|                      | Bingo UF 7-6-27              | 9375     | 3.67   |
|                      | Orri CGIP-134                | 8454     | 3.31   |
|                      | Shiranui CGIP-132            | 7567     | 2.96   |
|                      | Sugar Belle UF LB8-9         | 7480     | 2.93   |
|                      | W Murcott CGIP-122           | 7292     | 2.85   |
|                      | Brown Select Sat 61-0-1      | 7047     | 2.76   |
|                      | Gold Nugget CGIP-139         | 5775     | 2.26   |
|                      | Calamondin DPI-555           | 4743     | 1.86   |
|                      | Ponkan DPI-50-6              | 3468     | 1.36   |
|                      | Owari Sat F-60-23            | 3024     | 1.18   |
|                      | Man X Org LT UF RBB-7-34     | 2967     | 1.16   |
|                      | Mandarin UF 1420             | 2264     | <1     |
|                      | Dancy F-59-8                 | 2151     |        |
|                      | Page US 2-58                 | 2003     |        |
|                      | WG Man 911-B-37              | 2000     |        |
|                      | Nules Clem CGIP-125          | 1929     |        |
|                      | Sunburst US 5                | 1715     |        |
|                      | Marathon                     | 1713     |        |
|                      | Orlando F-57-5               | 1488     |        |
|                      | Silver Hill Sat US           | 1371     |        |
|                      | Owari Sat F-60-25B           | 950      |        |
|                      | Nova US 7-41                 | 912      |        |
|                      | Xie Shan Sat CGIP-163        | 864      |        |
|                      | Kishu SL CGIP-137            | 837      |        |
|                      | King 18-1-1                  | 768      |        |
|                      | Mandarin UF BB4-8-20         | 649      |        |
|                      | Dobashi Sat DPI-50-28        | 622      |        |
|                      | Fallglo US 10-61-3           | 525      |        |
|                      | US Furr                      | 500      |        |
|                      | Temple 33-6-15               | 494      |        |
|                      | Murcott 130-1-1S             | 465      |        |
|                      | Odem CGIP-219                | 397      |        |
|                      | Mandarin UF 950              | 382      |        |
|                      | Mandalate CGIP-154           | 355      |        |
|                      | Lee US 2-56                  | 275      |        |
|                      | Meravit CGIP-220             | 270      |        |
|                      | Rasnake Tangelo 625          | 250      |        |
|                      | Mandarin SL UF C4-15-21 (19) | 236      |        |
|                      | Hadas CGIP-221               | 225      |        |
|                      | Mandarin UF N18A-9-39        | 216      |        |
|                      | Kimbrough Sat CGIP-108       | 203      |        |
|                      | Mandarin UF RES-10-39        | 192      |        |
|                      | Mandarin UFGlow 10-02        | 184      |        |
|                      | Mandarin UFSunrise 09-04     | 180      |        |
|                      | Mandarin UF 3-13-51          | 138      |        |
|                      | Mandarin UF 13-17            | 135      |        |
|                      | WG Man 911-03                | 130      |        |
|                      | Seedless Snack UF N40W-6-3   | 120      |        |
|                      | Mandarin LS US 1-22-79       | 61       |        |
|                      | Mandarin UF RES-19-56        | 60       |        |
|                      | Mandarin UF 18A-1-25         | 59       |        |
|                      | Clementine US                | 48       |        |
|                      | Murcott UF 18A-10-47         | 48       |        |
|                      | Kinnow LS CGIP-193           | 36       |        |
|                      | US Ortanique-LS              | 36       |        |
|                      | Mandarin Mid UF 711          | 30       |        |
|                      | Murcott LS UF LB2-19         | 24       |        |
|                      | Mandarin UF 1424             | 24       |        |
|                      | Mandarin UF 304              | 24       |        |
|                      | Cybrid Dancy KW-5-7          | 24       |        |
|                      | Furr LS UF B-A-32.5          | 24       |        |

| Propagations by Type |                             |          |        |
|----------------------|-----------------------------|----------|--------|
|                      | Mandarin                    | # Budded | % Type |
|                      | Furr LS UF 18A-10-11        | 24       |        |
|                      | Murcott LS UF N40-18A-10-09 | 24       |        |
|                      | Mandarin UFDawn 09-13       | 18       |        |
|                      | Willowleaf Man SPB-89-1-1   | 12       |        |
|                      | US Furr-ST                  | 12       |        |
|                      | Daisy LS CGIP-191           | 12       |        |
|                      | USDA 1-42-70                | 12       |        |
|                      | Ellendale DPI-84-11-32      | 12       |        |
|                      | Fairchild US 6-8            | 12       |        |
|                      | Sunshine US 10-13           | 12       |        |
|                      | Fremont US 6-49             | 12       |        |
|                      | Sexton F-47-24              | 12       |        |
|                      | Robinson US 3-56            | 12       |        |
|                      | Osceola US 3-58             | 12       |        |
|                      | Monreal Clem CGIP-109       | 12       |        |
|                      | Seminole SPB-342-3-3        | 12       |        |
|                      | Man X Org UF RBB-7-34       | 6        |        |
|                      | Total Mandarin              | 255,450  |        |
|                      | Lemon                       | # Budded | % Type |
|                      | Eureka Le SL #2 CGIP-226    | 32304    | 29.08  |
|                      | Meyer Le US                 | 29174    | 26.26  |
|                      | Bearss Le SPB-341-95-33     | 19748    | 17.78  |
|                      | Harvey Le F-41-39           | 12342    | 11.11  |
|                      | Eureka Le DPI -             | 10907    | 9.82   |
|                      | Variegated Pink Le US       | 3184     | 2.87   |
|                      | Ponderosa Le DPI-203-8      | 1865     | 1.69   |
|                      | Eureka Le SL CGIP-223       | 1460     | 1.31   |
|                      | Lemon UF 1-9-42             | 50       | <1     |
|                      | Eureka Le UF 3-27           | 50       |        |
|                      | Total Lemon                 | 111,084  |        |
|                      | Lime                        | # Budded | % Type |
|                      | Persian Lime SPB-7          | 13891    | 43.45  |
|                      | Key Lime SPB-51-12          | 9484     | 29.66  |
|                      | Kaffir Lime UF              | 6012     | 18.80  |
|                      | Red Lime 899                | 1640     | 5.13   |
|                      | Key Lime Thornless F-59-39  | 884      | 2.77   |
|                      | Lime Hyb UF C4-8-14         | 60       | <1     |
|                      | Total Lime                  | 31,971   |        |
|                      | Grapefruit                  | # Budded | % Type |
|                      | Star Ruby Gft DPI-60        | 94151    | 37.28  |
|                      | Ruby Red Gft F-58-39        | 45467    | 18.00  |
|                      | Ray Ruby Gft CGIP-103       | 38732    | 15.34  |
|                      | Flame Gft US 1-26-71        | 36259    | 14.36  |
|                      | Red Gft UF N40-16-11-7      | 11720    | 4.64   |
|                      | Rio Red Gft CGIP-110        | 8218     | 3.25   |
|                      | Jackson Gft DPI-16          | 7202     | 2.85   |
|                      | Grapefruit UF N40-16-11-11  | 4992     | 1.98   |
|                      | Marsh Gft F-57-4            | 3196     | 1.27   |
|                      | Duncan Gft F-57-19          | 937      | <1     |
|                      | Duncan Gft F-56-33          | 201      |        |
|                      | Summer Gold Gft UF N2-28    | 120      |        |
|                      | Grapefruit Hyb US 4-4-1     | 118      |        |
|                      | Triumph Gft DPI-32-4        | 60       |        |
|                      | US HoneyCoat                | 40       |        |
|                      | Red Gft UF N40-16-11-15     | 36       |        |
|                      | Red Gft UF N40-16-11-3      | 36       |        |
|                      | Red Gft UF N11-29           | 34       |        |
|                      | US Seedless Surprise        | 24       |        |
|                      | Pink Gft US FF-1-26-51-BS   | 20       |        |
|                      | Total Grapefruit            | 252,562  |        |
|                      | Pummelo & Hyb               | # Budded | % Type |
|                      | Red Pum UF KW-1-50          | 3372     | 40.21  |
|                      | Hirado Pum US 1-65          | 2356     | 28.10  |

| Propagations by Type |                              |          |        | Propagations by Type                                                            |                                  |          |        |
|----------------------|------------------------------|----------|--------|---------------------------------------------------------------------------------|----------------------------------|----------|--------|
|                      | Pummelo & Hyb                | # Budded | % Type |                                                                                 | Other Citrus                     | # Budded | % Type |
|                      | Oroblanco CGIP-111           | 756      | 9.02   |                                                                                 | Finger Lime Giant DPI-205-4      | 1021     | 36.36  |
|                      | Pummelo Hyb UF C2-5-03       | 692      | 8.25   |                                                                                 | Sanboka US 7-55                  | 852      | 30.34  |
|                      | Pummelo Hyb UF C4-10-36      | 687      | 8.19   |                                                                                 | Yuzu F-9-15                      | 399      | 14.21  |
|                      | Pummelo Hyb UF 914           | 370      | 4.41   |                                                                                 | Red Finger Lime DPI-50-36        | 282      | 10.04  |
|                      | Red Pum UF C4-2-8            | 46       | <1     |                                                                                 | Finger Lime DPI-50-36 Trial only | 140      | 4.99   |
|                      | Pummelo UF N7-4              | 42       |        |                                                                                 | Buddhas Hand F-8-7               | 60       | 2.14   |
|                      | Pummelo UF N40-16-12-7       | 40       |        |                                                                                 | Finger Lime DPI-205-1(not yet    | 30       | 1.07   |
|                      | Pummelette UF 5-1-99-2       | 24       |        |                                                                                 | Minnie Finger Lime               | 24       | <1     |
|                      | Total Pummelo                | 8385     |        |                                                                                 | Total Other Citrus               | 2,808    |        |
|                      | Kumquat                      | # Budded | % Type | 177 different varieties were propagated<br>234 different clones were propagated |                                  |          |        |
|                      | Meiwa Kum F-27-29            | 6844     | 59.64  |                                                                                 |                                  |          |        |
|                      | Nagami Kum SPB-323-1-1       | 2364     | 20.60  |                                                                                 |                                  |          |        |
|                      | Long Fruit Kum DPI-603-20-50 | 1512     | 13.18  |                                                                                 |                                  |          |        |
|                      | Centennial Kum US            | 756      | 6.59   |                                                                                 |                                  |          |        |
|                      | Total Kumquat                | 11,476   |        |                                                                                 |                                  |          |        |

| Citrus Nursery Inspectors<br>Assigned Nurseries                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Citrus Nursery Inspection (CNI)<br>Consolidated Quarterly Inspection Report 7/1/2019-6/30/2020 |         |          |       |             |        |         |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------|---------|----------|-------|-------------|--------|---------|
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | INSPECTOR                                                                                      | NURSERY | NEMATODE | SCION | SEED SOURCE | EXPORT | QUARTER |
| <u>Winter Haven</u><br><b>Randall Dean – Supervisor</b><br><br><b>Donald Taylor (CNI3)</b><br>Ben Hill Griffin, Inc.<br>Blue Heron Nurseries, LLC<br>Fiddler's Ridge Farms, Inc.<br>K & C Farmer Citrus Nursery, Inc.<br>Sawmill Citrus Nursery, LLC<br>Southern Citrus Nurseries, LLC<br>WE Green & Sons Citrus Nur., Inc.<br><br><b>Johnny Yates (CNI6)</b><br>Richard Wright Citrus Nursery<br>Harris Citrus Nursery<br>Stinson Citrus<br>W.W. Citrus Nursery<br>Sun Ag, LLC<br>Harris Partnership Citrus Nursery<br><br><b>Ana Lebron-Rivera (CNI9)</b><br>McGill Citrus Nursery, Inc.<br>CREC<br>DPI Foundation Nursery<br>Floyd & Associates, Inc.<br>W.W. Citrus Nursery<br>DPI Bureau of Methods Dev.<br>Mid-Florida REC<br>Pokey's Lake Gem Citrus Nursery<br>Record Buck Farms, Inc.<br>Southern Gardens Citrus Nur., LLC<br><br><b>(CNI8) (Vacant)*</b><br><b>Formerly Ajia Paolillo</b><br>Farkas Citrus Nursery<br>Reclamation Trees<br>Rasnake Citrus Nursery<br>Holmberg Farms, Inc.<br>Propagations Unlimited, Inc.<br>Philmon Citrus Nursery, LLC<br>Citric Holdings, Inc.<br>BL Citrus Nursery, LLC | Randall<br>Dean                                                                                | 31      | 0        | 1     | 0           | 3      | 1st     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 18      | 5        | 2     | 0           | 2      | 2nd     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 13      | 2        | 4     | 6           | 4      | 3rd     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 18      | 4        | 0     | 4           | 4      | 4th     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Donald<br>Taylor                                                                               | 45      | 4        | 3     | 3           | 0      | 1st     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 53      | 2        | 9     | 0           | 0      | 2nd     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 53      | 0        | 4     | 5           | 0      | 3rd     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 31      | 1        | 3     | 15          | 31     | 4th     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Peter<br>Carbon                                                                                | 51      | 0        | 0     | 0           | 7      | 1st     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 55      | 1        | 5     | 0           | 4      | 2nd     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 56      | 6        | 0     | 6           | 0      | 3rd     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 41      | 3        | 0     | 2           | 0      | 4th     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ashley<br>Nolen                                                                                | 56      | 3        | 0     | 0           | 0      | 1st     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 48      | 1        | 5     | 1           | 0      | 2nd     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 53      | 5        | 1     | 2           | 0      | 3rd     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 41      | 3        | 0     | 9           | 0      | 4th     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Johnny<br>Yates                                                                                | 57      | 2        | 0     | 2           | 0      | 1st     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 40      | 3        | 5     | 0           | 0      | 2nd     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 39      | 0        | 7     | 9           | 0      | 3rd     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 37      | 4        | 1     | 19          | 0      | 4th     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Craig<br>Landress                                                                              | 56      | 2        | 0     | 2           | 0      | 1st     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 54      | 5        | 6     | 0           | 0      | 2nd     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 53      | 4        | 0     | 1           | 0      | 3rd     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 51      | 1        | 0     | 9           | 51     | 4th     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Ajia Paolillo                                                                                  | 43      | 1        | 2     | 3           | 0      | 1st     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 43      | 2        | 15    | 0           | 0      | 2nd     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 13      | 1        | 3     | 1           | 0      | 3rd     |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                | 0       | 0        | 0     | 0           | 0      | 4th     |
| Ana<br>Lebron-<br>Rivera                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | 48                                                                                             | 1       | 2        | 8     | 0           | 1st    |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 48                                                                                             | 2       | 6        | 0     | 0           | 2nd    |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 53                                                                                             | 0       | 4        | 9     | 0           | 3rd    |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 44                                                                                             | 1       | 6        | 18    | 0           | 4th    |         |
| Yearly Total                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 1342                                                                                           | 69      | 94       | 134   | 106         |        |         |

### **Avon Park**

#### **Ashley Nolen (CNI5)**

Himrod Citrus Nursery, Inc.  
Robert J. Barben, Inc.  
Joshua Citrus Nursery  
Phillip Rucks Citrus Nursery, Inc.  
James H. Albritton  
Gose Growers, Inc.  
USDA, ARS, USHRL  
Henry Crutchfield, Inc.  
Southern Gardens Citrus Nur., LLC  
CitriSun Nurseries, LLC

#### **Craig Landress (CNI7)**

Lykes Citrus Division  
Ward's Nursery, Inc.  
WA Williams Citrus Nur. & Svc., Inc.  
Petteway Growers  
Carl M. Wilburn, Inc.  
Brewer Citrus Nursery  
Flood Clinch Lake Nursery  
Timmermann's Citrus Nursery  
Southridge Citrus Nursery, Inc.  
Dilley Citrus Nursery, Inc.  
Agri Masters Citrus Nursery, LLC

### **Gainesville**

#### **Peter Carbon (CNI4)**

Agromillora Florida, Inc.  
Brite Leaf Citrus Nursery, LLC  
CREC  
Cutrale Farms, Inc.  
DPI Foundation Nursery  
DPI Germplasm Facility  
Franklin D. Fender Citrus Nursery  
L & L Citrus Trees, Inc.  
Limeys Citrus, LLC  
Murphy Citrus Nursery, Inc.  
North Florida Citrus Nursery, LLC  
Old South Nursery  
Pokey's Lake Gem Citrus Nursery  
Record Buck Farms, Inc.  
Southern Gardens Citrus Nur., LLC

The purpose of the Citrus Budwood Protection Program is to minimize the spread of serious graft-transmissible pathogens of citrus by regulating the distribution, sale, and use of citrus propagation material.

Citrus Nursery Inspectors with the Bureau of Citrus Budwood Registration are assigned to each citrus nursery. Inspection of nursery sites, greenhouse structures and surrounding areas occur on a regular monthly basis. Trees are inspected for the presence of insects and diseases. Samples of leaves, stems and fruit from these inspections will be sent to the Gainesville pathology lab for testing. Soil samples may be taken and sent to the Nematology lab in Gainesville for nematode testing. Scion and seed source trees are tested annually for pathogens from leaf samples sent to the Florida Citrus Repository labs in LaCrosse.

During the 2019-2020 fiscal year, citrus nursery inspectors visited 28 seed source blocks to either witness trees being planted or for routine inspections. Inspectors collected a total of 3,484 leaf samples during the annual seed source collections.

Scion collections begin in September or October each year and leaf samples were taken from 22 citrus nurseries with 2,497 scion trees being tested.

Randall Dean is the CNI supervisor in charge of seven inspectors including Donald Taylor, Johnny Yates, Ana Lebron-Rivera and Ajia Paolillo located in Winter Haven, Ashley Nolen and Craig Landress located in Avon Park and Peter Carbon located in Gainesville.

Ajia Paolillo left the Bureau in January 2020 to pursue a career as the UF/IFAS Multi-county Citrus Extension Agent for DeSoto, Hardee and Manatee Counties.

**\*Ajia Paolillo's nurseries are being assigned to other CNI inspectors.**

## **The Florida Citrus Arboretum – Justin Ezell & Mike Kesinger, retired**



The Florida Citrus Arboretum was first planted in 1978 as a six and one-half acre collection of citrus germplasm from around the world. The construction was designed to reflect a Mediterranean style 16<sup>th</sup> century Spanish orangerie, with the use of stucco, tile and decorative iron work. Commercial citrus as well as citrus relatives and hybrids are available for researchers, FFA groups, college students, and tourists to observe, evaluate and taste. There are currently 263 trees representing 231 different variety clones. Corymbia torelliana were planted in November 2010, along the north and east sides of the arboretum as a windbreak to help manage the spread of citrus canker.

Over the past couple of years, the arboretum a.k.a. "arb" has been going through some notable changes and we are now starting to see the fruits of our labor. One of the first things we did was to hire an experienced groundskeeper, Joe Hanus, who brought a wealth of knowledge in plant and landscape expertise. New equipment was added for caretaking the grounds including a small enclosed cab tractor, air blast sprayer, herbicide boom and a few attachments such as a root rake, bucket and grapple. Some of the older, rough looking trees were pushed and replaced with new selections. About 18 trees were planted in the first grouping, these consisted of newer varieties and rootstocks, along with a couple of industry staples. In late 2019 a three-bay pole barn was constructed to help house the new equipment.

We have not slowed down in 2020 either! Several trees which were lesser known varieties used strictly for breeding purposes by our friends at UF-IFAS and the USDA were re-budded and planted. The irrigation system was relined with new poly pipe, stakes and microjets. We were also able to replace the old tree markers with new signs and are working to improve upon those.

We continue to replant utilizing individual protective covers (IPC's) which are screen mesh bags used to protect young trees from the psyllids that spread HLB, hopefully providing the trees a healthy start. The arb is consistently scouted for insect and disease pressures. Industry standards are applied in caretaking including liquid fertilizer injections, nutritional foliar applications, psyllid/mite sprays and tree drenches on our young resets. Stay tuned for the rest of what 2020 has in store for the arb!

# The Florida Citrus Arboretum – Current Selections



Florida Department of Agriculture and Consumer Services  
Division of Plant Industry  
Bureau of Citrus Budwood Registration  
3027 Lake Alfred Road (Hwy 17), Winter Haven, FL 33881-1438  
Phone (863) 298-3045



| Location  | Variety Clone               | Rootstock      | Date Set  | Location  | Variety Clone               | Rootstock | Date Set   |
|-----------|-----------------------------|----------------|-----------|-----------|-----------------------------|-----------|------------|
| ARB-01-01 | Mandarin UFDawn 09-13       | US-897         | 3/31/2016 | ARB-04-12 | Nova US 7-41                | KJ        | 4/14/1999  |
| ARB-01-02 | W Murcott CGIP-122          | FDT            | 3/31/2011 | ARB-04-13 | Page US 2-58                | KJ        | 4/2/2014   |
| ARB-01-03 | US Furr-ST                  | KJ             | 3/31/2011 | ARB-04-14 | Mandarin UF 950             | US-897    | 3/31/2016  |
| ARB-01-04 | Tango CGIP-168              | S/O            | 4/2/2014  | ARB-04-15 | Dweet Tangor F-8-18         | CLEO      | 7/17/1991  |
| ARB-01-05 | Kishu SL CGIP-137           | S/O            | 3/31/2011 | ARB-04-16 | Murcott 130-1-1S            | FDT       | 4/2/2014   |
| ARB-01-06 | Cleopatra F-1-7             | OWN            | 3/2/1978  | ARB-05-01 | Maltaise Ovale 3-3-21       | FDT       | 6/20/2002  |
| ARB-01-07 | Sun Chu Sha US 9-12-12      | US-897         | 3/30/2020 | ARB-05-02 | Kao Phuang Pum UF 5-2       | CLEO      | 4/11/1990  |
| ARB-01-08 | Nasnaran DPI-50-49          | CLEO           | 7/17/1991 | ARB-05-03 | Le Pum 748-32               | KJ        | 3/16/2000  |
| ARB-01-09 | Shekwasha US 9-1-27         | FDT            | 7/9/2012  | ARB-05-04 | Hirado Pum 939-10           | KJ        | 5/26/2010  |
| ARB-01-10 | Batangus US 10-45           | OWN            | 2/26/2020 | ARB-05-05 | Siamese Pink Pum UF 6-12A   | KJ        | 4/14/1999  |
| ARB-01-11 | Fremont US 6-49             | 2247x2075-01-2 | 3/4/2020  | ARB-05-06 | Shambar Gft US 3-63         | FDT       | 4/2/2014   |
| ARB-01-12 | Sunki DPI-50-50             | US-897         | 3/31/2016 | ARB-05-07 | Duncan Gft F-57-19          | S/O       | 6/3/2020   |
| ARB-01-13 | Kimbrough Sat CGIP-108      | VOLK           | 4/1/2020  | ARB-05-08 | Citron DPI-201              | KJ        | 5/26/2010  |
| ARB-01-14 | Mandarin UFGlow 10-02       | US-897         | 4/6/2020  | ARB-05-09 | Nine Pound Le DPI-201-21    | KJ        | 4/2/2014   |
| ARB-02-01 | Mandarin UFSunrise 09-04    | US-897         | 3/31/2016 | ARB-05-10 | Volkamer Le US 9-2-19       | CLEO      | 7/17/1991  |
| ARB-02-02 | Mandarin Mid UF 711         | BS             | 3/3/2020  | ARB-05-11 | Harvey Le F-41-39           | S/O       | 6/12/2019  |
| ARB-02-03 | Orri CGIP-134               | US-897         | 4/2/2014  | ARB-05-12 | Rough Le Estes SPB-602      | S/O       | 5/26/2010  |
| ARB-02-04 | Tahoe Gold CGIP-140         | KJ             | 3/31/2011 | ARB-05-13 | Rough Le Red UF 8-7         | KJ        | 3/31/2011  |
| ARB-02-05 | Gold Nugget CGIP-139        | KJ             | 3/31/2011 | ARB-05-14 | Bangladesh Le DPI-633-1     | VOLK      | 2/25/2020  |
| ARB-02-06 | Tami CGIP-145               | KJ             | 3/31/2011 | ARB-05-15 | Vangasay Le US 9-1-23       | S/O       | 3/31/2020  |
| ARB-02-07 | Owari Sat F-60-25B          | KJ             | 6/14/2004 | ARB-05-16 | Daisy CGIP-120              | CLEO      | 8/27/2020  |
| ARB-02-08 | Silver Hill Sat US          | KJ             | 4/2/2014  | ARB-05-17 | Valencia SPB-1-14-19        | BS        | 6/1/2019   |
| ARB-02-09 | Ponkan DPI-50-6             | S/O            | 5/26/2010 | ARB-05-18 | King 18-1-1                 | BS        | 4/1/2020   |
| ARB-02-10 | Fallglo US 10-61-3          | KJ             | 6/14/2004 | ARB-06-01 | Pera 3-3-85                 | FDT       | 6/20/2002  |
| ARB-03-01 | Summer Gold Gft UF N2-28    | US-897         | 3/31/2016 | ARB-06-02 | Jackson Gft DPI-16          | US-897    | 4/2/2014   |
| ARB-03-02 | Isle O Pine Gft US          | CLEO           | 4/11/1990 | ARB-06-03 | Large Pink Pum US 6-57      | KJ        | 6/14/2004  |
| ARB-03-03 | Royal Gft US 4-39           | FDT            | 8/11/2014 | ARB-06-04 | Siamese Swt Pum DPI-203-16  | KJ        | 6/14/2004  |
| ARB-03-04 | Siamese Pum UF 6-9A         | CLEO           | 6/15/1978 | ARB-06-05 | Flame Gft US 1-26-71        | SWG       | 6/12/2019  |
| ARB-03-05 | Star Ruby Gft DPI-60        | S/O            | 6/12/2019 | ARB-06-06 | Ray Ruby Gft CGIP-103       | SWG       | 6/12/2019  |
| ARB-03-06 | Hirado Pum 939-10           | KJ             | 3/31/2011 | ARB-06-07 | Ray Ruby Gft CGIP-103       | SWG       | 4/2/2014   |
| ARB-03-07 | Dobashi Sat DPI-50-28       | OWN            | 9/11/1997 | ARB-06-08 | Citron DPI-201              | KJ        | 4/17/2009  |
| ARB-03-08 | Early Pride US 1-62-122     | US-897         | 3/31/2016 | ARB-06-09 | Etrog Citron DPI-223-861    | KJ        | 6/3/2005   |
| ARB-03-09 | Seedless Snack UF N40W-6-3  | US-897         | 3/31/2016 | ARB-06-10 | Garrett B/O DPI-666-1       | VOLK      | 6/8/2020   |
| ARB-03-10 | Minneola F-60-5             | KJ             | 10/4/1994 | ARB-06-11 | Garrett B/O DPI-666-2       | BS        | 6/17/2020  |
| ARB-03-11 | Minneola F-60-5             | FDT            | 4/2/2014  | ARB-06-12 | Garrett B/O DPI-666-3       | S/O       | 6/11/2020  |
| ARB-03-12 | Minneola F-60-5             | S/O            | 6/12/2019 | ARB-06-14 | Eureka Le DPI -             | FDT       | 4/17/2009  |
| ARB-03-13 | Mandarin UF 411             | US-897         | 3/31/2016 | ARB-06-15 | Variegated Cara Blush 941-4 | OWN       | 4/7/2020   |
| ARB-03-14 | Nocatee F-25-26             | KJ             | 3/16/2000 | ARB-06-16 | Wekiwa US 11-7              | KJ        | 6/9/2010   |
| ARB-03-15 | Cipo US 10A-7-10            | GT             | 9/11/1997 | ARB-06-17 | Succari US 7-21             | S/O       | 3/31/2020  |
| ARB-04-01 | Red Pum UF C2-5-12          | US-897         | 3/31/2016 | ARB-06-18 | White Tangelo 956-1         | KJ        | 7/9/2012   |
| ARB-04-02 | Red Pum UF 5-1-99-5         | US-897         | 3/31/2016 | ARB-07-01 | Sunstar US 6-6              | FDT       | 4/16/2003  |
| ARB-04-04 | Red Shaddock UF 5-4A        | CLEO           | 4/11/1990 | ARB-07-02 | Liang Ping Pum UF 8811      | CLEO      | 7/17/1991  |
| ARB-04-06 | Ruby Red Gft -              | SWG            | 6/12/2019 | ARB-07-03 | Pummelo UF N7-4             | US-897    | 3/31/2016  |
| ARB-04-07 | Pummelette UF 5-1-99-2      | US-897         | 3/5/2020  | ARB-07-04 | Pink Pum Hyb US 10-1-1      | CLEO      | 7/17/1991  |
| ARB-04-08 | Early Pride US 1-62-122     | US-942         | 6/12/2019 | ARB-07-05 | Pandan Wangi Pum US         | CLEO      | 7/17/1991  |
| ARB-04-09 | Ponderosa Le DPI-203-8      | SWG            | 7/10/2015 | ARB-07-06 | Ichang Papeda US 42         | OWN       | 4/17/2009  |
| ARB-04-10 | Variegated Pink Le US       | 2247x2075-01-2 | 3/30/2020 | ARB-07-07 | Ichang Le US 2-33           | KJ        | 3/16/2000  |
| ARB-04-11 | White Tangelo 956-1         | KJ             | 4/2/2014  | ARB-07-09 | Kaffir Lime UF              | CLEO      | 7/17/1991  |
| ARB-07-10 | Meyer Le SPB-199-1-1        | CLEO           | 7/17/1991 | ARB-11-06 | Florida EV2 UF SF14W-65     | SWG       | 6/12/2019  |
| ARB-07-11 | Lisbon Le UF 3-9            | US-897         | 3/31/2016 | ARB-11-07 | Florida EV1 UF B7-70        | SWG       | 6/12/2019  |
| ARB-07-13 | Baboon Le US 2-25           | FDT            | 3/31/2011 | ARB-11-08 | Valencia SPB-1-14-19        | FDT       | 9/11/1997  |
| ARB-07-14 | Bearss Le SPB-341-95-33     | SWG            | 3/16/2000 | ARB-11-09 | Valencia F-55-4             | FDT       | 9/11/1997  |
| ARB-07-15 | Ugli DPI-74                 | KJ             | 4/14/1999 | ARB-11-10 | Willowleaf S/O F-12-9       | OWN       | 6/13/1980  |
| ARB-07-16 | Sweet Orange SL UF C4-16-12 | US-897         | 3/3/2020  | ARB-11-11 | Natsumikan DPI-50-48        | OWN       | 5/1/1980   |
| ARB-07-17 | Temple 33-6-15              | US-897         | 3/31/2016 | ARB-11-12 | Kinkoji DPI-50-44           | OWN       | 5/1/1980   |
| ARB-07-18 | Ortanique F-24-26           | FDT            | 5/26/2010 | ARB-11-13 | Smooth Flat Sev US 2-2-14   | KJ        | 4/14/1999  |
| ARB-08-01 | Miller B/O UF               | US-897         | 4/2/2014  | ARB-11-14 | Corniculata DPI-50-35       | OWN       | 6/9/2010   |
| ARB-08-02 | Crisafulli Navel 956-6      | US-897         | 4/2/2014  | ARB-11-15 | Orange Jasmine              | OWN       | 10/23/2019 |
| ARB-08-03 | Kuharske 100-1-10           | KJ             | 4/14/1999 | ARB-12-01 | Cadenera US 5-15            | KJ        | 5/26/2010  |
| ARB-08-04 | Swingle US 22-55            | S/O            | 4/1/2020  | ARB-12-02 | Homosassa 56-10-28          | CLEO      | 6/14/2004  |
| ARB-08-05 | Flying Dragon US            | OWN            | 4/17/2009 | ARB-12-03 | Mediterranean Swt F-58-38   | SFS       | 4/14/1999  |
| ARB-08-06 | P Tri DPI-50-7              | OWN            | 7/21/1986 | ARB-12-04 | Parson Brown F-56-2         | KJ        | 9/11/1997  |
| ARB-08-07 | Buddhas Hand F-8-7          | KJ             | 3/31/2016 | ARB-12-05 | Enterprise 609-14-17        | US-897    | 7/9/2012   |
| ARB-08-08 | Chinotto S/O US 8-41        | SCS            | 7/10/2015 | ARB-12-06 | Vernia UF 35-15             | US-942    | 6/12/2019  |

|            |                                                 |                |            |            |                               |                 |            |
|------------|-------------------------------------------------|----------------|------------|------------|-------------------------------|-----------------|------------|
| ARB-08-09  | Meyer Lemon -                                   | S/O            | 6/12/2019  | ARB-12-07  | Jaffa F-53-38                 | KJ              | 4/17/2009  |
| ARB-08-10  | Sundiatgo US 5-17                               | KJ             | 7/9/2012   | ARB-12-08  | Sugar Belle UF LB8-9          | SWG             | 6/12/2019  |
| ARB-08-11  | Sanbokan US 7-55                                | KJ             | 6/14/2004  | ARB-12-09  | Bigaradier Apepu S/O US 13-39 | MIL             | 3/26/1981  |
| ARB-08-12  | Hyuganatsu US 12-43                             | SCS            | 8/1/1994   | ARB-12-10  | Bittersweet SPB-400-40-179N   | US-812          | 6/3/2005   |
| ARB-08-13  | Everbearing Le US 9-1-64                        | KJ             | 7/9/2012   | ARB-12-11  | Variegated S/O US 18-4        | US-812          | 6/3/2005   |
| ARB-08-14  | Calamandarin F-9-14                             | CLEO           | 4/14/1999  | ARB-12-12  | Sour Orange F-49-7            | US-812          | 7/9/2012   |
| ARB-08-15  | Yuzu F-9-15                                     | KJ             | 7/21/2000  | ARB-12-13  | Bouquet De Fleurs UF 18       | SFS             | 4/14/1999  |
| ARB-08-16  | Parson Special CGIP-101                         | CLEO           | 3/16/2000  | ARB-13-01  | Gardner US 6-16               | KJ              | 6/3/2005   |
| ARB-08-17  | Yosemite Gold CGIP-141                          | US-897         | 3/31/2020  | ARB-13-02  | Wild Turkey Navel 941-11-30-1 | KJ              | 5/26/2010  |
| ARB-08-18  | Dancy F-59-8                                    | SCS            | 6/14/2004  | ARB-13-03  | Pera US 7-39                  | KJ              | 7/21/2000  |
| ARB-09-01  | Itaborai UF 31-6                                | FDT            | 4/16/2003  | ARB-13-04  | Roble 502-4-12                | KJ              | 4/16/2003  |
| ARB-09-02  | Nagami Kum SPB-323-1-1                          | CLEO           | 3/2/1978   | ARB-13-05  | Pope F-53-28                  | SFS             | 4/14/1999  |
| ARB-09-03  | Sinton Citrqt US                                | US-812         | 6/3/2005   | ARB-13-06  | Midsweet US 6-9               | 80-5            | 7/31/2000  |
| ARB-09-04  | Centennial Kum US                               | 2247x2075-01-2 | 2/27/2020  | ARB-13-07  | Goutou US-1                   | R/L             | 7/3/1985   |
| ARB-09-05  | P Tri DPI-50-7                                  | VOLK           | 6/18/2020  | ARB-13-08  | Zhu Luan DPI-50-21            | OWN             | 4/11/1990  |
| ARB-09-06  | Nordmann Kum DPI-203-1                          | KJ             | 4/2/2014   | ARB-13-09  | Nansho Daidai DPI-50-45       | CLEO            | 4/6/2020   |
| ARB-09-07  | Marumi Kum DPI-50-47                            | FDT            | 8/11/2014  | ARB-13-10  | C neoaurantum DPI-50-46       | OWN             | 3/6/1978   |
| ARB-09-08  | Procimequat UF                                  | OWN            | 4/30/2010  | ARB-14-01  | Akay Sekeri 3-3-10            | FDT             | 4/16/2003  |
| ARB-09-09  | Torregrossa US 7-3                              | FDT            | 7/21/2000  | ARB-14-02  | Dream Navel DPI-58            | FDT             | 4/17/2009  |
| ARB-09-10  | Limeberry DPI-50-43                             | OWN            | 5/26/2010  | ARB-14-03  | Navelo 81-16-15               | FDT             | 5/7/2009   |
| ARB-09-11  | Rangpur Lime F-3-8                              | FDT            | 4/17/2009  | ARB-14-04  | Santa Cat Navel US 1          | KJ              | 3/16/2000  |
| ARB-09-12  | Sweet Lime F-10-10                              | KJ             | 4/14/1999  | ARB-14-05  | Thomson Navel US 4-5          | KJ              | 6/27/1996  |
| ARB-09-13  | Lakeland Lqt F-55-26                            | CLEO           | 7/17/1991  | ARB-14-06  | Cara Cara Navel CGIP-104      | OR/TA           | 8/18/1986  |
| ARB-09-14  | Orangequat Hyb DPI-203-5                        | SFS            | 4/25/1997  | ARB-14-07  | Pineapple 1-27-11             | X-639           | 4/25/1997  |
| ARB-09-15  | Sunquat DPI-50-27                               | GT             | 6/14/2004  | ARB-14-08  | Ruby Swt (35) UF              | SWG             | 10/4/1994  |
| ARB-09-17  | Fina Sodea Clem CGIP-123                        | S/O            | 8/24/2020  | ARB-15-01  | Maltaise Ovale 3-3-21         | FDT             | 4/16/2003  |
| ARB-09-18  | Monreal Clem CGIP-109                           | SWG            | 6/14/2004  | ARB-15-02  | Marmelos F-16-1               | OWN             | 6/5/1987   |
| ARB-09-19  | Keraji DPI-50-38-3                              | OWN            | 7/9/2012   | ARB-15-03  | Afraegle F-16-2               | OWN             | 4/11/1990  |
| ARB-09-20  | Leo X Te US 5-8-122                             | KJ             | 4/26/2000  | ARB-15-04  | Gabonensis F-16-3             | OWN             | 4/11/1990  |
| ARB-10-01  | Westin UF 47-2                                  | FDT            | 4/16/2003  | ARB-15-05  | Cara Cara Navel CGIP-104      | C-35            | 8/11/2014  |
| ARB-10-02  | Microcitrus Inodor US 80-527A                   | KJ             | 2/25/2020  | ARB-16-01  | C excelsa US 60-169-502       | S/O             | 5/26/2010  |
| ARB-10-03  | Glen Navel F-56-11                              | US-942         | 6/12/2019  | ARB-16-02  | Curry Leaf DPI-50-51          | OWN             | 9/22/1979  |
| ARB-10-04  | Finger Lime Giant<br>(possible Sydney Relative) | OWN            | 6/27/2012  | ARB-16-03  | Afraegle F-16-2               | OWN             | 4/11/1990  |
| ARB-10-05  | Sydney Hyb US                                   | FDT            | 6/27/2012  | ARB-17-01  | Calamondin DPI-555            | SCS             | 3/31/2016  |
| ARB-10-06  | Microcitrus Papuana US                          | US-812         | 7/10/2015  | ARB-17-02  | Jackfruit                     | OWN             | 3/1/2019   |
| ARB-10-07  | Finger Lime Giant DPI-205-4                     | VOLK           | 1/9/2020   | ARB-17-03  | Glycosmis F-17-5-2            | OWN             | 3/1/1978   |
| ARB-10-08  | Finger Lime DPI-205-1                           | SWG            | 1/9/2020   | ARB-17-04  | Atalantia US 11-8-76          | OWN             | 8/20/1992  |
| ARB-10-09  | Finger Lime DPI-205-5                           | KJ             | 5/11/2015  | ARB-17-05  | Hesperethusa UF               | OWN             | 9/28/1990  |
| ARB-10-10  | Microcitrus Papuana US                          | US-812         | 5/26/2010  | ARB-17-06  | Hesperethusa UF               | OWN             | 9/28/1990  |
| ARB-10-12  | Red Finger Lime DPI-50-36                       | OWN            | 5/26/2010  | ARB-17-07  | Hercules F-17-7S              | OWN             |            |
| ARB-10-13  | Eustis Lqt US 16-6-12                           | CLEO           | 8/12/2020  | ARB-17-08  | Buxifolia DPI-50-40           | OWN             | 12/11/2019 |
| ARB-10-14  | Key Lime SPB-51-12                              | FDT            | 7/9/2012   | ARB-18-01  | Eremocitrus US                | SFS             | 5/8/1992   |
| ARB-10-15  | Persian Lime SPB-7                              | US 897         | 10/17/2016 | ARB-18-02  | Hercules F-17-7S              | OWN             | 9/11/1987  |
| ARB-10-16  | Key Lime SPB-51-12                              | KUH            | 7/9/2012   | ARB-18-03  | Prickly Ash F-17-8            | Own             | 4/20/1988  |
| ARB-10-17  | Round Lime DPI-205-2                            | CLEO           | 3/5/2020   | ARB-18-04  | Hamlin -                      |                 | 6/12/2019  |
| ARB-10-18  | Key Lime Thornless F-59-39                      | KJ             | 8/11/2014  | ARB-18-05  | Cara Cara Navel CGIP-104      |                 | 6/12/2019  |
| ARB-10-19  | Persian Lime SPB-7                              | S/O            | 6/6/2016   | ARB-19-01  | Khalily US 2-29               | 2247x2075-01-02 | 4/7/2020   |
| ARB-10-20  | Bergamot US 9-12-15                             | FDT            | 4/17/2009  | ARB-19-02  | Thomasville Citrqt US 1-20    | KJ              | 4/25/1997  |
| ARB-10-21  | Orange Jasmine                                  | OWN            | 10/23/2019 | ARB-19-03  | Bouquet De Fleurs UF 18       |                 |            |
| ARB-11-01  | Earlygold UF 33-4                               | FDT            | 4/16/2003  | ARB-19-04  | Rohde Red 472-11-43           | KJ              | 6/14/2004  |
| ARB-11-02  | Valquarius                                      |                | 6/12/2019  | ARB-19-05  | Valencia -                    |                 | 6/12/2019  |
| ARB-11-03  | C moi F-11-8W                                   | S/O            | 5/26/2010  | ARB-20-01  | Pamburus US                   | OWN             | 8/18/1983  |
| ARB-11-04  | Pineapple SL US 10B-6-30                        | KJ             | 10/4/1994  | ARB-20-02  | Bouquet De Fleurs UF 18       |                 |            |
| ARB-11-05  | Raratonga Swt US                                | SWG            | 2/21/1992  | ARB-20-03  | Sea Amyris F-19-7             | OWN             | 8/18/1986  |
| ARB-20-04  | Wild Turkey Navel 941-11-30-1                   | KJ             | 3/31/2011  | ARB-OFF-03 | Meiwa Kum F-27-29             | SCS             | 4/2/2014   |
| ARB-20-05  | Lane Navel CGIP-121                             | KJ             | 4/14/1999  | ARB-OFF-04 | Hong Kong Kum US 10-2         | OWN             | 8/11/2014  |
| ARB-20-06  | Bahianinha Navel US 9-6-47                      | KJ             | 4/2/2014   | ARB-OFF-05 | Meiwa Kum F-27-29             | US-897          | 6/17/2020  |
| ARB-21-01  | Sapote W W US                                   | OWN            | 10/6/1981  | ARB-OFF-06 | Round Lime DPI-205-2          | S/O             | 8/25/2020  |
| ARB-21-02  | Sapote W F-20-7                                 | OWN            | 5/1/1978   | ARB-OFF-07 | Long Fruit Kum DPI-603-20-50  | CLEO            | 2/5/1992   |
| ARB-21-03  | Sapote W DPI-204                                | OWN            | 8/18/1983  | ARB-OFF-08 | Crassifolia Kum CGIP-105      | R/L             | 7/17/1991  |
| ARB-21-04  | Budd B/O DPI-82                                 | FDT            | 7/9/2012   | ARB-OFF-12 | Limeberry DPI-50-43           | OWN             | 9/9/9999   |
| ARB-21-05  | Midnight CGIP-119                               | US-897         | 7/9/2012   | ARB-OFF-13 | Red Finger Lime DPI-50-36     | Own             | 8/11/2014  |
| ARB-21-06  | Delta CGIP-118                                  | RUSK           | 10/4/1994  | ARB-OFF-14 | Meiwa Kum F-27-29             | CLEO            | 3/16/2000  |
| ARB-21-07  | Tresca US 10C-2-4                               | KJ             | 7/9/2012   | ARB-OFF-17 | Chinotto S/O US 8-41          | SCS             | 7/9/2012   |
| ARB-21-08  | Tarocco B/O UF 30-37                            | KJ             | 6/27/1996  | ARB-POT-05 | Nordmann Kum DPI-203-1        | VOLK            | 4/10/2020  |
| ARB-21-09  | Sanguinelli B/O US 10-5-17                      | US-897         | 7/9/2012   | ARB-POT-06 | Hong Kong Kum US 10-2         | US-897          | 4/7/2020   |
| ARB-OFF-01 | Chinotto S/O US 8-41                            | SCS            | 4/2/2014   | ARB-POT-07 | Eremocitrus x Shekwa          | OWN             | 4/10/2020  |
| ARB-OFF-02 | Procimequat UF                                  | OWN            | 3/1/1978   |            |                               |                 |            |

## Chiefland Foundation Seed Source Block - Dennis Connolly

The first seed block planting consisted of 240 trees of 42 different varieties. Several other small batches of trees have also been planted and the current tree count, as of June, is 363 trees.

Our focus has been on a list of projects to get the seed block off the ground and to put systems in place for it to run efficiently. The first big project was limbing and pruning the windbreak in order for tractors and equipment to make the turn at the north end of the tree rows. A spray tank fill station has been installed for providing large amounts of water off the main irrigation line. A clean water storage system has also been installed. This provides water for tree planting, small tank fill ups and decontamination rinsing. The air blast and herbicide sprayers have been outfitted and calibrated. We've begun a regular spray program, both for pesticide and nutrition applications and for weed control.

The plan for the latter half of 2020 is to establish a large quantity of the industry's top 10 rootstock varieties. The Lacrosse facility is currently working on propagating these trees and the plan is for them to be in the ground by the end of September.

## Budwood Availability

Some varieties are unavailable as they are not yet released, and others may only be available to nurseries with license agreements.

| Budwood Availability                | Scion Trees |        | Foundation Trees |            |
|-------------------------------------|-------------|--------|------------------|------------|
| Variety Clone                       | # Part      | #Trees | #Trees           | Restricted |
| A+FD UF 19-11-10                    |             |        | 2                | ®, CBI     |
| A+Volk UF 19-11-31                  |             |        | 2                | ®, CBI     |
| Abers S/O US 8-35                   | 1           | 8      | 1                |            |
| Acid Fruit Hyb UF C4-15-8           |             |        | 1                | ®, CBI     |
| Acid Fruit Hyb UF C4-3-35           |             |        | 1                | ®, CBI     |
| Acid Fruit Hyb UF C4-5-20           |             |        | 1                | ®, CBI     |
| Acid Fruit Hyb UF C4-8-40           |             |        | 1                | ®, CBI     |
| Akçay Sekeri 3-3-10                 |             |        | 1                |            |
| Ambersweet US 10-14-65              | 2           | 2      |                  |            |
| Ambersweet US 10-5-65               |             |        | 3                |            |
| Ann Sat 911                         | 1           | 1      |                  |            |
| Atalantia US 11-8-76                |             |        | 1                |            |
| Atwood Navel CGIP-201               |             |        | 2                |            |
| Australian Finger Lime 697 CGIP-233 |             |        | 2                |            |
| Avana 4N CGIP-189                   |             |        | 2                |            |
| Baboon Le US 2-25                   |             |        | 1                |            |
| Bahianinha Navel US 9-6-47          |             |        | 9                |            |
| Bangladesh Le DPI-633-1             |             |        | 3                |            |
| Barao UF 135                        |             |        | 1                | ®          |
| Bearss Le SPB-341-95-33             | 5           | 19     | 7                |            |
| Benton UF                           | 1           | 1      | 1                |            |
| Bergamot US 9-12-15                 |             |        | 1                |            |
| Bigaradier Apepu S/O US 13-39       |             |        | 1                |            |
| Bingo UF 7-6-27                     | 7           | 60     | 5                | ®, Fast    |
| Bittersweet F-21-14                 | 1           | 5      |                  |            |
| Bloomsweet Gft DPI-50-38-1          |             |        | 1                |            |
| Blue Lake Orange 956-2              |             |        | 1                | ®          |
| Bouquet De Fleurs UF 18             |             |        | 1                |            |
| Bower Mandarin                      |             |        | 3                | ®, CBI     |
| Brazilian Le US 3-18                |             |        | 1                |            |
| Brown Select Sat 61-0-1             |             |        | 3                |            |
| Budd B/O DPI-82                     | 1           | 1      | 3                |            |
| Buddhas Hand F-8-7                  | 1           | 2      | 1                |            |
| Burgundy Gft 416-7-1                |             |        | 1                |            |
| C excelsa US 60-169-502             |             |        | 1                |            |
| C Iyo Tangor US 9-1-23              |             |        | 2                |            |

| Budwood Availability         | Scion Trees |        | Foundation Trees |            |
|------------------------------|-------------|--------|------------------|------------|
| Variety Clone                | # Part      | #Trees | #Trees           | Restricted |
| C macrophylla DPI-226        |             |        | 1                |            |
| C micrantha UF               |             |        | 1                |            |
| C moi F-11-8W                |             |        | 1                |            |
| C neaurantium DPI-50-46      |             |        | 1                |            |
| C tachibana US 1-67          |             |        | 1                |            |
| C-146 UF                     | 3           | 82     | 2                | N          |
| C-22 Bitters UF              | 3           | 54     | 2                | N          |
| C5282 CGIP-153               |             |        | 2                | ®          |
| C-54 Carpenter UF            | 4           | 341    | 2                | N          |
| C-57 Furr UF                 | 3           | 85     | 2                | ®          |
| Cadenera US 5-15             |             |        | 1                |            |
| Calamandarin F-9-14          |             |        | 1                |            |
| Calamondin DPI-555           | 4           | 20     | 4                |            |
| Cambria Navel CGIP-179       | 1           | 7      | 2                |            |
| Cameron Le US                |             |        | 1                |            |
| Cara Cara Navel CGIP-104     | 5           | 12     | 14               | N          |
| Carney Orange DPI-229-2      | 5           | 10     | 2                |            |
| Carney Orange DPI-229-3      |             |        | 2                |            |
| Carrizo F-52-16              | 2           | 27     | 3                |            |
| Carrizo-Mthionin-1 US TG     |             |        | 3                | ®, CBI     |
| Carrizo-Mthionin-2 US TG     |             |        | 3                | ®, CBI     |
| Carrizo-Mthionin-3 US TG     |             |        | 3                | ®, CBI     |
| Carrizo-ScFv-1 US TG         |             |        | 3                | ®, CBI     |
| Carrizo-ScFv-2 US TG         |             |        | 2                | ®, CBI     |
| Carrizo-ScFv-3 US TG         |             |        | 3                | ®, CBI     |
| Carrizo SPB-330              | 3           | 24     |                  |            |
| Carrizo-Thionin-LBP-1 US TG  |             |        | 2                | ®, CBI     |
| Carrizo-Thionin-LBP-2 US TG  |             |        | 2                | ®, CBI     |
| Carvalho 3-3-37              |             |        | 1                |            |
| Centennial Kum US            | 1           | 2      | 2                |            |
| Changsha + Benton UF 18-9-6  |             |        | 1                | ®, CBI     |
| Changsha US 9-12-9           |             |        | 1                |            |
| Chinese Pum UF 5-17          |             |        | 1                |            |
| Chinotto S/O US 8-41         | 1           | 2      | 1                |            |
| Chislett Late Navel CGIP-190 |             |        | 2                |            |
| Cipo US 10A-7-10             |             |        | 1                |            |

| Budwood Availability          | Scion Trees |        | Foundation Trees |            |
|-------------------------------|-------------|--------|------------------|------------|
| Variety Clone                 | # Part      | #Trees | #Trees           | Restricted |
| Citrandarin CGIP-222          |             |        | 1                |            |
| Citrange C-32 US              | 1           | 34     | 1                |            |
| Citrange C-35 F-24-10         | 6           | 156    | 1                |            |
| Citrangquat Hyb US 10-3-4     |             |        | 1                |            |
| Citron DPI-201                |             |        | 1                |            |
| Citron DPI-201                |             |        | 1                | N          |
| Citrum F-80-6                 |             |        | 1                |            |
| Citrum F-80-8                 |             |        | 1                |            |
| Citrum F-W-4                  |             |        | 1                |            |
| Clem X Yuzu DPI-50-38-2       |             |        | 1                |            |
| Clementine Haploid CGIP-180   |             |        | 1                | ®          |
| Clementine US                 |             |        | 1                |            |
| Cleopatra F-1-7               | 7           | 123    | 2                |            |
| Cleopatra F-47-2              | 3           | 40     |                  |            |
| Cocktail Gft DPI-50-38-5      |             |        | 1                |            |
| Crassifolia Kum CGIP-105      |             |        | 1                | N          |
| Crisafulli Navel DPI-221-1    |             |        | 1                |            |
| Cybrid Dancy KW-5-7           |             |        | 2                | ®, CBI     |
| Daisy CGIP-120                | 1           | 1      | 2                | N          |
| Daisy LS CGIP-191             |             |        | 1                |            |
| Dancy F-59-8                  | 4           | 6      | 3                |            |
| Dancy UF 12-32                |             |        | 1                | ®, CBI     |
| Delta CGIP-118                |             |        | 2                | N          |
| Dickinson 595                 | 2           | 59     | 1                | N          |
| Dickinson Gold Valencia 595-1 | 2           | 3      | 2                |            |
| Disticha DPI-50-24            |             |        | 1                |            |
| Dobashi Sat DPI-50-28         |             |        | 1                |            |
| Dream Navel DPI-58            |             |        | 5                |            |
| Duncan Gft F-56-33            | 1           | 2      | 3                |            |
| Duncan Gft F-57-19            |             |        | 2                |            |
| Dweet Tangor F-8-18           |             |        | 1                |            |
| Early Pride US 1-62-122       | 6           | 14     | 6                | ®, (NV)    |
| Earlygold UF 33-4             | 2           | 2      | 2                |            |
| Ellendale DPI-84-11-32        |             |        | 1                |            |
| Eloise CGIP-155               |             |        | 1                | ®          |
| Enterprise 609-14-17          |             |        | 1                |            |
| Erem X Shek US 3-67           |             |        | 1                |            |
| Eremocitrus US                |             |        | 1                |            |
| Escondido Le UF               |             |        | 1                |            |
| Etrog Citron DPI-223-861      | 1           | 3      | 1                |            |
| Eureka Le DPI -               | 3           | 14     | 2                |            |
| Eureka Le SL #2 CGIP-226      | 2           | 12     | 6                | ®          |
| Eureka Le SL CGIP-223         | 1           | 5      | 2                |            |
| Eureka Le UF 3-27             |             |        | 1                |            |
| Eureka Le UF C4-9-30          |             |        | 2                | ®, CBI     |
| Eustis Lqt US 16-6-12         | 1           | 1      | 1                |            |
| Everbearing Le US 9-1-64      |             |        | 1                |            |
| Fairchild US 6-8              |             |        | 4                |            |
| Fallglo US 10-61-3            | 2           | 6      | 2                |            |
| Fallglo US 10-61-3            |             |        | 2                |            |
| Faustrimedon DPI-205-3        |             |        | 1                |            |
| Fertic Te DPI-216             |             |        | 3                |            |
| FG-1731 UF                    |             |        | 2                | ®, CBI     |
| Fina Sodea Clem CGIP-123      |             |        | 5                | N          |

| Budwood Availability        | Scion Trees |        | Foundation Trees |              |
|-----------------------------|-------------|--------|------------------|--------------|
| Variety Clone               | # Part      | #Trees | #Trees           | Restricted   |
| Finger Lime DPI-205-1       | 1           | 1      | 2                |              |
| Finger Lime Giant DPI-205-4 | 1           | 2      | 3                |              |
| Fisher Navel CGIP-135       |             |        | 2                | N            |
| Flame Gft US 1-26-71        | 5           | 21     | 7                |              |
| Florida EV1 UF B7-70        | 8           | 53     | 2                | ®, CBI       |
| Florida EV2 UF SF14W-65     | 8           | 35     | 2                | ®, CBI       |
| Flying Dragon US            | 3           | 50     | 3                |              |
| Folha Murcha UF 211         |             |        | 1                | ®            |
| Fortune US 9E-10-23         |             |        | 1                |              |
| Foster Gft 65-1-8-27        |             |        | 1                |              |
| Fremont US 6-49             |             |        | 1                |              |
| Fukumoto Navel CGIP-133     |             |        | 2                | N            |
| Furr LS UF 18A-10-11        |             |        | 1                | ®, CBI       |
| Furr LS UF B-A-32.5         |             |        | 1                | ®, CBI       |
| Gardner US 6-16             |             |        | 3                |              |
| Gillets UF                  |             |        | 1                |              |
| Glen Navel F-56-11          | 7           | 26     | 24               |              |
| Glen Navel F-56-12          | 1           | 1      |                  |              |
| Gold Nugget CGIP-139        | 2           | 3      | 4                | ®, (NV)      |
| Goutou US-3                 | 1           | 20     | 1                |              |
| Grapefruit Hyb UF P1        |             |        | 1                | ®, CBI       |
| Grapefruit Hyb US 1-83-179  |             |        | 2                | ®, CBI       |
| Grapefruit Hyb US 1-83-227  |             |        | 2                | ®, CBI       |
| Grapefruit Hyb US 4-4-1     |             |        | 3                | ®, CBI       |
| Grapefruit Hyb US 6-20-151  |             |        | 3                | ®, CBI       |
| Grapefruit Hyb US 6-59-158  |             |        | 1                | ®, CBI       |
| Grapefruit UF 00-02         |             |        | 2                | ®, CBI       |
| Grapefruit UF 11-06         |             |        | 2                | ®, CBI       |
| Grapefruit UF 12-04         |             |        | 1                | ®, CBI       |
| Grapefruit UF 14-09         |             |        | 1                | ®, CBI       |
| Grapefruit UF 17-14         |             |        | 2                | ®, CBI       |
| Grapefruit UF 9-5-16        |             |        | 2                | ®, CBI       |
| Grapefruit UF N40-16-11-11  |             |        | 1                | ®, CBI       |
| Hadas CGIP-221              | 1           | 1      | 2                | ®, ISR       |
| Hamlin 1-4-1                | 19          | 459    | 37               |              |
| Hamlin 8-1-4                | 5           | 52     | 24               |              |
| Hamlin 8-1-5                | 3           | 11     | 15               |              |
| Hamlin UF N13-32            | 1           | 1      | 4                | ®, 2015, CBI |
| Hamlin US 1262              |             |        | 1                | ®, CBI       |
| Hamlin US 1266              |             |        | 1                | ®, CBI       |
| Hamlin US 1612              |             |        | 1                | ®, CBI       |
| Hamlin-Mthionin-1 US TG     |             |        | 2                | ®, CBI       |
| Hamlin-Mthionin-2 US TG     |             |        | 3                | ®, CBI       |
| Hamlin-Mthionin-3 US TG     |             |        | 2                | ®, CBI       |
| Harvey Le F-41-39           | 4           | 12     | 3                |              |
| Hass Pink Navel DPI-203-21  |             |        | 1                |              |
| Hesperethusa UF             |             |        | 1                |              |
| Hirado Pum US 1-65          | 4           | 20     | 5                |              |
| Homosassa 56-10-28          |             |        | 1                |              |
| Hong Kong Kum US 10-2       |             |        | 4                |              |
| Hudson Gft US               |             |        | 1                |              |
| Hyuganatsu US 12-43         |             |        | 1                |              |
| Iapar 73 UF 217             |             |        | 1                | ®            |
| Ice Tea Le UF C4-6-49       |             |        | 1                | ®, PR        |

| Budwood Availability        | Scion Trees |        | Foundation Trees |            |
|-----------------------------|-------------|--------|------------------|------------|
| Variety Clone               | # Part      | #Trees | #Trees           | Restricted |
| Ichang Le US 2-33           |             |        | 1                |            |
| Imperial Gft CGIP-151       |             |        | 1                | N          |
| Isle O Pine Gft US          |             |        | 1                |            |
| Itaborai UF 31-6            | 1           | 1      | 2                |            |
| Jackson Gft DPI-16          |             |        | 5                |            |
| Jaffa F-53-38               |             |        | 1                |            |
| Jincheng UF 175             |             |        | 1                | ®          |
| K X R UF                    |             |        | 1                |            |
| Kaffir Lime UF              | 2           | 3      | 2                |            |
| Kao Phuang Pum UF 5-2       |             |        | 1                |            |
| Kara US 9E-9-21             |             |        | 1                |            |
| Karna US                    |             |        | 1                |            |
| Kedem CGIP-147              | 1           | 1      | 5                | ®, ISR     |
| Keraji DPI-50-38-3          |             |        | 1                |            |
| Key Lime Giant US           | 1           | 1      | 1                |            |
| Key Lime SPB-51-12          | 7           | 14     | 4                |            |
| Key Lime Thornless F-59-39  | 2           | 2      | 1                |            |
| Khalily US 2-29             |             |        | 1                |            |
| Kiella Calusa S/O DPI-666-4 | 1           | 4      | 2                |            |
| Kimbrough Sat CGIP-108      |             |        | 2                | N          |
| King 18-1-1                 | 1           | 2      | 3                |            |
| Kinkoji DPI-50-44           | 5           | 134    | 1                |            |
| Kinnow LS CGIP-193          |             |        | 1                |            |
| Kinnow US 9E-9-27           |             |        | 2                |            |
| Kinokuni US 11-65           |             |        | 1                |            |
| Kishu SL CGIP-137           | 2           | 5      | 3                | N          |
| Kiyomi Tangor CGIP-136      |             |        | 1                | N          |
| Kuharske 100-1-10           | 14          | 504    | 3                |            |
| Kunembo US 3-10-3           |             |        | 2                |            |
| Lakeland Lqt F-55-26        | 1           | 5      | 3                |            |
| Lane Navel CGIP-121         | 2           | 4      | 6                | N          |
| Large Pink Pum US 6-57      |             |        | 1                |            |
| Le Pum 748-29               |             |        | 2                |            |
| Le Pum 748-32               |             |        | 1                |            |
| Lee US 2-56                 |             |        | 3                |            |
| Lemon Hyb UF C4-3-4         |             |        | 2                | ®, CBI     |
| Lemon Hyb UF C4-4-16        |             |        | 1                | ®, CBI     |
| Lemon Hyb UF C4-5-14        |             |        | 2                | ®, CBI     |
| Lemon Hyb UF C4-8-3         |             |        | 1                | ®, CBI     |
| Lemon Hyb UF C4-8-34        |             |        | 1                | ®, CBI     |
| Lemon Hyb UF LB-6-17        |             |        | 1                | ®, CBI     |
| Lemon UF 1-10-56            |             |        | 1                | ®, CBI     |
| Lemon UF 1-14-10            |             |        | 1                | ®, CBI     |
| Lemon UF 1-1-42             |             |        | 1                | ®, CBI     |
| Lemon UF 1-14-24            |             |        | 1                | ®, CBI     |
| Lemon UF 1-1-55             |             |        | 1                | ®, CBI     |
| Lemon UF 1-15-50            |             |        | 2                | ®, CBI     |
| Lemon UF 1-19-55            |             |        | 2                | ®, CBI     |
| Lemon UF 1-20-31            |             |        | 2                | ®, CBI     |
| Lemon UF 1-20-6             |             |        | 2                | ®, CBI     |
| Lemon UF 1-2-8              |             |        | 1                | ®, CBI     |
| Lemon UF 1-3-17             |             |        | 1                | ®, CBI     |
| Lemon UF 1-6-18             |             |        | 1                | ®, CBI     |
| Lemon UF 1-8-57             |             |        | 2                | ®, CBI     |

| Budwood Availability         | Scion Trees |        | Foundation Trees |            |
|------------------------------|-------------|--------|------------------|------------|
| Variety Clone                | # Part      | #Trees | #Trees           | Restricted |
| Lemon UF 1-9-42              |             |        | 2                | ®, CBI     |
| Lemon UF 2-0-19              |             |        | 1                | ®, CBI     |
| Lemon UF 2-21-5              |             |        | 1                | ®, CBI     |
| Lemon UF 2-23-39             |             |        | 1                | ®, CBI     |
| Lemon UF 2-2-48              |             |        | 1                | ®, CBI     |
| Lemon UF 2-3-28              |             |        | 2                | ®, CBI     |
| Lemon UF 2-3-33              |             |        | 3                | ®, CBI     |
| Lemonquat US 2-31            | 1           | 1      | 1                |            |
| Lemorlime UF C4-5-27         |             |        | 1                | ®, CBI     |
| Leo X Te US 5-8-122          |             |        | 1                | ®          |
| Liang Ping Pum UF 8811       |             |        | 3                |            |
| Lime Hyb UF C4-10-11         |             |        | 1                | ®, CBI     |
| Lime Hyb UF C4-10-8          |             |        | 1                | ®, CBI     |
| Lime Hyb UF C4-6-52          |             |        | 1                | ®, CBI     |
| Lime Hyb UF C4-8-14          |             |        | 1                | ®, CBI     |
| Lime Hyb UF C4-9-33          |             |        | 1                | ®, CBI     |
| Lime SL Hyb UF C4-4-26       |             |        | 1                | ®, CBI     |
| Lime SL Hyb UF C4-6-35       |             |        | 1                | ®, CBI     |
| Limeberry DPI-50-43          |             |        | 1                |            |
| Limonia UF                   |             |        | 1                |            |
| Lisbon Le UF 3-9             | 3           | 4      | 2                |            |
| Long Fruit Kum DPI-603-20-50 | 1           | 5      | 2                |            |
| Loretto Lime 874-1           | 1           | 1      | 2                |            |
| Lue Gim Gong F-53-18         |             |        | 1                |            |
| M-7 Early Navel CGIP-194     | 2           | 22     |                  |            |
| M+LB8-8                      |             |        | 2                | ®, CBI     |
| Madam Vinous UF 13           |             |        | 1                |            |
| Malayan Kum UF 10            |             |        | 1                |            |
| Man Hyb UF VNB-36-4          |             |        | 1                | ®, CBI     |
| Man Hyb UF VNB-40-4          |             |        | 3                | ®, CBI     |
| Man x Org LT UF RBB-7-34     |             |        | 3                | ®, Fast    |
| Man X Org UF 6-2-55          |             |        | 2                | ®, CBI     |
| Man X Org UF RBB-6-25        |             |        | 2                | ®, CBI     |
| Man X Org UF RBB-7-34        |             |        | 2                | ®, Fast    |
| Mandalate CGIP-154           |             |        | 1                | ®, (NV)    |
| Mandalime UF 13-08           |             |        | 2                | ®, CBI     |
| Mandalime UF 15-04           |             |        | 2                | ®, CBI     |
| Mandarange UF 4-71           |             |        | 2                | ®, CBI     |
| Mandarange UF SB-7-13        |             |        | 2                | ®, CBI     |
| Mandarange UF SB-8-17        |             |        | 2                | ®, CBI     |
| Mandarange UF SB-8-70        |             |        | 2                | ®, CBI     |
| Mandared CGIP-166            |             |        | 3                | ®          |
| Mandarin 4x Cybrid 304 UF    |             |        | 2                | ®, CBI     |
| Mandarin DPI-50-34           |             |        | 1                |            |
| Mandarin LS UF N40W-5-1      |             |        | 1                | ®, CBI     |
| Mandarin LS US 1-22-79       |             |        | 3                |            |
| Mandarin LS US 4-13-31       |             |        | 2                |            |
| Mandarin LS US 4-13-39       |             |        | 2                |            |
| Mandarin LS US 4-13-7        |             |        | 2                |            |
| Mandarin Mid UF 711          |             |        | 3                | ®, Fast    |
| Mandarin Mid UF 711 Mixup    |             |        | 2                | ®, Fast    |
| Mandarin SL UF C4-15-21 (19) |             |        | 4                | ®, Fast    |
| Mandarin SL US 1-35-21       |             |        | 2                |            |
| Mandarin SL US 1-35-81       |             |        | 2                | ®, CBI     |

| Budwood Availability     | Scion Trees |        | Foundation Trees |            |
|--------------------------|-------------|--------|------------------|------------|
| Variety Clone            | # Part      | #Trees | #Trees           | Restricted |
| Mandarin SL US 1-88-113  |             |        | 3                | ®, CBI     |
| Mandarin SL US 6-1-41    |             |        | 2                | ®, CBI     |
| Mandarin SL US 6-2-110   |             |        | 2                | ®, CBI     |
| Mandarin SL US B1-SH-6-9 |             |        | 1                | ®, CBI     |
| Mandarin UF 09-02        |             |        | 1                | ®, CBI     |
| Mandarin UF 09-05        |             |        | 1                | ®, CBI     |
| Mandarin UF 09-07        |             |        | 1                | ®, CBI     |
| Mandarin UF 09-08        |             |        | 1                | ®, CBI     |
| Mandarin UF 10-04        |             |        | 1                | ®, CBI     |
| Mandarin UF 11-01        |             |        | 1                | ®, CBI     |
| Mandarin UF 11-02        |             |        | 1                | ®, CBI     |
| Mandarin UF 11-08        |             |        | 1                | ®, CBI     |
| Mandarin UF 11-10        |             |        | 1                | ®, CBI     |
| Mandarin UF 12-01        |             |        | 2                | ®, CBI     |
| Mandarin UF 12-02        |             |        | 2                | ®, CBI     |
| Mandarin UF 12-03        |             |        | 1                | ®, CBI     |
| Mandarin UF 12-06        |             |        | 2                | ®, CBI     |
| Mandarin UF 12-07        |             |        | 1                | ®, CBI     |
| Mandarin UF 12-08        |             |        | 2                | ®, CBI     |
| Mandarin UF 13-09        |             |        | 5                | ®, CBI     |
| Mandarin UF 13-12        |             |        | 2                | ®, CBI     |
| Mandarin UF 13-13        |             |        | 2                | ®, CBI     |
| Mandarin UF 13-14        |             |        | 2                | ®, CBI     |
| Mandarin UF 13-17        |             |        | 3                | ®, CBI     |
| Mandarin UF 14-04        |             |        | 2                | ®, CBI     |
| Mandarin UF 14-06        |             |        | 1                | ®, CBI     |
| Mandarin UF 14-08        |             |        | 1                | ®, CBI     |
| Mandarin UF 1424         |             |        | 2                | ®, CBI     |
| Mandarin UF 1425         |             |        | 1                | ®, CBI     |
| Mandarin UF 15-03        |             |        | 2                | ®, CBI     |
| Mandarin UF 15-05a       |             |        | 2                | ®, CBI     |
| Mandarin UF 15-05b       |             |        | 1                | ®, CBI     |
| Mandarin UF 15-06        |             |        | 2                | ®, CBI     |
| Mandarin UF 15-07        |             |        | 2                | ®, CBI     |
| Mandarin UF 15-08        |             |        | 2                | ®, CBI     |
| Mandarin UF 15-09        |             |        | 2                | ®, CBI     |
| Mandarin UF 15-17        |             |        | 2                | ®, CBI     |
| Mandarin UF 16-33        |             |        | 3                | ®, CBI     |
| Mandarin UF 16-34        |             |        | 3                | ®, CBI     |
| Mandarin UF 1703         |             |        | 2                | ®, CBI     |
| Mandarin UF 17-04        |             |        | 2                | ®, CBI     |
| Mandarin UF 17-08        |             |        | 2                | ®, CBI     |
| Mandarin UF 17-11        |             |        | 1                | ®, CBI     |
| Mandarin UF 17-12        |             |        | 2                | ®, CBI     |
| Mandarin UF 1722         |             |        | 1                | ®, CBI     |
| Mandarin UF 1780         |             |        | 2                | ®, CBI     |
| Mandarin UF 1818         |             |        | 1                | ®, CBI     |
| Mandarin UF 1859         |             |        | 1                | ®, CBI     |
| Mandarin UF 18A-1-25     |             |        | 1                | ®, CBI     |
| Mandarin UF 18A-1-40     |             |        | 1                | ®, CBI     |
| Mandarin UF 18A-2-14     |             |        | 1                | ®, CBI     |
| Mandarin UF 18A-2-28     |             |        | 1                | ®, CBI     |
| Mandarin UF 18A-2-31     |             |        | 2                | ®, CBI     |
| Mandarin UF 18A-4-46     |             |        | 1                | ®, CBI     |

| Budwood Availability  | Scion Trees |        | Foundation Trees |            |
|-----------------------|-------------|--------|------------------|------------|
| Variety Clone         | # Part      | #Trees | #Trees           | Restricted |
| Mandarin UF 18A-8-25  |             |        | 2                | ®, CBI     |
| Mandarin UF 18A-8-42  |             |        | 2                | ®, CBI     |
| Mandarin UF 18A-8-48  |             |        | 2                | ®, CBI     |
| Mandarin UF 18A-9-27  |             |        | 2                | ®, CBI     |
| Mandarin UF 18A-9-43  |             |        | 1                | ®, CBI     |
| Mandarin UF 304       |             |        | 2                | ®, CBI     |
| Mandarin UF 3-13-51   |             |        | 1                | ®, CBI     |
| Mandarin UF 3-13-86   |             |        | 1                | ®, CBI     |
| Mandarin UF 3-14-45   |             |        | 1                | ®, CBI     |
| Mandarin UF 3-3-52    |             |        | 2                | ®, CBI     |
| Mandarin UF 3-7-92    |             |        | 1                | ®, CBI     |
| Mandarin UF 411       |             |        | 4                | ®, Fast    |
| Mandarin UF 6-13-30   |             |        | 2                | ®, CBI     |
| Mandarin UF 7-8-55    |             |        | 2                | ®, CBI     |
| Mandarin UF 7-8-87    |             |        | 2                | ®, CBI     |
| Mandarin UF 7-9-7     |             |        | 1                | ®, CBI     |
| Mandarin UF 900       |             |        | 4                | ®, Fast    |
| Mandarin UF 9-10-28   |             |        | 2                | ®, CBI     |
| Mandarin UF 9-14      |             |        | 2                | ®, CBI     |
| Mandarin UF 916       |             |        | 2                | ®, CBI     |
| Mandarin UF 950       |             |        | 4                | ®, Fast    |
| Mandarin UF 9-8-20    |             |        | 2                | ®, CBI     |
| Mandarin UF B3-18-2   |             |        | 2                | ®, CBI     |
| Mandarin UF B7-2-59   |             |        | 2                | ®, CBI     |
| Mandarin UF BB4-8-20  |             |        | 2                | ®, CBI     |
| Mandarin UF C1-1-1    |             |        | 2                | ®, CBI     |
| Mandarin UF C1-7-30   |             |        | 2                | ®, CBI     |
| Mandarin UF C1-8-34   |             |        | 2                | ®, CBI     |
| Mandarin UF C4-10-42  |             |        | 1                | ®, CBI     |
| Mandarin UF C4-11-45  |             |        | 3                | ®, CBI     |
| Mandarin UF C4-14-15  |             |        | 1                | ®, CBI     |
| Mandarin UF C4-14-3   |             |        | 1                | ®, CBI     |
| Mandarin UF C4-14-51  |             |        | 2                | ®, CBI     |
| Mandarin UF C4-14-53  |             |        | 2                | ®, CBI     |
| Mandarin UF C4-15-3   |             |        | 2                | ®, CBI     |
| Mandarin UF C4-15-43  |             |        | 1                | ®, CBI     |
| Mandarin UF C4-16-23  |             |        | 2                | ®, CBI     |
| Mandarin UF C4-5-50   |             |        | 2                | ®, CBI     |
| Mandarin UF C4-7-29   |             |        | 1                | ®, CBI     |
| Mandarin UF C7-10-50  |             |        | 2                | ®, CBI     |
| Mandarin UF C7-12-14  |             |        | 2                | ®, CBI     |
| Mandarin UF C7-12-19  |             |        | 2                | ®, CBI     |
| Mandarin UF E20-42-13 |             |        | 2                | ®, CBI     |
| Mandarin UF E20-45-14 |             |        | 2                | ®, CBI     |
| Mandarin UF E20-45-19 |             |        | 2                | ®, CBI     |
| Mandarin UF KE-9-9    |             |        | 1                | ®, CBI     |
| Mandarin UF KW5-12    |             |        | 1                | ®, CBI     |
| Mandarin UF LB3-11    |             |        | 1                | ®, CBI     |
| Mandarin UF LB5-3     |             |        | 2                | ®, CBI     |
| Mandarin UF LB7-11    |             |        | 2                | ®, CBI     |
| Mandarin UF LB8-10    |             |        | 2                | ®, CBI     |
| Mandarin UF N18A-8-17 |             |        | 1                | ®          |
| Mandarin UF N18A-9-39 |             |        | 1                | ®, CBI     |
| Mandarin UF NB17-25   |             |        | 2                | ®, CBI     |

| Budwood Availability          | Scion Trees |        | Foundation Trees |              |
|-------------------------------|-------------|--------|------------------|--------------|
| Variety Clone                 | # Part      | #Trees | #Trees           | Restricted   |
| Mandarin UF RBS-13-8          |             |        | 2                | ®, CBI       |
| Mandarin UF RES-10-39         |             |        | 1                | ®, CBI       |
| Mandarin UF RES-19-22         |             |        | 2                | ®, CBI       |
| Mandarin UF RES-19-56         |             |        | 2                | ®, CBI       |
| Mandarin UF SB-2-48           |             |        | 1                | ®, CBI       |
| Mandarin UFDawn 09-13         |             |        | 2                | ®, Fast, CBI |
| Mandarin UFGlow 10-02         | 1           | 1      | 2                | ®, Fast, CBI |
| Mandarin UFSunrise 09-04      |             |        | 2                | ®, Fast, CBI |
| Mandarin US 1-10-90           |             |        | 2                | ®, CBI       |
| Mandarin US 1-20-68           |             |        | 2                | ®, CBI       |
| Mandarin US 1-23-130          |             |        | 2                |              |
| Mandarin US 1-24-48           |             |        | 2                | ®, CBI       |
| Mandarin US 1-26-52           |             |        | 2                | ®, CBI       |
| Mandarin US 1-30-52           |             |        | 2                | ®, CBI       |
| Mandarin US 1-34-11           |             |        | 2                | ®, CBI       |
| Mandarin US 1-57-105          |             |        | 2                | ®, CBI       |
| Mandarin US 1-63-77           |             |        | 2                | ®, CBI       |
| Mandarin US 1-63-85           |             |        | 2                | ®, CBI       |
| Mandarin US 1-78-62           |             |        | 2                | ®, CBI       |
| Mandarin US 1-81-193          |             |        | 1                | ®, CBI       |
| Mandarin US 1-84-2            |             |        | 1                | ®, CBI       |
| Mandarin US 1-8-70            |             |        | 2                |              |
| Mandarin US 1-8-96            |             |        | 2                | ®, CBI       |
| Mandarin US 6-32-43           |             |        | 2                | ®, CBI       |
| Mandarin US 6-32-67           |             |        | 2                | ®, CBI       |
| Mandarin US 6-34-45           |             |        | 2                | ®, CBI       |
| Mandarin US 6-35-90           |             |        | 2                |              |
| Mandarin US C54-4             |             |        | 2                | ®, CBI       |
| Mandarin US N-10-7            |             |        | 3                | ®, CBI       |
| Mandarin US N-8-6             |             |        | 3                | ®, CBI       |
| Marathon                      | 2           | 12     | 2                | ®, CBI       |
| Marisol Clem CGIP-124         | 1           | 1      | 3                | N            |
| Marsh Gft 74-1-1              |             |        | 5                |              |
| Marsh Gft F-57-4              | 3           | 7      | 5                |              |
| Marsh Gft F-58-6              | 1           | 10     |                  |              |
| Marumi Kum DPI-50-47          | 1           | 3      | 2                |              |
| Mayaca Navel 63-18-2          |             |        | 3                |              |
| McCarty Gft F-53-11           |             |        | 1                |              |
| McTeer Murcott                |             |        | 1                | ®, CBI       |
| Mediterranean Swt F-58-38     |             |        | 1                |              |
| Meiwa Kum F-27-29             | 5           | 11     | 6                |              |
| Melogold CGIP-112             |             |        | 4                | N            |
| Merav CGIP-146                | 1           | 1      |                  |              |
| Meravit CGIP-220              | 1           | 1      | 2                | ®, ISR       |
| Meyer Le US                   | 7           | 20     | 3                |              |
| Microcitrus Inodor US 80-527A |             |        | 1                |              |
| Microcitrus Papuana US        |             |        | 1                |              |
| Midknight CGIP-119            | 1           | 2      | 4                | N            |
| Midsweet LS UF 12-2-33        |             |        | 2                | ®, CBI       |
| Midsweet LS UF 2-23           |             |        | 1                | ®, CBI       |
| Midsweet LS UF SF11-1-24      |             |        | 4                | ®, 2015, CBI |
| Midsweet LS UF SF11-2-31      |             |        | 2                | ®, CBI       |
| Midsweet US 6-9               | 5           | 11     | 5                |              |
| Milam UF A                    |             |        | 1                |              |

| Budwood Availability        | Scion Trees |        | Foundation Trees |            |
|-----------------------------|-------------|--------|------------------|------------|
| Variety Clone               | # Part      | #Trees | #Trees           | Restricted |
| Miller B/O UF               |             |        | 2                | ®          |
| Mini-Mandarin UF N18A-10-18 |             |        | 1                | ®          |
| Minneola F-60-5             | 6           | 20     | 5                |            |
| Minnie Finger Lime          |             |        | 2                | ®          |
| Monreal Clem CGIP-109       |             |        | 1                | N          |
| Moria CGIP-164              | 1           | 1      | 3                | ®, ISR     |
| Moro B/O DPI-50-19          | 1           | 4      |                  |            |
| Moro B/O 3-3-11             |             |        | 3                |            |
| Moro X Tar B/O 3-2-66       |             |        | 1                |            |
| Morton US 1-3               | 1           | 33     | 1                |            |
| Mott Gft DPI-45             |             |        | 1                |            |
| Murcott 130-1-1S            | 8           | 14     | 6                |            |
| Murcott LS UF LB2-19        |             |        | 2                | ®, CBI     |
| Murcott LS UF N40-18A-10-09 |             |        | 2                | FL         |
| Murcott UF 18A-10-47        |             |        | 2                | ®, CBI     |
| Murcott UF 18A-3-16         |             |        | 2                | ®, CBI     |
| Nagami Kum SPB-323-1-1      | 2           | 3      | 4                |            |
| Nakon Pum US                |             |        | 3                |            |
| Nansho Daidai DPI-50-45     |             |        | 1                |            |
| Nasnaran DPI-50-49          |             |        | 1                |            |
| Natsumikan DPI-50-48        |             |        | 1                |            |
| Naugle Le DPI-206-1         |             |        | 1                |            |
| Navel Gft US 4-1            |             |        | 2                |            |
| Navel US 2-C                |             |        | 2                | ®, CBI     |
| Navel US 3-S                |             |        | 2                | ®, CBI     |
| Navel US1-N                 |             |        | 2                | ®, CBI     |
| Navelo 81-16-15             |             |        | 1                |            |
| Nectar CGIP-148             | 1           | 1      | 4                | ®, ISR     |
| Nine Pound Le DPI-201-21    |             |        | 3                |            |
| Nocatee F-25-26             |             |        | 1                |            |
| Nordmann Kum DPI-203-1      |             |        | 2                |            |
| Norton SPB-306              |             |        | 1                |            |
| Nour CGIP-149               |             |        | 4                | N          |
| Nova LS CGIP-200            |             |        | 2                |            |
| Nova US 7-41                | 2           | 2      | 3                |            |
| Nova+Osceola UF             |             |        | 3                | ®, CBI     |
| Nules Clem CGIP-125         | 3           | 6      | 3                | N          |
| Odem CGIP-219               | 1           | 2      | 2                | ®, ISR     |
| Orange Hyb LT US 1-76-52    |             |        | 2                | ®, CBI     |
| Orange Hyb US 1-10-1        |             |        | 2                | ®, CBI     |
| Orange Hyb US 1-4-12        |             |        | 2                | ®, CBI     |
| Orange Hyb US 1-46-15       |             |        | 2                | ®, CBI     |
| Orange Hyb US 1-5-213       |             |        | 2                |            |
| Orange Hyb US 1-5-35        |             |        | 2                | ®, CBI     |
| Orange Hyb US 1-65-55       |             |        | 2                | ®, CBI     |
| Orange Hyb US 1-74-52       |             |        | 2                |            |
| Orange Hyb US 1-74-92       |             |        | 1                | ®, CBI     |
| Orange Hyb US 1-75-113      |             |        | 2                | ®, CBI     |
| Orange Hyb US 1-75-55       |             |        | 1                | ®, CBI     |
| Orange Hyb US 1-85-109      |             |        | 2                | ®, CBI     |
| Orange Hyb US 1-85-119      |             |        | 1                | ®, CBI     |
| Orange Hyb US 1-85-82       |             |        | 2                | ®, CBI     |
| Orange Hyb US 1-90-251      |             |        | 1                | ®, CBI     |
| Orange Hyb US 6-45-137      |             |        | 2                | ®, CBI     |
| Orange Hyb US 6-47-9        |             |        | 1                | ®, CBI     |

| Budwood Availability       | Scion Trees |        | Foundation Trees |            |
|----------------------------|-------------|--------|------------------|------------|
| Variety Clone              | # Part      | #Trees | #Trees           | Restricted |
| Orange Hyb US 6-9-96       |             |        | 2                | ®, CBI     |
| Orange Hyb US 7650         |             |        | 2                |            |
| Orange Hyb US 7651         |             |        | 2                |            |
| Orange Hyb US 7652         |             |        | 2                |            |
| Orange Jasmine F-          |             |        | 1                |            |
| Orangequat Hyb DPI-203-5   |             |        | 1                |            |
| Orlando F-57-5             | 4           | 5      | 3                |            |
| Oroblanco CGIP-111         | 1           | 2      | 4                | N          |
| Orri CGIP-134              | 2           | 16     | 9                | ®, ISR     |
| Ortanique F-24-26          | 1           | 1      | 5                |            |
| Osceola US 3-58            |             |        | 2                |            |
| Oval Pink Pum DPI-212      |             |        | 1                |            |
| Owari Sat 874              |             |        | 5                |            |
| Owari Sat F-60-23          | 2           | 6      |                  |            |
| Owari Sat F-60-25B         | 2           | 6      | 1                |            |
| P Tri DPI-50-7             |             |        | 2                |            |
| P Tri Rubidoux F-16-20     | 2           | 13     | 1                |            |
| P Tri Wacissa F-18-1       | 3           | 74     | 1                |            |
| P+(CxS)                    |             |        | 2                | ®, CBI     |
| Page US 2-58               | 1           | 2      | 3                |            |
| Pandan Wangi Pum US        |             |        | 1                |            |
| Parana Gft CGIP-167        |             |        | 1                | N          |
| Parson Brown F-56-2        | 1           | 1      | 3                |            |
| Parson Special US          |             |        | 1                |            |
| Pera 3-3-85                |             |        | 1                |            |
| Pera US 18-11              |             |        | 1                |            |
| Pera US 7-39               |             |        | 1                |            |
| Persian Lime SPB-7         | 5           | 22     | 5                |            |
| Pineapple 53-10-10         | 1           | 4      | 5                |            |
| Pineapple F-60-3           | 2           | 4      | 3                |            |
| Pineapple SL US 10B-6-30   | 2           | 4      | 5                |            |
| Pineapple SPB-150-         | 1           | 2      |                  |            |
| Pink Gft US FF-1-26-51-BS  |             |        | 2                | ®, CBI     |
| Pink Pum Hyb US 10-1-1     |             |        | 1                |            |
| Pink Sensation Pum 884     |             |        | 1                |            |
| Pixie Man CGIP-181         |             |        | 3                | N          |
| Ponderosa Le DPI-203-8     | 3           | 6      | 3                |            |
| Ponkan DPI-50-6            | 3           | 4      | 5                |            |
| Pope F-53-28               |             |        | 1                |            |
| Procimequat UF             |             |        | 1                |            |
| Pum X Gft UF 4-1           |             |        | 2                | ®, CBI     |
| Pummelette UF 5-1-99-2     |             |        | 2                | ®, Fast    |
| Pummelette UF KWP-1-1      |             |        | 2                | ®, CBI     |
| Pummelo 61-12-             |             |        | 1                |            |
| Pummelo DPI-203-2          |             |        | 1                |            |
| Pummelo DPI-203-3          |             |        | 2                |            |
| Pummelo DPI-203-4          |             |        | 2                |            |
| Pummelo Hyb UF 3-1-21      |             |        | 1                | ®, CBI     |
| Pummelo Hyb UF 3-1-22      |             |        | 1                | ®, CBI     |
| Pummelo Hyb UF 3-1-43      |             |        | 2                | ®, CBI     |
| Pummelo Hyb UF 914         |             |        | 5                | ®, Fast    |
| Pummelo Hyb UF C2-5-03     |             |        | 1                | ®, CBI     |
| Pummelo Hyb UF C4-10-36    |             |        | 1                | ®, CBI     |
| Pummelo Hyb UF NB17-4-0219 |             |        | 1                | ®, CBI     |

| Budwood Availability        | Scion Trees |        | Foundation Trees |            |
|-----------------------------|-------------|--------|------------------|------------|
| Variety Clone               | # Part      | #Trees | #Trees           | Restricted |
| Pummelo Hyb UF NB19-17-0218 |             |        | 1                | ®, CBI     |
| Pummelo Hyb UF NB19-18-0218 |             |        | 1                | ®, CBI     |
| Pummelo Hyb UF NB19-22-0218 |             |        | 1                | ®, CBI     |
| Pummelo Hyb UF NB19-28-0218 |             |        | 1                | ®, CBI     |
| Pummelo Hyb UF NRB15-43     |             |        | 1                | ®, CBI     |
| Pummelo Hyb UF P2           |             |        | 1                | ®, CBI     |
| Pummelo Hyb US 10A-1-21     |             |        | 3                | ®          |
| Pummelo Hyb US 1-17-170     |             |        | 1                | ®, CBI     |
| Pummelo Hyb US 4-3-168      |             |        | 1                | ®, CBI     |
| Pummelo Hyb US 5-93-42      |             |        | 2                | ®, CBI     |
| Pummelo Hyb US 6-16-172     |             |        | 2                | ®, CBI     |
| Pummelo Hyb US 6-16-29      |             |        | 1                | ®, CBI     |
| Pummelo Hyb US 6-16-43      |             |        | 1                | ®, CBI     |
| Pummelo Hyb US 6-17-16      |             |        | 2                | ®, CBI     |
| Pummelo Hyb US 6-17-28      |             |        | 2                | ®, CBI     |
| Pummelo Hyb US 6-17-48      |             |        | 2                | ®, CBI     |
| Pummelo Hyb US 6-47-117     |             |        | 1                | ®, CBI     |
| Pummelo Hyb US LP-36-39     |             |        | 2                | ®, CBI     |
| Pummelo UF 16-29            |             |        | 2                | ®, CBI     |
| Pummelo UF 23-5-36          |             |        | 3                | ®, CBI     |
| Pummelo UF N40-16-12-7      |             |        | 3                | ®, CBI     |
| Pummelo UF N7-4             |             |        | 1                | ®, PR      |
| Pummelo US 10a-7-15         |             |        | 1                |            |
| Pummelo US 145 NE           |             |        | 3                |            |
| Pummelo US NW               |             |        | 3                |            |
| Queen 25-2-15               |             |        | 3                |            |
| Rangpur Lime F-3-8          |             |        | 1                |            |
| Rasnake Tangelo 625         | 1           | 1      |                  |            |
| Ray Ruby Gft CGIP-103       | 6           | 38     | 10               | N          |
| Red Finger Lime DPI-50-36   | 1           | 1      | 3                |            |
| Red Gft UF 16-11-17         |             |        | 2                | ®, CBI     |
| Red Gft UF N11-29           |             |        | 2                | ®, CBI     |
| Red Gft UF N40-16-11-15     |             |        | 2                | ®, CBI     |
| Red Gft UF N40-16-11-3      |             |        | 2                | ®, CBI     |
| Red Gft UF N40-16-11-7      |             |        | 2                | ®          |
| Red Java Pum UF 6-4A        |             |        | 1                |            |
| Red Lime 899                | 2           | 4      | 1                |            |
| Red Pum UF 5-1-99-5         |             |        | 2                | ®, Fast    |
| Red Pum UF C2-5-12          |             |        | 1                | ®, Fast    |
| Red Pum UF C4-11-19         |             |        | 1                | ®, PR      |
| Red Pum UF C4-2-8           |             |        | 3                | ®, PR      |
| Red Pum UF KW-1-50          |             |        | 3                | ®, PR      |
| Red Pum UF UKP-1            |             |        | 1                | ®, PR, CBI |
| Red Shaddock UF 5-4A        |             |        | 1                |            |
| Ridge Pi SPB-602-36         |             |        | 1                |            |
| Rio Red Gft CGIP-110        | 6           | 30     | 7                | N          |
| Robinson US 3-56            | 1           | 2      | 4                |            |
| Roble 502-4-12              |             |        | 6                |            |
| Rohde Red 472-11-43         | 5           | 16     | 10               |            |
| Rohde Red DPI-50-3-1        |             |        | 1                |            |
| Rohde Red DPI-50-3-2        |             |        | 1                |            |
| Rohde Red DPI-50-3-8        |             |        | 1                |            |
| Rohde Red DPI-50-3-9        |             |        | 1                |            |
| Rohde Red UF B3-42          |             |        | 1                | ®, CBI     |

| Budwood Availability          | Scion Trees |        | Foundation Trees |            |
|-------------------------------|-------------|--------|------------------|------------|
| Variety Clone                 | # Part      | #Trees | #Trees           | Restricted |
| Rosa UF 156                   |             |        | 1                | ®          |
| Rough Le 199                  | 1           | 23     |                  |            |
| Rough Le Red UF 8-7           | 1           | 16     | 2                |            |
| Round Lime DPI-205-2          |             |        | 1                |            |
| Royal Gft US 4-39             |             |        | 1                |            |
| RS UF 16-03                   |             |        | 2                | ®, CBI     |
| RS UF 16-04                   |             |        | 2                | ®, CBI     |
| RS UF 16-05                   |             |        | 2                | ®, CBI     |
| RS UF 16-06                   |             |        | 2                | ®, CBI     |
| RS UF 16-07                   |             |        | 2                | ®, CBI     |
| RS UF 16-08                   |             |        | 2                | ®, CBI     |
| RS UF 16-09                   |             |        | 2                | ®, CBI     |
| RS UF 16-10                   |             |        | 2                | ®, CBI     |
| RS UF 16-11                   |             |        | 3                | ®, CBI     |
| RS UF 16-12                   |             |        | 2                | ®, CBI     |
| RS UF 16-13                   |             |        | 2                | ®, CBI     |
| RS UF 16-14                   |             |        | 2                | ®, CBI     |
| RS UF 16-15                   |             |        | 2                | ®, CBI     |
| RS UF 16-16                   |             |        | 4                | ®, CBI     |
| RS UF 16-17                   |             |        | 2                | ®, CBI     |
| RS UF 16-18                   |             |        | 2                | ®, CBI     |
| RS UF 16-19                   |             |        | 2                | ®, CBI     |
| RS UF 16-20                   |             |        | 2                | ®, CBI     |
| RS UF 16-21                   |             |        | 2                | ®, CBI     |
| RS UF 16-22                   |             |        | 2                | ®, CBI     |
| RS UF 16-23                   |             |        | 2                | ®, CBI     |
| RS UF 16-26                   |             |        | 2                | ®, CBI     |
| RS UF 16-41                   |             |        | 2                | ®, CBI     |
| RS UF 16-42                   |             |        | 2                | ®, CBI     |
| RS UF 16-43                   |             |        | 2                | ®, CBI     |
| RS UF 16-44                   |             |        | 3                | ®, CBI     |
| RS UF 16-52                   |             |        | 3                | ®, CBI     |
| RS UF 16-5-28 Orange16        |             |        | 1                | ®, CBI     |
| RS UF 16-53                   |             |        | 2                | ®, CBI     |
| RS UF 16-5-5 Orange14         |             |        | 2                | ®, CBI     |
| RS UF 18-2-19 White-1         |             |        | 2                | ®, CBI     |
| RS UF 18-2-8 Green-7          |             |        | 2                | ®, CBI     |
| RS UF 2247x1571-00-3 White-3  |             |        | 2                | ®, CBI     |
| RS UF 2247x2075-01-2          |             |        | 2                | ®, CBI     |
| RS UF 2247x2075-02-26         |             |        | 3                | ®, CBI     |
| RS UF 2247x6070-02-2          |             |        | 3                | ®, CBI     |
| RS UF 46x20-04-32             |             |        | 2                | ®, CBI     |
| RS UF 46x20-04-48             |             |        | 2                | ®, CBI     |
| RS UF 46x20-04-6              |             |        | 3                | ®, CBI     |
| RS UF 46x20-04-S13            |             |        | 1                | ®, CBI     |
| RS UF 46x20-04-S15            |             |        | 2                | ®, CBI     |
| RS UF 46x43-05-SDLG-51        |             |        | 2                | ®, CBI     |
| RS UF A+HBJL-1-OP-09-36       |             |        | 3                | ®, CBI     |
| RS UF A+HBPxOrange 19-08-2    |             |        | 2                | ®, CBI     |
| RS UF A+Volk x Orange 19-11-8 |             |        | 2                | ®, CBI     |
| RS UF AMB+HBJL-2              |             |        | 2                | ®, CBI     |
| RS UF B21-R1-T2-11-2          |             |        | 1                | ®, CBI     |
| RS UF B21-R1-T25-11-6         |             |        | 2                | ®, CBI     |
| RS UF Blue 1                  |             |        | 2                | ®, CBI     |

| Budwood Availability              | Scion Trees |        | Foundation Trees |            |
|-----------------------------------|-------------|--------|------------------|------------|
| Variety Clone                     | # Part      | #Trees | #Trees           | Restricted |
| RS UF Cleo+Carrizo                |             |        | 2                | ®, CBI     |
| RS UF Gft + 50-7                  |             |        | 2                | ®, CBI     |
| RS UF Green x Orange 14-09-32     |             |        | 2                | ®, CBI     |
| RS UF Milam+HBP x Orange 14-09-10 |             |        | 2                | ®, CBI     |
| RS UF Milam+HBP x Orange 14-09-9  |             |        | 3                | ®, CBI     |
| RS UF Milam+HBPxOrange 14-09-14   |             |        | 2                | ®, CBI     |
| RS UF Murcott+Rubidoux            |             |        | 2                | ®, CBI     |
| RS UF Purple 4                    |             |        | 1                | ®, CBI     |
| RS UF SG-50-6                     |             |        | 2                | ®, CBI     |
| RS UF SO + 50-7                   |             |        | 3                | ®, CBI     |
| RS UF SO + FDT                    |             |        | 1                | ®, CBI     |
| Ruby Red Gft F-58-39              | 6           | 26     | 10               |            |
| Ruby Swt (35) UF 32-10            |             |        | 2                |            |
| Ruby Valencia CGIP-195            | 1           | 6      | 2                | ®          |
| Ryan Navel CGIP-186               | 1           | 4      | 2                |            |
| Salustiana 3-1-71                 | 1           | 1      | 1                |            |
| Sampson UF 9-1A                   |             |        | 1                |            |
| Sanboka US 7-55                   | 1           | 2      | 1                |            |
| Sanguinelli B/O US 10-5-17        | 2           | 5      | 4                |            |
| Sanguinello Riccio UF 200         |             |        | 1                | ®          |
| Santa Cat Navel US 1              |             |        | 1                |            |
| Scott Red Gft #3 DPI-666-6        |             |        | 2                | ®          |
| Scott Red Gft #369 DPI-666-9      |             |        | 1                | ®          |
| Scott Red Gft #5 DPI-666-7        |             |        | 2                | ®          |
| Scott Red Gft #6 DPI-666-8        |             |        | 2                | ®          |
| Scott Red Gft #63 DPI-666-10      |             |        | 2                | ®          |
| Scott Red Gft #79 DPI-666-11      |             |        | 4                | ®          |
| Scott White Gft #10 DPI-666-12    |             |        | 3                | ®          |
| Seduced S/O DPI-666-13            |             |        | 2                | ®          |
| Seedless Snack UF N40W-6-3        | 1           | 1      | 4                | ®, Fast    |
| Seleta Agrocitros UF 132          |             |        | 1                | ®          |
| Seleta Branca UF 166              |             |        | 1                | ®          |
| Seminole SPB-342-3-3              |             |        | 1                |            |
| Serra D Agua UF 210               |             |        | 1                | ®          |
| Setoka CGIP-187                   | 1           | 3      | 2                |            |
| Sexton F-47-24                    |             |        | 1                |            |
| Shambar Gft US 3-63               |             |        | 1                |            |
| Shasta Gold CGIP-159              | 1           | 1      | 4                | ®, (NV)    |
| Shatian Pum CGIP-126              |             |        | 3                | N          |
| Shekwasha US 9-1-27               |             |        | 1                |            |
| Shiranui CGIP-132                 | 1           | 1      | 4                | FL         |
| Siamese Pink Pum UF 6-12A         |             |        | 3                |            |
| Siamese Pum UF 6-9A               |             |        | 1                |            |
| Siamese Swt Pum DPI-203-16        | 1           | 1      | 3                |            |
| Silver Hill Sat US                |             |        | 3                |            |
| Sinton Citrqt US                  |             |        | 1                |            |
| Smooth Flat Sev US 2-2-14         | 1           | 20     | 1                |            |
| Sour Orange DPI-50-9              | 2           | 6      |                  |            |
| Sour Orange F-49-7                | 6           | 151    | 3                |            |
| Star Ruby Gft DPI-60              | 5           | 210    | 4                |            |
| Succari US 7-21                   |             |        | 1                |            |
| Sugar Belle LS UF 1-3             |             |        | 2                | ®, CBI     |
| Sugar Belle UF LB8-9              | 8           | 43     | 8                | ®, (NV)    |
| Sukega Gft CGIP-182               |             |        | 1                |            |

| Budwood Availability         | Scion Trees |        | Foundation Trees |              |
|------------------------------|-------------|--------|------------------|--------------|
| Variety Clone                | # Part      | #Trees | #Trees           | Restricted   |
| Summer Gold Gft UF N2-28     | 1           | 1      | 2                | ®, Fast      |
| Summerfield Navel DPI-70-4-9 | 1           | 6      | 2                |              |
| Sun Chu Sha US 9-12-12       | 4           | 42     | 1                |              |
| Sun Hing Pum DPI-203-7       |             |        | 3                |              |
| Sunburst US 5                | 5           | 13     | 8                |              |
| Sundiatgo US 5-17            |             |        | 1                |              |
| Sunki DPI-50-50              |             |        | 1                |              |
| Sunquat DPI-50-27            |             |        | 1                |              |
| Sunshine US 10-13            |             |        | 1                |              |
| Sunstar US 6-6               |             |        | 5                |              |
| SuperSour 1                  |             |        | 2                | ®, CBI       |
| Supersour 2                  | 1           | 4      | 2                | ®, CBI       |
| SuperSour 3                  |             |        | 3                | ®, CBI       |
| Sweet Lime F-10-10           | 2           | 3      | 1                |              |
| Sweet Orange SL UF C4-16-12  |             |        | 2                | ®, PR        |
| Sweet Orange UF 12-05        |             |        | 2                | ®, CBI       |
| Sweet Orange UF 7-9-35       |             |        | 1                | ®, CBI       |
| Sweet Orange UF 99-01        |             |        | 4                | ®, CBI       |
| Sweet Orange UF C1-41-B      |             |        | 2                | ®, CBI       |
| Sweet Orange UF N10-25       |             |        | 2                | ®, CBI       |
| Sweet Orange UF OLL10        |             |        | 2                | ®, CBI       |
| Sweet Orange UF OLL-20IR-46  |             |        | 1                | ®, CBI       |
| Sweet Orange UF OLL-20IR-54  |             |        | 2                | ®, CBI       |
| Sweet Orange UF OLL23        |             |        | 2                | ®, CBI       |
| Sweet Orange UF OLL4         | 9           | 112    | 9                | ®, 2015, CBI |
| Sweet Orange UF OLL6         |             |        | 2                | ®, CBI       |
| Sweet Orange UF OLL7         |             |        | 2                | ®, CBI       |
| Sweet Orange UF OLL8         | 9           | 129    | 6                | ®, 2014, CBI |
| Sweet Orange UF RBA-22-29    |             |        | 1                | ®, CBI       |
| Swingle DPI-227              | 2           | 105    |                  |              |
| Swingle US 22-55             | 10          | 976    | 3                |              |
| Sydney Hyb US                |             |        | 2                |              |
| Tahoe Gold CGIP-140          | 1           | 1      | 3                | ®, (NV)      |
| Tami CGIP-145                | 1           | 1      | 6                | ®, ISR       |
| Tango CGIP-168               | 5           | 12     | 11               | ®, (NV)      |
| Tangor UF 11-07              |             |        | 2                | ®, CBI       |
| Tangor UF 13-07              |             |        | 2                | ®, CBI       |
| Tangor UF 13-15              |             |        | 2                | ®, CBI       |
| Tangor UF 15-01              |             |        | 3                | ®, CBI       |
| Tangor UF 16-46              |             |        | 1                | ®, CBI       |
| Tangor UF 16-47              |             |        | 2                | ®, CBI       |
| Tankan US 2E-4-25            |             |        | 1                | ®, CBI       |
| Tarocco B/O UF 30-37         |             |        | 1                |              |
| Tavares Lqt US 9-4-48        |             |        | 3                |              |
| TDE-1 CGIP-158               |             |        | 3                | ®            |
| Te X Or US 10-15-67          |             |        | 1                | ®            |
| Temple 33-6-15               | 3           | 5      | 3                |              |
| Temple LS DPI-75             |             |        | 3                |              |
| Thomasville Citrqt US 1-20   |             |        | 1                |              |
| Thompson Gft 25-3-6          | 3           | 5      | 4                |              |
| Thomson Navel US 6-6         |             |        | 1                | ®            |
| Thong Dee Pum UF 5-8A        |             |        | 1                |              |
| Tresca US 10C-2-4            |             |        | 5                | ®            |
| Triumph Gft DPI-32-4         |             |        | 1                |              |

| Budwood Availability | Scion Trees |        | Foundation Trees |            |
|----------------------|-------------|--------|------------------|------------|
| Variety Clone        | # Part      | #Trees | #Trees           | Restricted |
| UF 11-4-1            |             |        | 1                | ®, CBI     |
| UFR-01 Orange3       | 2           | 25     | 1                | ®, CBI     |
| UFR-02 Orange4       | 3           | 19     | 2                | ®, CBI     |
| UFR-03 Orange15      | 6           | 58     | 2                | ®, CBI     |
| UFR-04 Orange19      | 9           | 288    | 2                | ®, CBI     |
| UFR-05 White4        | 5           | 82     | 2                | ®, CBI     |
| UFR-06               | 3           | 99     | 2                | ®, CBI     |
| UFR-07               |             |        | 3                | ®, CBI     |
| UFR-08               |             |        | 1                | ®, CBI     |
| UFR-09               |             |        | 3                | ®, CBI     |
| UFR-10               |             |        | 3                | ®, CBI     |
| UFR-11               |             |        | 2                | ®, CBI     |
| UFR-12               |             |        | 2                | ®, CBI     |
| UFR-14               |             |        | 2                | ®, CBI     |
| UFR-15               | 3           | 26     | 2                | ®          |
| UFR-16               | 4           | 46     | 2                | ®, CBI     |
| UFR-17 Green2        | 4           | 26     | 2                | ®, PR      |
| Ugli DPI-74          | 1           | 1      | 1                |            |
| US Furr              | 1           | 6      | 2                |            |
| US Furr-ST           |             |        | 5                |            |
| US Honeycoat         |             |        | 2                | ®, CBI     |
| US Ortanique-LS      |             |        | 2                | ®, CBI     |
| US Seedless Surprise |             |        | 6                | ®, (NV)    |
| US Sundragon         | 1           | 2      | 2                | ®, CBI     |
| US Superna           |             |        | 2                | ®, CBI     |
| US-1102              |             |        | 3                | ®, CBI     |
| US-1103              |             |        | 1                | ®, CBI     |
| US-1104              |             |        | 2                | ®, CBI     |
| US-1105              |             |        | 2                | ®, CBI     |
| US-1130              |             |        | 3                | ®, CBI     |
| US-1137              |             |        | 3                | ®, CBI     |
| US-119               |             |        | 1                | ®, CBI     |
| US-1271              |             |        | 2                | ®, CBI     |
| US-1279              | 2           | 12     | 3                | ®, CBI     |
| US-1280              |             |        | 1                | ®, CBI     |
| US-1281              | 1           | 34     | 3                |            |
| US-1282              | 1           | 42     | 3                |            |
| US-1283              | 2           | 26     | 3                |            |
| US-1284              | 2           | 21     | 3                |            |
| US-1287              |             |        | 3                | ®, CBI     |
| US-1293              |             |        | 3                | ®, CBI     |
| US-1297              |             |        | 3                | ®, CBI     |
| US-1305              |             |        | 2                | ®, CBI     |
| US-1317              |             |        | 3                | ®, CBI     |
| US-1318              |             |        | 2                | ®, CBI     |
| US-1319              |             |        | 3                | ®, CBI     |
| US-1321              |             |        | 3                | ®, CBI     |
| US-1460              |             |        | 3                | ®, CBI     |
| US-1473              |             |        | 3                | ®, CBI     |
| US-1481              |             |        | 3                | ®, CBI     |
| US-1516              | 4           | 48     | 2                |            |
| US-1627              |             |        | 2                | ®, CBI     |
| US-1629              |             |        | 1                | ®, CBI     |
| US-1637              |             |        | 1                | ®, CBI     |

| Budwood Availability | Scion Trees |        | Foundation Trees |            |
|----------------------|-------------|--------|------------------|------------|
| Variety Clone        | # Part      | #Trees | #Trees           | Restricted |
| US-1644              |             |        | 2                | ®, CBI     |
| US-1645              |             |        | 3                | ®, CBI     |
| US-1649              |             |        | 3                | ®, CBI     |
| US-1659              |             |        | 2                | ®, CBI     |
| US-1660              |             |        | 1                | ®, CBI     |
| US-1663              |             |        | 2                | ®, CBI     |
| US-1664              |             |        | 2                | ®, CBI     |
| US-1671              |             |        | 3                | ®, CBI     |
| US-1672              |             |        | 2                | ®, CBI     |
| US-1673              |             |        | 2                | ®, CBI     |
| US-1676              |             |        | 1                | ®, CBI     |
| US-1678              |             |        | 3                | ®, CBI     |
| US-1679              |             |        | 4                | ®, CBI     |
| US-1680              |             |        | 1                | ®, CBI     |
| US-1681              |             |        | 4                | ®, CBI     |
| US-1687              |             |        | 1                | ®, CBI     |
| US-1688              |             |        | 3                | ®, CBI     |
| US-1689              |             |        | 1                | ®, CBI     |
| US-1690              |             |        | 3                | ®, CBI     |
| US-1692              |             |        | 2                | ®, CBI     |
| US-1694              |             |        | 4                | ®, CBI     |
| US-1695              |             |        | 2                | ®, CBI     |
| US-1696              |             |        | 1                | ®, CBI     |
| US-1701              |             |        | 3                | ®, CBI     |
| US-1705              |             |        | 2                | ®, CBI     |
| US-1709              |             |        | 1                | ®, CBI     |
| US-1710              |             |        | 2                | ®, CBI     |
| US-1721              |             |        | 1                | ®, CBI     |
| US-1730              |             |        | 2                | ®, CBI     |
| US-1740              |             |        | 2                | ®, CBI     |
| US-1741              |             |        | 2                | ®, CBI     |
| US-1742              |             |        | 2                | ®, CBI     |
| US-1744              |             |        | 1                | ®, CBI     |
| US-1745              |             |        | 1                | ®, CBI     |
| US-1750              |             |        | 2                | ®, CBI     |
| US-1753              |             |        | 2                | ®, CBI     |
| US-1756              |             |        | 2                | ®, CBI     |
| US-1757              |             |        | 2                | ®, CBI     |
| US-1837              |             |        | 2                | ®, CBI     |
| US-1845              |             |        | 2                | ®, CBI     |
| US-1851              |             |        | 2                | ®, CBI     |
| US-1859              |             |        | 2                | ®, CBI     |
| US-1865              |             |        | 2                | ®, CBI     |
| US-1867              |             |        | 2                | ®, CBI     |
| US-2101              |             |        | 2                | ®, CBI     |
| US-2102              |             |        | 2                | ®, CBI     |
| US-2103              |             |        | 2                | ®, CBI     |
| US-2104              |             |        | 2                | ®, CBI     |
| US-2105              |             |        | 2                | ®, CBI     |
| US-2106              |             |        | 2                | ®, CBI     |
| US-2107              |             |        | 1                | ®, CBI     |
| US-2108              |             |        | 2                | ®, CBI     |
| US-2109              |             |        | 2                | ®, CBI     |
| US-2110              |             |        | 2                | ®, CBI     |

| Budwood Availability | Scion Trees |        | Foundation Trees |            |
|----------------------|-------------|--------|------------------|------------|
| Variety Clone        | # Part      | #Trees | #Trees           | Restricted |
| US-2111              |             |        | 3                | ®, CBI     |
| US-2127              |             |        | 1                | ®, CBI     |
| US-2132              |             |        | 1                | ®, CBI     |
| US-2135              |             |        | 4                | ®, CBI     |
| US-2136              |             |        | 1                | ®, CBI     |
| US-2175              |             |        | 2                | ®, CBI     |
| US-2195              |             |        | 2                | ®, CBI     |
| US-2250              |             |        | 1                | ®, CBI     |
| US-2255              |             |        | 1                | ®, CBI     |
| US-2259              |             |        | 1                | ®, CBI     |
| US-2264              |             |        | 2                | ®, CBI     |
| US-2272              |             |        | 2                | ®, CBI     |
| US-2280              |             |        | 2                | ®, CBI     |
| US-2290              |             |        | 1                | ®, CBI     |
| US-2293              |             |        | 1                | ®, CBI     |
| US-2303              |             |        | 2                | ®, CBI     |
| US-2315              |             |        | 2                | ®, CBI     |
| US-2331              |             |        | 2                | ®, CBI     |
| US-2336              |             |        | 1                | ®, CBI     |
| US-2338              |             |        | 1                | ®, CBI     |
| US-2343              |             |        | 2                | ®, CBI     |
| US-2345              |             |        | 1                | ®, CBI     |
| US-2491              |             |        | 2                | ®, CBI     |
| US-2492              |             |        | 2                | ®, CBI     |
| US-2493              |             |        | 2                | ®, CBI     |
| US-2494              |             |        | 2                | ®, CBI     |
| US-376-10            |             |        | 4                | ®, CBI     |
| US-376-5             |             |        | 3                | ®, CBI     |
| US-376-6             |             |        | 3                | ®, CBI     |
| US-376-8             |             |        | 2                | ®, CBI     |
| US-377-V1            |             |        | 2                | ®, CBI     |
| US-377-V2            |             |        | 3                | ®, CBI     |
| US-378-G1            |             |        | 3                | ®, CBI     |
| US-378-G2            |             |        | 2                | ®, CBI     |
| US-801               |             |        | 2                | ®, CBI     |
| US-802               | 16          | 734    | 5                |            |
| US-812               | 13          | 682    | 2                |            |
| US-852               |             |        | 3                |            |
| US-896               | 1           | 10     | 1                | ®, CBI     |
| US-897               | 16          | 664    | 5                |            |
| US-942               | 20          | 1575   | 5                |            |
| USDA 1-105-106       |             |        | 4                | ®, CBI     |
| USDA 1-25-1          |             |        | 2                | ®, CBI     |
| USDA 1-37-12         |             |        | 2                | ®, CBI     |
| USDA 1-42-65         |             |        | 2                | ®, CBI     |
| USDA 1-42-70         |             |        | 2                | ®, CBI     |
| USDA 1-43-21         |             |        | 2                | ®, CBI     |
| USDA 1-46-30         |             |        | 2                | ®, CBI     |
| USDA 1-49-105        |             |        | 3                | ®, CBI     |
| USDA 5-51-2          |             |        | 3                | ®, CBI     |
| USDA 6-15-150        |             |        | 2                | ®, CBI     |
| USDA 6-2-53          |             |        | 2                | ®, CBI     |
| Valencia -           | 1           | 1      |                  |            |
| Valencia 10-12-7     |             |        | 1                |            |

| Budwood Availability           | Scion Trees |        | Foundation Trees |              |
|--------------------------------|-------------|--------|------------------|--------------|
| Variety Clone                  | # Part      | #Trees | #Trees           | Restricted   |
| Valencia 51-3-3                |             |        | 1                |              |
| Valencia Appleby UF 11-71      |             |        | 1                | ®            |
| Valencia F-55-1                |             |        | 1                |              |
| Valencia F-55-23               | 1           | 4      | 1                |              |
| Valencia F-55-28               |             |        | 1                |              |
| Valencia F-55-4                | 9           | 126    | 37               |              |
| Valencia Jenner UF 19-39       |             |        | 2                | ®            |
| Valencia Late UF N10-13        |             |        | 3                | ®, CBI       |
| Valencia Late UF N7-2          |             |        | 2                | ®, CBI       |
| Valencia Mid UF OLL20          | 2           | 6      | 2                | ®, CBI       |
| Valencia Navel 522-15-14       | 1           | 13     |                  |              |
| Valencia SL UF 2-21            |             |        | 2                | ®, 2015, CBI |
| Valencia SPB-1-12-7            |             |        | 3                |              |
| Valencia SPB-1-14-19           | 21          | 592    | 111              |              |
| Valencia SPB-1-14-31           | 3           | 36     | 5                |              |
| Valencia UF 1-56               |             |        | 2                | ®, CBI       |
| Valencia UF 1-62               |             |        | 2                | ®, CBI       |
| Valencia UF B9-65              | 4           | 14     | 5                | ®, 2015, CBI |
| Valencia UF BHG2-68            |             |        | 2                | ®, CBI       |
| Valencia UF C2A-1-23           |             |        | 1                | ®, CBI       |
| Valencia UF N40-16-7-11        |             |        | 1                | ®, CBI       |
| Valencia UF N7-10              |             |        | 2                | ®, CBI       |
| Valencia UF N9-12              |             |        | 2                | ®, CBI       |
| Valencia UF SF14W-65 NP        | 1           | 2      |                  |              |
| Valenfresh UF N7-3             |             |        | 4                | ®, 2015      |
| Valquarius LT UF SF14W-62      | 4           | 10     | 7                | ®, CBI       |
| Valquarius UF SF14W-62         | 3           | 5      | 2                | ®, (NV)      |
| Vangasay Le US 9-1-23          |             |        | 1                |              |
| Variegated Minneola F-2-4      |             |        | 1                |              |
| Variegated Pink Le US          | 3           | 6      | 4                |              |
| Variegated Rough Le US 10-6-11 |             |        | 1                |              |
| Variegated S/O US 18-4         |             |        | 1                |              |
| Varn Navel SPB-194-10-2        |             |        | 2                |              |
| Vernia UF 35-15                | 15          | 320    | 18               |              |
| Vernia UF 35-16                | 1           | 2      |                  |              |
| Vernia UF C2-2-1               |             |        | 2                |              |
| Vernia UF C2A-1-10             | 1           | 1      | 4                | ®, CBI       |
| Volkamer Le US 9-2-19          | 4           | 100    | 3                |              |
| W Murcott CGIP-122             | 4           | 10     | 5                | N            |
| Wash Navel F-60-13             | 1           | 1      |                  |              |
| Wash Navel F-60-18             | 1           | 3      | 2                |              |
| Wash Navel F-60-19             | 2           | 2      | 5                |              |
| Weeping Dragon                 |             |        | 1                |              |
| Wekiwa US 11-7                 |             |        | 3                |              |
| Westin UF 47-13                | 1           | 1      |                  |              |
| Westin UF 47-2                 |             |        | 2                |              |
| WG Man 911-02                  | 1           | 3      |                  |              |
| WG Man 911-03                  | 1           | 3      |                  |              |
| Man 911-17                     | 1           | 1      |                  |              |
| WG Man 911-32                  | 1           | 2      |                  |              |
| WG Man 911-B-23                | 1           | 1      |                  |              |
| WG Man 911-B-24                | 1           | 1      |                  |              |
| WG Man 911-B-26                | 1           | 1      |                  |              |
| WG Man 911-B-37                | 1           | 1      |                  |              |

| Budwood Availability          | Scion Trees |        | Foundation Trees |            |
|-------------------------------|-------------|--------|------------------|------------|
| Variety Clone                 | # Part      | #Trees | #Trees           | Restricted |
| WG Man 911-C-34               | 1           | 1      |                  |            |
| WG Man 911-C-37               | 1           | 4      |                  |            |
| WG Man 911-E-22               | 1           | 1      |                  |            |
| WG Man 911-E-26               | 1           | 1      |                  |            |
| WG Man 911-E-28               | 1           | 1      |                  |            |
| Wheeny Gft CGIP-183           |             |        | 2                |            |
| White Man UF 6-16-116         |             |        | 2                | ®, CBI     |
| White Orange DPI-203-18       |             |        | 2                | N          |
| White Tangelo 956-1           |             |        | 1                |            |
| Wild Turkey Navel 941-11-30-1 | 1           | 1      | 1                |            |
| Willits US 12-8-19            | 2           | 83     | 1                |            |
| Willowleaf Man SPB-89-1-1     |             |        | 1                |            |
| Willowleaf S/O F-12-9         |             |        | 1                |            |
| Winola CGIP-165               | 1           | 2      | 1                | ®, ISR     |
| X-639 DPI-50-8                | 15          | 846    | 3                |            |
| Xie Shan Sat CGIP-163         | 1           | 2      | 4                | N          |
| Yellow Gft 345-1-15           | 1           | 1      |                  |            |
| Yosemite Gold CGIP-141        | 1           | 1      | 3                | ®, (NV)    |
| Yuzu F-9-15                   | 1           | 1      | 1                |            |
|                               |             |        |                  |            |

