### 2018 - 2019

# FOREST TREE NURSERY SEEDLING PRODUCTION SURVEY

Scott Enebak November 2019

## 2018 - 2019 Survey

- ✓ Two page questionnaire sent in June to all available nursery addresses in 12 southern states.
- ✓ Follow up telephone calls made to maximize participation and update addresses.
- ✓ Creation of an Excel data file, then data summary using SAS.
- ✓ Report preparation.

#### RESULTS

#### **Questionnaire Response**

- >Total of 58 surveys sent out via Qualtrics Online Form
- >49 were filled out with seedling production numbers.
- > 9 nurseries did not respond to online request.
- > 4 of those 9 nurseries had responded to our requests in previous years.
- Used previous years' numbers.
- >53 surveys in data, same data points as last year.

#### **Conifer Production by Stock: 2018-19**

|                 | Conifer<br>Production | Percent Change from Last Year |
|-----------------|-----------------------|-------------------------------|
| Bareroot Stock  | 775,085,000           | - 6.0%                        |
| Container Stock | 226,491,000           | +5.0%                         |
| Total Conifer   | 1,001,576,000         | -3.7%                         |

#### **Conifer Production: 2018-2019**

| Species       | Production  | Percent Change from<br>Last Year |
|---------------|-------------|----------------------------------|
| Loblolly Pine | 801,338,000 | - 2.8 %                          |
| Slash Pine    | 104,194,000 | - 14.0 %                         |
| Longleaf Pine | 92,017,000  | +2.7 %                           |

- >85% of Loblolly pine produced is bareroot stock
- >82% of Slash pine produced is bareroot stock
- >85% of Longleaf pine produced is container stock

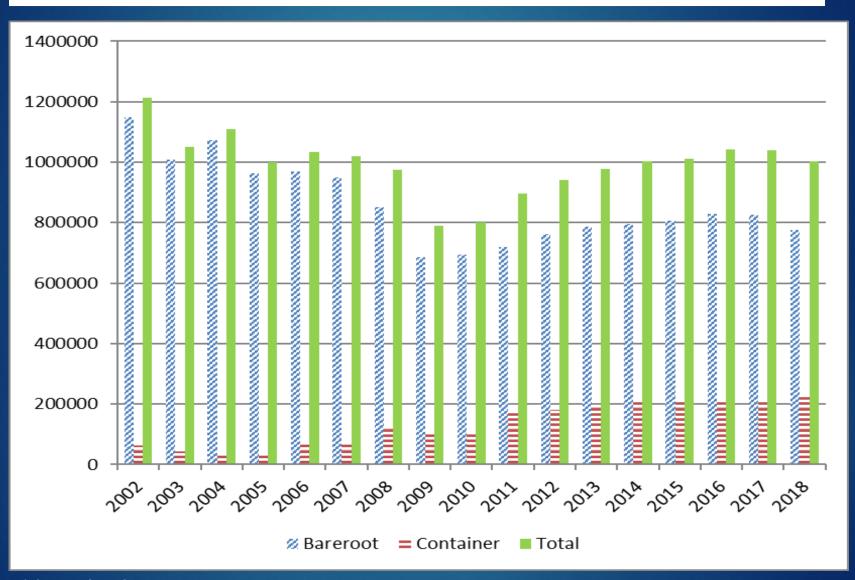
## **Conifer Production: 2018-2019**

|          | 2018-19 | 2017-18     | 2016-17 | 2015-16 | 2014-15 | 2013-14 |
|----------|---------|-------------|---------|---------|---------|---------|
| Lobiolly | 80%     | <b>79</b> % | 78%     | 77%     | 78%     | 77%     |
| Slash    | 09%     | 10%         | 11%     | 10%     | 10%     | 10%     |
| Longleaf | 09%     | 09%         | 09%     | 11%     | 11%     | 11%     |
| Total    | 98%     | 98%         | 98%     | 98%     | 99%     | 98%     |

#### **Production by Ownership Category: CONIFERS**

|           | 2018-20     | 019     | 2017-2018   |         |  |
|-----------|-------------|---------|-------------|---------|--|
|           | Production  | Percent | Production  | Percent |  |
| Bareroot  |             |         |             |         |  |
| State     | 77,094,000  | 10      | 86,622,000  | 10      |  |
| Private   | 509,567,000 | 64      | 522,628,000 | 62      |  |
| Industry  | 211,101,000 | 26      | 237,464,000 | 28      |  |
|           |             |         |             |         |  |
| Container |             |         |             |         |  |
| State     | 7,085,000   | 3       | 7,746,000   | 4       |  |
| Private   | 202,521,000 | 89      | 191,036,000 | 89      |  |
| Industry  | 17,221,000  | 08      | 17,022,000  | 08      |  |

#### **CONIFER Production by Stock Type: 2002-2018**



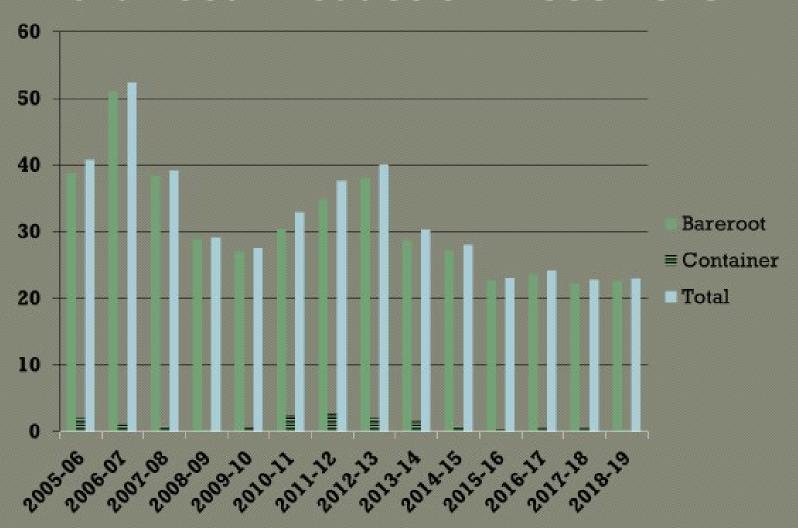
### **Hardwood Production**

|                    | 2018-2019  |                   | 2017-2018  |                   | 2016-2017  |                   |
|--------------------|------------|-------------------|------------|-------------------|------------|-------------------|
|                    | Numbers    | Percent<br>Change | Numbers    | Percent<br>Change | Numbers    | Percent<br>Change |
| Bareroot<br>Stock  | 22,679,000 | +1.0%             | 22,467,000 | -5.0%             | 23,596,000 | +3.8%             |
| Container<br>Stock | 335,000    | +3.7%             | 323,000    | -40%              | 535,000    | +64%              |
| Total<br>Hardwood  | 23,014,000 | +1.0%             | 22,790,000 | -6.0%             | 24,131,000 | +9.1              |

## **RESULTS - Hardwood production**

|               | 2018-19    | % Change<br>Previous yr | 2017-18    | % Change<br>Previous yr |
|---------------|------------|-------------------------|------------|-------------------------|
| Dogwood       | 269,000    | -34%                    | 407,000    | +16%                    |
| Eucalyptus    |            |                         |            |                         |
| Green Ash     | 318,000    | -42%                    | 552,000    | +4%                     |
| Oak           | 14,821,000 | +6%                     | 13,951,000 | -7%                     |
| Others        | 5,117,000  | +9%                     | 4,686,000  | -14%                    |
| Pecan         | 606,000    | -60%                    | 381,000    | -28%                    |
| Sweetgum      | 758,000    | -36%                    | 1,183,000  | +26%                    |
| Sycamore      | 413,000    | -52%                    | 868,000    | +57%                    |
| Walnut        | 103,000    | -9%                     | 114,000    | +44%                    |
| Yellow Poplar | 609,000    | -6%                     | 648,000    | +33%                    |
| Total         | 23,014,000 | +1%                     | 22,790,000 | -6%                     |

#### Hardwood Production: 2005-2018



#### **Production by Ownership Category: Hardwoods**

|           | 2018-2019  |         | 2017-2018  |         | 2016-2017  |         |
|-----------|------------|---------|------------|---------|------------|---------|
|           | Production | Percent | Production | Percent | Production | Percent |
| Bareroot  |            |         |            |         |            |         |
| State     | 10,357,000 | 46      | 8,302,000  | 37      | 9,078,000  | 38      |
| Private   | 12,321,000 | 54      | 14,132,000 | 62      | 11,770,000 | 50      |
| Industry  | 0          | 0       | 34,000     | 1       | 2,745,000  | 12      |
|           |            |         |            |         |            |         |
| Container |            |         |            |         |            |         |
| State     | 3,000      | 1       | 2,000      | 1       | 4,000      | 3       |
| Private   | 332,000    | 99      | 321,000    | 99      | 531,000    | 97      |
| Industry  | 0          | 0       | 0          | 0       | 0          | 0       |

#### **Production by Ownership Category: ALL SPECIES**

|          | 2018-2019     |     | 17-18<br>(MM) | 16-17<br>(MM) | 15-16<br>(MM) | 14-15<br>(MM) |         |
|----------|---------------|-----|---------------|---------------|---------------|---------------|---------|
| State    | 84,178,000    | 8%  |               | <b>9</b> %    | <b>9</b> %    | 8%            | 10%     |
| Private  | 712,083,000   | 69% |               | 67%           | 53%           | 59%           | 56%     |
| Industry | 228,322,000   | 22% |               | 24%           | 38%           | 33%           | 34%     |
| Total    | 1,024,583,000 |     |               | 1,062.5       | 1,069.9       | 1,034.5       | 1,031.3 |

## **Production by State - All species**

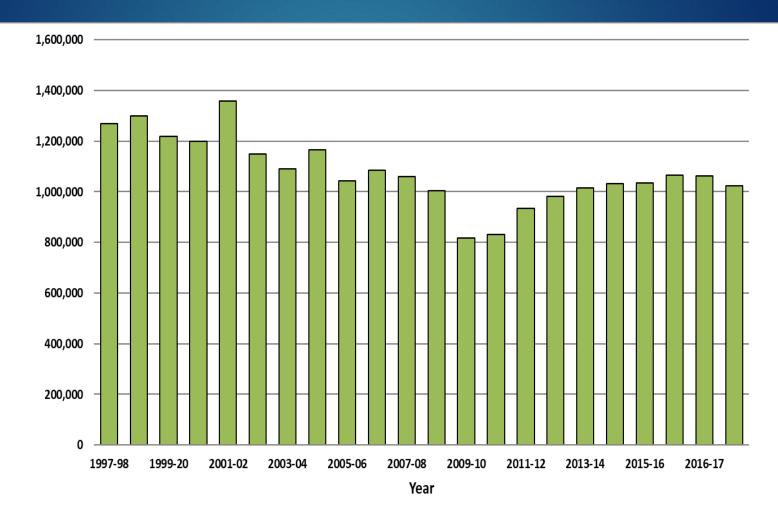
|             | 2018-2019<br>Production<br>(x 1000) | Rank | % Change<br>Previous<br>Year | 2017-2018<br>Production<br>(x 1000) | Rank | % Change<br>Previous<br>Year |
|-------------|-------------------------------------|------|------------------------------|-------------------------------------|------|------------------------------|
| Alabama     | 86,246                              | 5    | -8                           | 93,323                              | 4    | -12                          |
| Arkansas    | 111,917                             | 3    | 7                            | 104,535                             | 3    | 6                            |
| Florida     | 46,501                              | 8    | -22                          | 59,601                              | 8    | 1                            |
| Georgia     | 328,599                             | 1    | -1                           | 331,099                             | 1    | -6                           |
| Louisiana   | 50,559                              | 7    | 8                            | 46,599                              | 9    | 38                           |
| Mississippi | 85,804                              | 6    | -4                           | 89,019                              | 5    | 3                            |
| N. Carolina | 26,230                              | 10   | -62                          | 68,258                              | 7    | -8                           |
| Oklahoma    | 2,754                               | 12   | -28                          | 3,847                               | 12   | -21                          |
| S. Carolina | 161,454                             | 2    | 14                           | 142,146                             | 2    | 9                            |
| Tennessee   | 6,054                               | 11   | 11                           | 5,451                               | 11   | -7                           |
| Texas       | 89,328                              | 4    | 2                            | 87,498                              | 6    | 12                           |
| Virginia    | 29,137                              | 9    | -6                           | 31,140                              | 10   | -12                          |

## **AU Southern Forest Nursery Management Cooperative Members**

#### - All species & stock types

- □ Nursery Cooperative Members comprise 87% of all regional seedling production.
- □ Nursery Cooperative Members comprised 91% of bareroot seedlings and 72% of container seedlings.

## Seedling Production: 1997-2018



#### 2018-19 Seedling Production Survey

- Regional seedling production was down 39 million seedlings from last year, but still above the magical <u>1 BILLION</u> mark with 1,024,560,000 seedlings.
- 2. Seedling production in 2018-2019 was down 3.6% overall across the region from the 2017-2018 planting season.
- 3. Regional bareroot conifer production is down 6% and hardwood production increase slightly; 567 M from the previous planting season.
- 4. Georgia is the No. 1 seedling producer for conifer (324.0 MM) and Arkansas is the No. 1 hardwood (8.5 MM) seedling producer.
- 5. Nursery Cooperative members continue to lead seedling production in the region and have increased it's contribution to container stock production.

