

NATIONAL TURFGRASS EVALUATION PROGRAM

The National Turfgrass Evaluation Program (NTEP) is designed to develop and coordinate uniform evaluation trials of turfgrass varieties and promising selections in the United States and Canada. Test results can be used by national companies and plant breeders to determine the broad picture of the adaptation of a cultivar. Results can also be used to determine if a cultivar is well adapted to a local area or level of turf maintenance.

Briefly, the NTEP is a self-supporting, non-profit program, sponsored by the Beltsville Agricultural Research Center and the National Turfgrass Federation, Inc. Program policy is made by a policy committee consisting of one member from each of the four (4) Regional Turfgrass Research Committees in the United States, one member from the Lawn Seed Division of the American Seed Trade Association, one member from the United States Golf Association (USGA) Green Section, one member from the Golf Course Superintendents Assoc. of America (GCSAA), one member for the Turfgrass Producers International (TPI), one member from the Turfgrass Breeders Association and an executive director. The program does not make variety recommendations. However, the data from tests can be used by extension specialists and others for making recommendations.

The policy committee is responsible for determining program policy including, (1) requirements for submission of entries, (2) scheduling tests, (3) evaluation methods, (4) selecting standard or control test entries, (5) setting entry fees, (6) coordinating tests in their respective regions, (7) establishing guidelines for publication and data distribution and (8) scheduling committee meetings.

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CONTENTS

2016 National St. Augustinegrass Test - 2019 data

| | |
|--|----|
| LOCATIONS SUBMITTING DATA FOR 2019..... | 1 |
| NATIONAL ST. AUGUSTINEGRASS TEST, 2016 | |
| Entries and Sponsors..... | 2 |
| Table A - 2019 Locations, Site Descriptions and Management Practices in the 2016 National St. Augustinegrass Test..... | 3 |
| Table B - Locations and Data Collected in 2019..... | 4 |
| Table 1 - Mean Turfgrass Quality Ratings of St. Augustinegrass Cultivars Grown in Location Performance Index (LPI) Group 1..... | 5 |
| Table 2 - Mean Turfgrass Quality Ratings of St. Augustinegrass Cultivars Grown in Location Performance Index (LPI) Group 2..... | 6 |
| Table 3 - Mean Turfgrass Quality and Other Ratings of St. Augustinegrass Cultivars Grown Under Low Fertilizer at Ft. Lauderdale, FL | 7 |
| Table 4 - Mean Turfgrass Quality and Other Ratings of St. Augustinegrass Cultivars Grown Under Drought at College Station, TX..... | 9 |
| Table 5 - Genetic Color Ratings of St. Augustinegrass Cultivars..... | 10 |
| Table 6 - Spring Greenup Ratings of St. Augustinegrass Cultivars..... | 11 |
| Table 7 - Leaf Texture Ratings of St. Augustinegrass Cultivars..... | 12 |
| Table 8 - Spring Density Ratings of St. Augustinegrass Cultivars..... | 13 |
| Table 9 - Summer Density Ratings of St. Augustinegrass Cultivars..... | 14 |
| Table 10- Fall Density Ratings of St. Augustinegrass Cultivars..... | 15 |
| Table 11- Percent Living Ground Cover (Spring) Ratings of St. Augustinegrass Cultivars..... | 16 |
| Table 12- Percent Living Ground Cover (Summer) Ratings of St. Augustinegrass Cultivars..... | 17 |
| Table 13- Percent Living Ground Cover (Fall) Ratings of St. Augustinegrass Cultivars..... | 18 |
| Table 14- Percent Winter Kill Ratings of St. Augustinegrass Cultivars..... | 19 |
| Table 15- Gray Leaf Spot Ratings of St. Augustinegrass Cultivars..... | 20 |
| Table 16- Fall Color (September) Ratings of St. Augustinegrass Cultivars..... | 21 |
| Table 17- Fall Color (October) Ratings of St. Augustinegrass Cultivars..... | 22 |
| Table 18- Fall Color (December) Ratings of St. Augustinegrass Cultivars..... | 23 |

CONTINUED

Table 19- Seedhead Ratings of St. Augustinegrass Cultivars.....24

Table 20- Winter Kill Ratings of St. Augustinegrass Cultivars.....25

Table 21- Seedhead Ratings of St. Augustinegrass Cultivars Grown
At Dallas, TX.....26

Appendix Table- Summary of Turfgrass Quality Ratings of
St. Augustinegrass Cultivars.....27

A Guide to NTEP Turfgrass Ratings

Introduction

The quality and scientific merit of NTEP data is extremely important. However, the evaluation of turfgrass species and cultivars is a difficult and complex issue. Furthermore, turfgrass evaluation is generally a subjective process based on visual estimates of factors, like genetic color, stand density, leaf texture, uniformity and quality. These factors cannot be measured in the same way as other agricultural crops. Turfgrass quality is not a measure of yield or nutritive value. Turfgrass quality is a measure of aesthetics (i.e. density, uniformity, texture, smoothness, growth habit and color), and functional use. The most common way of assessing turfgrass quality is a visual rating system that is based on the turfgrass evaluator's judgement.

General Considerations

Most visual ratings collected on NTEP trials are based on a 1 to 9 rating scale. One is the poorest or lowest and 9 is the best or highest rating. However, a few characteristics, such as winter kill or percent living ground cover, are rated on a percentage basis, again by using the evaluator's judgement. Most disease ratings found in NTEP reports will use the 1-9 scale, 9=no disease except where the evaluator made a judgement of the percentage of disease in each plot. Percent disease data will be found in separate tables and will normally not be included with disease data using the 1-9 scale.

Turfgrass Quality

Turfgrass Quality is based on 9 being outstanding or ideal turf and 1 being poorest or dead. A rating of 6 or above is generally considered acceptable. A quality rating value of 9 is reserved for a perfect or ideal grass, but it also can reflect an absolutely outstanding treatment plot. The NTEP requires quality ratings on a monthly basis. Quality ratings take into account the aesthetic and functional aspects of the turf. Quality ratings are not based on color alone, but on a combination of color, density, uniformity, texture, and disease or environmental stress.

Turfgrass quality ratings are grouped and presented by region, management level, a particular stress (shade, traffic, etc.) and in some cases, by individual location (starting with 2001 data, data from each location will be posted separately as well on the NTEP web site, <http://www.ntep.org>). Also available now is a summary table (Appendix) in the back of this report. This summary table includes various statistical measures not previously compiled for NTEP reports. For an explanation of this table and these changes, please go to the NTEP web site at <http://www.ntep.org/pdf/grandmean.mem.pdf>.

Other Ratings

More detailed information on the ratings of specific characteristics can be found on the NTEP web site at <http://www.ntep.org/reports/ratings.htm>.

2016 NATIONAL ST. AUGUSTINEGRASS TEST

LOCATIONS SUBMITTING DATA FOR 2019

| <u>State</u> | <u>Location</u> | <u>Code</u> |
|----------------|---------------------------------|-------------|
| Alabama | Auburn | AL1 |
| Florida | Ft. Lauderdale | FL5 |
| Florida | Ft. Lauderdale (Low Fertilizer) | FL6 |
| Florida | Jay | FL3 |
| Mississippi | Mississippi State | MS1 |
| North Carolina | Raleigh | NC1 |
| Texas | Dallas | TX1 |
| Texas | College Station (Drought) | TX2 |

2016 St. Augustinegrass Test Entries and Sponsors

| Entry No | Name | Sponsor |
|----------|----------------------|------------------------------------|
| *1 | Floritam | Standard |
| *2 | Raleigh | Standard |
| *3 | Palmetto | Standard |
| 4 | XSA10403 | North Carolina University |
| 5 | XSA11168 | North Carolina University |
| 6 | FSA 1601 | University of Florida |
| *7 | CitraBlue (FSA 1602) | University of Florida |
| 8 | FSA 1603 | University of Florida |
| 9 | FSA 1604 | University of Florida |
| 10 | FSA 1605 | University of Florida |
| 11 | FSA 1606 | University of Florida |
| 12 | FSA 1607 | University of Florida |
| 13 | FSA 1608 | University of Florida |
| 14 | FSA 1609 | University of Florida |
| 15 | FSA 1610 | University of Florida |
| 16 | FSA 1611 | University of Florida |
| 17 | FSA 1612 | University of Florida |
| 18 | FSA 1613 | University of Florida |
| 19 | FSA 1614 | University of Florida |
| 20 | UGA/TX SA26 | The University of Georgia |
| 21 | DALSA 1623 | Texas A&M AgriLife Research-Dallas |
| 22 | DALSA 1316 | Texas A&M AgriLife Research-Dallas |
| 23 | DALSA 1323 | Texas A&M AgriLife Research-Dallas |
| 24 | DALSA 1404 | Texas A&M AgriLife Research-Dallas |
| 25 | DALSA 1501 | Texas A&M AgriLife Research-Dallas |
| 26 | DALSA 1502 | Texas A&M AgriLife Research-Dallas |
| 27 | DALSA 1618 | Texas A&M AgriLife Research-Dallas |

* Commercially Available in the USA in 2020 or in any other country

TABLE A.

2019 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2016 NATIONAL ST. AUGUSTINEGRASS TEST

| LOCATION | SOIL TEXTURE | SOIL PH | SOIL PHOSPHOROUS (LBS/ACRE) | SOIL POTASSIUM (LBS/ACRE) | NITROGEN (LBS/1000 SQ FT) | SUN OR SHADE | MOWING HEIGHT (IN) | IRRIGATION PRACTICED |
|----------|-----------------|------------|-----------------------------------|---------------------------------|------------------------------|--------------------|--------------------------|-------------------------|
| AL1 | - | - | - | - | - | - | - | - |
| FL3 | SAND | 5.6-6.0 | 151-270 | 0-150 | 2.1-3.0 | FULL SUN | 2.6-3.0 | TO PREVENT STRESS |
| FL5 | SAND | 6.6-7.0 | 61-150 | 0-150 | 4.1-5.0 | FULL SUN | 3.1-3.5 | TO PREVENT STRESS |
| FL6 | SAND | 6.6-7.0 | 61-150 | 0-150 | 2.1-3.0 | FULL SUN | 3.1-3.5 | TO PREVENT STRESS |
| MS1 | SANDY LOAM | 6.6-7.0 | 151-270 | 241-375 | 3.1-4.0 | FULL SUN | 3.1-3.5 | TO PREVENT STRESS |
| NC1 | SILTY CLAY LOAM | 6.1-6.5 | 61-150 | 0-150 | 1.1-2.0 | FULL SUN | 3.1-3.5 | TO PREVENT STRESS |
| TX1 | SILTY CLAY LOAM | 7.6-8.5 | 151-270 | 241-375 | 3.1-4.0 | FULL SUN | 3.1-3.5 | TO PREVENT STRESS |
| TX2 | - | 7.6-8.5 | 0-60 | 0-150 | 0.0-1.0 | FULL SUN | 2.6-3.0 | TO PREVENT DORMANCY |

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2019

| LOCATION | JANUARY QUALITY RATING | FEBRUARY QUALITY RATING | MARCH QUALITY RATING | APRIL QUALITY RATING | MAY QUALITY RATING | JUNE QUALITY RATING | JULY QUALITY RATING | AUGUST QUALITY RATING | SEPTEMBER QUALITY RATING | OCTOBER QUALITY RATING | NOVEMBER QUALITY RATING | DECEMBER QUALITY RATING | GENETIC COLOR | SPRING GREENUP | LEAF TEXTURE |
|----------|------------------------------|-------------------------------|----------------------------|----------------------------|--------------------------|---------------------------|---------------------------|-----------------------------|--------------------------------|------------------------------|-------------------------------|-------------------------------|------------------|-------------------|-----------------|
| AL1 | | | | | X | X | X | X | X | X | | | X | X | X |
| FL3 | | | | X | X | X | X | X | X | X | | | | X | |
| FL5 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| FL6 | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| MS1 | | | | X | X | X | X | X | X | X | | | X | X | X |
| NC1 | | | | X | X | X | X | X | X | X | | | | X | |
| TX1 | | | | | | X | X | X | X | X | | | X | X | X |
| TX2 | | | | | X | X | X | X | X | X | | | X | X | X |

TABLE B.
(CONT'D)

LOCATIONS AND DATA COLLECTED IN 2019

| LOCATION | SPRING DENSITY | SUMMER DENSITY | FALL DENSITY | PERCENT COVER SPRING | PERCENT COVER SUMMER | PERCENT COVER FALL | WINTER COLOR | PERCENT WINTER KILL | WILTING | GRAY LEAF SPOT | PERCENT SEPTEMBER | COLOR OCTOBER | RATINGS DECEMBER | SEEDHEAD RATINGS | WINTER KILL RATINGS |
|----------|-------------------|-------------------|-----------------|----------------------------|----------------------------|--------------------------|-----------------|---------------------------|---------|----------------------|----------------------|------------------|---------------------|---------------------|---------------------------|
| AL1 | | | | | | | | | | | | | | | X |
| FL3 | X | X | X | | | | | | | | X | X | | | |
| FL5 | X | | X | X | X | X | | | | X | X | | X | | |
| FL6 | X | | X | X | X | X | | | | X | X | | X | | |
| MS1 | | | | X | | | | | | | | | | | |
| NC1 | | | | X | X | | | | | X | | | | X | |
| TX1 | | X | | | | | | X | | | | | | X | X |
| TX2 | | | | | | | X | | X | | | | | | |

TABLE 1. TURFGRASS QUALITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2019 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

| NAME | # Entry | NC1 | AL1 | TX1 | MEAN |
|-----------------------|---------|------|------|------|------|
| DALSA 1618 | 27 | 6.1 | 7.4 | 7.6 | 7.0 |
| DALSA 1502 | 26 | 6.0 | 6.4 | 7.5 | 6.7 |
| FSA 1613 | 18 | 5.6 | 6.7 | 7.1 | 6.5 |
| DALSA 1501 | 25 | 5.8 | 6.3 | 7.3 | 6.5 |
| FSA 1608 | 13 | 5.6 | 6.5 | 7.1 | 6.4 |
| *PALMETTO | 3 | 5.5 | 6.7 | 7.0 | 6.4 |
| UGA/TX SA26 | 20 | 5.5 | 5.5 | 7.0 | 6.0 |
| *RALEIGH | 2 | 5.3 | 5.6 | 6.8 | 5.9 |
| *CITRABLUE (FSA 1602) | 7 | 4.8 | 6.1 | 6.4 | 5.8 |
| DALSA 1404 | 24 | 5.2 | 4.9 | 6.7 | 5.6 |
| FSA 1614 | 19 | 4.7 | 5.8 | 6.2 | 5.6 |
| DALSA 1623 | 21 | 5.5 | 4.2 | 6.9 | 5.6 |
| FSA 1605 | 10 | 4.3 | 5.2 | 5.8 | 5.1 |
| DALSA 1316 | 22 | 4.9 | 3.9 | 6.4 | 5.1 |
| FSA 1607 | 12 | 4.3 | 4.7 | 5.8 | 4.9 |
| *FLORATAM | 1 | 4.2 | 5.0 | 5.7 | 4.9 |
| FSA 1601 | 6 | 4.1 | 4.5 | 5.6 | 4.8 |
| FSA 1606 | 11 | 4.3 | 3.9 | 5.8 | 4.6 |
| FSA 1610 | 15 | 3.8 | 4.7 | 5.3 | 4.6 |
| FSA 1603 | 8 | 4.4 | 3.1 | 5.9 | 4.5 |
| DALSA 1323 | 23 | 4.7 | 1.9 | 6.2 | 4.3 |
| FSA 1604 | 9 | 3.6 | 3.9 | 5.1 | 4.2 |
| XSA11168 | 5 | 3.4 | 4.4 | 4.9 | 4.2 |
| FSA 1609 | 14 | 3.9 | 2.8 | 5.4 | 4.0 |
| FSA 1611 | 16 | 3.6 | 2.2 | 5.1 | 3.6 |
| XSA10403 | 4 | 3.3 | 2.7 | 4.8 | 3.6 |
| FSA 1612 | 17 | 3.4 | 1.6 | 4.8 | 3.3 |
| LSD VALUE | | 1.3 | 1.3 | 1.3 | 1.3 |
| C.V. (%) | | 17.0 | 17.0 | 12.9 | 15.4 |

*/ COMMERCIALY AVAILABLE IN THE USA IN 2020

**/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 2. TURFGRASS QUALITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2019 DATA

| TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/ | | | | |
|--|------|------|------|------|
| NAME | FL3 | FL5 | MS1 | MEAN |
| CITRABLUE (FSA 1602) | 7.0 | 8.3 | 6.2 | 7.1 |
| FSA 1606 | 6.6 | 7.7 | 5.9 | 6.7 |
| FSA 1610 | 6.4 | 8.0 | 5.6 | 6.7 |
| FSA 1613 | 6.6 | 7.1 | 5.9 | 6.5 |
| DALSA 1501 | 6.7 | 6.9 | 5.9 | 6.5 |
| PALMETTO | 6.5 | 6.9 | 5.7 | 6.4 |
| FSA 1601 | 6.2 | 7.2 | 5.4 | 6.3 |
| DALSA 1404 | 6.4 | 6.7 | 5.7 | 6.3 |
| FSA 1609 | 6.2 | 7.1 | 5.5 | 6.3 |
| FSA 1607 | 6.1 | 7.0 | 5.4 | 6.2 |
| DALSA 1623 | 6.4 | 6.3 | 5.7 | 6.1 |
| DALSA 1618 | 6.4 | 6.4 | 5.7 | 6.1 |
| FSA 1604 | 6.0 | 7.2 | 5.2 | 6.1 |
| FSA 1608 | 6.3 | 6.5 | 5.6 | 6.1 |
| DALSA 1502 | 6.4 | 6.3 | 5.7 | 6.1 |
| FSA 1605 | 6.0 | 6.9 | 5.3 | 6.1 |
| FSA 1614 | 6.1 | 6.8 | 5.3 | 6.1 |
| UGA/TX SA26 | 6.3 | 6.3 | 5.6 | 6.0 |
| RALEIGH | 6.1 | 6.4 | 5.4 | 6.0 |
| FSA 1603 | 6.1 | 6.5 | 5.4 | 6.0 |
| FLORATAM | 5.8 | 6.7 | 5.1 | 5.8 |
| DALSA 1316 | 6.0 | 6.1 | 5.3 | 5.8 |
| XSA11168 | 5.5 | 6.7 | 4.7 | 5.6 |
| XSA10403 | 5.5 | 6.4 | 4.7 | 5.6 |
| DALSA 1323 | 5.8 | 5.5 | 5.1 | 5.5 |
| FSA 1611 | 5.5 | 6.1 | 4.8 | 5.5 |
| FSA 1612 | 5.3 | 5.7 | 4.5 | 5.2 |
| LSD VALUE | 1.3 | 1.3 | 1.3 | 1.3 |
| C.V. (%) | 13.0 | 11.9 | 14.7 | 13.1 |

*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 3.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ST. AUGUSTINEGRASS CULTIVARS
GROWN UNDER LOW FERTILIZER AT FT. LAUDERDALE, FL 1/
2019 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

| NAME | GENETIC COLOR | SPRING GREENUP | LEAF TEXTURE | QUALITY RATINGS | | | | | | | | | | | | MEAN |
|----------------------|------------------|-------------------|-----------------|-----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| | | | | JAN | FEB | MAR | APR | MAY | JUN | JUL | AUG | SEP | OCT | NOV | DEC | |
| CITRABLUE (FSA 1602) | 8.3 | 8.3 | 3.3 | 9.0 | 8.7 | 9.0 | 9.0 | 8.7 | 9.0 | 8.7 | 8.7 | 7.7 | 7.7 | 7.7 | 7.7 | 8.4 |
| FSA 1606 | 8.0 | 7.3 | 3.0 | 8.7 | 8.3 | 8.0 | 8.0 | 7.3 | 7.3 | 7.3 | 7.3 | 7.7 | 7.7 | 7.7 | 7.0 | 7.7 |
| FSA 1610 | 8.7 | 8.7 | 4.0 | 8.0 | 8.0 | 7.7 | 7.7 | 6.7 | 6.7 | 5.3 | 5.3 | 8.0 | 8.0 | 8.0 | 7.7 | 7.3 |
| PALMETTO | 8.0 | 6.7 | 3.3 | 7.0 | 7.0 | 7.0 | 7.0 | 6.7 | 6.7 | 6.7 | 6.7 | 7.0 | 7.0 | 7.0 | 6.7 | 6.9 |
| FSA 1613 | 7.7 | 7.3 | 2.7 | 7.3 | 7.3 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.8 |
| FSA 1607 | 7.0 | 6.7 | 3.0 | 7.7 | 7.3 | 7.7 | 7.7 | 6.7 | 6.7 | 6.3 | 6.3 | 6.3 | 6.3 | 6.3 | 5.3 | 6.7 |
| FSA 1605 | 9.0 | 7.3 | 3.0 | 7.7 | 7.3 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.7 | 6.0 | 6.3 | 6.0 | 5.7 | 6.6 |
| FLORATAM | 7.7 | 6.7 | 2.7 | 7.7 | 7.7 | 6.3 | 6.0 | 6.0 | 6.3 | 6.0 | 6.0 | 6.7 | 6.7 | 6.7 | 6.0 | 6.5 |
| FSA 1609 | 7.0 | 7.0 | 3.3 | 8.0 | 7.7 | 7.0 | 7.0 | 6.3 | 6.3 | 6.0 | 5.7 | 6.0 | 6.0 | 6.0 | 5.7 | 6.5 |
| FSA 1601 | 9.0 | 8.7 | 3.7 | 7.7 | 7.3 | 6.3 | 6.3 | 7.0 | 7.0 | 5.7 | 5.3 | 6.3 | 6.3 | 6.3 | 5.3 | 6.4 |
| FSA 1604 | 7.0 | 7.3 | 3.7 | 7.3 | 7.3 | 6.7 | 6.7 | 6.3 | 6.3 | 6.3 | 6.0 | 5.7 | 6.0 | 5.7 | 5.7 | 6.3 |
| RALEIGH | 8.0 | 6.3 | 3.0 | 6.7 | 6.7 | 6.3 | 6.0 | 6.7 | 6.7 | 6.0 | 6.0 | 6.0 | 6.3 | 6.0 | 5.3 | 6.2 |
| DALSA 1623 | 7.0 | 8.3 | 2.3 | 7.3 | 7.3 | 6.7 | 6.3 | 6.3 | 6.3 | 6.0 | 6.0 | 5.3 | 5.3 | 5.3 | 5.0 | 6.1 |
| FSA 1614 | 8.3 | 7.3 | 2.7 | 6.7 | 6.7 | 6.0 | 6.0 | 6.7 | 6.7 | 5.7 | 5.3 | 6.0 | 6.3 | 6.0 | 5.3 | 6.1 |
| DALSA 1501 | 6.7 | 7.3 | 2.0 | 7.0 | 7.0 | 6.7 | 6.7 | 6.0 | 6.0 | 6.0 | 6.0 | 5.3 | 5.3 | 5.3 | 5.0 | 6.0 |
| FSA 1608 | 7.3 | 6.3 | 3.7 | 6.7 | 6.7 | 6.7 | 6.3 | 6.0 | 5.7 | 4.7 | 4.7 | 6.3 | 6.3 | 6.3 | 6.0 | 6.0 |
| UGA/TX SA26 | 7.3 | 6.7 | 4.0 | 7.0 | 7.0 | 6.7 | 6.7 | 6.0 | 6.0 | 5.3 | 5.3 | 5.7 | 5.7 | 5.7 | 5.3 | 6.0 |
| XSA11168 | 7.0 | 6.7 | 3.0 | 7.0 | 7.0 | 6.3 | 6.3 | 5.7 | 5.3 | 5.3 | 5.3 | 6.0 | 6.0 | 6.0 | 6.0 | 6.0 |
| DALSA 1404 | 6.3 | 8.3 | 2.3 | 7.0 | 7.0 | 7.3 | 7.3 | 5.3 | 5.3 | 5.3 | 5.0 | 5.3 | 5.7 | 5.3 | 4.7 | 5.9 |
| DALSA 1618 | 7.7 | 8.3 | 2.3 | 5.3 | 5.3 | 6.3 | 6.3 | 6.3 | 6.3 | 5.7 | 5.7 | 5.3 | 5.7 | 5.3 | 4.7 | 5.7 |
| FSA 1611 | 7.3 | 6.0 | 2.7 | 7.0 | 7.0 | 6.0 | 6.0 | 5.0 | 5.0 | 5.0 | 4.7 | 6.0 | 6.0 | 6.0 | 5.0 | 5.7 |
| XSA10403 | 7.0 | 7.3 | 3.0 | 6.3 | 6.3 | 6.3 | 6.0 | 6.0 | 5.7 | 5.7 | 5.3 | 5.3 | 5.3 | 5.3 | 4.7 | 5.7 |
| FSA 1612 | 6.7 | 7.0 | 2.0 | 6.3 | 6.7 | 6.0 | 6.0 | 5.7 | 5.0 | 4.7 | 4.3 | 5.3 | 5.7 | 5.3 | 4.7 | 5.5 |
| FSA 1603 | 7.7 | 8.0 | 3.7 | 6.0 | 6.0 | 5.3 | 5.3 | 5.7 | 5.0 | 5.0 | 4.7 | 5.7 | 5.7 | 5.7 | 5.3 | 5.4 |
| DALSA 1502 | 7.7 | 7.0 | 2.0 | 5.7 | 5.7 | 5.7 | 5.7 | 5.3 | 5.3 | 5.0 | 5.0 | 5.0 | 5.3 | 5.0 | 4.7 | 5.3 |
| DALSA 1316 | 6.7 | 6.7 | 2.0 | 6.0 | 6.0 | 5.3 | 5.3 | 5.3 | 5.3 | 4.7 | 4.7 | 5.0 | 5.0 | 5.0 | 4.3 | 5.2 |
| DALSA 1323 | 6.7 | 6.3 | 2.3 | 4.7 | 5.0 | 4.7 | 4.3 | 5.3 | 5.3 | 5.0 | 4.7 | 5.0 | 5.3 | 5.0 | 5.0 | 4.9 |
| LSD VALUE | 0.8 | 1.0 | 0.7 | 2.4 | 2.5 | 2.1 | 2.3 | 1.1 | 1.2 | 1.2 | 1.1 | 2.3 | 1.9 | 2.3 | 2.5 | 1.2 |
| C.V. (%) | 6.9 | 8.5 | 15.0 | 16.3 | 15.8 | 15.7 | 17.1 | 10.7 | 11.5 | 12.4 | 12.5 | 17.4 | 15.0 | 17.4 | 20.2 | 11.2 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 3.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ST. AUGUSTINEGRASS CULTIVARS
GROWN UNDER LOW FERTILIZER AT FT. LAUDERDALE, FL 1/
2019 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

| NAME | DENSITY RATINGS | | PERCENT GROUND COVER | | | GRAY | COLOR RATINGS | |
|----------------------|-----------------|------|----------------------|--------|------|-----------|---------------|----------|
| | SPRING | FALL | SPRING | SUMMER | FALL | LEAF SPOT | SEPTEMBER | DECEMBER |
| CITRABLUE (FSA 1602) | 8.3 | 8.0 | 99.0 | 99.0 | 99.0 | 8.7 | 9.0 | 7.7 |
| FSA 1606 | 8.0 | 8.0 | 99.0 | 99.0 | 99.0 | 9.0 | 7.3 | 7.7 |
| FSA 1610 | 8.0 | 8.0 | 99.0 | 99.0 | 97.7 | 8.7 | 6.7 | 8.0 |
| PALMETTO | 7.3 | 7.3 | 99.0 | 99.0 | 94.3 | 8.0 | 6.7 | 7.0 |
| FSA 1613 | 6.7 | 6.7 | 99.0 | 99.0 | 97.7 | 8.7 | 6.7 | 6.7 |
| FSA 1607 | 8.0 | 8.0 | 99.0 | 99.0 | 97.7 | 8.7 | 6.7 | 6.3 |
| FSA 1605 | 7.0 | 7.0 | 99.0 | 99.0 | 74.7 | 6.0 | 6.7 | 6.0 |
| FLORATAM | 6.0 | 6.0 | 99.0 | 99.0 | 98.7 | 8.7 | 6.3 | 6.7 |
| FSA 1609 | 7.3 | 7.3 | 99.0 | 99.0 | 99.0 | 8.7 | 6.3 | 6.0 |
| FSA 1601 | 7.0 | 7.3 | 96.0 | 96.0 | 84.7 | 7.3 | 7.0 | 6.3 |
| FSA 1604 | 6.7 | 6.7 | 99.0 | 99.0 | 93.0 | 7.3 | 6.3 | 5.7 |
| RALEIGH | 6.0 | 6.0 | 94.3 | 94.3 | 78.0 | 6.3 | 6.7 | 6.0 |
| DALSA 1623 | 6.3 | 6.3 | 96.0 | 96.0 | 82.7 | 7.0 | 6.3 | 5.3 |
| FSA 1614 | 6.0 | 6.0 | 96.0 | 99.0 | 90.0 | 7.3 | 6.7 | 6.0 |
| DALSA 1501 | 7.0 | 7.0 | 99.0 | 99.0 | 88.3 | 7.0 | 6.0 | 5.3 |
| FSA 1608 | 6.3 | 6.3 | 99.0 | 99.0 | 93.0 | 7.7 | 5.7 | 6.3 |
| UGA/TX SA26 | 6.7 | 6.7 | 97.7 | 99.0 | 96.0 | 7.7 | 6.0 | 5.7 |
| XSA11168 | 8.0 | 8.0 | 99.0 | 99.0 | 97.7 | 8.7 | 5.3 | 6.0 |
| DALSA 1404 | 7.3 | 7.3 | 99.0 | 99.0 | 86.3 | 6.7 | 5.3 | 5.3 |
| DALSA 1618 | 6.3 | 6.3 | 99.0 | 99.0 | 88.0 | 7.0 | 6.3 | 5.3 |
| FSA 1611 | 6.0 | 6.3 | 99.0 | 99.0 | 99.0 | 8.7 | 5.0 | 6.0 |
| XSA10403 | 6.7 | 6.7 | 99.0 | 99.0 | 81.7 | 5.3 | 5.7 | 5.3 |
| FSA 1612 | 5.7 | 6.0 | 99.0 | 99.0 | 89.3 | 7.3 | 5.0 | 5.3 |
| FSA 1603 | 7.0 | 7.0 | 94.3 | 96.0 | 88.3 | 6.0 | 5.0 | 5.7 |
| DALSA 1502 | 6.0 | 6.0 | 91.3 | 99.0 | 89.7 | 7.3 | 5.3 | 4.7 |
| DALSA 1316 | 5.3 | 5.3 | 91.0 | 92.7 | 74.7 | 5.0 | 5.3 | 4.7 |
| DALSA 1323 | 5.0 | 5.0 | 89.7 | 93.0 | 90.0 | 6.0 | 5.3 | 5.0 |
| LSD VALUE | 1.7 | 1.5 | 13.1 | 10.2 | 45.8 | 5.7 | 1.2 | 2.4 |
| C.V. (%) | 13.3 | 12.1 | 4.6 | 3.4 | 15.1 | 25.4 | 11.5 | 18.3 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 4.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ST. AUGUSTINEGRASS CULTIVARS
GROWN UNDER DROUGHT/DRY DOWN AT COLLEGE STATION, TX 1/
2019 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

| NAME | QUALITY RATINGS | | | | | | | | | | | | MEAN |
|----------------------|------------------|-------------------|-----------------|-----------------|---------|------|------|------|------|------|------|------|------|
| | GENETIC COLOR | SPRING GREENUP | LEAF TEXTURE | WINTER COLOR | WILTING | MAY | JUN | JUL | AUG | SEP | OCT | | |
| DALSA 1502 | 6.7 | 5.7 | 5.3 | 5.0 | 6.3 | 6.0 | 6.7 | 6.7 | 6.7 | 7.3 | 6.3 | 6.6 | |
| DALSA 1618 | 7.0 | 5.7 | 5.7 | 4.7 | 6.3 | 6.0 | 6.7 | 7.0 | 7.0 | 7.3 | 5.7 | 6.6 | |
| DALSA 1501 | 5.7 | 5.7 | 6.0 | 5.0 | 6.0 | 6.3 | 6.7 | 6.3 | 6.3 | 6.7 | 6.0 | 6.4 | |
| DALSA 1404 | 5.7 | 6.0 | 5.3 | 4.7 | 5.3 | 6.0 | 6.3 | 6.3 | 6.7 | 6.3 | 6.3 | 6.3 | |
| DALSA 1623 | 6.7 | 6.0 | 6.0 | 4.0 | 6.3 | 5.7 | 6.0 | 6.3 | 6.7 | 7.3 | 6.0 | 6.3 | |
| FSA 1609 | 7.0 | 6.0 | 6.0 | 4.0 | 4.0 | 5.0 | 6.0 | 6.0 | 6.0 | 7.0 | 6.0 | 6.0 | |
| FSA 1613 | 6.0 | 5.0 | 5.3 | 3.7 | 5.3 | 5.3 | 5.3 | 5.7 | 6.0 | 7.0 | 6.3 | 5.9 | |
| UGA/TX SA26 | 6.3 | 6.0 | 5.3 | 3.7 | 4.7 | 5.7 | 5.7 | 6.0 | 6.3 | 6.3 | 5.7 | 5.9 | |
| PALMETTO | 6.0 | 5.7 | 6.0 | 3.7 | 4.3 | 5.3 | 5.7 | 6.0 | 5.7 | 6.0 | 6.0 | 5.8 | |
| DALSA 1316 | 6.0 | 5.3 | 5.3 | 4.7 | 6.3 | 5.7 | 5.3 | 6.0 | 5.3 | 6.0 | 5.0 | 5.6 | |
| FSA 1606 | 6.7 | 5.0 | 6.0 | 4.3 | 4.0 | 4.7 | 4.7 | 5.7 | 5.7 | 7.0 | 6.0 | 5.6 | |
| FSA 1604 | 7.0 | 5.3 | 6.0 | 4.7 | 5.3 | 4.7 | 5.7 | 5.7 | 5.3 | 6.0 | 5.7 | 5.5 | |
| FSA 1608 | 5.7 | 5.3 | 5.7 | 4.3 | 4.0 | 5.3 | 5.0 | 5.7 | 5.3 | 5.7 | 5.0 | 5.3 | |
| FSA 1610 | 6.7 | 5.7 | 5.7 | 4.0 | 5.3 | 4.7 | 5.0 | 5.7 | 5.7 | 5.7 | 5.3 | 5.3 | |
| FSA 1607 | 7.0 | 5.7 | 6.3 | 4.0 | 5.3 | 5.0 | 5.7 | 5.3 | 5.0 | 5.0 | 5.0 | 5.2 | |
| RALEIGH | 6.0 | 5.3 | 5.3 | 3.7 | 4.0 | 5.0 | 4.3 | 5.3 | 5.3 | 5.7 | 5.3 | 5.2 | |
| XSA11168 | 6.0 | 4.0 | 5.3 | 5.0 | 4.0 | 4.7 | 5.3 | 5.0 | 5.0 | 6.0 | 5.3 | 5.2 | |
| FSA 1605 | 6.3 | 4.7 | 5.3 | 4.0 | 5.0 | 5.0 | 4.3 | 5.3 | 5.0 | 5.3 | 5.3 | 5.1 | |
| FLORATAM | 6.7 | 4.0 | 5.3 | 5.5 | 5.5 | 3.5 | 3.5 | 5.0 | 5.5 | 6.5 | 6.0 | 5.0 | |
| FSA 1614 | 6.7 | 4.3 | 5.0 | 4.7 | 4.3 | 4.7 | 4.7 | 5.7 | 4.7 | 5.0 | 5.3 | 5.0 | |
| CITRABLUE (FSA 1602) | 6.3 | 4.7 | 6.0 | 4.7 | 4.7 | 4.7 | 4.7 | 5.0 | 5.0 | 4.7 | 5.0 | 4.8 | |
| DALSA 1323 | 5.0 | 5.0 | 6.0 | 4.0 | 4.5 | 4.5 | 4.5 | 5.0 | 4.0 | 4.5 | 5.0 | 4.6 | |
| FSA 1601 | 7.3 | 4.3 | 7.0 | 4.0 | 5.3 | 3.7 | 4.3 | 4.0 | 4.3 | 5.0 | 4.7 | 4.3 | |
| FSA 1603 | 6.5 | 4.0 | 5.5 | 3.5 | 4.0 | 3.5 | 4.0 | 4.5 | 3.5 | 4.5 | 5.0 | 4.2 | |
| FSA 1611 | 6.0 | 3.0 | 5.7 | 4.3 | 4.7 | 4.0 | 4.0 | 4.3 | 3.0 | 5.0 | 4.7 | 4.2 | |
| FSA 1612 | 6.0 | 3.3 | 5.0 | 4.7 | 4.0 | 3.7 | 3.7 | 4.3 | 4.0 | 3.7 | 4.0 | 3.9 | |
| XSA10403 | 5.3 | 3.3 | 5.7 | 4.0 | 4.3 | 3.0 | 3.7 | 4.0 | 2.3 | 4.3 | 4.0 | 3.6 | |
| LSD VALUE | 1.3 | 1.4 | 0.9 | 1.6 | 1.3 | 1.3 | 2.1 | 1.8 | 2.4 | 2.9 | 2.4 | 1.5 | |
| C.V. (%) | 9.9 | 15.9 | 8.2 | 14.8 | 14.2 | 15.0 | 20.1 | 15.6 | 22.2 | 21.2 | 16.4 | 15.0 | |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.
STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 5. GENETIC COLOR RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/

| NAME | AL1 | FL5 | MS1 | TX1 | MEAN |
|----------------------|------|-----|-----|-----|------|
| FSA 1601 | 8.0 | 9.0 | 7.0 | 7.0 | 7.8 |
| CITRABLUE (FSA 1602) | 7.3 | 8.3 | 6.0 | 8.0 | 7.4 |
| DALSA 1618 | 6.7 | 7.7 | 5.7 | 7.0 | 6.8 |
| FSA 1613 | 7.7 | 7.7 | 6.0 | 5.3 | 6.7 |
| FSA 1603 | 5.7 | 7.7 | 6.7 | 6.3 | 6.6 |
| FLORATAM | 7.0 | 7.7 | 5.3 | 6.0 | 6.5 |
| FSA 1605 | 4.0 | 9.0 | 6.0 | 6.7 | 6.4 |
| FSA 1610 | 4.7 | 8.7 | 6.0 | 6.3 | 6.4 |
| DALSA 1501 | 6.0 | 7.0 | 6.0 | 6.3 | 6.3 |
| DALSA 1502 | 6.3 | 7.7 | 5.3 | 6.0 | 6.3 |
| FSA 1609 | 5.0 | 7.0 | 6.0 | 7.0 | 6.3 |
| FSA 1607 | 5.0 | 7.0 | 6.0 | 6.7 | 6.2 |
| FSA 1604 | 5.3 | 7.0 | 6.0 | 6.3 | 6.2 |
| FSA 1606 | 4.7 | 8.0 | 6.0 | 5.7 | 6.1 |
| DALSA 1623 | 6.0 | 7.0 | 5.0 | 6.3 | 6.1 |
| FSA 1614 | 4.7 | 8.3 | 5.3 | 6.0 | 6.1 |
| PALMETTO | 4.3 | 8.0 | 6.0 | 6.0 | 6.1 |
| RALEIGH | 3.7 | 8.0 | 5.7 | 6.7 | 6.0 |
| FSA 1608 | 4.7 | 7.3 | 6.0 | 5.7 | 5.9 |
| FSA 1611 | 6.7 | 7.3 | 4.7 | 5.0 | 5.9 |
| DALSA 1404 | 6.3 | 6.3 | 5.0 | 5.7 | 5.8 |
| FSA 1612 | 7.0 | 6.7 | 4.3 | 5.3 | 5.8 |
| DALSA 1323 | 4.3 | 6.7 | 5.3 | 6.3 | 5.7 |
| UGA/TX SA26 | 4.3 | 7.3 | 6.0 | 5.0 | 5.7 |
| DALSA 1316 | 7.0 | 6.7 | 3.7 | 5.0 | 5.6 |
| XSA10403 | 5.0 | 7.0 | 4.0 | 4.7 | 5.2 |
| XSA11168 | 4.7 | 7.0 | 4.0 | 4.3 | 5.0 |
| LSD VALUE | 2.0 | 0.8 | 0.6 | 0.9 | 0.6 |
| C.V. (%) | 22.6 | 6.8 | 7.3 | 9.8 | 12.5 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 6. SPRING GREENUP RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

| NAME | SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/ | | | | | | MEAN |
|----------------------|---|------|-----|------|------|------|------|
| | AL1 | FL3 | FL5 | MS1 | NC1 | TX1 | |
| DALSA 1502 | 6.3 | 4.3 | 7.0 | 5.0 | 5.0 | 3.7 | 5.2 |
| UGA/TX SA26 | 6.7 | 3.7 | 7.3 | 4.7 | 5.3 | 3.7 | 5.2 |
| DALSA 1618 | 6.0 | 4.0 | 8.3 | 4.7 | 4.7 | 3.3 | 5.2 |
| PALMETTO | 6.7 | 4.0 | 7.0 | 5.0 | 4.3 | 3.3 | 5.1 |
| FSA 1608 | 6.0 | 4.0 | 7.0 | 5.0 | 4.0 | 3.0 | 4.8 |
| RALEIGH | 7.0 | 2.3 | 6.7 | 4.7 | 5.3 | 3.0 | 4.8 |
| DALSA 1501 | 5.3 | 4.3 | 7.3 | 4.3 | 4.0 | 3.0 | 4.7 |
| DALSA 1623 | 3.7 | 4.0 | 8.3 | 4.7 | 4.0 | 3.3 | 4.7 |
| FSA 1613 | 5.0 | 4.3 | 7.3 | 4.7 | 4.0 | 2.0 | 4.6 |
| FSA 1601 | 4.7 | 4.3 | 8.7 | 4.7 | 2.0 | 2.3 | 4.4 |
| CITRABLUE (FSA 1602) | 5.3 | 3.7 | 8.3 | 3.7 | 3.3 | 2.0 | 4.4 |
| FSA 1607 | 3.7 | 4.7 | 7.0 | 4.0 | 3.7 | 3.0 | 4.3 |
| DALSA 1323 | 2.0 | 4.0 | 7.0 | 5.0 | 4.0 | 3.7 | 4.3 |
| FSA 1603 | 3.7 | 3.7 | 8.0 | 4.7 | 3.7 | 2.0 | 4.3 |
| DALSA 1316 | 3.0 | 4.7 | 7.0 | 4.7 | 3.0 | 3.0 | 4.2 |
| FSA 1610 | 3.7 | 4.0 | 8.7 | 4.0 | 2.0 | 2.7 | 4.2 |
| DALSA 1404 | 2.7 | 4.0 | 8.3 | 4.3 | 2.7 | 2.7 | 4.1 |
| FSA 1614 | 4.0 | 3.7 | 7.3 | 4.0 | 2.7 | 2.3 | 4.0 |
| FSA 1605 | 3.0 | 3.7 | 7.3 | 3.7 | 2.7 | 2.0 | 3.7 |
| FSA 1606 | 2.0 | 4.0 | 7.3 | 3.7 | 2.7 | 1.7 | 3.6 |
| FSA 1604 | 2.7 | 3.0 | 7.7 | 3.7 | 1.7 | 2.0 | 3.4 |
| FSA 1609 | 2.0 | 3.7 | 7.0 | 3.7 | 2.0 | 2.3 | 3.4 |
| FLORATAM | 3.0 | 2.0 | 7.0 | 3.3 | 2.0 | 2.0 | 3.2 |
| XSA10403 | 1.7 | 3.3 | 7.3 | 3.0 | 1.3 | 1.3 | 3.0 |
| XSA11168 | 2.3 | 3.0 | 7.0 | 2.7 | 1.3 | 1.0 | 2.9 |
| FSA 1611 | 1.3 | 2.0 | 7.0 | 3.3 | 1.7 | 1.0 | 2.7 |
| FSA 1612 | 1.3 | 2.3 | 7.0 | 2.7 | 1.7 | 1.0 | 2.7 |
| LSD VALUE | 2.2 | 1.2 | 0.8 | 1.0 | 1.4 | 0.8 | 0.5 |
| C.V. (%) | 35.9 | 19.7 | 6.3 | 15.0 | 27.0 | 21.2 | 20.0 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 7. LEAF TEXTURE RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/

| NAME | AL1 | FL5 | MS1 | TX1 | MEAN |
|----------------------|------|------|------|-----|------|
| FSA 1603 | 7.3 | 3.7 | 6.0 | 6.7 | 5.9 |
| FSA 1610 | 7.7 | 4.0 | 5.3 | 6.3 | 5.8 |
| FSA 1601 | 7.3 | 3.7 | 5.0 | 6.0 | 5.5 |
| XSA10403 | 7.7 | 3.0 | 5.0 | 6.3 | 5.5 |
| FSA 1605 | 6.7 | 3.0 | 5.0 | 6.7 | 5.3 |
| FSA 1609 | 6.0 | 3.3 | 5.0 | 6.7 | 5.3 |
| XSA11168 | 6.3 | 3.0 | 4.7 | 6.0 | 5.0 |
| FSA 1608 | 6.0 | 3.7 | 4.0 | 5.7 | 4.8 |
| FSA 1607 | 5.0 | 3.0 | 5.0 | 6.0 | 4.8 |
| PALMETTO | 6.0 | 3.3 | 4.0 | 5.7 | 4.8 |
| FSA 1604 | 3.3 | 3.7 | 4.7 | 6.7 | 4.6 |
| UGA/TX SA26 | 5.0 | 4.0 | 4.3 | 5.0 | 4.6 |
| RALEIGH | 4.7 | 3.0 | 4.0 | 5.7 | 4.3 |
| FSA 1606 | 3.7 | 3.0 | 4.3 | 6.0 | 4.3 |
| FSA 1611 | 4.0 | 2.7 | 3.3 | 5.3 | 3.8 |
| FSA 1613 | 2.7 | 2.7 | 4.3 | 5.7 | 3.8 |
| DALSA 1323 | 4.3 | 2.3 | 3.7 | 4.7 | 3.8 |
| DALSA 1501 | 3.3 | 2.0 | 4.3 | 5.0 | 3.7 |
| CITRABLUE (FSA 1602) | 1.3 | 3.3 | 3.0 | 5.7 | 3.3 |
| DALSA 1404 | 2.0 | 2.3 | 3.7 | 5.0 | 3.3 |
| DALSA 1618 | 1.3 | 2.3 | 4.0 | 5.0 | 3.2 |
| FSA 1612 | 3.0 | 2.0 | 2.7 | 5.0 | 3.2 |
| DALSA 1316 | 2.7 | 2.0 | 3.7 | 4.3 | 3.2 |
| FLORATAM | 2.7 | 2.7 | 2.3 | 4.7 | 3.1 |
| DALSA 1502 | 1.7 | 2.0 | 4.0 | 4.3 | 3.0 |
| DALSA 1623 | 2.0 | 2.3 | 3.3 | 4.3 | 3.0 |
| FSA 1614 | 1.0 | 2.7 | 2.3 | 4.7 | 2.7 |
| LSD VALUE | 1.2 | 0.7 | 0.8 | 0.8 | 0.4 |
| C.V. (%) | 17.9 | 14.8 | 11.5 | 9.2 | 13.3 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 8. SPRING DENSITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/

| NAME | FL3 | FL5 | MEAN |
|---------------------|-----|------|------|
| CITRABLU (FSA 1602) | 7.3 | 8.7 | 8.0 |
| DALSA 1404 | 6.7 | 7.7 | 7.2 |
| DALSA 1501 | 6.7 | 7.7 | 7.2 |
| FSA 1607 | 6.0 | 8.3 | 7.2 |
| FSA 1609 | 6.3 | 8.0 | 7.2 |
| FSA 1610 | 6.3 | 8.0 | 7.2 |
| DALSA 1618 | 7.0 | 7.0 | 7.0 |
| FSA 1606 | 5.7 | 8.3 | 7.0 |
| FSA 1613 | 6.3 | 7.7 | 7.0 |
| PALMETTO | 6.3 | 7.7 | 7.0 |
| DALSA 1623 | 7.0 | 6.7 | 6.8 |
| FSA 1604 | 6.3 | 7.3 | 6.8 |
| FSA 1601 | 5.7 | 7.7 | 6.7 |
| XSA11168 | 5.3 | 8.0 | 6.7 |
| FSA 1603 | 5.7 | 7.3 | 6.5 |
| FSA 1605 | 5.7 | 7.3 | 6.5 |
| FSA 1608 | 6.0 | 7.0 | 6.5 |
| FSA 1614 | 6.3 | 6.7 | 6.5 |
| UGA/TX SA26 | 5.7 | 7.3 | 6.5 |
| XSA10403 | 6.0 | 7.0 | 6.5 |
| DALSA 1502 | 6.0 | 6.7 | 6.3 |
| FLORATAM | 5.7 | 7.0 | 6.3 |
| RALEIGH | 5.7 | 7.0 | 6.3 |
| DALSA 1316 | 6.3 | 6.0 | 6.2 |
| DALSA 1323 | 6.0 | 5.7 | 5.8 |
| FSA 1611 | 5.0 | 6.7 | 5.8 |
| FSA 1612 | 4.3 | 6.7 | 5.5 |
| LSD VALUE | 0.9 | 1.7 | 1.0 |
| C.V. (%) | 9.7 | 14.4 | 12.8 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 9. SUMMER DENSITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

| DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/ | | | | |
|---|------|------|------|--|
| NAME | FL3 | TX1 | MEAN | |
| DALSA 1502 | 7.3 | 8.3 | 7.8 | |
| DALSA 1323 | 6.7 | 7.7 | 7.2 | |
| DALSA 1623 | 6.7 | 7.7 | 7.2 | |
| DALSA 1501 | 7.3 | 6.7 | 7.0 | |
| DALSA 1618 | 7.0 | 7.0 | 7.0 | |
| DALSA 1404 | 7.0 | 6.7 | 6.8 | |
| FSA 1608 | 6.7 | 7.0 | 6.8 | |
| DALSA 1316 | 6.3 | 7.0 | 6.7 | |
| FSA 1607 | 7.0 | 6.0 | 6.5 | |
| FSA 1614 | 6.7 | 6.3 | 6.5 | |
| CITRABLUE (FSA 1602) | 7.7 | 5.0 | 6.3 | |
| FSA 1609 | 6.7 | 6.0 | 6.3 | |
| FSA 1610 | 7.0 | 5.7 | 6.3 | |
| FSA 1613 | 6.7 | 6.0 | 6.3 | |
| PALMETTO | 6.3 | 6.3 | 6.3 | |
| FSA 1601 | 6.3 | 6.0 | 6.2 | |
| RALEIGH | 6.0 | 6.3 | 6.2 | |
| FSA 1603 | 7.3 | 4.7 | 6.0 | |
| UGA/TX SA26 | 6.0 | 6.0 | 6.0 | |
| FSA 1604 | 6.0 | 5.7 | 5.8 | |
| FSA 1605 | 6.3 | 5.3 | 5.8 | |
| FSA 1606 | 6.3 | 5.0 | 5.7 | |
| FLORATAM | 5.7 | 5.0 | 5.3 | |
| XSA10403 | 6.3 | 4.0 | 5.2 | |
| XSA11168 | 6.0 | 3.3 | 4.7 | |
| FSA 1611 | 5.0 | 4.0 | 4.5 | |
| FSA 1612 | 5.0 | 3.7 | 4.3 | |
| LSD VALUE | 1.1 | 1.0 | 0.7 | |
| C.V. (%) | 10.5 | 10.7 | 10.6 | |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 10. FALL DENSITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

| DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/ | | | |
|---|-----|------|------|
| NAME | FL3 | FL5 | MEAN |
| CITRABLU (FSA 1602) | 9.0 | 8.7 | 8.8 |
| FSA 1609 | 8.0 | 8.0 | 8.0 |
| FSA 1607 | 7.3 | 8.3 | 7.8 |
| FSA 1606 | 7.0 | 8.3 | 7.7 |
| DALSA 1501 | 8.0 | 7.3 | 7.7 |
| FSA 1610 | 7.3 | 8.0 | 7.7 |
| FSA 1603 | 7.0 | 7.7 | 7.3 |
| FSA 1613 | 7.3 | 7.3 | 7.3 |
| FSA 1601 | 6.7 | 7.7 | 7.2 |
| PALMETTO | 6.7 | 7.7 | 7.2 |
| DALSA 1404 | 7.0 | 7.3 | 7.2 |
| XSA11168 | 6.3 | 8.0 | 7.2 |
| FSA 1604 | 6.7 | 7.3 | 7.0 |
| XSA10403 | 7.0 | 7.0 | 7.0 |
| DALSA 1618 | 6.7 | 7.0 | 6.8 |
| FSA 1605 | 6.3 | 7.3 | 6.8 |
| DALSA 1502 | 6.7 | 6.7 | 6.7 |
| DALSA 1623 | 6.7 | 6.7 | 6.7 |
| FSA 1608 | 6.3 | 7.0 | 6.7 |
| RALEIGH | 6.3 | 7.0 | 6.7 |
| UGA/TX SA26 | 6.0 | 7.3 | 6.7 |
| FLORATAM | 6.0 | 7.0 | 6.5 |
| FSA 1611 | 6.3 | 6.7 | 6.5 |
| FSA 1614 | 6.3 | 6.7 | 6.5 |
| DALSA 1316 | 6.7 | 6.0 | 6.3 |
| FSA 1612 | 5.7 | 6.7 | 6.2 |
| DALSA 1323 | 6.3 | 5.7 | 6.0 |
| LSD VALUE | 1.1 | 1.6 | 1.0 |
| C.V. (%) | 9.8 | 13.8 | 12.1 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 11. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

| PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/ | | | | |
|---|------|------|------|------|
| NAME | FL5 | MS1 | NC1 | MEAN |
| UGA/TX SA26 | 99.0 | 85.0 | 86.7 | 90.2 |
| RALEIGH | 99.0 | 76.7 | 88.3 | 88.0 |
| FSA 1613 | 99.0 | 85.0 | 76.7 | 86.9 |
| DALSA 1502 | 94.3 | 86.7 | 78.3 | 86.4 |
| DALSA 1618 | 99.0 | 85.0 | 75.0 | 86.3 |
| FSA 1608 | 96.0 | 86.7 | 75.0 | 85.9 |
| PALMETTO | 99.0 | 85.0 | 73.3 | 85.8 |
| DALSA 1501 | 99.0 | 85.0 | 66.7 | 83.6 |
| DALSA 1623 | 92.7 | 83.3 | 73.3 | 83.1 |
| DALSA 1323 | 94.3 | 81.7 | 68.3 | 81.4 |
| DALSA 1404 | 99.0 | 81.7 | 60.0 | 80.2 |
| DALSA 1316 | 96.0 | 81.7 | 61.7 | 79.8 |
| FSA 1603 | 96.0 | 86.7 | 55.0 | 79.2 |
| FSA 1606 | 99.0 | 76.7 | 58.3 | 78.0 |
| FSA 1605 | 99.0 | 73.3 | 55.0 | 75.8 |
| CITRABLUE (FSA 1602) | 99.0 | 70.0 | 55.0 | 74.7 |
| FSA 1607 | 99.0 | 63.3 | 60.0 | 74.1 |
| FSA 1614 | 99.0 | 75.0 | 41.7 | 71.9 |
| FSA 1601 | 99.0 | 86.7 | 26.7 | 70.8 |
| FSA 1604 | 99.0 | 76.7 | 28.3 | 68.0 |
| FLORATAM | 99.0 | 63.3 | 40.0 | 67.4 |
| FSA 1609 | 99.0 | 73.3 | 30.0 | 67.4 |
| FSA 1610 | 99.0 | 80.0 | 23.3 | 67.4 |
| FSA 1611 | 99.0 | 60.0 | 27.7 | 62.2 |
| XSA11168 | 99.0 | 58.3 | 11.0 | 56.1 |
| XSA10403 | 99.0 | 58.3 | 8.3 | 55.2 |
| FSA 1612 | 99.0 | 46.7 | 6.7 | 50.8 |
| LSD VALUE | 5.6 | 13.8 | 27.6 | 10.4 |
| C.V. (%) | 3.6 | 11.3 | 32.8 | 14.9 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 12. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

| NAME | FL5 | NC1 | MEAN |
|----------------------|------|------|------|
| RALEIGH | 99.0 | 99.0 | 99.0 |
| UGA/TX SA26 | 99.0 | 98.3 | 98.7 |
| DALSA 1502 | 99.0 | 94.3 | 96.7 |
| FSA 1613 | 99.0 | 94.3 | 96.7 |
| DALSA 1623 | 99.0 | 91.7 | 95.3 |
| DALSA 1618 | 97.7 | 92.7 | 95.2 |
| FSA 1608 | 99.0 | 90.7 | 94.8 |
| PALMETTO | 99.0 | 89.7 | 94.3 |
| CITRABLUE (FSA 1602) | 99.0 | 88.3 | 93.7 |
| DALSA 1323 | 99.0 | 86.3 | 92.7 |
| DALSA 1404 | 99.0 | 85.0 | 92.0 |
| DALSA 1501 | 99.0 | 84.0 | 91.5 |
| FSA 1603 | 99.0 | 83.3 | 91.2 |
| FSA 1606 | 99.0 | 83.3 | 91.2 |
| FSA 1607 | 99.0 | 81.7 | 90.3 |
| FLORATAM | 99.0 | 73.3 | 86.2 |
| DALSA 1316 | 96.0 | 75.0 | 85.5 |
| FSA 1605 | 99.0 | 71.7 | 85.3 |
| FSA 1614 | 99.0 | 68.3 | 83.7 |
| FSA 1601 | 99.0 | 60.0 | 79.5 |
| FSA 1609 | 99.0 | 60.0 | 79.5 |
| FSA 1610 | 99.0 | 58.3 | 78.7 |
| FSA 1604 | 99.0 | 50.0 | 74.5 |
| FSA 1611 | 99.0 | 48.3 | 73.7 |
| XSA10403 | 99.0 | 36.7 | 67.8 |
| XSA11168 | 99.0 | 33.3 | 66.2 |
| FSA 1612 | 99.0 | 31.7 | 65.3 |
| LSD VALUE | 1.8 | 24.2 | 12.1 |
| C.V. (%) | 1.1 | 20.2 | 12.3 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 13. PERCENT LIVING GROUND COVER (FALL) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

| NAME | FL5 |
|----------------------|------|
| CITRABLUE (FSA 1602) | 99.0 |
| FSA 1606 | 99.0 |
| FSA 1607 | 99.0 |
| FSA 1609 | 99.0 |
| FSA 1610 | 99.0 |
| FSA 1611 | 99.0 |
| XSA11168 | 99.0 |
| FLORATAM | 98.7 |
| FSA 1613 | 98.7 |
| FSA 1604 | 97.7 |
| DALSA 1501 | 96.0 |
| DALSA 1502 | 94.7 |
| DALSA 1323 | 93.0 |
| DALSA 1404 | 93.0 |
| FSA 1612 | 93.0 |
| FSA 1603 | 91.7 |
| FSA 1608 | 91.0 |
| UGA/TX SA26 | 91.0 |
| FSA 1614 | 89.7 |
| FSA 1601 | 89.3 |
| PALMETTO | 89.3 |
| DALSA 1618 | 88.0 |
| XSA10403 | 86.3 |
| DALSA 1623 | 86.0 |
| RALEIGH | 82.7 |
| FSA 1605 | 81.3 |
| DALSA 1316 | 80.0 |
| LSD VALUE | 20.3 |
| C.V. (%) | 13.6 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 14.

PERCENT WINTER KILL RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/

| NAME | TX1 |
|----------------------|------|
| FSA 1611 | 93.3 |
| FSA 1612 | 93.3 |
| XSA10403 | 90.0 |
| XSA11168 | 90.0 |
| FSA 1604 | 85.0 |
| FSA 1606 | 81.7 |
| CITRABLUE (FSA 1602) | 73.3 |
| FLORATAM | 71.7 |
| FSA 1609 | 70.0 |
| FSA 1605 | 68.3 |
| FSA 1603 | 65.0 |
| FSA 1613 | 58.3 |
| FSA 1614 | 58.3 |
| FSA 1601 | 56.7 |
| FSA 1610 | 55.0 |
| RALEIGH | 45.0 |
| DALSA 1316 | 36.7 |
| PALMETTO | 36.7 |
| DALSA 1404 | 35.0 |
| DALSA 1623 | 35.0 |
| FSA 1607 | 35.0 |
| FSA 1608 | 35.0 |
| DALSA 1501 | 31.7 |
| UGA/TX SA26 | 25.0 |
| DALSA 1618 | 23.3 |
| DALSA 1323 | 21.7 |
| DALSA 1502 | 18.3 |
| LSD VALUE | 22.7 |
| C.V. (%) | 25.7 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 15.

GRAY LEAF SPOT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

GRAY LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/

| NAME | FL5 | NC1 | MEAN |
|----------------------|------|------|------|
| CITRABLUE (FSA 1602) | 9.0 | 9.0 | 9.0 |
| FSA 1609 | 9.0 | 8.7 | 8.8 |
| DALSA 1501 | 8.3 | 8.7 | 8.5 |
| FSA 1610 | 9.0 | 8.0 | 8.5 |
| FSA 1611 | 9.0 | 8.0 | 8.5 |
| FSA 1604 | 8.7 | 7.7 | 8.2 |
| XSA11168 | 8.7 | 7.7 | 8.2 |
| DALSA 1618 | 7.3 | 8.7 | 8.0 |
| FSA 1601 | 8.0 | 8.0 | 8.0 |
| FSA 1603 | 7.7 | 8.0 | 7.8 |
| FSA 1613 | 8.7 | 7.0 | 7.8 |
| DALSA 1623 | 7.3 | 8.0 | 7.7 |
| FSA 1606 | 9.0 | 6.3 | 7.7 |
| DALSA 1502 | 8.0 | 7.0 | 7.5 |
| UGA/TX SA26 | 7.7 | 7.3 | 7.5 |
| FSA 1605 | 6.7 | 8.0 | 7.3 |
| FSA 1608 | 7.7 | 7.0 | 7.3 |
| FSA 1612 | 7.7 | 7.0 | 7.3 |
| DALSA 1404 | 7.3 | 6.7 | 7.0 |
| PALMETTO | 7.7 | 6.3 | 7.0 |
| FSA 1614 | 7.3 | 6.3 | 6.8 |
| FSA 1607 | 9.0 | 4.3 | 6.7 |
| FLORATAM | 8.7 | 4.3 | 6.5 |
| RALEIGH | 7.0 | 6.0 | 6.5 |
| XSA10403 | 6.3 | 5.7 | 6.0 |
| DALSA 1323 | 7.0 | 4.3 | 5.7 |
| DALSA 1316 | 6.0 | 4.3 | 5.2 |
| LSD VALUE | 2.8 | 1.4 | 1.6 |
| C.V. (%) | 21.8 | 12.6 | 18.4 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 16.

FALL COLOR (SEPTEMBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

| NAME | FL3 | FL5 | MEAN |
|----------------------|------|------|------|
| CITRABLUE (FSA 1602) | 8.7 | 9.0 | 8.8 |
| FSA 1601 | 7.7 | 7.7 | 7.7 |
| FSA 1605 | 7.0 | 8.0 | 7.5 |
| FSA 1606 | 6.7 | 8.3 | 7.5 |
| FSA 1604 | 7.3 | 7.3 | 7.3 |
| FSA 1610 | 7.3 | 7.3 | 7.3 |
| FSA 1614 | 6.7 | 7.7 | 7.2 |
| FSA 1607 | 7.0 | 7.3 | 7.2 |
| DALSA 1618 | 7.3 | 6.7 | 7.0 |
| FLORATAM | 7.0 | 7.0 | 7.0 |
| FSA 1613 | 7.0 | 7.0 | 7.0 |
| PALMETTO | 6.7 | 7.0 | 6.8 |
| FSA 1603 | 7.3 | 6.3 | 6.8 |
| FSA 1609 | 6.3 | 7.3 | 6.8 |
| DALSA 1501 | 6.7 | 6.7 | 6.7 |
| RALEIGH | 6.7 | 6.7 | 6.7 |
| UGA/TX SA26 | 6.7 | 6.7 | 6.7 |
| DALSA 1502 | 6.3 | 7.0 | 6.7 |
| DALSA 1404 | 5.7 | 7.0 | 6.3 |
| DALSA 1623 | 6.0 | 6.7 | 6.3 |
| FSA 1608 | 6.3 | 6.3 | 6.3 |
| DALSA 1323 | 6.0 | 6.3 | 6.2 |
| XSA10403 | 5.3 | 7.0 | 6.2 |
| FSA 1611 | 5.3 | 6.3 | 5.8 |
| DALSA 1316 | 5.0 | 6.3 | 5.7 |
| XSA11168 | 5.0 | 6.3 | 5.7 |
| FSA 1612 | 5.3 | 5.3 | 5.3 |
| LSD VALUE | 1.1 | 1.2 | 0.8 |
| C.V. (%) | 10.3 | 10.8 | 10.6 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 17.

FALL COLOR (OCTOBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

| NAME | FL3 |
|----------------------|-----|
| CITRABLUE (FSA 1602) | 8.0 |
| FSA 1603 | 7.3 |
| FSA 1606 | 7.3 |
| DALSA 1618 | 7.0 |
| FSA 1604 | 7.0 |
| FSA 1607 | 7.0 |
| FSA 1609 | 7.0 |
| FSA 1605 | 6.7 |
| FSA 1608 | 6.7 |
| FSA 1610 | 6.7 |
| FSA 1613 | 6.7 |
| FSA 1614 | 6.7 |
| DALSA 1323 | 6.3 |
| DALSA 1501 | 6.3 |
| DALSA 1502 | 6.3 |
| FLORATAM | 6.3 |
| RALEIGH | 6.3 |
| DALSA 1623 | 6.0 |
| FSA 1601 | 6.0 |
| PALMETTO | 6.0 |
| UGA/TX SA26 | 6.0 |
| DALSA 1404 | 5.7 |
| XSA10403 | 5.7 |
| FSA 1612 | 5.3 |
| DALSA 1316 | 5.0 |
| FSA 1611 | 5.0 |
| XSA11168 | 5.0 |
| LSD VALUE | 0.9 |
| C.V. (%) | 9.1 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 18.

FALL COLOR (DECEMBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/

| NAME | FL5 |
|----------------------|------|
| FSA 1610 | 8.7 |
| CITRABLUE (FSA 1602) | 7.7 |
| FSA 1606 | 7.7 |
| FSA 1613 | 7.0 |
| PALMETTO | 7.0 |
| DALSA 1501 | 6.7 |
| FLORATAM | 6.7 |
| FSA 1605 | 6.7 |
| FSA 1607 | 6.7 |
| FSA 1609 | 6.7 |
| RALEIGH | 6.7 |
| FSA 1601 | 6.3 |
| FSA 1604 | 6.3 |
| FSA 1608 | 6.3 |
| FSA 1614 | 6.3 |
| UGA/TX SA26 | 6.3 |
| XSA11168 | 6.3 |
| DALSA 1404 | 6.0 |
| DALSA 1618 | 6.0 |
| FSA 1603 | 6.0 |
| FSA 1611 | 6.0 |
| DALSA 1502 | 5.7 |
| DALSA 1623 | 5.7 |
| FSA 1612 | 5.7 |
| XSA10403 | 5.7 |
| DALSA 1316 | 5.0 |
| DALSA 1323 | 5.0 |
| LSD VALUE | 1.9 |
| C.V. (%) | 18.6 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 19.

SEEDHEAD RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

| NAME | SEEDHEAD RATINGS 1-9; 9=NONE 2/ | | |
|----------------------|---------------------------------|------|------|
| | NC1 | TX1 | MEAN |
| FSA 1611 | 9.0 | 9.0 | 9.0 |
| FSA 1612 | 9.0 | 9.0 | 9.0 |
| DALSA 1502 | 8.7 | 9.0 | 8.8 |
| FLORATAM | 8.3 | 8.3 | 8.3 |
| FSA 1601 | 7.3 | 9.0 | 8.2 |
| DALSA 1316 | 7.0 | 9.0 | 8.0 |
| DALSA 1404 | 7.7 | 7.7 | 7.7 |
| DALSA 1623 | 7.0 | 8.3 | 7.7 |
| FSA 1607 | 5.7 | 8.7 | 7.2 |
| DALSA 1618 | 7.3 | 6.3 | 6.8 |
| FSA 1613 | 6.7 | 6.3 | 6.5 |
| FSA 1614 | 4.0 | 9.0 | 6.5 |
| PALMETTO | 7.0 | 5.0 | 6.0 |
| UGA/TX SA26 | 6.7 | 5.3 | 6.0 |
| XSA11168 | 5.0 | 7.0 | 6.0 |
| FSA 1603 | 2.7 | 9.0 | 5.8 |
| CITRABLUE (FSA 1602) | 3.0 | 8.3 | 5.7 |
| FSA 1609 | 3.0 | 8.3 | 5.7 |
| FSA 1606 | 2.3 | 8.7 | 5.5 |
| XSA10403 | 4.0 | 7.0 | 5.5 |
| DALSA 1501 | 5.7 | 5.0 | 5.3 |
| RALEIGH | 6.0 | 4.7 | 5.3 |
| FSA 1605 | 3.3 | 7.3 | 5.3 |
| FSA 1604 | 3.0 | 7.3 | 5.2 |
| FSA 1610 | 4.0 | 6.0 | 5.0 |
| FSA 1608 | 5.0 | 4.0 | 4.5 |
| DALSA 1323 | 3.3 | 4.7 | 4.0 |
| LSD VALUE | 2.7 | 1.5 | 1.5 |
| C.V. (%) | 29.3 | 12.8 | 20.7 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 20.

WINTER KILL RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2019 DATA

WINTER KILL RATINGS 1-9; 9=LEAST KILL 2/

| NAME | AL1 |
|----------------------|------|
| DALSA 1502 | 8.7 |
| FSA 1613 | 8.3 |
| PALMETTO | 8.3 |
| UGA/TX SA26 | 8.3 |
| FSA 1608 | 8.0 |
| RALEIGH | 8.0 |
| CITRABLUE (FSA 1602) | 7.7 |
| DALSA 1501 | 7.7 |
| DALSA 1618 | 7.3 |
| DALSA 1623 | 6.3 |
| FSA 1601 | 6.3 |
| FSA 1607 | 6.3 |
| FSA 1610 | 6.3 |
| FSA 1614 | 6.0 |
| FSA 1603 | 5.7 |
| FSA 1606 | 5.3 |
| DALSA 1316 | 5.0 |
| FLORATAM | 5.0 |
| FSA 1605 | 5.0 |
| DALSA 1404 | 4.7 |
| FSA 1604 | 4.0 |
| XSA11168 | 4.0 |
| DALSA 1323 | 2.3 |
| XSA10403 | 2.3 |
| FSA 1612 | 2.0 |
| FSA 1609 | 1.7 |
| FSA 1611 | 1.7 |
| LSD VALUE | 2.8 |
| C.V. (%) | 30.3 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

TABLE 21.

SEEDHEAD RATINGS OF ST. AUGUSTINEGRASS CULTIVARS
AT DALLAS, TX 1/
2019 DATA

SEEDHEAD RATINGS 1-9; 9=NONE 2/

| NAME | JUNE | JULY | MEAN |
|----------------------|------|------|------|
| DALSA 1502 | 9.0 | 9.0 | 9.0 |
| FSA 1603 | 9.0 | 9.0 | 9.0 |
| FSA 1611 | 9.0 | 9.0 | 9.0 |
| FSA 1612 | 9.0 | 9.0 | 9.0 |
| FSA 1601 | 9.0 | 8.7 | 8.8 |
| FSA 1614 | 9.0 | 8.3 | 8.7 |
| DALSA 1316 | 9.0 | 8.0 | 8.5 |
| FSA 1607 | 8.7 | 8.3 | 8.5 |
| CITRABLUE (FSA 1602) | 8.3 | 8.3 | 8.3 |
| DALSA 1623 | 8.3 | 8.0 | 8.2 |
| FSA 1609 | 8.3 | 8.0 | 8.2 |
| FLORATAM | 8.3 | 7.7 | 8.0 |
| FSA 1606 | 8.7 | 7.3 | 8.0 |
| FSA 1604 | 7.3 | 8.0 | 7.7 |
| DALSA 1404 | 7.7 | 7.3 | 7.5 |
| FSA 1605 | 7.3 | 7.0 | 7.2 |
| XSA11168 | 7.0 | 7.3 | 7.2 |
| XSA10403 | 7.0 | 6.7 | 6.8 |
| FSA 1613 | 6.3 | 6.7 | 6.5 |
| DALSA 1618 | 6.3 | 6.3 | 6.3 |
| FSA 1610 | 6.0 | 6.3 | 6.2 |
| UGA/TX SA26 | 5.3 | 6.0 | 5.7 |
| DALSA 1501 | 5.0 | 6.0 | 5.5 |
| DALSA 1323 | 4.7 | 6.0 | 5.3 |
| RALEIGH | 4.7 | 6.0 | 5.3 |
| PALMETTO | 5.0 | 5.0 | 5.0 |
| FSA 1608 | 4.0 | 5.3 | 4.7 |
| LSD VALUE | 1.5 | 1.1 | 1.1 |
| C.V. (%) | 13.0 | 9.8 | 10.2 |

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR ST. AUGUSTINEGRASS CULTIVARS */
2019 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF **/

| NAME | QUALITY | MAXIMUM |
|---------------------|---------|---------------|
| | MEAN 1/ | IN TOP 25% 2/ |
| CITRABLU (FSA 1602) | 6.5 | 33.3 |
| DALSA 1316 | 5.4 | 0.0 |
| DALSA 1323 | 4.9 | 0.0 |
| DALSA 1404 | 6.0 | 16.7 |
| DALSA 1501 | 6.5 | 83.3 |
| DALSA 1502 | 6.4 | 50.0 |
| DALSA 1618 | 6.6 | 66.7 |
| DALSA 1623 | 5.9 | 16.7 |
| FLORATAM | 5.4 | 0.0 |
| FSA 1601 | 5.5 | 16.7 |
| FSA 1603 | 5.2 | 16.7 |
| FSA 1604 | 5.2 | 0.0 |
| FSA 1605 | 5.6 | 16.7 |
| FSA 1606 | 5.7 | 16.7 |
| FSA 1607 | 5.6 | 33.3 |
| FSA 1608 | 6.3 | 33.3 |
| FSA 1609 | 5.2 | 16.7 |
| FSA 1610 | 5.6 | 16.7 |
| FSA 1611 | 4.5 | 0.0 |
| FSA 1612 | 4.2 | 0.0 |
| FSA 1613 | 6.5 | 66.7 |
| FSA 1614 | 5.8 | 16.7 |
| PALMETTO | 6.4 | 33.3 |
| RALEIGH | 5.9 | 16.7 |
| UGA/TX SA26 | 6.0 | 33.3 |
| XSA10403 | 4.6 | 0.0 |
| XSA11168 | 4.9 | 0.0 |
| LSD VALUE | 0.5 | |
| C.V. (%) | 14.1 | |

*/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

**/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.

1/ MEAN AN AVERAGE OF ALL THE TURFGRASS QUALITY RATINGS FROM ALL LOCATIONS.

2/ MAXIMUM IN TOP 25% THE PERCENTAGE OF LOCATIONS WHERE THAT ENTRY FINISHED IN THE TOP 25% OF ALL ENTRIES.