

## 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, one member from the Sports Turf Managers Association of America (STMA), 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.

Executive Director - Kevin N. Morris, National Turfgrass Evaluation Program, Inc.

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Mr. Mike Selman, Buena Vista Turf Farm  
Mr. Mark Johnson, Golf Course Superintendents Assoc. of America  
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## 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 2016-2020

<u>State</u>	<u>Location</u>	<u>Code</u>
Alabama	Auburn	AL1
Florida	Citra (Chinch Bug)	FL4
Florida	Ft. Lauderdale	FL5
Florida	Ft. Lauderdale (Low Fertilizer)	FL6
Florida	Jay	FL3
Georgia	Griffin	GA1
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 State University
5	XSA11168	North Carolina State 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 2021 or in any other country

TABLE A.

2016-20 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
FL4	-	-	-	-	-	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
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
GA1	SANDY CLAY LOAM	-	-	-	2.1-3.0	FULL SUN	2.6-3.0	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	SANDY 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	2.6-3.0	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 2016-20

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	X	X
FL3			X	X	X	X	X	X	X	X	X		X	X	
FL4	X	X	X	X	X	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
GA1				X	X	X	X	X	X	X			X	X	
MS1				X	X	X	X	X	X	X	X		X	X	X
NC1				X	X	X	X	X	X	X	X			X	
TX1				X	X	X	X	X	X	X	X		X	X	X
TX2				X	X	X	X	X	X	X	X		X	X	X



TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 2016-20

LOCATION	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER			WINTER COLOR	WINTER KILL	DROUGHT TOLERANCE			BROWN PATCH WARM TEMP.	FAIRY RING	GRAY LEAF SPOT	TAKE ALL DISEASE	INSECT
				SPRING	SUMMER	FALL			WILTING	DORMANCY	RECOVERY					
AL1																
FL3	X	X	X				X	X								
FL4				X	X	X	X					X			X	X
FL5	X	X	X	X	X	X							X	X		
FL6	X	X	X	X	X	X							X	X		
GA1																
MS1					X							X		X		
NC1					X	X								X		
TX1		X		X				X				X		X		
TX2							X		X	X	X					

TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 2016-20

LOCATION	FALL COLOR SEPTEMBER	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	FALL COLOR DECEMBER	SEEDHEAD RATINGS	SEEDHEAD RATINGS			GRAY LEAF SPOT				BROWN PATCH SEP	PATCH NOV	PERCENT ESTABLISHMENT RATINGS												
						JUN	JUL	AUG	APR	AUG	SEP	OCT			APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV					
AL1	X		X																		X	X	X	X			
FL3	X	X	X																								
* FL4	X	X	X	X																							
FL5	X																										
FL6	X																										
GA1	X	X																									
MS1						X																		X	X	X	X
* NC1				X		X							X	X										X	X		
TX1		X	X	X	X	X	X	X	X	X	X	X	X	X							X	X					
TX2																								X	X	X	

\* MORE INSECT AND OTHER DATA FOR FL4 IN TABLE 9, AND MORE PERCENT GROUND COVER DATA FOR NC1 IN TABLE 40.

TABLE 1.

TURFGRASS QUALITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2017 DATA

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

NAME	ENTRY #	NC1	GA1	MS1	MEAN
FSA 1601	6	6.2	6.7	6.8	6.5
FSA 1608	13	5.7	6.4	6.6	6.3
XSA10403	4	6.6	6.0	6.2	6.2
FSA 1604	9	5.7	6.3	6.6	6.2
* RALEIGH	2	5.7	6.3	6.4	6.1
FSA 1605	10	5.5	6.2	6.5	6.1
UGA/TX SA26	20	5.7	6.1	6.4	6.1
XSA11168	5	6.1	5.9	6.1	6.0
* PALMETTO	3	5.7	6.0	6.3	6.0
FSA 1606	11	5.6	5.9	6.3	5.9
FSA 1610	15	5.1	6.2	6.5	5.9
DALSA 1502	26	5.0	6.0	6.5	5.8
FSA 1613	18	5.2	5.9	6.2	5.8
FSA 1609	14	5.0	6.0	6.3	5.8
FSA 1611	16	5.5	5.7	5.8	5.7
DALSA 1618	27	4.6	5.9	6.4	5.6
DALSA 1623	21	5.1	5.6	6.1	5.6
DALSA 1501	25	4.8	5.7	6.2	5.6
DALSA 1404	24	4.9	5.6	6.2	5.6
DALSA 1316	22	4.8	5.7	6.1	5.5
FSA 1614	19	4.8	5.8	6.0	5.5
DALSA 1323	23	4.4	5.9	6.1	5.5
FSA 1612	17	5.1	5.3	5.5	5.3
* FLORATAM	1	4.5	5.4	5.8	5.2
FSA 1607	12	3.4	5.7	6.1	5.1
* CITRABLUE (FSA 1602)	7	3.5	5.5	5.8	5.0
FSA 1603	8	2.8	5.7	6.0	4.8
LSD VALUE		0.9	0.9	0.9	0.9
C.V. (%)		10.7	9.1	8.7	9.4

\*/ COMMERCIALLY AVAILABLE IN THE USA IN 2021

\*\*/ 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](http://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 \*/  
2017 DATA

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

NAME	FL3	AL1	TX1	MEAN
DALSA 1502	7.1	7.8	6.8	7.2
DALSA 1618	6.7	7.3	6.8	6.9
DALSA 1501	7.0	7.5	6.2	6.9
DALSA 1404	6.0	7.7	6.9	6.9
DALSA 1623	5.7	7.6	6.9	6.7
DALSA 1316	6.5	6.8	6.1	6.5
FSA 1607	6.4	6.0	6.9	6.4
FSA 1606	5.7	6.9	6.5	6.4
FSA 1604	6.0	6.5	6.6	6.4
FSA 1605	6.5	6.3	6.1	6.3
FSA 1610	6.7	5.9	6.1	6.2
FSA 1609	6.3	6.1	6.2	6.2
FSA 1603	7.0	5.2	6.3	6.2
UGA/TX SA26	6.4	6.3	5.9	6.2
FSA 1608	6.5	6.0	6.0	6.2
CITRABLUE (FSA 1602)	6.5	5.5	6.0	6.0
DALSA 1323	6.1	5.5	6.2	6.0
FSA 1613	5.9	5.9	6.0	5.9
FSA 1614	6.6	5.7	5.3	5.9
PALMETTO	5.9	5.8	5.8	5.8
XSA10403	5.8	6.3	5.2	5.8
FLORATAM	5.9	5.8	5.6	5.7
FSA 1601	5.8	5.1	6.2	5.7
RALEIGH	5.9	5.0	5.7	5.5
XSA11168	6.7	5.4	4.3	5.5
FSA 1611	6.6	5.1	4.2	5.3
FSA 1612	5.5	5.0	4.4	5.0
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	8.6	8.8	9.0	8.8

\*/ 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](http://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.

TURFGRASS QUALITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2018 DATA

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

NAME	# Entry	NC1	GA1	FL5	MS1	MEAN
FSA 1601	6	7.3	6.2	7.6	6.1	6.8
* CITRABLUE (FSA 1602)	7	6.7	6.0	8.1	5.2	6.5
FSA 1613	18	6.3	5.9	7.0	5.9	6.3
* PALMETTO	3	5.9	6.0	7.0	6.0	6.2
UGA/TX SA26	20	6.0	6.1	7.1	5.7	6.2
FSA 1610	15	5.6	6.1	7.8	5.2	6.2
* RALEIGH	2	6.2	6.1	6.8	5.6	6.1
FSA 1608	13	4.8	6.5	6.9	6.0	6.1
DALSA 1618	27	5.9	5.7	7.2	5.4	6.0
FSA 1609	14	5.8	6.1	7.0	5.0	6.0
FSA 1606	11	4.8	6.0	7.4	5.5	5.9
FSA 1604	9	4.8	6.1	7.1	5.5	5.9
FSA 1614	19	5.5	5.8	7.4	4.8	5.9
DALSA 1404	24	6.5	5.7	6.9	4.3	5.9
XSA10403	4	5.7	6.1	6.9	4.6	5.8
DALSA 1623	21	5.2	5.6	6.8	5.0	5.6
DALSA 1501	25	4.3	5.7	6.9	5.4	5.6
DALSA 1502	26	4.3	5.9	6.6	5.5	5.6
XSA11168	5	4.9	5.9	6.7	4.8	5.6
FSA 1603	8	3.3	5.8	7.1	5.4	5.4
DALSA 1323	23	4.6	5.9	6.1	4.3	5.2
DALSA 1316	22	4.2	6.2	6.2	4.3	5.2
FSA 1605	10	2.5	6.3	6.9	5.0	5.2
FSA 1607	12	2.4	6.0	7.1	4.3	4.9
* FLORATAM	1	3.1	5.8	6.8	4.1	4.9
FSA 1612	17	2.4	5.7	6.3	3.3	4.4
FSA 1611	16	2.6	6.0	6.4	2.6	4.4
LSD VALUE		0.9	0.9	0.9	0.9	0.9
C.V. (%)		11.5	9.4	8.0	11.2	9.8

\*/ COMMERCIALY AVAILABLE IN THE USA IN 2021

\*\*/ 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](http://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 4.

TURFGRASS QUALITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 \*/  
2018 DATA

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

NAME	# Entry	FL3	AL1	TX1	MEAN
DALSA 1618	27	6.3	7.1	8.2	7.2
DALSA 1623	21	6.2	7.1	7.8	7.0
DALSA 1502	26	5.6	7.6	7.8	7.0
DALSA 1501	25	5.5	6.7	8.2	6.8
DALSA 1404	24	5.5	6.8	7.6	6.6
FSA 1608	13	5.8	5.6	7.8	6.4
FSA 1606	11	5.9	6.5	6.7	6.3
UGA/TX SA26	20	5.6	6.2	7.2	6.3
DALSA 1316	22	6.0	6.2	6.7	6.3
* PALMETTO	3	5.8	5.2	7.7	6.2
* CITRABLUE (FSA 1602)	7	5.8	5.4	7.4	6.2
FSA 1609	14	6.2	5.6	6.7	6.2
FSA 1605	10	5.6	5.8	6.9	6.1
FSA 1607	12	5.8	5.4	6.9	6.0
FSA 1604	9	5.4	5.9	6.8	6.0
* RALEIGH	2	5.8	5.0	7.2	6.0
FSA 1614	19	5.4	5.3	7.2	6.0
DALSA 1323	23	5.4	5.0	7.2	5.9
FSA 1603	8	6.3	4.2	7.1	5.8
FSA 1613	18	4.4	6.0	7.0	5.8
FSA 1610	15	5.1	5.2	6.6	5.7
* FLORATAM	1	4.8	5.3	6.3	5.5
XSA10403	4	5.7	5.5	4.9	5.4
FSA 1601	6	4.8	4.7	6.1	5.2
XSA11168	5	5.3	5.0	4.6	5.0
FSA 1611	16	5.3	3.5	5.6	4.8
FSA 1612	17	4.5	4.2	4.9	4.5
LSD VALUE		0.9	0.9	0.9	0.9
C.V. (%)		10.1	10.0	8.2	9.3

\*/ 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](http://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 5.

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 2021

\*\*/ 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](http://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 6.

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
CITRABLU (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](http://WWW.NTEP.ORG/LPI_Q&A.PDF)

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

TABLE 7.

TURFGRASS QUALITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2020 DATA

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

NAME	# Entry	NC1	GA1	FL3	FL5	MEAN
* CITRABLUE (FSA 1602)	7	7.3	6.7	7.1	7.8	7.2
FSA 1610	15	6.6	6.6	6.7	7.2	6.8
DALSA 1501	25	7.2	6.5	6.9	6.4	6.7
FSA 1613	18	7.3	6.2	6.2	7.0	6.7
FSA 1606	11	6.7	6.5	6.5	6.9	6.7
DALSA 1618	27	6.5	6.6	6.7	6.5	6.6
DALSA 1404	24	6.9	6.1	6.8	6.2	6.5
FSA 1603	8	5.9	6.8	6.7	6.5	6.5
FSA 1601	6	5.9	6.7	5.9	7.0	6.4
DALSA 1502	26	6.9	6.4	6.1	5.9	6.3
XSA10403	4	6.3	5.8	6.3	6.8	6.3
FSA 1608	13	7.2	5.7	5.8	6.4	6.3
FSA 1604	9	6.7	5.7	6.3	6.4	6.3
* PALMETTO	3	6.6	6.3	5.7	6.4	6.3
XSA11168	5	6.2	6.1	5.8	6.9	6.3
FSA 1614	19	5.7	6.6	6.0	6.6	6.2
FSA 1607	12	6.0	6.0	6.6	6.3	6.2
FSA 1609	14	5.6	6.2	6.4	6.7	6.2
UGA/TX SA26	20	6.7	6.2	5.4	6.4	6.2
DALSA 1623	21	5.4	6.4	6.3	6.0	6.0
* RALEIGH	2	6.4	6.1	4.9	6.4	6.0
* FLORATAM	1	5.3	6.4	5.7	6.5	6.0
FSA 1605	10	5.3	6.1	5.4	7.0	5.9
DALSA 1323	23	5.7	6.3	5.9	5.7	5.9
DALSA 1316	22	4.9	6.5	6.4	5.6	5.9
FSA 1612	17	3.9	6.3	5.5	6.0	5.4
FSA 1611	16	3.9	6.2	5.0	6.0	5.3
LSD VALUE		1.1	1.1	1.1	1.1	1.1
C.V. (%)		10.9	10.6	11.0	10.3	10.7

\*/ COMMERCIALLY AVAILABLE IN THE USA IN 2021

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



TABLE 8.

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	# Entry	AL1	MS1	TX1	MEAN
DALSA 1618	27	7.0	5.2	7.3	6.5
FSA 1613	18	6.1	5.4	6.0	5.8
DALSA 1502	26	4.4	5.6	7.3	5.7
DALSA 1501	25	4.8	5.2	7.0	5.7
FSA 1614	19	5.5	5.2	6.2	5.6
* PALMETTO	3	4.9	5.6	6.4	5.6
* CITRABLU (FSA 1602)	7	6.0	5.2	5.5	5.6
FSA 1608	13	5.4	5.1	5.9	5.5
UGA/TX SA26	20	4.5	5.6	6.0	5.4
* FLORATAM	1	5.3	4.8	5.7	5.3
FSA 1606	11	4.8	5.1	5.9	5.3
DALSA 1404	24	4.7	4.5	6.3	5.2
* RALEIGH	2	3.9	5.7	5.6	5.1
FSA 1601	6	3.9	5.2	5.4	4.9
DALSA 1623	21	3.6	4.4	6.0	4.7
FSA 1610	15	3.6	4.8	5.1	4.5
DALSA 1316	22	3.0	4.1	6.2	4.4
FSA 1604	9	3.9	4.2	4.9	4.3
DALSA 1323	23	2.4	4.6	6.0	4.3
FSA 1605	10	3.7	4.5	4.0	4.1
FSA 1609	14	3.7	3.9	4.7	4.1
XSA11168	5	3.3	4.6	4.4	4.1
FSA 1607	12	3.2	3.9	5.0	4.0
FSA 1603	8	1.5	4.6	5.5	3.9
XSA10403	4	3.3	4.0	4.1	3.8
FSA 1611	16	2.5	4.0	4.3	3.6
FSA 1612	17	1.7	3.7	4.3	3.2
LSD VALUE		1.1	1.1	1.1	1.1
C.V. (%)		16.4	14.1	12.0	13.9

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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.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ST. AUGUSTINEGRASS CULTIVARS  
IN THE 2016 NATIONAL ST. AUGUSTINEGRASS TEST AT CITRA (CHINCH BUG), FL 1/  
2017-18 DATA

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

NAME	SPRING GREENUP	PERCENT SPRING	GROUND SUMMER	COVER FALL	WINTER COLOR	BROWN PATCH WARM TEMP.	GRAY LEAF SPOT	QUALITY RATINGS												
								JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
DALSA 1618	7.0	87.5	92.8	99.0	5.7	8.5	9.0	5.3	5.8	6.8	7.2	7.7	8.3	8.7	8.7	9.0	9.0	8.5	7.8	7.8
DALSA 1316	7.2	85.3	96.2	99.0	5.3	8.7	6.8	5.3	6.2	6.8	7.5	7.8	8.8	8.8	8.5	8.5	8.2	7.8	7.3	7.7
DALSA 1502	6.7	83.2	92.2	98.3	6.7	9.0	7.3	6.7	6.0	6.8	6.8	7.7	8.3	8.7	8.5	8.5	8.3	8.0	7.8	7.7
CITRABLUE (FSA 1602)	6.8	77.7	92.7	96.8	5.3	8.3	8.5	4.7	5.5	6.5	6.8	7.2	8.5	8.3	8.7	8.7	8.7	8.5	7.8	7.6
DALSA 1501	6.0	82.2	91.8	99.0	5.3	8.7	6.2	5.7	5.7	6.3	7.0	7.5	8.5	8.8	9.0	8.7	8.3	7.7	7.7	7.6
DALSA 1623	7.0	77.8	89.7	98.3	5.7	8.3	9.0	6.0	6.2	6.5	7.0	7.5	8.2	8.7	8.5	8.7	7.8	7.7	7.8	7.6
FSA 1606	7.3	82.5	91.2	99.0	6.7	7.8	8.5	6.0	5.7	6.5	6.7	7.3	7.8	8.2	8.2	8.5	8.8	8.0	7.3	7.5
XSA11168	5.8	86.2	97.0	95.0	4.3	7.2	9.0	4.7	5.5	6.3	7.0	7.7	8.3	8.2	8.5	8.2	8.3	6.8	7.2	7.4
FSA 1610	6.2	83.0	94.3	98.3	5.3	7.5	8.5	5.0	5.8	6.3	6.8	7.8	8.0	8.0	8.0	8.0	8.2	7.7	7.3	7.3
PALMETTO	5.7	82.8	93.7	99.0	5.7	7.0	8.5	5.3	5.5	6.2	6.5	7.2	7.5	8.3	8.5	8.7	8.5	7.7	7.2	7.3
DALSA 1323	6.5	73.8	88.7	97.7	5.7	8.5	8.0	4.7	5.7	6.3	7.3	7.0	7.7	8.2	8.0	7.8	7.8	7.2	7.0	7.2
DALSA 1404	6.8	84.3	92.8	98.3	5.0	8.5	5.0	5.0	6.2	6.8	7.0	7.8	8.2	8.2	7.3	7.2	7.2	7.2	6.8	7.2
FSA 1613	6.2	80.8	91.2	99.0	5.3	8.7	5.2	5.0	5.3	5.8	6.3	7.2	7.7	8.5	8.3	8.3	8.5	7.7	7.0	7.2
FSA 1614	6.2	78.7	89.0	98.3	5.0	8.5	8.0	5.0	5.7	6.3	6.5	7.0	7.5	8.2	8.0	8.3	8.2	7.7	7.5	7.2
FSA 1601	6.5	78.0	88.8	97.0	6.3	7.3	9.0	4.7	5.3	6.2	6.7	6.8	7.8	8.2	8.2	7.7	8.3	8.2	6.5	7.1
FSA 1605	6.3	82.5	88.7	97.7	5.7	8.2	9.0	5.0	5.3	6.2	6.6	6.8	7.3	8.0	7.8	8.5	8.5	7.5	7.0	7.1
RALEIGH	5.3	87.0	96.2	99.0	5.3	8.2	9.0	5.3	5.3	6.0	7.0	7.5	8.2	8.3	7.8	8.0	8.0	7.2	6.0	7.1
FSA 1604	6.0	79.5	89.5	98.3	4.0	6.7	9.0	4.0	5.3	6.5	6.5	6.8	7.8	7.8	7.8	8.0	8.2	7.2	6.7	7.0
FSA 1609	6.2	74.3	90.3	97.7	5.0	6.2	8.5	5.0	5.2	6.2	6.3	6.7	7.5	8.0	8.0	8.2	7.8	7.3	7.0	7.0
UGA/TX SA26	5.8	77.2	87.8	99.0	5.7	7.5	9.0	6.0	5.2	6.2	6.2	6.8	7.2	7.5	8.5	8.2	8.3	7.2	6.3	7.0
FSA 1607	7.3	68.8	84.0	96.8	6.3	8.7	8.0	4.7	5.3	5.8	6.2	6.5	7.3	7.3	8.0	8.0	7.8	7.8	7.0	6.9
FSA 1608	5.8	77.7	90.3	99.0	6.7	8.2	8.5	6.3	5.2	5.7	6.3	6.5	7.3	7.8	7.8	8.2	7.8	7.3	6.7	6.9
FSA 1612	5.7	82.8	93.7	99.0	4.0	9.0	9.0	4.3	5.3	6.0	6.8	7.0	7.7	8.5	8.2	8.0	7.8	6.7	5.5	6.9
XSA10403	6.3	91.2	97.0	73.7	4.3	7.5	9.0	4.7	5.7	6.3	7.0	7.5	7.8	8.3	7.3	6.7	5.8	5.2	7.5	6.8
FLORATAM	5.8	73.5	88.0	99.0	4.3	8.7	4.5	4.0	4.2	5.7	6.2	6.7	7.8	7.3	7.7	7.8	7.7	6.7	6.2	6.6
FSA 1611	5.3	81.6	92.0	95.0	4.0	8.3	9.0	4.3	5.2	5.8	6.5	6.8	7.0	7.3	7.5	7.2	7.0	5.8	6.5	6.5
FSA 1603	6.0	69.2	80.7	92.8	5.0	7.7	9.0	4.0	4.5	5.0	5.5	6.0	6.7	6.8	7.0	7.2	7.0	5.7	6.2	6.0
LSD VALUE	1.0	68.5	23.2	8.7	0.8	1.4	1.9	1.0	4.8	2.3	2.6	1.1	1.1	1.0	1.1	1.3	1.8	1.1	2.1	0.6
C.V. (%)	12.6	25.7	10.4	7.2	10.0	13.8	20.4	11.8	28.1	16.1	16.2	11.0	10.2	9.2	9.7	11.4	14.5	12.9	17.4	6.7

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 9.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ST. AUGUSTINEGRASS CULTIVARS  
IN THE 2016 NATIONAL ST. AUGUSTINEGRASS TEST AT CITRA (CHINCH BUG), FL 1/  
2017-18 DATA

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

NAME NAME	COLOR				TRAFFIC TOLERANCE TRF_DES	CATER- PILLAR DAMAGE CATERPIL	CHINCH BUG FIELD		STUDY TRIAL RATINGS	2018 MORTALITY RATINGS	CHINCH BUG LAB STUDY		
	SEPTEMBER COLORSEP	OCTOBER COLOROCT	NOVEMBER COLORNOV	DECEMBER COLORDEC			NYMPH RATINGS	ADULT RATINGS			2017 MORTALITY RATINGS	2018 FEEDING RATINGS	2017 FEEDING RATINGS
DALSA 1618	8.8	9.0	8.5	8.0	7.7	6.7	8.0	9.0	9.0	8.3	7.0	6.3	6.7
DALSA 1316	7.7	7.7	7.3	7.0	8.7	9.0	8.2	9.0	9.0	6.0	7.3	8.7	7.0
DALSA 1502	8.3	8.3	8.2	7.3	7.7	6.7	5.7	7.3	6.3	6.0	5.0	7.7	6.3
CITRABLUE (FSA 1602)	8.5	8.7	8.7	7.7	7.0	7.3	5.0	9.0	9.0	8.5	1.0	8.7	7.0
DALSA 1501	8.5	8.3	7.5	7.3	8.3	7.3	6.5	9.0	9.0	8.3	4.0	5.3	8.0
DALSA 1623	8.8	7.7	7.7	7.7	7.3	7.3	6.8	9.0	9.0	7.0	4.7	8.7	5.7
FSA 1606	8.5	8.7	8.0	7.3	6.0	6.7	7.5	9.0	9.0	6.3	6.0	5.7	5.7
XSA11168	7.7	8.2	7.3	6.3	9.0	9.0	5.3	6.3	6.7	6.0	2.0	7.7	4.3
FSA 1610	7.7	7.8	7.8	6.3	7.0	4.0	8.0	9.0	9.0	8.0	7.0	9.0	5.7
PALMETTO	8.5	8.3	7.2	6.0	8.0	7.3	5.3	9.0	9.0	7.7	1.7	6.0	5.7
DALSA 1323	7.3	7.3	7.0	6.3	8.7	9.0	6.7	9.0	9.0	5.7	4.3	7.7	7.7
DALSA 1404	6.7	6.8	7.2	6.3	7.7	9.0	7.8	9.0	9.0	7.5	6.7	9.0	5.0
FSA 1613	7.8	8.2	7.3	6.7	7.7	6.7	3.7	7.0	5.7	6.3	1.3	6.7	8.0
FSA 1614	8.3	8.2	7.7	6.7	7.3	7.3	6.7	9.0	9.0	6.5	4.3	6.0	3.3
FSA 1601	8.2	8.3	8.2	7.0	7.7	8.3	7.2	9.0	9.0	7.0	5.3	6.7	3.3
FSA 1605	8.5	8.5	7.5	6.3	6.7	6.7	7.3	9.0	9.0	7.3	5.7	4.7	3.0
RALEIGH	7.7	7.3	6.5	6.0	7.7	5.7	7.0	6.7	6.3	.	.	7.7	5.7
FSA 1604	7.2	8.0	7.3	5.0	6.3	7.3	7.8	9.0	9.0	7.7	7.7	7.3	7.0
FSA 1609	7.8	7.8	7.3	6.3	7.0	5.7	5.5	9.0	9.0	8.0	2.0	7.0	6.3
UGA/TX SA26	7.7	8.2	7.2	6.3	7.0	7.3	7.0	9.0	9.0	6.3	5.0	6.3	5.7
FSA 1607	8.0	7.8	7.8	6.7	7.0	7.3	6.2	9.0	9.0	6.7	3.3	8.7	4.0
FSA 1608	7.3	7.8	6.8	6.3	7.7	5.7	5.5	8.3	8.3	8.3	2.7	8.3	5.7
FSA 1612	7.7	7.8	6.5	5.0	8.0	9.0	5.5	7.3	6.3	4.0	4.7	6.0	7.3
XSA10403	7.7	6.3	6.5	6.3	8.3	9.0	2.8	6.0	3.5	4.5	2.3	5.0	7.7
FLORATAM	7.8	7.8	6.7	5.3	7.7	9.0	5.5	9.0	9.0	4.5	2.0	7.0	5.7
FSA 1611	7.5	7.7	5.7	5.0	7.3	9.0	5.8	8.0	7.7	7.0	4.0	8.0	6.7
FSA 1603	7.5	7.5	7.2	5.0	6.0	9.0	6.2	9.0	9.0	7.0	3.3	6.0	8.3
LSD VALUE	0.9	1.1	1.0	1.1	1.1	5.4	7.1	3.6	4.4	5.2	4.0	5.0	3.6
C.V. (%)	9.4	10.9	11.5	10.5	8.9	26.8	48.5	16.0	22.0	25.5	49.3	26.4	29.0

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 10.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ST. AUGUSTINEGRASS CULTIVARS  
IN THE 2016 NATIONAL ST. AUGUSTINEGRASS TEST AT FT. LAUDERDALE (LOW FERTILIZER), FL 1/  
2018-20 DATA

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/												MEAN
				JAN	FEB	MAR	APR	MAY	QUALITY RATINGS			SEP	OCT	NOV	DEC	
									JUN	JUL	AUG					
CITRABLUE (FSA 1602)	8.3	8.3	3.3	7.8	8.0	8.5	8.2	8.0	8.0	8.0	8.6	7.9	7.8	7.8	7.9	8.0
FSA 1606	8.0	7.3	3.0	7.6	7.3	7.7	7.5	7.2	6.9	6.8	7.4	7.4	7.7	7.4	7.3	7.3
FSA 1610	8.7	8.7	4.0	7.4	7.3	8.2	7.3	7.0	6.6	6.0	6.4	7.7	7.8	7.6	7.7	7.2
PALMETTO	8.0	6.7	3.3	6.8	6.9	6.7	7.0	6.8	6.6	6.4	6.9	6.9	7.0	6.9	6.9	6.8
FSA 1605	9.0	7.3	3.0	6.8	6.9	6.3	6.8	6.8	6.8	6.6	7.1	6.6	6.8	6.7	6.4	6.7
FSA 1613	7.7	7.3	2.7	6.7	6.8	6.8	6.7	6.8	6.7	6.6	6.8	6.7	6.8	6.4	6.9	6.7
FSA 1601	9.0	8.7	3.7	6.9	6.8	7.5	6.5	7.0	6.6	5.9	6.3	6.8	6.8	6.3	6.7	6.6
FSA 1607	7.0	6.7	3.0	6.7	6.8	7.2	6.7	6.7	6.3	6.0	6.7	6.7	6.5	6.4	6.3	6.5
FLORATAM	7.7	6.7	2.7	6.6	6.8	6.5	6.3	6.2	6.1	6.0	6.4	6.7	6.8	6.2	6.3	6.4
FSA 1609	7.0	7.0	3.3	6.7	6.6	7.0	7.0	6.3	6.6	6.3	6.1	6.3	6.2	6.0	6.2	6.4
FSA 1604	7.0	7.3	3.7	6.3	6.8	6.7	6.7	6.7	6.1	6.2	6.3	6.2	6.3	6.0	6.4	6.3
FSA 1608	7.3	6.3	3.7	6.2	6.2	6.2	6.5	6.5	6.1	5.9	5.9	6.7	6.7	6.4	6.6	6.3
FSA 1614	8.3	7.3	2.7	6.1	6.3	6.8	6.5	7.0	6.6	5.9	6.3	6.4	7.0	6.1	6.0	6.3
XSA11168	7.0	6.7	3.0	6.4	6.4	6.3	6.5	6.0	6.0	5.8	5.9	6.4	6.7	6.4	6.7	6.3
DALSA 1501	6.7	7.3	2.0	6.4	6.6	7.0	6.7	6.5	6.2	5.9	6.2	6.0	5.7	5.6	6.0	6.2
DALSA 1618	7.7	8.3	2.3	5.8	6.2	7.0	7.2	7.0	6.3	5.9	6.2	6.0	6.3	5.9	5.8	6.2
RALEIGH	8.0	6.3	3.0	6.1	6.2	6.2	6.2	6.7	6.3	5.9	6.6	6.4	6.7	6.1	6.1	6.2
UGA/TX SA26	7.3	6.7	4.0	6.4	6.7	6.5	6.8	6.5	6.0	5.7	5.8	6.3	6.2	5.8	6.0	6.1
DALSA 1404	6.3	8.3	2.3	6.3	6.4	7.5	7.3	6.2	5.7	5.7	5.8	5.8	5.8	5.7	5.8	6.0
DALSA 1623	7.0	8.3	2.3	6.2	6.3	6.7	6.5	6.7	6.2	5.7	6.3	6.1	5.8	5.4	5.7	6.0
XSA10403	7.0	7.3	3.0	5.9	6.0	6.7	6.3	6.3	6.0	5.9	6.0	6.2	6.2	5.8	5.8	6.0
FSA 1603	7.7	8.0	3.7	5.8	6.1	6.2	5.8	6.0	5.9	5.7	5.7	6.4	6.2	6.0	6.0	5.9
FSA 1611	7.3	6.0	2.7	6.1	6.3	6.0	6.3	5.8	5.6	5.2	5.4	5.9	6.2	5.6	5.6	5.8
FSA 1612	6.7	7.0	2.0	5.8	6.0	6.3	6.3	6.0	5.7	5.4	5.3	5.8	5.7	5.2	5.4	5.7
DALSA 1502	7.7	7.0	2.0	5.7	5.7	6.0	6.3	6.0	5.7	5.2	5.7	5.9	6.0	5.2	5.3	5.6
DALSA 1316	6.7	6.7	2.0	5.8	5.8	6.2	6.3	6.0	5.6	5.1	5.2	5.4	5.3	5.0	4.9	5.5
DALSA 1323	6.7	6.3	2.3	5.3	5.4	5.5	5.5	6.0	5.7	5.4	5.4	5.4	5.7	4.9	5.6	5.5
LSD VALUE	0.4	0.4	0.3	1.0	0.8	1.2	1.5	0.9	0.6	0.7	0.9	0.8	1.0	0.8	1.0	0.5
C.V. (%)	5.9	7.2	12.8	15.2	13.4	14.1	14.4	10.8	10.9	12.4	15.1	13.4	12.7	14.7	17.4	9.4

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 10.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ST. AUGUSTINEGRASS CULTIVARS  
IN THE 2016 NATIONAL ST. AUGUSTINEGRASS TEST AT FT. LAUDERDALE (LOW FERTILIZER), FL 1/  
2018-20 DATA

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

NAME	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT GROUND COVER			FAIRY RING	GRAY LEAF SPOT	COLOR RATINGS	
				SPRING	SUMMER	FALL			SEPTEMBER	DECEMBER
CITRABLUE (FSA 1602)	8.3	9.0	7.9	99.0	99.0	99.0	9.0	8.9	9.0	8.1
FSA 1606	8.0	8.0	7.7	99.0	99.0	99.0	9.0	9.0	7.3	8.1
FSA 1610	8.0	8.7	8.1	99.0	99.0	98.6	9.0	8.4	6.7	8.1
PALMETTO	7.3	7.3	7.4	99.0	99.0	97.4	9.0	8.6	6.7	7.3
FSA 1605	7.0	7.0	7.1	99.0	99.0	85.6	9.0	7.1	6.7	7.2
FSA 1613	6.7	7.3	6.9	99.0	99.0	98.6	9.0	8.9	6.7	7.2
FSA 1601	7.0	8.0	7.6	97.5	97.5	92.2	9.0	6.8	7.0	7.3
FSA 1607	8.0	7.7	7.3	99.0	99.0	98.6	9.0	8.1	6.7	6.9
FLORATAM	6.0	7.3	6.6	99.0	99.0	96.9	9.0	8.3	6.3	6.9
FSA 1609	7.3	7.3	7.2	99.0	99.0	97.4	9.0	8.2	6.3	6.9
FSA 1604	6.7	7.0	7.1	99.0	99.0	97.0	9.0	8.2	6.3	6.7
FSA 1608	6.3	7.3	6.7	99.0	99.0	97.0	9.0	8.1	5.7	6.9
FSA 1614	6.0	8.0	6.7	97.5	99.0	96.0	9.0	7.2	6.7	6.9
XSA11168	8.0	7.0	7.8	99.0	99.0	98.1	9.0	8.8	5.3	6.8
DALSA 1501	7.0	7.3	6.8	99.0	99.0	95.0	9.0	7.7	6.0	6.6
DALSA 1618	6.3	8.7	7.0	99.0	99.0	91.1	9.0	6.4	6.3	6.6
RALEIGH	6.0	7.0	6.3	96.7	96.7	88.3	9.0	7.4	6.7	6.7
UGA/TX SA26	6.7	7.0	6.4	98.3	99.0	94.9	9.0	6.6	6.0	6.6
DALSA 1404	7.3	8.0	7.1	99.0	99.0	92.2	9.0	7.9	5.3	6.3
DALSA 1623	6.3	8.3	6.4	97.5	97.5	93.6	9.0	7.0	6.3	6.3
XSA10403	6.7	7.7	7.0	99.0	99.0	92.2	9.0	6.9	5.7	6.3
FSA 1603	7.0	8.0	7.0	96.7	97.5	91.8	9.0	6.6	5.0	6.7
FSA 1611	6.0	7.3	6.1	99.0	99.0	98.0	9.0	7.9	5.0	6.3
FSA 1612	5.7	7.0	6.2	99.0	99.0	93.9	9.0	7.3	5.0	6.1
DALSA 1502	6.0	7.3	6.2	95.2	99.0	84.7	9.0	6.3	5.3	5.9
DALSA 1316	5.3	7.0	5.7	95.0	95.8	84.4	9.0	6.1	5.3	5.7
DALSA 1323	5.0	7.3	5.9	94.3	96.0	89.7	7.3	5.8	5.3	6.1
LSD VALUE	1.7	1.6	0.7	7.6	5.6	13.3	1.8	2.3	1.2	0.9
C.V. (%)	13.3	9.7	11.6	3.4	2.4	10.9	6.2	25.8	11.5	14.4

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 11.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ST. AUGUSTINEGRASS CULTIVARS  
 IN THE 2016 NATIONAL ST. AUGUSTINEGRASS TEST AT COLLEGE STATION (DROUGHT), TX 1/  
 2017-20 DATA

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

NAME	GENETIC			WINTER				PERCENT ESTABLISHMENT			QUALITY RATINGS								
	COLOR	SPRING GREENUP	LEAF TEXTURE	COLOR	WILTING	DORMANCY	RECOVERY	AUGUST	OCTOBER	NOVEMBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
DALSA 1618	6.8	5.6	5.5	4.8	6.1	3.7	7.0	20.0	58.3	93.3	6.7	6.6	6.8	6.9	6.8	6.7	6.3	6.7	6.7
DALSA 1502	6.5	5.9	5.2	5.4	6.0	4.0	6.8	21.7	51.7	76.7	7.0	6.7	6.7	6.6	6.7	6.6	6.4	6.7	6.6
DALSA 1501	6.0	5.8	5.8	5.0	6.0	4.7	6.8	25.0	68.3	88.0	6.7	6.5	6.3	6.3	6.3	6.3	6.2	6.0	6.4
DALSA 1623	6.3	5.7	5.6	4.1	6.3	4.3	6.5	23.3	78.3	94.3	6.0	6.2	6.4	6.9	6.8	6.2	6.3	6.7	6.4
FSA 1613	6.4	5.3	5.2	4.6	5.3	2.7	6.5	18.3	51.7	89.7	6.3	6.0	6.1	6.4	6.7	6.7	6.5	6.7	6.4
DALSA 1404	6.1	5.9	5.2	4.4	5.7	4.7	7.0	26.7	65.0	89.7	6.5	6.2	6.5	6.4	6.3	6.1	6.3	6.3	6.3
PALMETTO	6.3	6.5	6.0	4.8	4.6	1.3	5.5	18.3	66.7	93.0	6.5	6.2	6.3	6.3	5.8	6.1	6.0	7.0	6.2
UGA/TX SA26	6.3	5.8	5.5	4.6	5.1	1.3	5.3	23.3	73.3	94.7	6.2	6.3	6.3	6.1	6.5	6.3	6.0	6.3	6.2
FSA 1606	6.5	5.2	6.2	4.7	4.7	1.7	5.7	28.3	71.7	96.3	6.3	5.7	5.6	6.4	5.8	6.5	6.3	6.0	6.1
FLORATAM	6.8	4.9	5.2	5.1	5.4	2.3	6.0	18.3	66.7	94.7	6.2	5.5	5.5	6.3	6.4	6.5	6.0	6.7	6.0
FSA 1604	6.7	4.8	6.0	4.3	5.0	2.7	5.3	25.0	55.0	93.0	6.0	5.2	6.0	6.4	6.0	6.3	6.0	6.3	6.0
FSA 1608	6.0	5.8	6.0	4.9	4.8	2.0	5.7	20.0	55.0	88.0	6.0	6.0	6.0	5.9	5.8	6.1	5.7	6.7	6.0
FSA 1609	6.6	4.3	6.5	4.3	4.9	2.0	4.8	25.0	63.3	84.7	6.0	5.7	6.3	6.0	6.0	6.1	5.9	6.0	6.0
FSA 1607	7.1	5.3	6.4	4.6	4.8	2.3	5.7	20.0	45.0	75.0	6.5	5.5	5.8	6.1	5.2	5.8	6.1	6.0	5.9
FSA 1601	7.2	5.0	7.3	4.3	4.8	2.0	4.8	21.7	55.0	81.7	6.7	5.4	6.3	5.4	4.8	6.1	5.8	6.0	5.8
FSA 1603	6.6	4.9	6.3	4.4	4.5	1.0	5.0	21.7	41.7	70.0	6.6	5.8	5.9	5.7	4.3	6.0	5.8	7.0	5.8
FSA 1610	6.8	4.7	6.3	4.2	4.9	2.0	5.0	18.3	53.3	91.7	5.5	5.2	5.9	6.2	5.8	6.3	6.0	5.7	5.8
FSA 1614	6.4	4.8	5.0	4.7	5.0	3.0	5.8	33.3	81.7	94.7	6.2	5.3	5.8	6.0	5.5	6.0	5.7	6.0	5.8
FSA 1605	6.7	4.7	6.3	3.9	4.9	1.3	5.5	23.3	43.3	78.3	6.2	5.5	5.5	5.6	5.5	5.8	5.7	7.0	5.7
RALEIGH	6.1	6.3	5.5	4.4	4.5	1.5	5.2	21.7	50.0	93.3	6.4	5.6	5.4	5.7	5.8	5.9	5.5	6.0	5.7
CITRABLUE (FSA 1602)	6.2	5.1	5.6	5.3	5.5	3.0	6.6	23.3	53.3	75.0	5.8	5.2	5.6	5.4	5.3	5.7	5.9	6.0	5.6
DALSA 1316	5.7	5.3	5.2	4.6	5.6	3.7	5.5	30.0	65.0	96.3	5.8	5.6	5.3	6.2	5.5	5.5	5.5	6.3	5.6
XSA11168	5.7	4.5	5.6	4.0	4.7	3.7	5.8	25.0	79.7	99.0	5.0	4.9	5.5	5.4	6.0	5.8	5.6	6.0	5.5
FSA 1611	5.8	4.3	5.6	4.6	4.5	2.0	5.7	25.0	56.7	96.3	5.7	4.7	5.0	5.3	4.0	5.5	5.5	6.0	5.2
DALSA 1323	5.4	5.0	5.9	4.1	5.2	2.7	5.7	23.3	48.3	83.0	5.7	5.0	5.0	5.1	4.5	5.3	5.0	5.0	5.1
FSA 1612	5.8	3.9	5.2	4.1	4.6	2.7	5.5	35.0	73.3	97.7	5.3	4.5	4.6	4.9	4.8	5.2	5.3	5.7	5.0
XSA10403	5.3	3.8	5.7	4.1	4.2	2.0	4.8	35.0	85.0	99.0	4.7	3.8	4.5	4.8	3.4	4.9	4.7	6.0	4.5
LSD VALUE	0.5	0.7	0.4	3.0	0.7	1.6	1.6	9.8	23.3	13.3	1.2	0.9	0.9	1.0	1.5	0.9	0.7	1.1	0.6
C.V. (%)	9.5	16.5	9.0	28.7	16.6	34.2	19.6	21.4	20.5	8.5	14.3	19.7	18.0	16.1	19.5	15.7	13.9	8.0	12.7

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 12.

GENETIC COLOR RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

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

NAME	AL1	FL3	FL5	GA1	MS1	TX1	MEAN
CITRABLU (FSA 1602)	8.3	8.7	8.3	6.4	7.1	7.4	7.6
FSA 1601	7.4	6.0	9.0	6.7	6.8	7.7	7.4
FSA 1605	5.9	7.0	9.0	6.6	6.3	6.8	6.8
FSA 1610	5.5	7.0	8.7	6.8	6.2	6.9	6.7
DALSA 1618	7.3	6.0	7.7	6.4	5.6	6.7	6.7
FSA 1603	5.7	8.3	7.7	6.3	6.3	6.8	6.5
FSA 1609	6.0	7.0	7.0	6.4	6.1	6.7	6.4
FSA 1606	5.8	8.3	8.0	6.2	5.8	5.7	6.3
FLORATAM	6.9	6.3	7.7	6.0	5.6	5.3	6.3
FSA 1604	5.8	7.7	7.0	6.3	5.8	6.4	6.3
DALSA 1501	6.5	6.0	7.0	6.0	5.8	6.4	6.3
FSA 1614	6.2	6.0	8.3	6.2	5.6	5.6	6.3
FSA 1613	6.5	5.7	7.7	6.6	5.8	5.1	6.3
FSA 1607	5.6	7.0	7.0	6.3	5.9	6.4	6.2
DALSA 1502	6.4	6.7	7.7	6.0	5.3	5.8	6.2
DALSA 1623	6.2	6.0	7.0	6.1	5.2	6.8	6.2
PALMETTO	5.4	6.7	8.0	6.3	5.7	5.6	6.2
RALEIGH	5.0	7.0	8.0	6.2	5.7	5.9	6.1
FSA 1608	5.5	7.0	7.3	6.0	5.8	5.9	6.1
UGA/TX SA26	5.3	7.0	7.3	6.6	5.8	5.2	6.0
DALSA 1404	5.9	6.3	6.3	6.0	5.1	5.8	5.8
DALSA 1323	4.3	5.7	6.7	6.2	5.1	6.4	5.6
FSA 1611	4.9	7.3	7.3	6.1	4.9	4.4	5.6
XSA10403	4.8	6.7	7.0	6.1	4.9	4.4	5.5
DALSA 1316	4.9	6.3	6.7	6.2	4.4	4.9	5.4
FSA 1612	5.2	5.3	6.7	6.0	4.8	4.6	5.4
XSA11168	4.5	5.7	7.0	6.0	4.5	4.3	5.2
LSD VALUE	2.1	1.2	0.8	0.7	0.6	0.9	0.6
C.V. (%)	22.4	11.1	6.8	6.8	6.7	9.7	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.

 SPRING GREENUP RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
 2016-20 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/

NAME	AL1	FL3	FL5	GA1	MS1	NC1	TX1	MEAN
UGA/TX SA26	4.7	6.1	7.3	4.7	4.4	5.0	3.8	5.1
PALMETTO	4.1	5.7	7.0	4.3	4.8	4.6	3.8	4.9
DALSA 1618	3.9	5.3	8.3	5.5	3.8	4.6	3.2	4.8
DALSA 1502	4.0	5.9	7.0	5.3	4.1	4.6	3.3	4.8
RALEIGH	4.2	4.8	6.7	5.0	4.6	5.7	3.2	4.7
FSA 1608	4.3	5.3	7.0	4.7	4.8	4.4	3.0	4.7
FSA 1601	3.6	5.3	8.7	5.5	4.1	2.8	2.6	4.5
FSA 1613	3.3	4.6	7.3	4.8	4.5	5.1	2.3	4.5
DALSA 1623	2.8	5.0	8.3	5.0	3.8	4.0	2.9	4.5
FSA 1610	2.4	5.7	8.7	5.2	3.3	2.7	2.8	4.4
DALSA 1501	3.1	4.8	7.3	5.2	3.3	4.0	2.7	4.3
DALSA 1323	2.0	5.1	7.0	4.3	4.1	3.9	3.1	4.3
FSA 1603	2.0	5.5	8.0	5.2	3.4	2.9	2.4	4.2
DALSA 1316	2.7	5.9	7.0	4.3	3.3	3.7	2.5	4.2
DALSA 1404	2.2	5.1	8.3	4.7	3.1	3.4	2.7	4.2
FSA 1614	3.0	5.7	7.3	4.3	3.5	3.0	2.4	4.2
FSA 1604	2.6	5.4	7.7	4.8	3.3	2.6	2.1	4.1
CITRABLUE (FSA 1602)	3.1	5.3	8.3	4.7	2.8	2.9	2.0	4.1
FSA 1607	2.7	5.3	7.0	4.3	3.0	3.1	2.6	4.0
FSA 1606	2.2	5.4	7.3	4.7	3.0	2.6	2.3	3.9
FSA 1609	2.3	4.5	7.0	4.8	3.2	2.6	2.3	3.8
FSA 1605	1.9	5.5	7.3	4.8	3.2	2.1	1.8	3.8
FLORATAM	2.4	4.8	7.0	4.7	2.5	2.1	1.8	3.6
XSA10403	2.4	4.4	7.3	4.3	2.5	2.2	1.7	3.5
XSA11168	2.1	4.3	7.0	4.7	2.3	2.1	1.6	3.4
FSA 1611	1.6	3.8	7.0	5.2	2.4	1.4	1.2	3.2
FSA 1612	1.2	3.6	7.0	4.7	2.1	1.4	1.1	2.9
LSD VALUE	1.4	1.7	0.8	1.3	0.9	1.3	0.9	0.5
C.V. (%)	30.2	24.8	6.3	17.7	17.8	24.2	23.2	19.2

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 14.

LEAF TEXTURE RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

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

NAME	AL1	FL5	MS1	TX1	MEAN
FSA 1610	7.2	4.0	6.0	5.8	5.8
FSA 1603	6.8	3.7	6.5	5.8	5.8
FSA 1601	7.3	3.7	5.8	5.7	5.7
XSA10403	6.8	3.0	5.8	5.8	5.5
FSA 1609	6.0	3.3	6.1	5.9	5.4
FSA 1605	6.4	3.0	5.6	6.0	5.3
XSA11168	6.0	3.0	5.6	5.9	5.2
FSA 1604	4.8	3.7	5.8	5.6	5.0
PALMETTO	5.5	3.3	5.4	5.2	4.9
UGA/TX SA26	4.8	4.0	5.4	4.7	4.8
FSA 1608	5.0	3.7	5.3	4.8	4.7
FSA 1607	4.9	3.0	5.5	5.1	4.7
RALEIGH	4.6	3.0	5.3	4.7	4.4
FSA 1606	4.1	3.0	5.3	5.1	4.4
FSA 1611	3.8	2.7	4.8	4.4	4.0
FSA 1613	2.7	2.7	5.4	4.8	3.9
DALSA 1501	3.5	2.0	5.3	4.0	3.8
DALSA 1323	3.8	2.3	4.7	4.0	3.7
DALSA 1404	2.2	2.3	4.7	3.9	3.3
DALSA 1316	2.4	2.0	4.8	3.7	3.2
CITRABLUE (FSA 1602)	1.6	3.3	4.2	4.2	3.2
FSA 1612	2.5	2.0	4.2	4.1	3.2
DALSA 1623	1.8	2.3	4.6	3.6	3.1
DALSA 1502	2.0	2.0	4.8	3.3	3.0
FLORATAM	2.5	2.7	3.5	3.6	3.0
DALSA 1618	1.3	2.3	4.7	3.8	3.0
FSA 1614	1.1	2.7	3.9	3.9	2.8
LSD VALUE	1.4	0.7	0.8	0.9	0.6
C.V. (%)	21.1	14.8	9.7	13.7	15.1

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 15.

SPRING DENSITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

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

NAME	FL3	FL5	MEAN
CITRABLUE (FSA 1602)	6.5	8.7	6.7
DALSA 1501	6.5	7.7	6.6
DALSA 1618	6.6	7.0	6.6
FSA 1601	6.2	7.7	6.4
FSA 1613	6.2	7.7	6.3
FSA 1610	6.1	8.0	6.3
UGA/TX SA26	6.0	7.3	6.2
FSA 1608	6.1	7.0	6.2
DALSA 1502	6.1	6.7	6.2
FSA 1603	5.9	7.3	6.1
FSA 1607	5.8	8.3	6.1
FSA 1614	6.1	6.7	6.1
XSA11168	5.8	8.0	6.1
PALMETTO	5.8	7.7	6.0
DALSA 1404	5.8	7.7	6.0
DALSA 1316	6.0	6.0	6.0
FSA 1604	5.8	7.3	6.0
RALEIGH	5.7	7.0	5.8
DALSA 1323	5.8	5.7	5.8
FSA 1605	5.6	7.3	5.8
FSA 1609	5.6	8.0	5.8
FSA 1606	5.4	8.3	5.8
DALSA 1623	5.7	6.7	5.6
FLORATAM	5.3	7.0	5.4
XSA10403	5.3	7.0	5.4
FSA 1611	5.0	6.7	5.2
FSA 1612	4.7	6.7	5.0
LSD VALUE	1.2	1.7	1.2
C.V. (%)	13.4	14.4	14.2

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 16.

SUMMER DENSITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/				
NAME	FL3	FL5	TX1	MEAN
DALSA 1502	7.4	8.0	8.1	7.7
DALSA 1618	7.4	9.0	7.2	7.6
CITRABLUE (FSA 1602)	7.8	9.0	6.1	7.5
DALSA 1623	6.9	9.0	7.7	7.4
DALSA 1404	6.9	8.3	7.4	7.3
DALSA 1501	7.2	8.3	7.4	7.3
DALSA 1323	6.8	8.0	7.9	7.3
FSA 1608	7.0	7.7	7.2	7.2
FSA 1609	7.0	7.3	7.0	7.1
FSA 1610	6.8	8.7	6.8	7.1
FSA 1603	7.0	8.3	6.7	7.0
DALSA 1316	6.6	8.3	7.3	7.0
FSA 1607	6.8	8.0	6.9	7.0
FSA 1601	6.8	9.0	6.7	7.0
FSA 1613	6.8	8.0	6.6	6.9
FSA 1614	6.7	8.7	6.3	6.8
FSA 1604	6.4	8.0	7.2	6.8
FSA 1605	6.3	8.0	6.9	6.6
FSA 1606	6.4	8.0	6.4	6.6
PALMETTO	6.4	8.0	6.4	6.5
UGA/TX SA26	6.4	7.7	6.3	6.5
RALEIGH	6.2	8.0	6.8	6.4
XSA10403	6.7	7.7	5.7	6.4
FLORATAM	6.3	8.3	6.0	6.3
XSA11168	6.6	7.3	4.8	6.0
FSA 1611	5.9	7.3	5.1	5.8
FSA 1612	5.4	7.7	4.9	5.4
LSD VALUE	1.2	0.8	1.0	0.8
C.V. (%)	10.7	6.1	9.6	9.9

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 17.

FALL DENSITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

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

NAME	FL3	FL5	MEAN
CITRABLUE (FSA 1602)	8.1	8.2	8.0
FSA 1610	7.4	8.6	7.8
FSA 1601	7.2	8.2	7.6
FSA 1609	7.3	7.8	7.5
FSA 1603	7.1	7.7	7.4
FSA 1607	7.2	7.7	7.3
XSA11168	6.8	7.9	7.3
DALSA 1501	7.4	7.0	7.3
FSA 1606	6.7	8.2	7.2
FSA 1604	6.9	7.4	7.2
PALMETTO	6.8	7.7	7.1
DALSA 1618	7.1	7.2	7.1
DALSA 1404	7.0	7.3	7.1
DALSA 1502	7.1	6.8	7.0
XSA10403	6.8	7.3	7.0
FSA 1605	6.5	7.4	7.0
FSA 1614	6.8	7.0	6.9
DALSA 1623	7.0	6.9	6.9
FSA 1613	6.8	7.1	6.9
FSA 1608	6.7	6.9	6.8
UGA/TX SA26	6.3	7.2	6.8
FSA 1611	6.5	6.4	6.7
DALSA 1316	6.8	6.1	6.6
RALEIGH	6.3	6.8	6.6
FLORATAM	6.3	6.9	6.5
DALSA 1323	6.4	6.3	6.5
FSA 1612	5.6	6.6	6.0
LSD VALUE	1.2	1.3	0.9
C.V. (%)	10.5	11.0	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 18. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/					
NAME	FL5	MS1	NC1	TX1	MEAN
UGA/TX SA26	99.0	77.5	85.0	69.2	81.0
RALEIGH	99.0	73.8	89.8	62.5	78.6
PALMETTO	99.0	75.6	82.0	60.8	77.9
FSA 1608	97.5	73.3	78.3	55.8	74.1
FSA 1613	99.0	75.3	79.5	43.3	72.5
DALSA 1618	99.0	62.9	70.0	55.0	68.2
DALSA 1502	96.7	70.4	50.0	50.8	67.0
FSA 1601	99.0	65.8	49.2	37.5	61.4
DALSA 1323	96.7	58.8	56.7	39.2	60.3
DALSA 1623	95.8	57.9	59.2	40.0	60.3
FSA 1614	99.0	54.6	56.7	39.2	58.9
DALSA 1501	99.0	59.6	40.0	35.8	57.1
FSA 1606	99.0	52.1	43.3	41.7	56.2
DALSA 1404	99.0	47.9	52.5	40.8	55.1
CITRABLUE (FSA 1602)	99.0	51.7	60.0	25.0	54.0
FSA 1610	99.0	52.1	30.8	42.5	54.0
DALSA 1316	97.5	49.3	45.0	36.7	53.2
FSA 1603	97.5	52.9	31.0	36.7	52.3
FSA 1607	99.0	41.0	37.2	44.2	51.1
FSA 1604	99.0	50.0	27.5	33.3	50.0
FSA 1605	99.0	48.9	32.2	27.5	49.6
FSA 1609	99.0	44.2	25.8	36.7	48.4
XSA11168	99.0	40.4	23.0	34.2	46.2
XSA10403	99.0	37.2	30.0	35.3	46.1
FLORATAM	99.0	36.7	25.0	30.0	43.5
FSA 1611	99.0	33.6	16.5	10.7	36.2
FSA 1612	99.0	27.2	4.8	10.7	31.4
LSD VALUE	2.8	16.4	25.0	20.1	11.7
C.V. (%)	1.8	23.2	32.8	33.2	21.7

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 19. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	FL5	NC1	MEAN
RALEIGH	99.0	98.3	98.7
UGA/TX SA26	99.0	96.5	97.8
FSA 1613	99.0	92.8	95.9
PALMETTO	99.0	92.2	95.6
FSA 1608	99.0	89.5	94.3
DALSA 1618	98.3	88.0	93.2
CITRABLUE (FSA 1602)	99.0	85.8	92.4
DALSA 1404	99.0	80.8	89.9
DALSA 1323	99.0	80.7	89.8
FSA 1614	99.0	80.0	89.5
FSA 1601	99.0	76.5	87.8
DALSA 1623	99.0	75.8	87.4
FSA 1606	99.0	73.3	86.2
DALSA 1502	99.0	65.5	82.3
FSA 1609	99.0	65.0	82.0
DALSA 1316	97.5	64.2	80.8
FSA 1610	99.0	62.5	80.8
FSA 1607	99.0	58.3	78.7
DALSA 1501	99.0	57.0	78.0
XSA10403	99.0	56.7	77.8
FSA 1603	99.0	54.2	76.6
FSA 1604	99.0	52.5	75.8
FLORATAM	99.0	50.0	74.5
XSA11168	99.0	49.2	74.1
FSA 1605	99.0	48.3	73.7
FSA 1611	99.0	30.8	64.9
FSA 1612	99.0	20.8	59.9
LSD VALUE	0.9	24.1	12.1
C.V. (%)	0.6	22.1	12.7

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.

PERCENT LIVING GROUND COVER (FALL) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

## PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	FL5	NC1	MEAN
CITRABLUE (FSA 1602)	99.0	99.0	99.0
FSA 1609	99.0	99.0	99.0
FSA 1613	98.9	99.0	98.9
FSA 1606	99.0	97.7	98.8
XSA11168	99.0	97.7	98.8
FSA 1604	98.6	96.0	98.1
FLORATAM	98.9	91.7	97.7
FSA 1610	97.6	97.7	97.6
DALSA 1501	98.0	90.7	96.6
FSA 1608	96.3	99.0	96.3
PALMETTO	95.8	99.0	95.8
FSA 1614	95.4	99.0	95.7
DALSA 1404	95.6	99.0	95.6
UGA/TX SA26	94.8	99.0	95.6
FSA 1611	98.6	75.0	94.8
XSA10403	94.8	99.0	94.8
FSA 1607	99.0	73.3	94.7
DALSA 1618	93.9	99.0	94.6
FSA 1601	93.9	99.0	94.6
FSA 1612	95.7	85.0	94.0
DALSA 1623	94.2	94.3	93.7
DALSA 1502	90.8	91.7	92.2
FSA 1603	92.9	81.7	91.8
DALSA 1323	89.1	95.3	90.9
RALEIGH	89.9	99.0	90.4
DALSA 1316	87.8	97.7	90.0
FSA 1605	88.3	80.0	87.6
LSD VALUE	13.0	9.8	11.4
C.V. (%)	8.5	6.5	8.3

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.

WINTER COLOR RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2017 DATA

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

NAME	FL3
DALSA 1623	4.3
DALSA 1618	4.0
XSA10403	4.0
FSA 1609	3.7
FSA 1614	3.7
PALMETTO	3.7
RALEIGH	3.7
DALSA 1502	3.3
FSA 1606	3.3
FSA 1607	3.3
DALSA 1323	3.0
FSA 1603	3.0
FSA 1605	3.0
UGA/TX SA26	3.0
DALSA 1316	2.7
DALSA 1404	2.7
FSA 1608	2.7
CITRABLUE (FSA 1602)	2.3
DALSA 1501	2.3
FLORATAM	2.3
FSA 1604	2.3
FSA 1610	2.3
FSA 1601	2.0
FSA 1611	2.0
FSA 1612	2.0
FSA 1613	2.0
XSA11168	2.0
LSD VALUE	1.0
C.V. (%)	21.2

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 22.

PERCENT WINTER KILL RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2018-19 DATA

## PERCENT WINTER KILL RATINGS: LOCATIONS 2/

NAME	TX1
FSA 1612	90.0
FSA 1611	88.3
XSA10403	84.2
XSA11168	83.3
FSA 1604	76.7
FSA 1606	75.8
FLORATAM	69.2
FSA 1605	66.7
FSA 1609	60.0
FSA 1603	50.8
FSA 1610	50.8
FSA 1613	46.7
FSA 1614	45.0
CITRABLUE (FSA 1602)	43.3
FSA 1601	43.3
FSA 1607	40.8
DALSA 1316	39.2
DALSA 1623	36.7
DALSA 1404	35.8
RALEIGH	32.5
FSA 1608	29.2
DALSA 1323	28.3
DALSA 1501	28.3
PALMETTO	25.8
DALSA 1502	22.5
UGA/TX SA26	20.8
DALSA 1618	20.0
LSD VALUE	21.9
C.V. (%)	27.8

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 23.

WINTER KILL RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2018-19 DATA

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

NAME	AL1	FL3	MEAN
UGA/TX SA26	8.3	7.7	8.0
PALMETTO	8.3	7.0	7.7
DALSA 1502	8.7	6.3	7.5
RALEIGH	8.0	7.0	7.5
FSA 1608	8.0	6.3	7.2
FSA 1613	8.3	4.3	6.3
DALSA 1501	7.7	4.7	6.2
DALSA 1618	7.3	5.0	6.2
FSA 1607	6.3	6.0	6.2
FSA 1614	6.0	6.0	6.0
CITRABLUE (FSA 1602)	7.7	4.0	5.8
DALSA 1316	5.0	6.7	5.8
DALSA 1623	6.3	5.3	5.8
FSA 1601	6.3	4.7	5.5
FSA 1605	5.0	6.0	5.5
FSA 1606	5.3	5.3	5.3
FSA 1603	5.7	4.7	5.2
DALSA 1404	4.7	5.3	5.0
FSA 1610	6.3	3.3	4.8
FLORATAM	5.0	4.3	4.7
FSA 1604	4.0	5.3	4.7
DALSA 1323	2.3	6.0	4.2
XSA11168	4.0	3.7	3.8
FSA 1611	1.7	4.3	3.0
XSA10403	2.3	3.7	3.0
FSA 1612	2.0	3.3	2.7
FSA 1609	1.7	3.3	2.5
LSD VALUE	2.8	2.3	2.5
C.V. (%)	30.3	27.4	28.9

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 24.

BROWN PATCH (WARM TEMPERATURE) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	2020	2018	MEAN
	MS1	TX1	
CITRABLUE (FSA 1602)	8.0	9.0	8.5
FLORATAM	8.0	9.0	8.5
FSA 1604	8.0	9.0	8.5
FSA 1613	7.7	9.0	8.3
FSA 1603	8.0	8.3	8.2
FSA 1606	8.0	8.3	8.2
FSA 1611	8.0	8.3	8.2
UGA/TX SA26	8.0	8.3	8.2
RALEIGH	7.7	8.7	8.2
DALSA 1618	7.0	9.0	8.0
FSA 1605	8.0	8.0	8.0
FSA 1608	7.0	9.0	8.0
FSA 1614	8.0	8.0	8.0
PALMETTO	7.7	8.3	8.0
XSA10403	7.7	8.3	8.0
DALSA 1323	6.7	9.0	7.8
FSA 1612	8.0	7.7	7.8
FSA 1610	7.0	8.7	7.8
DALSA 1501	7.3	8.0	7.7
XSA11168	8.0	7.3	7.7
DALSA 1502	7.0	8.0	7.5
FSA 1609	7.0	7.7	7.3
DALSA 1404	7.3	7.0	7.2
FSA 1607	5.7	8.7	7.2
DALSA 1623	4.7	8.7	6.7
DALSA 1316	3.7	8.3	6.0
FSA 1601	8.0	3.7	5.8
LSD VALUE	2.3	1.7	2.0
C.V. (%)	19.6	12.6	16.1

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 25.

FAIRY RING RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2018 DATA

FAIRY RING RATINGS 1-9; 9=NO DISEASE 2/

NAME	FL5
CITRABLU (FSA 1602)	9.0
DALSA 1316	9.0
DALSA 1404	9.0
DALSA 1501	9.0
DALSA 1502	9.0
DALSA 1618	9.0
DALSA 1623	9.0
FLORATAM	9.0
FSA 1601	9.0
FSA 1603	9.0
FSA 1604	9.0
FSA 1605	9.0
FSA 1606	9.0
FSA 1607	9.0
FSA 1608	9.0
FSA 1609	9.0
FSA 1610	9.0
FSA 1611	9.0
FSA 1612	9.0
FSA 1613	9.0
FSA 1614	9.0
PALMETTO	9.0
RALEIGH	9.0
UGA/TX SA26	9.0
XSA10403	9.0
XSA11168	9.0
DALSA 1323	7.7
LSD VALUE	0.7
C.V. (%)	5.0

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 26.

GRAY LEAF SPOT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

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

NAME	FL5	MS1	NC1	TX1	MEAN
CITRABLUE (FSA 1602)	9.0	7.3	8.0	5.3	8.3
FSA 1610	9.0	7.3	6.7	5.7	7.9
XSA11168	8.9	5.3	6.6	7.7	7.7
DALSA 1404	8.4	7.3	7.3	4.3	7.7
DALSA 1618	7.9	7.7	7.4	6.7	7.7
FSA 1609	8.6	7.3	6.7	5.7	7.6
FSA 1601	7.8	7.7	7.2	4.3	7.4
FSA 1604	8.6	7.3	6.4	5.3	7.4
FSA 1613	8.9	3.3	5.9	6.3	7.2
FSA 1606	9.0	5.7	5.0	6.3	7.1
FSA 1611	8.7	5.0	5.7	5.0	7.1
DALSA 1501	7.9	6.0	6.9	5.3	7.0
PALMETTO	8.6	4.3	5.1	6.3	6.9
DALSA 1623	7.4	6.7	7.1	4.3	6.9
FSA 1614	7.9	4.3	6.2	5.3	6.8
XSA10403	7.7	6.3	5.7	6.7	6.7
DALSA 1502	7.1	6.7	6.2	5.0	6.7
FLORATAM	8.3	3.7	5.1	6.7	6.6
FSA 1603	7.6	5.7	5.1	5.3	6.6
FSA 1612	7.7	5.7	5.6	5.0	6.5
FSA 1608	7.8	3.3	5.4	7.0	6.4
FSA 1605	7.2	4.7	5.2	5.0	6.4
DALSA 1316	7.2	5.7	5.1	4.7	6.3
FSA 1607	8.8	3.7	3.3	6.0	6.2
RALEIGH	7.3	3.3	4.8	6.7	6.1
UGA/TX SA26	6.9	4.0	5.2	6.7	5.9
DALSA 1323	6.3	6.0	4.1	5.3	5.6
LSD VALUE	2.8	1.3	1.7	1.2	1.8
C.V. (%)	21.5	14.0	18.9	12.8	19.8

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 27.

FALL COLOR (SEPTEMBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

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

NAME	AL1	FL3	FL5	GA1	MEAN
CITRABLUE (FSA 1602)	6.8	8.4	9.0	6.7	7.7
FSA 1601	7.3	7.1	7.7	6.9	7.2
FLORATAM	6.8	7.2	7.0	6.2	6.8
FSA 1604	5.3	7.1	7.3	6.8	6.8
FSA 1606	4.7	7.1	8.3	6.8	6.7
FSA 1610	4.7	7.3	7.3	6.9	6.7
FSA 1613	7.3	6.4	7.0	6.6	6.7
FSA 1603	5.7	7.6	6.3	6.3	6.7
DALSA 1618	6.7	6.9	6.7	6.3	6.7
FSA 1605	4.5	7.1	8.0	6.6	6.6
FSA 1614	5.2	6.9	7.7	6.3	6.5
DALSA 1502	6.3	6.4	7.0	6.4	6.5
FSA 1609	5.0	6.6	7.3	6.8	6.4
FSA 1607	5.0	6.7	7.3	6.3	6.4
DALSA 1501	6.0	6.6	6.7	6.0	6.3
DALSA 1404	6.3	6.2	7.0	6.1	6.3
UGA/TX SA26	4.5	6.5	6.7	6.8	6.3
FSA 1611	6.7	5.9	6.3	6.3	6.2
PALMETTO	4.3	6.3	7.0	6.7	6.2
DALSA 1623	6.0	6.3	6.7	6.0	6.2
DALSA 1316	7.0	5.8	6.3	6.2	6.1
FSA 1608	4.7	6.5	6.3	6.2	6.1
FSA 1612	7.0	6.1	5.3	6.0	6.1
XSA10403	5.0	6.2	7.0	6.2	6.1
RALEIGH	3.8	6.5	6.7	6.4	6.0
DALSA 1323	4.3	5.8	6.3	6.6	5.8
XSA11168	4.7	6.1	6.3	6.0	5.8
LSD VALUE	2.3	1.0	1.2	0.8	0.8
C.V. (%)	25.9	9.4	10.8	7.5	12.4

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 28.

FALL COLOR (OCTOBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

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

NAME	FL3	GA1	TX1	MEAN
CITRABLU (FSA 1602)	7.9	6.7	5.3	7.3
FSA 1606	7.0	6.6	6.0	6.8
FSA 1603	7.6	6.3	3.7	6.8
FSA 1604	7.3	6.4	5.3	6.8
FSA 1610	7.2	6.7	5.0	6.8
FSA 1614	7.2	6.2	6.3	6.7
DALSA 1618	6.8	6.3	7.3	6.7
FSA 1608	6.9	6.2	6.3	6.6
FSA 1605	6.9	6.4	5.7	6.6
FSA 1607	6.8	6.2	5.3	6.6
FSA 1609	6.8	6.6	4.3	6.5
PALMETTO	6.7	6.7	5.0	6.4
FLORATAM	6.8	6.2	4.7	6.4
DALSA 1502	6.3	6.3	6.7	6.3
FSA 1601	6.6	6.8	4.3	6.3
FSA 1613	6.3	6.6	5.0	6.3
DALSA 1501	6.6	6.0	6.3	6.3
DALSA 1323	6.2	6.4	5.7	6.2
RALEIGH	6.3	6.3	4.7	6.2
UGA/TX SA26	6.3	6.4	4.3	6.1
DALSA 1623	6.1	6.1	6.0	6.1
DALSA 1404	6.2	6.0	6.0	6.0
FSA 1611	6.3	6.3	3.3	5.9
DALSA 1316	5.8	6.2	5.7	5.8
XSA10403	5.9	6.2	3.0	5.7
FSA 1612	5.8	6.1	3.7	5.7
XSA11168	5.7	6.0	2.7	5.4
LSD VALUE	0.9	0.8	1.9	0.7
C.V. (%)	8.4	8.1	23.2	9.7

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 29.

FALL COLOR (NOVEMBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

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

NAME	2020	2017	2017	2017	MEAN
	AL1	FL3	NC1	TX1	
CITRABLU (FSA 1602)	8.7	7.0	4.3	4.3	6.9
FSA 1605	8.0	6.7	4.0	4.0	6.4
FSA 1606	7.7	7.0	4.3	4.3	6.4
FSA 1604	7.7	7.3	4.0	3.3	6.3
FSA 1610	7.7	6.7	3.3	4.0	6.2
DALSA 1623	6.0	5.7	5.0	4.7	5.6
FSA 1601	7.0	4.3	4.0	3.3	5.4
FLORATAM	6.0	6.7	4.0	3.3	5.3
FSA 1614	6.0	6.0	4.0	3.3	5.2
DALSA 1618	5.3	5.7	4.3	4.7	5.1
DALSA 1501	4.3	6.3	4.7	5.7	4.9
FSA 1613	5.7	5.0	4.0	3.7	4.9
XSA11168	6.0	5.3	4.0	2.3	4.9
FSA 1609	5.7	5.3	3.3	3.3	4.8
FSA 1603	4.0	8.0	4.0	4.7	4.8
DALSA 1404	4.3	5.3	4.7	4.7	4.6
DALSA 1502	2.7	7.0	6.7	5.7	4.6
DALSA 1316	3.7	6.3	5.0	4.3	4.4
FSA 1607	3.7	7.0	4.0	4.0	4.3
FSA 1611	4.3	6.3	3.7	3.0	4.3
PALMETTO	3.7	5.7	4.3	5.0	4.3
FSA 1608	3.3	6.3	4.3	5.0	4.3
UGA/TX SA26	3.0	7.3	4.3	4.7	4.2
XSA10403	4.3	5.3	4.0	3.0	4.2
RALEIGH	2.3	6.7	4.0	4.3	3.7
DALSA 1323	2.7	5.0	4.7	4.0	3.6
FSA 1612	3.0	5.0	4.0	3.0	3.5
LSD VALUE	1.9	1.0	0.9	1.0	1.2
C.V. (%)	23.4	10.4	13.0	14.7	17.9

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 30.

FALL COLOR (DECEMBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

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

NAME	FL5	TX1	MEAN
FSA 1606	8.1	5.3	7.4
FSA 1610	8.6	4.0	7.4
CITRABLUE (FSA 1602)	8.3	4.0	7.3
PALMETTO	7.4	5.3	6.9
FSA 1601	7.7	4.3	6.8
DALSA 1501	7.2	5.3	6.8
FSA 1605	7.6	4.3	6.8
FSA 1607	7.2	5.3	6.8
FSA 1608	7.1	5.7	6.8
DALSA 1618	7.1	5.3	6.7
UGA/TX SA26	7.1	5.3	6.7
DALSA 1404	6.9	5.7	6.6
FSA 1613	7.4	4.0	6.6
DALSA 1502	6.6	6.3	6.5
FSA 1614	7.1	4.3	6.4
FSA 1604	7.2	3.7	6.3
FSA 1603	6.9	4.7	6.3
FSA 1609	7.2	3.7	6.3
RALEIGH	7.0	4.3	6.3
DALSA 1623	6.6	5.3	6.3
FLORATAM	7.2	3.3	6.3
XSA10403	6.6	4.0	5.9
XSA11168	6.9	3.0	5.9
FSA 1611	6.7	3.0	5.8
DALSA 1323	6.2	4.0	5.7
FSA 1612	6.4	3.0	5.6
DALSA 1316	6.1	3.7	5.5
LSD VALUE	1.3	1.2	1.3
C.V. (%)	11.6	16.5	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 31.

SEEDHEAD RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
2016-20 DATA

SEEDHEAD RATINGS 1-9; 9=NONE 2/

NAME	2017	2019	TX1	MEAN
	MS1	NC1		
FSA 1611	9.0	9.0	9.0	9.0
FSA 1612	9.0	9.0	9.0	9.0
DALSA 1502	9.0	8.7	8.8	8.8
DALSA 1316	9.0	7.0	8.6	8.4
DALSA 1404	7.7	7.7	8.6	8.3
FSA 1601	9.0	7.3	8.3	8.2
FSA 1607	8.7	5.7	7.9	7.8
FSA 1614	9.0	4.0	8.4	7.8
FLORATAM	7.7	8.3	7.2	7.6
FSA 1603	8.3	2.7	8.1	7.4
CITRABLUE (FSA 1602)	8.3	3.0	7.8	7.2
FSA 1613	5.7	6.7	6.6	6.6
FSA 1604	4.7	3.0	7.6	6.5
FSA 1605	6.7	3.3	7.0	6.5
DALSA 1623	3.3	7.0	7.0	6.4
DALSA 1618	5.0	7.3	6.1	6.3
XSA11168	6.0	5.0	6.2	6.3
XSA10403	4.3	4.0	6.8	6.1
UGA/TX SA26	4.7	6.7	5.8	5.9
FSA 1606	5.3	2.3	6.7	5.9
FSA 1609	6.3	3.0	6.6	5.9
DALSA 1501	5.0	5.7	5.4	5.3
PALMETTO	4.0	7.0	4.8	5.2
RALEIGH	3.7	6.0	5.1	5.1
FSA 1610	5.3	4.0	5.1	5.0
FSA 1608	4.0	5.0	4.8	4.8
DALSA 1323	2.0	3.3	5.0	4.1
LSD VALUE	1.1	2.7	1.2	1.1
C.V. (%)	11.0	29.3	10.9	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 32.

SEEDHEAD RATINGS OF ST. AUGUSTINEGRASS CULTIVARS  
AT DALLAS, TX 1/  
2017-19 DATA

SEEDHEAD RATINGS 1-9; 9=NONE 2/

NAME	SEEDHEAD 2017	JUL 8 2018	AUG 8 2018	JUN 9 2019	JUL 9 2019	MEAN
FSA 1611	9.0	9.0	9.0	9.0	9.0	9.0
FSA 1612	9.0	9.0	9.0	9.0	9.0	9.0
DALSA 1502	8.3	9.0	8.7	9.0	9.0	8.7
DALSA 1404	9.0	9.0	8.7	7.7	7.3	8.4
FSA 1601	8.3	7.7	8.3	9.0	8.7	8.4
DALSA 1316	7.7	9.0	8.3	9.0	8.0	8.3
FSA 1614	8.0	8.3	8.0	9.0	8.3	8.3
FSA 1603	6.3	9.0	8.0	9.0	9.0	7.9
CITRABLUE (FSA 1602)	6.7	8.3	7.3	8.3	8.3	7.6
FSA 1607	6.0	9.0	7.0	8.7	8.3	7.5
FSA 1604	6.7	8.7	6.3	7.3	8.0	7.3
DALSA 1623	5.3	7.3	8.3	8.3	8.0	7.1
FLORATAM	5.3	8.0	7.7	8.3	7.7	7.1
FSA 1605	5.7	8.0	5.7	7.3	7.0	6.6
FSA 1613	5.7	7.7	7.3	6.3	6.7	6.6
XSA10403	5.3	8.0	5.3	7.0	6.7	6.3
DALSA 1618	4.7	7.3	7.0	6.3	6.3	6.1
FSA 1609	5.0	6.3	3.7	8.3	8.0	6.1
DALSA 1501	6.3	5.0	7.0	5.0	6.0	5.9
FSA 1606	3.7	7.7	4.3	8.7	7.3	5.9
UGA/TX SA26	5.0	7.0	7.0	5.3	6.0	5.9
XSA11168	3.3	8.3	5.0	7.0	7.3	5.7
DALSA 1323	6.0	4.3	6.3	4.7	6.0	5.6
RALEIGH	5.3	5.3	5.3	4.7	6.0	5.3
FSA 1608	4.7	5.7	6.3	4.0	5.3	5.1
PALMETTO	3.7	5.7	7.3	5.0	5.0	5.1
FSA 1610	4.0	5.3	4.3	6.0	6.3	5.0
LSD VALUE	1.1	0.9	2.0	1.5	1.1	1.0
C.V. (%)	12.4	7.7	17.5	13.0	9.8	16.8

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 33.

GRAY LEAF SPOT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS  
AT RALEIGH, NC 1/  
2017-18 DATA

NAME	GRAY LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/				GRAY LEAF SPOT MEAN
	SEPT 17	OCT 17	AUG 18	SEPT 18	
CITRABLUE (FSA 1602)	7.3	6.7	7.7	8.0	7.4
DALSA 1404	7.7	6.0	7.7	7.3	7.2
DALSA 1618	6.7	5.3	7.0	8.0	6.8
FSA 1601	5.7	4.7	8.0	8.0	6.6
DALSA 1501	6.7	6.0	5.3	7.0	6.3
XSA11168	7.0	6.0	5.0	7.0	6.3
DALSA 1623	6.3	4.0	7.0	7.3	6.2
FSA 1604	7.0	5.7	4.7	6.7	6.0
XSA10403	7.3	6.0	4.0	6.7	6.0
DALSA 1502	6.7	5.7	5.0	6.0	5.8
FSA 1614	6.3	4.3	6.0	6.3	5.8
FSA 1610	5.3	4.0	6.7	6.7	5.7
FSA 1609	4.7	3.7	6.7	7.3	5.6
FSA 1613	5.7	4.3	5.0	6.3	5.3
FSA 1606	6.0	6.3	2.7	5.3	5.1
DALSA 1316	5.7	4.3	5.3	4.0	4.8
FLORATAM	6.0	4.7	5.0	3.3	4.8
FSA 1611	5.7	5.0	3.3	5.0	4.8
FSA 1612	6.3	5.3	3.3	3.7	4.7
FSA 1608	5.0	3.7	4.3	5.3	4.6
PALMETTO	5.0	4.0	4.0	5.3	4.6
FSA 1603	4.0	4.0	3.3	5.7	4.3
RALEIGH	5.0	4.0	3.3	4.7	4.3
UGA/TX SA26	5.0	4.0	3.3	4.7	4.3
FSA 1605	5.7	4.7	2.0	4.0	4.1
DALSA 1323	5.0	3.7	3.0	3.3	3.8
FSA 1607	4.7	5.0	1.0	2.0	3.2
LSD VALUE	2.4	2.0	1.8	1.4	1.4
C.V. (%)	19.3	20.9	24.2	15.7	22.4

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 34.

GRAY LEAF SPOT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
AT DALLAS, TX  
2017 DATA

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

NAME	APRIL	SEPTEMBER	MEAN
DALSA 1618	6.7	8.3	7.5
FSA 1606	6.3	8.3	7.3
FSA 1608	7.0	7.3	7.2
XSA11168	7.7	6.7	7.2
FLORATAM	6.7	7.3	7.0
FSA 1610	5.7	8.3	7.0
DALSA 1502	5.0	8.7	6.8
FSA 1613	6.3	7.3	6.8
FSA 1604	5.3	8.0	6.7
PALMETTO	6.3	7.0	6.7
RALEIGH	6.7	6.7	6.7
UGA/TX SA26	6.7	6.7	6.7
XSA10403	6.7	6.7	6.7
DALSA 1404	4.3	8.7	6.5
CITRABLUE (FSA 1602)	5.3	7.7	6.5
FSA 1603	5.3	7.7	6.5
FSA 1609	5.7	7.3	6.5
FSA 1614	5.3	7.7	6.5
DALSA 1623	4.3	8.3	6.3
FSA 1601	4.3	8.0	6.2
FSA 1605	5.0	7.3	6.2
FSA 1612	5.0	7.3	6.2
DALSA 1323	5.3	6.7	6.0
DALSA 1501	5.3	6.7	6.0
FSA 1607	6.0	6.0	6.0
FSA 1611	5.0	6.3	5.7
DALSA 1316	4.7	6.0	5.3
LSD VALUE	1.2	1.4	1.4
C.V. (%)	12.7	10.6	9.7

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 35.

BROWN PATCH RATINGS OF ST. AUGUSTINEGRASS CULTIVARS  
AT RALEIGH, NC 1/  
2020 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/

NAME	SEPTEMBER	NOVEMBER	MEAN
CITRABLUE (FSA 1602)	9.0	9.0	9.0
DALSA 1323	9.0	9.0	9.0
DALSA 1501	9.0	9.0	9.0
FLORATAM	9.0	9.0	9.0
FSA 1604	9.0	9.0	9.0
FSA 1607	9.0	9.0	9.0
FSA 1608	9.0	9.0	9.0
FSA 1610	9.0	9.0	9.0
FSA 1612	9.0	9.0	9.0
FSA 1613	9.0	9.0	9.0
FSA 1614	9.0	9.0	9.0
XSA10403	9.0	9.0	9.0
XSA11168	9.0	9.0	9.0
DALSA 1404	9.0	8.7	8.8
FSA 1606	9.0	8.7	8.8
FSA 1611	9.0	8.7	8.8
RALEIGH	9.0	8.3	8.7
UGA/TX SA26	8.7	8.3	8.5
PALMETTO	9.0	7.7	8.3
DALSA 1502	9.0	7.3	8.2
FSA 1605	9.0	7.3	8.2
FSA 1603	8.7	6.7	7.7
DALSA 1618	7.0	7.0	7.0
FSA 1609	7.3	6.3	6.8
DALSA 1623	7.0	5.3	6.2
FSA 1601	5.7	4.7	5.2
DALSA 1316	5.0	5.0	5.0
LSD VALUE	3.0	4.5	3.2
C.V. (%)	16.1	23.1	17.9

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 36.

PERCENT ESTABLISHMENT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
AT AUBURN, AL 2/  
2017 DATA

NAME	JULY 2	AUG 2	AUG 18	SEP 15	OCT 15	MEAN
DALSA 1316	5.7	10.7	26.7	60.0	83.3	37.3
FSA 1612	4.7	13.3	23.3	56.7	80.0	35.6
FSA 1603	5.7	12.3	21.7	53.3	81.7	34.9
FSA 1610	4.3	8.3	25.0	60.0	76.7	34.9
DALSA 1502	5.7	11.7	20.0	53.3	81.7	34.5
DALSA 1404	6.3	11.7	21.7	56.7	73.3	33.9
FSA 1608	4.3	10.0	21.7	51.7	81.7	33.9
FSA 1605	3.0	8.3	18.3	58.3	79.0	33.4
XSA10403	4.0	10.0	18.3	56.7	76.7	33.1
FSA 1611	3.0	9.7	20.0	55.0	76.7	32.9
DALSA 1623	6.0	11.7	23.3	50.0	71.7	32.5
CITRABLUE (FSA 1602)	5.3	11.7	21.7	55.0	68.3	32.4
RALEIGH	3.7	10.0	21.7	55.0	71.7	32.4
FSA 1601	3.3	10.0	16.7	55.0	76.7	32.3
XSA11168	4.3	10.0	21.7	53.3	71.7	32.2
FSA 1604	4.0	10.0	21.7	48.3	76.7	32.1
FSA 1613	6.3	8.3	20.0	55.0	70.0	31.9
DALSA 1323	5.0	8.0	31.7	46.7	65.0	31.3
FSA 1609	4.0	9.0	18.3	55.0	66.7	30.6
FLORATAM	4.3	9.3	18.3	51.7	68.3	30.4
PALMETTO	2.7	9.3	20.0	50.0	68.3	30.1
FSA 1606	3.3	10.7	16.7	41.7	68.3	28.1
DALSA 1618	10.0	10.0	18.3	40.0	60.0	27.7
FSA 1607	2.3	5.3	15.0	36.7	68.3	25.5
FSA 1614	3.0	5.3	16.7	36.7	60.0	24.3
UGA/TX SA26	2.7	7.0	13.3	36.7	61.7	24.3
DALSA 1501	3.3	4.3	16.7	36.7	56.7	23.5
LSD VALUE	6.2	15.1	20.1	30.1	22.6	14.1
C.V. (%)	53.1	44.8	31.7	22.2	13.5	17.0

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 37.

PERCENT ESTABLISHMENT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
 AT MISSISSIPPI STATE, MS 2/  
 2017 DATA

NAME	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	MEAN	
XSA11168		73.3	94.3	99.0	99.0	91.4
XSA10403		68.3	94.3	94.3	99.0	89.0
FSA 1614		61.7	91.0	94.7	99.0	86.6
FSA 1612		61.7	86.7	94.3	99.0	85.4
FSA 1610		60.0	88.3	91.3	97.7	84.3
FSA 1604		50.0	85.0	93.0	99.0	81.8
FSA 1611		50.0	81.0	93.0	97.7	80.4
FSA 1609		60.0	81.7	86.0	92.7	80.1
DALSA 1404		51.7	76.7	92.7	98.7	79.9
DALSA 1618		50.0	80.0	89.7	92.3	78.0
DALSA 1623		45.0	78.3	90.0	97.0	77.6
FSA 1606		46.7	78.3	86.7	98.3	77.5
UGA/TX SA26		43.3	78.3	90.0	93.0	76.2
PALMETTO		43.3	75.0	86.7	96.0	75.3
FSA 1608		43.3	78.3	83.3	94.7	74.9
DALSA 1501		46.7	75.0	83.0	94.7	74.8
DALSA 1316		38.3	73.3	81.7	96.3	72.4
RALEIGH		43.3	71.7	81.3	89.3	71.4
FSA 1613		40.0	75.0	78.3	89.3	70.7
DALSA 1502		38.3	68.3	78.3	92.0	69.3
FSA 1601		33.3	68.3	76.7	94.3	68.2
CITRABLUE (FSA 1602)		36.7	68.3	75.0	90.0	67.5
FSA 1605		41.7	63.3	76.3	88.0	67.3
FSA 1607		36.7	68.3	76.7	86.7	67.1
FLORATAM		36.7	65.0	79.7	86.3	66.9
FSA 1603		35.0	65.0	68.3	85.0	63.3
DALSA 1323		31.7	58.3	63.3	80.0	58.3
LSD VALUE		19.0	16.3	18.0	16.1	13.7
C.V. (%)		22.7	11.9	11.1	7.3	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.



TABLE 38.

PERCENT ESTABLISHMENT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
 AT RALEIGH, NC 2/  
 2017 DATA

NAME	SEPTEMBER	OCTOBER	MEAN
XSA10403	78.3	85.0	81.7
XSA11168	73.3	83.3	78.3
FSA 1606	70.0	73.3	71.7
FSA 1612	68.3	75.0	71.7
FSA 1611	66.7	75.0	70.8
UGA/TX SA26	65.0	71.7	68.3
FSA 1610	60.0	73.3	66.7
RALEIGH	65.0	68.3	66.7
FSA 1604	60.0	70.0	65.0
FSA 1605	61.7	68.3	65.0
FSA 1609	60.0	66.7	63.3
FSA 1614	56.7	70.0	63.3
FSA 1608	58.3	66.7	62.5
FSA 1613	51.7	60.0	55.8
DALSA 1618	48.3	60.0	54.2
DALSA 1323	50.0	56.7	53.3
FLORATAM	46.7	56.7	51.7
FSA 1601	45.0	56.7	50.8
DALSA 1623	46.7	53.3	50.0
CITRABLUE (FSA 1602)	48.3	51.7	50.0
DALSA 1316	43.3	53.3	48.3
PALMETTO	45.0	51.7	48.3
FSA 1607	43.3	50.0	46.7
DALSA 1502	40.0	48.3	44.2
FSA 1603	38.3	48.3	43.3
DALSA 1404	38.3	46.7	42.5
DALSA 1501	38.3	45.0	41.7
LSD VALUE	9.3	10.5	9.3
C.V. (%)	11.2	10.8	10.4

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 39.

PERCENT ESTABLISHMENT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
 AT DALLAS, TX 2/  
 2017 DATA

NAME	MAY	JUNE	MEAN
RALEIGH	86.7	95.0	90.8
XSA10403	86.7	95.0	90.8
UGA/TX SA26	85.0	96.3	90.7
XSA11168	85.0	94.7	89.8
FSA 1608	81.7	94.7	88.2
DALSA 1618	78.3	91.7	85.0
FSA 1604	76.7	91.7	84.2
FLORATAM	76.7	90.0	83.3
FSA 1613	71.7	93.0	82.3
DALSA 1316	71.7	91.7	81.7
FSA 1606	73.3	90.0	81.7
FSA 1607	70.0	91.7	80.8
FSA 1614	71.7	88.0	79.8
FSA 1609	66.7	88.3	77.5
PALMETTO	73.3	81.7	77.5
FSA 1605	63.3	88.3	75.8
FSA 1610	66.7	85.0	75.8
CITRABLU (FSA 1602)	61.7	85.0	73.3
DALSA 1502	60.0	85.0	72.5
DALSA 1623	66.7	78.3	72.5
DALSA 1404	56.7	83.3	70.0
DALSA 1323	61.7	76.7	69.2
DALSA 1501	50.0	85.0	67.5
FSA 1603	50.0	76.7	63.3
FSA 1601	50.0	63.3	56.7
FSA 1612	40.0	63.3	51.7
FSA 1611	36.7	63.3	50.0
LSD VALUE	18.4	15.5	15.9
C.V. (%)	16.5	10.4	12.4

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 40.

PERCENT LIVING GROUND COVER RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
 AT RALEIGH, NC 2/  
 2017 DATA

NAME	APRIL	MAY	JUNE	JULY	AUGUST	MEAN
XSA10403	85.0	90.0	95.0	99.0	99.0	93.6
FSA 1608	80.0	86.7	93.3	99.0	99.0	91.6
RALEIGH	78.3	86.7	95.0	99.0	99.0	91.6
UGA/TX SA26	78.3	85.0	95.0	99.0	99.0	91.3
XSA11168	78.3	83.3	94.7	99.0	99.0	90.9
DALSA 1316	70.0	76.7	91.7	97.7	99.0	87.0
FSA 1613	73.3	76.7	90.0	96.7	97.7	86.9
FSA 1604	70.0	76.7	88.3	96.3	99.0	86.1
FSA 1614	71.7	78.3	88.3	93.0	97.7	85.8
FSA 1601	70.0	75.0	88.3	93.0	98.3	84.9
FSA 1610	71.7	78.3	85.0	93.0	96.0	84.8
PALMETTO	68.3	76.7	88.3	93.0	97.7	84.8
FSA 1605	66.7	76.7	86.7	94.7	98.3	84.6
FSA 1612	66.7	75.0	86.7	94.7	98.3	84.3
FSA 1611	66.7	75.0	85.0	93.0	97.7	83.5
FSA 1606	58.3	70.0	90.0	95.0	98.3	82.3
DALSA 1623	61.7	71.7	85.0	91.7	97.7	81.5
DALSA 1501	55.0	65.0	88.3	94.7	99.0	80.4
DALSA 1618	56.7	70.0	85.0	90.0	97.7	79.9
DALSA 1323	61.7	68.3	81.7	91.3	95.3	79.7
FSA 1609	60.0	65.0	81.7	90.0	95.3	78.4
FLORATAM	56.7	68.3	83.3	88.0	95.3	78.3
DALSA 1502	51.7	63.3	83.3	91.3	96.3	77.2
DALSA 1404	51.7	61.7	83.3	91.7	97.0	77.1
FSA 1607	36.7	43.3	71.7	80.0	90.0	64.3
CITRABLUE (FSA 1602)	20.0	28.3	56.7	70.0	84.0	51.8
FSA 1603	16.7	18.3	46.7	60.0	77.3	43.8
LSD VALUE	15.5	14.3	12.3	10.7	6.9	10.0
C.V. (%)	16.0	13.3	9.1	7.2	4.3	8.0

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.

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

2017-20 DATA

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

NAME	QUALITY	MAXIMUM
	MEAN 1/	IN TOP 25% 2/
CITRABLU (FSA 1602)	6.2	28.6
DALSA 1316	5.6	14.3
DALSA 1323	5.3	0.0
DALSA 1404	6.1	42.9
DALSA 1501	6.3	42.9
DALSA 1502	6.3	57.1
DALSA 1618	6.5	42.9
DALSA 1623	5.9	14.3
FLORATAM	5.4	0.0
FSA 1601	5.9	42.9
FSA 1603	5.4	14.3
FSA 1604	5.7	0.0
FSA 1605	5.6	28.6
FSA 1606	6.0	14.3
FSA 1607	5.5	0.0
FSA 1608	6.2	71.4
FSA 1609	5.6	14.3
FSA 1610	5.9	28.6
FSA 1611	4.7	0.0
FSA 1612	4.6	0.0
FSA 1613	6.2	42.9
FSA 1614	5.9	14.3
PALMETTO	6.1	42.9
RALEIGH	5.8	28.6
UGA/TX SA26	6.1	28.6
XSA10403	5.3	0.0
XSA11168	5.3	0.0
LSD VALUE	0.4	
C.V. (%)	11.2	

\*/ 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.