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.

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

CURRENT POLICY COMMITTEE MEMBERS:

Dr. Steve Johnson, DLF International Seeds
Mr. Steve Tubbs, Turf Merchants, Inc.
Dr. Jeff Nus, USGA Green Section
Dr. Michael Richardson, University of Arkansas
Dr. Bernd Leinauer, New Mexico State University
Mr. Warren Bell, Biograss Sod Farms
Dr. Clark Throssell, Golf Course Superintendents Assoc. of America
Dr. Brian Horgan, University of Minnesota
Mr. Duane Klundt, Scotts Turf-Seed, Inc.

FOR ADDITIONAL REPORTS OR INFORMATION CONTACT:

Kevin Morris, Executive Director
National Turfgrass Evaluation Program
Beltsville Agricultural Research Center-West
Building 003, Room 218
Beltsville, Maryland 20705
kmorris@ntep.org
www.ntep.org

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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 can not 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.*

2002 NATIONAL ST. AUGUSTINEGRASS TEST

LOCATIONS SUBMITTING DATA FOR 2003-06

State	Location	Code
California	Pomona	CA7
Florida	Jay	FL3
Georgia	Griffin	GA1
Georgia	Savannah (Shade)	GA2
Louisiana	Calhoun	LA2
Mississippi	Mississippi State	MS1
Oklahoma	Lane	OK2
South Carolina	Florence	SC1
Texas	College Station	TX2

2002 NATIONAL ST. AUGUSTINEGRASS TEST

Entries and Sponsors

Entry No.	Name	Sponsor
*1	Raleigh	Standard entry
*2	Floratam	Standard entry
*3	Delmar	Standard entry
*4	Mercedes	Super Sod/Patten Seed
5	MSA 31	Mississippi State Univ.
6	MSA 2-3-98	Mississippi State Univ.

* COMMERCIALLY AVAILABLE IN THE USA IN 2007.

TABLE A. 2003-06 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 2002 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
CA7	SANDY LOAM	7.1-7.5	0-60	376-500	6.1-7.0	LIGHT SHADE	1.1-1.5	TO PREVENT STRESS
FL3	-	-	-	-	-	-	-	-
GA1	SANDY LOAM	5.6-6.0	0-60	0-150	3.1-4.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
GA2	SAND	-	-	-	3.1-4.0	DENSE SHADE	2.6-3.0	TO PREVENT DORMANCY
LA2	SANDY LOAM	6.6-7.0	0-60	0-150	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
MS1	SANDY LOAM	6.6-7.0	151-270	241-375	2.1-3.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
OK2	SANDY LOAM	6.1-6.5	151-270	151-242	3.1-4.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
SC1	SANDY LOAM	5.6-6.0	61-150	0-150	1.1-2.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
TX2	SANDY LOAM	7.6-8.5	61-150	151-240	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS

TABLE B. LOCATIONS AND DATA COLLECTED IN 2003-06

LOCATION	JANUARY 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
CA7	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FL3			X	X	X	X	X	X	X	X		X	X	
GA1					X	X	X	X	X	X		X	X	
GA2		X	X	X	X	X	X	X		X	X			
LA2				X	X	X	X	X	X	X			X	
MS1			X	X	X	X	X	X	X	X		X	X	X
OK2				X	X	X	X	X	X	X		X	X	X
SC1			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 2003-06

LOCATION	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	FROST TOLERANCE	WINTER COLOR	PERCENT WINTER KILL	BROWN PATCH WARM TEMP.	BROWN PATCH COOL TEMP.	GRAY LEAF SPOT	TAKE-ALL PATCH
CA7					X		X		X					
FL3	X	X	X	X					X				X	
GA1		X	X					X						
GA2		X	X	X	X									
LA2		X	X	X	X	X	X							
MS1			X		X			X					X	
OK2			X		X			X		X			X	X
SC1			X		X					X	X	X		
TX2	X				X	X			X		X			

TABLE B. (CONT'D) LOCATIONS AND DATA COLLECTED IN 2003-06

LOCATION	FALL COLOR SEPTEMBER	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	FALL COLOR DECEMBER	SEEDHEAD RATINGS	PERCENT ESTABLISH-MENT	PERCENT ESTABLISHMENT JUL	AUG	SEP	OCT	NOV	PERCENT COVER APRIL	PERCENT COVER MAY	AGGRESSIVE SPREAD JUNE	PERCENT BROWN PATCH OCTOBER	HORIZONTAL SPREAD RATINGS
CA7	X	X	X	X			X	X	X	X						
FL3	X	X	X	X					X	X	X					
GA1	X	X	X													
GA2																
LA2						X										
MS1							X	X	X	X	X					
OK2		X	X		X		X	X		X				X		X
SC1	X		X												X	
TX2	X			X		X						X	X			

TABLE B. (CONT'D) LOCATIONS AND DATA COLLECTED IN 2002-06

LOCATION	BROWN PATCH/ GRAY LEAF SPOT SEP	BROWN PATCH/ GRAY LEAF SPOT OCT	PERCENT SPRING GREENUP	DENSITY RATINGS MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	NOVEMBER	NUMBERS OF CHINCH BUG AUGUST ADULT	AUGUST NYMPH	DECEMBER ADULT	DECEMBER NYMPH	BROWN PATCH MAY	BROWN PATCH OCTOBER
CA7																	
FL3																	
GA1	X	X										X	X	X	X		
GA2			X	X	X	X	X	X	X	X	X						
LA2																	
MS1																	
OK2																	
SC1																X	X
TX2																	

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS GROWN AT EIGHT LOCATIONS IN THE U.S. 1/
2003-06 DATA

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

NAME	CA7	FL3	GA1	LA2	MS1	OK2	SC1	TX2
* DELMAR	5.8	4.8	7.0	6.4	6.3	5.8	5.2	4.6
* FLORATAM	6.1	6.1	6.3	6.3	4.5	6.7	5.1	5.8
* MERCEDES	6.4	5.9	7.5	6.8	7.1	5.1	6.0	5.3
MSA 2-3-98	6.2	5.4	6.8	6.8	7.5	6.2	6.1	5.0
MSA 31	6.6	5.4	6.8	6.8	6.4	5.1	5.5	4.8
* RALEIGH	5.8	5.2	6.6	6.6	6.5	6.0	5.4	4.9
LSD VALUE	1.0	1.1	1.1	0.6	0.4	1.2	0.9	0.8
C.V. (%)	9.9	11.9	10.0	5.9	3.6	14.0	11.7	10.1

* COMMERCIALLY AVAILABLE IN THE USA IN 2007.

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. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ST. AUGUSTINEGRASS CULTIVARS AT SAVANNAH (SHADE), GA 1/
2003-06 DATA

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

NAME	SPRING DENSITY 2004-06	SUMMER DENSITY 2004-06	FALL DENSITY 2004-05	PERCENT COVER SPRING 2006	PERCENT SPRING GREENUP 2003,06	DENSITY MARCH 2003	DENSITY APRIL 2003	DENSITY MAY 2003	DENSITY JUNE 2003	DENSITY JULY 2003	DENSITY AUGUST 2003	DENSITY SEPTEMBER 2003	DENSITY NOVEMBER 2003	DENSITY DECEMBER 2003
MSA 31	6.2	7.0	7.2	88.3	76.5	6.7	6.7	7.7	8.0	7.0	7.7	8.0	8.7	9.0
RALEIGH	6.8	6.2	5.8	81.7	70.8	5.0	5.3	6.7	7.3	6.7	7.0	8.0	9.0	9.0
MSA 2-3-98	6.7	6.8	7.3	75.0	70.7	4.3	6.0	7.0	7.7	6.3	6.3	6.7	8.5	9.0
MERCEDES	5.9	5.8	5.8	81.7	70.8	3.7	5.3	6.0	6.7	5.3	6.3	6.3	8.3	8.7
DELMAR	5.6	6.2	6.3	78.3	70.0	3.7	4.3	5.0	6.0	5.3	6.3	6.0	7.7	8.7
FLORATAM	3.3	4.2	4.5	60.0	56.7	3.3	3.3	4.0	5.0	4.3	5.0	5.0	6.7	7.3
LSD VALUE	1.7	1.1	1.5	25.3	17.8	1.4	1.2	1.6	1.5	1.3	2.6	2.6	1.1	0.8
C.V. (%)	29.8	18.3	19.1	15.0	17.3	17.3	12.7	14.0	11.9	12.1	18.1	18.4	6.9	4.7

TABLE 2. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ST. AUGUSTINEGRASS CULTIVARS AT SAVANNAH (SHADE), GA 1/
2003-06 DATA

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

NAME	QUALITY RATINGS MAR	APR	MAY	JUN	JUL	AUG	SEP	NOV	DEC	MEAN
MSA 31	5.0	6.1	7.4	7.7	7.4	6.7	8.0	8.7	8.7	7.2
RALEIGH	3.7	6.3	6.7	6.9	6.8	6.6	7.2	7.7	8.3	6.7
MSA 2-3-98	4.3	6.3	7.0	7.3	6.5	6.0	7.5	8.5	8.5	6.6
MERCEDES	3.7	5.3	6.1	6.4	6.1	6.6	7.1	8.0	8.0	6.4
DELMAR	3.0	5.2	6.0	6.2	6.4	6.6	6.8	7.3	7.7	6.3
FLORATAM	2.3	2.6	4.8	4.8	5.6	5.6	5.9	7.0	7.0	5.0
LSD VALUE	1.1	1.1	1.5	0.8	1.0	1.7	0.7	1.0	1.7	0.6
C.V. (%)	16.5	23.4	23.3	12.9	17.5	20.1	11.0	6.4	8.5	12.0

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 3. GENETIC COLOR RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

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

NAME	CA7	FL3	GA1	MS1	OK2	SC1	TX2	MEAN
MSA 2-3-98	5.8	5.9	7.4	7.6	6.5	6.3	4.7	6.4
DELMAR	6.3	5.0	7.7	7.2	7.0	6.2	5.0	6.4
MERCEDES	6.5	6.2	7.9	7.1	5.7	6.0	4.7	6.4
MSA 31	6.5	5.8	7.8	7.4	6.2	5.3	4.7	6.4
FLORATAM	6.5	6.1	6.7	7.0	5.3	5.1	6.0	6.1
RALEIGH	5.9	5.2	7.6	6.8	6.0	5.8	4.7	6.1
LSD VALUE	1.6	1.0	1.1	0.7	0.9	0.9	0.8	0.5
C.V. (%)	16.4	10.7	8.9	5.7	10.3	11.0	9.5	10.8

TABLE 4. SPRING GREENUP RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

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

NAME	CA7	FL3	GA1	LA2	MS1	OK2	SC1	TX2	MEAN
MERCEDES	7.2	4.6	4.3	6.2	5.6	4.4	3.7	2.7	5.0
MSA 2-3-98	7.0	4.1	5.0	6.0	6.2	3.2	3.8	2.7	4.7
DELMAR	5.7	4.8	4.7	6.2	4.3	4.7	3.7	3.3	4.6
RALEIGH	6.3	4.8	4.3	6.0	5.0	3.3	3.0	2.0	4.4
MSA 31	7.8	5.4	2.0	5.2	3.1	2.1	2.9	4.0	3.7
FLORATAM	6.2	5.1	2.0	6.0	1.9	2.2	2.2	4.0	3.3
LSD VALUE	1.7	1.1	1.5	1.2	1.0	1.2	0.9	0.7	0.6
C.V. (%)	15.9	16.3	24.5	12.3	14.0	23.2	17.6	13.1	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 5. LEAF TEXTURE RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

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

NAME	CA7	MS1	OK2	SC1	TX2	MEAN
MSA 31	5.4	7.8	5.7	2.0	6.0	5.6
MERCEDES	5.0	6.8	6.6	1.7	6.0	5.4
MSA 2-3-98	5.0	6.8	5.6	2.0	5.7	5.2
RALEIGH	4.9	5.8	5.3	1.3	5.0	4.6
DELMAR	4.8	5.9	4.7	1.0	5.7	4.5
FLORATAM	3.9	4.4	3.6	1.7	4.0	3.6
LSD VALUE	1.6	0.4	0.6	0.0	0.5	0.4
C.V. (%)	21.4	4.4	7.4	0.0	6.2	10.7

TABLE 6. SEEDLING VIGOR RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	FL3	TX2	MEAN
FLORATAM	6.0	7.3	6.7
MSA 2-3-98	5.7	3.3	4.5
RALEIGH	2.7	5.3	4.0
MERCEDES	2.3	5.0	3.7
DELMAR	2.3	3.3	2.8
MSA 31	2.0	2.7	2.3
LSD VALUE	1.4	1.1	0.9
C.V. (%)	24.3	14.8	19.1

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 7. SPRING DENSITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

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

NAME	FL3	GA1	LA2	MEAN
MSA 2-3-98	6.6	8.0	6.3	6.7
FLORATAM	6.6	7.0	6.0	6.5
MERCEDES	5.1	8.0	6.0	6.0
MSA 31	5.0	7.0	5.7	5.7
RALEIGH	4.5	8.3	5.7	5.6
DELMAR	3.7	4.0	6.0	4.4
LSD VALUE	1.8	1.7	0.9	1.4
C.V. (%)	20.9	14.6	9.7	18.0

TABLE 8. SUMMER DENSITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

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

NAME	FL3	GA1	LA2	MS1	OK2	SC1	MEAN
MSA 2-3-98	7.2	8.7	7.3	8.0	6.8	2.3	7.1
FLORATAM	7.8	8.7	7.0	5.2	6.5	3.7	6.8
MERCEDES	7.0	9.0	7.0	7.5	6.2	2.7	6.8
MSA 31	6.1	8.7	6.7	8.0	5.8	3.0	6.3
RALEIGH	6.1	9.0	6.3	6.7	6.2	2.7	6.2
DELMAR	5.5	8.3	6.7	6.7	6.2	3.0	6.0
LSD VALUE	1.5	1.0	0.8	0.7	1.2	1.2	0.7
C.V. (%)	14.0	7.1	6.9	5.8	12.5	25.8	11.4

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 9. FALL DENSITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

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

NAME	FL3	LA2	OK2	MEAN
FLORATAM	8.1	7.0	6.0	7.9
MSA 2-3-98	7.5	7.0	5.7	7.4
MERCEDES	7.3	6.7	5.7	7.4
MSA 31	7.2	6.7	5.0	6.9
DELMAR	6.9	6.3	6.3	6.9
RALEIGH	6.7	6.3	5.3	6.7
LSD VALUE	1.6	0.8	1.5	1.3
C.V. (%)	13.8	7.1	16.6	12.7

TABLE 10. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	CA7	LA2	MS1	OK2	SC1	TX2	MEAN
MERCEDES	94.3	80.0	89.4	64.2	11.0	83.0	76.4
RALEIGH	96.8	76.7	85.8	63.0	5.0	84.7	74.0
MSA 2-3-98	90.2	78.3	93.1	61.8	16.0	78.7	73.6
DELMAR	87.3	70.0	76.7	61.3	15.7	67.3	67.7
MSA 31	92.8	75.0	57.9	38.9	4.7	71.3	55.3
FLORATAM	94.5	75.0	37.9	34.8	1.7	92.0	51.7
LSD VALUE	10.3	7.1	11.8	18.6	7.9	19.6	10.2
C.V. (%)	7.2	5.8	9.8	30.3	54.2	18.4	17.4

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. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/ 3/

NAME	LA2	TX2	MEAN
MSA 2-3-98	93.3	99.0	96.2
MERCEDES	91.7	99.0	95.3
DELMAR	88.3	99.0	93.7
FLORATAM	86.7	99.0	92.8
RALEIGH	86.7	99.0	92.8
MSA 31	88.3	94.3	91.3
LSD VALUE	8.7	5.3	5.1
C.V. (%)	6.1	3.4	4.8

TABLE 12. PERCENT LIVING GROUND COVER (FALL) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/ 3/

NAME	CA7	LA2	MEAN
MSA 2-3-98	93.0	93.3	93.2
RALEIGH	98.0	88.3	93.2
MERCEDES	93.7	90.0	91.8
MSA 31	93.0	90.0	91.5
FLORATAM	94.0	85.0	89.5
DELMAR	92.3	85.0	88.7
LSD VALUE	6.8	11.2	9.0
C.V. (%)	4.5	7.9	6.2

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.

3/ PERCENT LIVING GROUND COVER RATED AT "CA7" IN 2005, AT "LA2" & "TX2" IN 2003.

TABLE 13. FROST TOLERANCE RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

FROST TOLERANCE RATINGS 1-9; 9=NO INJURY 2/ 3/

NAME	GA1	MS1	OK2	MEAN
MSA 2-3-98	3.3	7.2	6.4	6.3
MERCEDES	2.3	7.0	6.6	6.1
MSA 31	2.3	5.0	6.3	5.5
RALEIGH	4.0	6.5	5.3	5.4
DELMAR	2.3	5.0	5.8	5.0
FLORATAM	6.7	3.2	4.3	4.2
LSD VALUE	2.4	1.1	1.1	0.9
C.V. (%)	43.1	11.8	12.5	15.0

TABLE 14. WINTER COLOR RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

WINTER COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	CA7	FL3	TX2	MEAN
MSA 31	5.3	2.3	4.7	4.3
FLORATAM	5.3	3.0	3.3	3.8
MERCEDES	5.3	3.0	3.0	3.6
MSA 2-3-98	4.7	2.0	3.3	3.3
RALEIGH	4.7	3.0	2.7	3.3
DELMAR	4.7	2.3	2.3	2.9
LSD VALUE	1.7	1.3	1.4	1.2
C.V. (%)	21.6	29.9	27.4	26.1

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.

3/ FROST TOLERANCE RATED AT "GA1" IN 2004, AT "MS1" IN 2005-06 AND AT OK2" IN 2003-06.
WINTER COLOR RATED AT "CA7" & "FL3" IN 2005, AND AT "TX2" IN 2003.

TABLE 15. PERCENT WINTER KILL RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/ 3/

NAME	OK2	SC1	MEAN
FLORATAM	64.2	70.0	67.5
MSA 31	60.4	43.3	63.8
MSA 2-3-98	37.9	2.3	37.4
RALEIGH	35.0	11.7	35.4
DELMAR	32.1	16.7	32.1
MERCEDES	32.5	6.7	30.8
LSD VALUE	18.6	14.9	18.9
C.V. (%)	24.4	36.9	26.7

TABLE 16. BROWN PATCH (WARM TEMPERATURE) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	SC1	TX2	MEAN
FLORATAM	8.3	7.8	8.3
MSA 31	8.3	7.8	8.2
MSA 2-3-98	6.7	7.2	7.3
MERCEDES	6.3	7.0	6.7
RALEIGH	4.3	5.8	5.6
DELMAR	5.0	5.3	4.8
LSD VALUE	3.3	4.2	3.0
C.V. (%)	31.2	38.3	34.1

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.

3/ PERCENT WINTER KILL RATED AT "OK2" IN 2003-06 AND AT "SC1" IN 2003.
BROWN PATCH (WARM TEMPERATURE) RATED AT "SC1" IN 2004 AND AT "TX2" IN 2003-04.

TABLE 17. BROWN PATCH (COOL TEMPERATURE) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	SC1
MSA 31	7.5
FLORATAM	6.8
DELMAR	6.3
MSA 2-3-98	5.8
MERCEDES	5.2
RALEIGH	3.7
LSD VALUE	2.4
C.V. (%)	25.2

TABLE 18. GRAY LEAF SPOT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

GRAY LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	FL3	MS1	OK2	MEAN
MSA 31	8.0	6.7	8.0	7.3
MSA 2-3-98	8.0	7.3	5.7	7.1
DELMAR	6.7	6.7	6.0	6.5
RALEIGH	4.0	7.7	6.3	6.4
MERCEDES	4.0	7.0	6.3	6.1
FLORATAM	6.7	4.0	8.3	5.8
LSD VALUE	2.1	1.0	1.0	1.1
C.V. (%)	21.4	9.5	9.2	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.

3/ BROWN PATCH (COOL TEMPERATURE) RATED IN 2004-05.
GRAY LEAF SPOT RATED AT "FL3" & "OK2" IN 2003 AND AT "MS1" IN 2005.

TABLE 19. TAKE-ALL PATCH RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

TAKE-ALL PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	OK2
FLORATAM	7.3
MSA 2-3-98	7.0
DELMAR	6.0
RALEIGH	5.7
MSA 31	4.3
MERCEDES	4.0
LSD VALUE	0.9
C.V. (%)	10.1

TABLE 20. FALL COLOR (SEPTEMBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

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

NAME	CA7	FL3	GA1	SC1	TX2	MEAN
FLORATAM	6.0	7.3	6.0	5.3	7.0	6.7
MERCEDES	6.0	6.3	7.7	5.7	6.7	6.4
MSA 2-3-98	6.3	5.8	7.7	6.3	6.3	6.4
MSA 31	6.2	5.8	7.7	5.3	6.7	6.3
DELMAR	6.8	5.3	7.7	5.3	6.3	6.2
RALEIGH	5.8	5.7	7.3	5.3	6.7	6.2
LSD VALUE	1.3	1.8	0.8	1.5	1.1	1.0
C.V. (%)	13.1	18.6	7.2	16.4	10.1	13.8

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.

3/ TAKE-ALL PATCH RATED IN 2004 ONLY.

TABLE 21. FALL COLOR (OCTOBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

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

NAME	CA7	FL3	GA1	OK2	MEAN
DELMAR	6.3	5.6	7.7	7.0	6.5
MSA 31	5.8	6.1	7.3	6.7	6.4
MSA 2-3-98	5.6	6.2	7.0	5.8	6.1
MERCEDES	5.6	6.7	7.3	5.2	6.1
RALEIGH	5.3	6.1	6.8	5.3	6.0
FLORATAM	5.2	6.2	6.5	6.3	5.8
LSD VALUE	1.6	1.4	1.1	1.4	1.0
C.V. (%)	17.3	13.4	10.2	14.0	14.8

TABLE 22. FALL COLOR (NOVEMBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

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

NAME	CA7	FL3	GA1	OK2	SC1	MEAN
MSA 31	5.7	4.3	5.3	7.2	6.0	5.5
FLORATAM	4.9	5.0	4.3	7.7	5.0	5.4
DELMAR	5.2	4.0	6.3	6.7	5.0	5.2
MERCEDES	5.1	4.4	6.0	5.3	5.3	5.0
MSA 2-3-98	4.7	4.2	5.3	5.8	4.7	4.8
RALEIGH	4.2	4.2	5.3	4.7	4.7	4.5
LSD VALUE	1.2	1.0	1.1	1.7	2.3	0.7
C.V. (%)	16.4	14.2	12.2	16.4	27.7	15.6

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 23. FALL COLOR (DECEMBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	CA7	FL3	TX2	MEAN
MSA 31	6.0	3.0	2.3	4.4
FLORATAM	5.2	2.8	2.7	3.9
MERCEDES	5.2	3.0	2.3	3.9
DELMAR	5.2	2.4	3.3	3.8
RALEIGH	4.7	2.8	2.7	3.6
MSA 2-3-98	4.8	2.3	2.7	3.6
LSD VALUE	1.1	0.7	1.3	0.8
C.V. (%)	13.3	14.0	30.6	17.4

TABLE 24. SEEDHEAD RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

SEEDHEAD RATINGS 1-9; 9=NONE 2/ 3/

NAME	OK2
MSA 31	7.5
FLORATAM	6.2
MERCEDES	6.2
MSA 2-3-98	6.1
RALEIGH	4.7
DELMAR	3.9
LSD VALUE	1.7
C.V. (%)	18.2

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.

3/ FALL COLOR (DECEMBER) RATED AT "CA7" IN 2003 & 2005, AT "FL3" IN 2003-04, AND AT TX2" IN 2004. SEEDHEAD RATED IN 2003-06.

TABLE 25. PERCENT ESTABLISHMENT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2002-06 DATA 2/

NAME	LA2	TX2	MEAN
FLORATAM	83.3	78.3	80.8
RALEIGH	63.3	60.0	61.7
MERCEDES	73.3	48.3	60.8
MSA 2-3-98	71.7	36.7	54.2
MSA 31	70.0	28.3	49.2
DELMAR	46.7	36.7	41.7
LSD VALUE	16.6	21.4	13.6
C.V. (%)	15.2	27.7	20.6

TABLE 26. PERCENT ESTABLISHMENT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
AT POMONA, CA 2/
2003-06 DATA

NAME	JULY	AUGUST	SEPTEMBER	OCTOBER	MEAN
FLORATAM	80.0	92.3	99.0	99.0	92.6
RALEIGH	66.7	88.3	98.7	98.7	88.1
MERCEDES	58.3	71.7	96.7	97.3	81.0
DELMAR	50.0	73.3	97.7	97.3	79.6
MSA 31	48.3	70.0	96.7	97.3	78.1
MSA 2-3-98	46.7	56.7	97.7	97.7	74.7
LSD VALUE	21.9	41.8	6.1	5.0	17.0
C.V. (%)	19.0	24.6	2.5	2.0	9.6

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 27. PERCENT ESTABLISHMENT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
AT JAY, FL 2/
2002-06 DATA

NAME	SEPTEMBER	OCTOBER	NOVEMBER	MEAN
FLORATAM	18.3	46.7	60.0	41.7
MSA 2-3-98	16.7	48.3	60.0	41.7
RALEIGH	8.3	20.0	23.3	17.2
MERCEDES	5.0	18.3	21.7	15.0
MSA 31	5.7	13.3	20.0	13.0
DELMAR	5.0	15.0	18.3	12.8
LSD VALUE	3.3	9.7	9.6	5.8
C.V. (%)	19.9	21.1	16.8	14.7

TABLE 28. PERCENT ESTABLISHMENT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
AT MISS. ST., MS 2/
2002-06 DATA

NAME	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	MEAN
RALEIGH	51.7	70.0	90.0	99.0	99.0	81.9
FLORATAM	50.0	71.7	88.3	99.0	99.0	81.6
MERCEDES	40.0	61.7	86.7	97.7	97.7	76.7
MSA 31	41.7	51.7	85.0	93.3	95.0	73.3
MSA 2-3-98	31.7	51.7	86.7	97.7	97.7	73.1
DELMAR	36.7	53.3	83.3	84.7	88.0	69.2
LSD VALUE	10.6	12.0	8.4	10.5	8.3	7.9
C.V. (%)	13.4	10.7	4.2	5.5	4.2	5.3

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 29. PERCENT ESTABLISHMENT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
AT LANE, OK 1/
2002-06 DATA

NAME	JULY	AUGUST	OCTOBER	MEAN
FLORATAM	80.0	97.7	99.0	92.2
MSA 2-3-98	61.7	95.0	99.0	85.2
MSA 31	61.7	93.3	99.0	84.7
RALEIGH	46.7	90.0	96.0	77.6
MERCEDES	43.3	85.0	93.3	73.9
DELMAR	31.7	75.0	83.3	63.3
LSD VALUE	16.2	3.6	5.3	6.5
C.V. (%)	16.8	2.4	3.1	4.7

TABLE 30. PERCENT LIVING GROUND COVER RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
AT COLLEGE STATION, TX 2/
2003-06 DATA

NAME	MARCH	APRIL	MAY	JUNE	MEAN
FLORATAM	85.0	93.0	97.7	99.0	93.7
RALEIGH	71.7	83.3	94.7	99.0	87.2
MERCEDES	68.3	85.0	91.7	99.0	86.0
MSA 2-3-98	58.3	80.0	94.7	99.0	83.0
DELMAR	43.3	78.3	93.0	99.0	78.4
MSA 31	45.0	60.0	76.7	94.3	69.0
LSD VALUE	39.0	33.4	20.9	7.8	24.3
C.V. (%)	29.6	18.7	10.4	3.4	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 31. AGGRESSIVE SPREAD RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

AGGRESSIVE SPREAD RATINGS 1-9; 9=MOST 2/ 3/

NAME	OK2
FLORATAM	7.7
MSA 2-3-98	6.0
RALEIGH	5.3
MERCEDES	4.0
DELMAR	3.0
MSA 31	3.0
LSD VALUE	2.0
C.V. (%)	26.3

TABLE 32. BROWN PATCH / GRAY LEAF SPOT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS AT GRIFFIN, GA 1/
2003-06 DATA

BROWN PATCH / GRAY LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	SEPTEMBER	OCTOBER	MEAN
DELMAR	9.0	8.7	8.8
MERCEDES	9.0	8.7	8.8
MSA 2-3-98	9.0	8.3	8.7
MSA 31	9.0	7.7	8.3
RALEIGH	8.7	8.0	8.3
FLORATAM	7.7	8.0	7.8
LSD VALUE	2.4	1.7	1.9
C.V. (%)	11.4	8.8	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.

3/ AGGRESSIVE SPREAD RATED IN 2003 ONLY AND BROWN PATCH / GRAY LEAF SPOT RATED IN 2004 ONLY.

TABLE 33. HORIZONTAL SPREAD RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA

HORIZONTAL SPREAD RATINGS 1-9; 9=BEST 2/ 3/

NAME	OK2
FLORATAM	6.3
MERCEDES	4.7
MSA 2-3-98	4.3
RALEIGH	4.3
DELMAR	3.3
MSA 31	3.3
LSD VALUE	2.1
C.V. (%)	29.4

TABLE 34. PERCENT SPRING GREENUP RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
2003-06 DATA 2/ 3/

NAME	GA1
MERCEDES	58.3
DELMAR	46.7
MSA 2-3-98	41.7
RALEIGH	41.7
MSA 31	28.3
FLORATAM	16.7
LSD VALUE	21.0
C.V. (%)	33.6

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.

3/ HORIZONTAL SPREAD RATED IN 2004 ONLY AND PERCENT SPRING GREENUP RATED IN 2005 ONLY.

TABLE 35. BROWN PATCH RATINGS OF ST. AUGUSTINEGRASS CULTIVARS AT FLORENCE, SC 1/
2003-06 DATA

	BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/		
NAME	MAY	OCTOBER	MEAN
MSA 31	6.7	5.7	6.2
DELMAR	6.0	5.0	5.5
FLORATAM	5.7	5.0	5.3
MSA 2-3-98	4.7	4.0	4.3
MERCEDES	4.0	4.0	4.0
RALEIGH	2.0	2.0	2.0
LSD VALUE	2.0	1.6	1.7
C.V. (%)	22.3	19.9	20.6

TABLE 36. CHINCH BUG COUNTS OF ST. AUGUSTINEGRASS CULTIVARS AT GRIFFIN, GA 1/
2003-06 DATA

	CHINCH BUGS COUNTED IN 3 SQ.FT. 2/				
NAME	AUGUST ADULT	AUGUST NYMPH	DECEMBER ADULT	DECEMBER NYMPH	MEAN
RALEIGH	70.7	13.3	65.7	151.7	75.3
MSA 2-3-98	18.0	10.0	15.7	52.3	24.0
MSA 31	25.7	6.7	6.0	24.3	15.7
MERCEDES	20.0	8.3	0.0	8.3	9.2
DELMAR	12.7	0.7	0.0	5.3	4.7
FLORATAM	7.0	0.3	0.0	0.3	1.9
LSD VALUE	23.5	11.8	47.3	47.9	19.8
C.V. (%)	50.7	85.4	161.7	67.4	52.3

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.

3/ BROWN PATCH RATED IN 2006 ONLY AND CHINCH BUG COUNTED IN 2006 ONLY.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR ST. AUGUSTINEGRASS CULTIVARS
2003-06 DATA

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

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
DELMAR	5.8	0.0
FLORATAM	5.8	37.5
MERCEDES	6.3	25.0
MSA 2-3-98	6.3	25.0
MSA 31	6.0	12.5
RALEIGH	5.9	0.0
LSD VALUE	0.4	
C.V. (%)	10.2	

*/ 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.