

## **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 Federation, Inc.

### **CURRENT POLICY COMMITTEE MEMBERS:**

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Dr. Donald Floyd, Pickseed West, Inc.  
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1996 NATIONAL ST. AUGUSTINEGRASS TEST

LOCATIONS SUBMITTING DATA FOR 1997-2000

<u>State</u>	<u>Location</u>	<u>Code</u>
Alabama	Auburn	AL1
Arizona	Tucson	AZ1
Florida	Gainesville	FL1
Louisiana	Calhoun	LA2
Mississippi	Mississippi State	MS1
North Carolina	Raleigh	NC1
Texas	College Station	TX2

# 1996 National St. Augustinegrass Test

## Entries and Sponsors

Entry No.	Name	Sponsor
1	Delmar	Standard entry
2	Raleigh	Standard entry
3	6-89-70	The Scotts Company
4	6-89-174	The Scotts Company
5	6-89-175	The Scotts Company
6	6-89-194	The Scotts Company
7	6-89-196	The Scotts Company
8	Floritam	Standard entry

TABLE A.

1997-2000 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN  
THE 1996 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	SANDY LOAM	6.1-6.5	61-150	241-375	5.1-6.0	FULL SUN	2.6-3.0	TO PREVENT STRESS
AZ1	SANDY LOAM	7.6-8.5	0-60	501+	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
FL1	LOAMY SAND	7.1-7.5	271-450	151-240	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
LA2	SAND	6.6-7.0	0-60	0-150	-	FULL SUN	2.1-2.5	TO PREVENT STRESS
MS1	SANDY CLAY LOAM	6.6-7.0	151-270	241-375	4.1-5.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
NC1	SANDY CLAY LOAM	5.6-6.0	61-150	0-150	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
TX2	SANDY LOAM	7.6-8.5	0-60	0-150	3.1-4.0	FULL SUN	2.6-3.0	TO PREVENT STRESS

TABLE B.

## LOCATIONS AND DATA COLLECTED IN 1997-2000

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	X	X
AZ1				X	X	X	X	X	X	X	X	X	X	X	X
FL1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
LA2				X	X	X	X	X	X	X	X	X	X	X	X
MS1				X	X	X	X	X	X	X	X	X	X	X	X
NC1				X	X	X	X	X	X	X	X	X	X	X	X
TX2				X	X	X	X	X	X	X	X	X	X	X	X

TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 1997-2000

LOCATION	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	PERCENT WINTER KILL	LEAF SPOT	BROWN PATCH	GRAY LEAF SPOT	SOUTHERN CHINCH BUG
AL1		X	X	X	X	X	X	X	X	X			
AZ1	X	X	X	X	X	X	X						
FL1	X	X	X	X	X	X	X	X				X	
LA2		X	X	X	X	X	X						
MS1									X				
NC1		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 1997-2000

LOCATION	FALL COLOR SEPTEMBER	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	FALL COLOR DECEMBER	SEEDHEAD RATING	MOWING QUALITY	HERBICIDE (ASULAM) RESPONSE	PERCENT ESTABLISHMENT AFTER PLANTING		ESTABLISHMENT JUNE	ESTABLISHMENT JULY	ESTABLISHMENT AUGUST	ESTABLISHMENT OCTOBER
								5 WEEKS	11 WEEKS				
AL1	X	X		X			X						
AZ1	X	X				X							
FL1	X	X	X	X	X								
LA2													
MS1								X	X				
NC1			X							X	X	X	X
TX2													

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS  
GROWN AT SEVEN LOCATIONS IN THE U.S. 1/  
1997-2000 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/									
NAME	AL1	AZ1	FL1	LA2	MS1	NC1	TX2	MEAN	
6-89-70	5.3	4.9	5.4	6.6	5.1	4.6	5.6	5.4	
* DELMAR	4.3	5.6	5.5	6.1	6.0	4.4	5.5	5.3	
* RALEIGH	5.1	4.9	5.2	6.5	5.4	4.2	5.3	5.2	
* FLORATAM	4.8	4.9	5.3	6.2	5.2	5.0	4.9	5.2	
6-89-175	3.9	6.1	4.2	5.8	4.4	4.6	5.5	4.9	
6-89-196	3.4	5.5	2.3	6.2	3.8	3.9	4.4	4.2	
6-89-194	3.4	4.7	2.4	5.8	3.8	4.1	4.6	4.1	
6-89-174	3.6	5.4	2.1	5.6	3.2	3.8	4.6	4.0	
LSD VALUE	1.0	0.7	0.7	0.7	1.0	1.0	0.6	0.3	
C.V. (%)	30.9	16.5	21.7	8.4	27.0	27.6	14.0	21.6	

\* COMMERCIALY AVAILABLE IN THE USA IN 2001.

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS FOR EACH  
MONTH GROWN AT SEVEN LOCATIONS IN THE U.S. 1/  
1997-2000 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/													
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
DELMAR	3.7	3.8	4.0	4.9	5.3	5.6	5.5	5.5	5.5	5.4	5.2	4.3	5.3
6-89-70	3.3	3.7	3.8	4.4	4.6	5.5	5.8	5.8	5.7	5.5	5.3	4.3	5.3
RALEIGH	3.8	3.2	3.9	4.8	5.1	5.5	5.4	5.4	5.4	5.2	5.1	4.2	5.2
FLORATAM	3.7	3.8	3.6	4.5	4.8	5.4	5.4	5.4	5.5	5.5	5.2	5.0	5.1
6-89-175	3.2	2.8	4.3	3.8	4.3	5.2	4.9	5.0	5.2	4.9	5.0	3.4	4.8
6-89-196	1.7	1.7	2.7	2.6	3.3	4.2	4.2	4.3	4.5	4.3	3.8	1.4	4.0
6-89-194	2.2	2.8	3.1	3.3	3.5	4.1	3.9	4.0	4.1	4.0	4.0	1.7	3.9
6-89-174	2.0	2.7	2.9	3.3	3.5	4.1	3.9	3.9	4.0	4.1	3.5	1.8	3.9
LSD VALUE	1.0	1.4	1.0	0.5	0.5	0.6	0.5	0.5	0.5	0.5	0.6	1.2	0.4
C.V. (%)	29.4	40.7	38.5	34.1	34.6	32.8	31.1	32.1	32.6	33.1	31.3	47.8	26.8

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 3. RANKING OF MEAN TURFGRASS QUALITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS  
GROWN AT SEVEN LOCATIONS IN THE U.S. 1/  
1997-2000 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN; STATE LOCATIONS REPORTING 2/

NAME	AL1	AZ1	FL1	LA2	MS1	NC1	TX2	MEAN
6-89-70	1	7	2	1	4	2	1	1
DELMAR	4	2	1	5	1	4	2	2
RALEIGH	2	5	4	2	2	5	4	3
FLORATAM	3	6	3	4	3	1	5	4
6-89-175	5	1	5	6	5	3	3	5
6-89-196	7	3	7	3	7	7	8	6
6-89-194	8	8	6	7	6	6	7	7
6-89-174	6	4	8	8	8	8	6	8

1/ THIS TABLE CONTAINS NO STATISTICAL VALUES (LSD VALUES) THEREFORE IT SHOULD ONLY BE USED TO DETERMINE THE GENERAL PERFORMANCE OF AN ENTRY OR ENTRIES ACROSS SEVERAL LOCATIONS OR REGIONS. TO ASSESS STATISTICAL DIFFERENCES AMONG ENTRIES, REFER TO THE MEANS AND LSD VALUES FOUND IN TABLE 1.

2/ RANKING OF MEAN TURFGRASS QUALITY IS ACHIEVED BY ASSIGNING "1" TO THE HIGHEST MEAN, "2" TO THE SECOND HIGHEST MEAN, ETC. FOR EACH LOCATION. FOR EXAMPLE, IF TWO MEANS ARE TIED FOR THE SECOND AND THIRD RANKS, BOTH ARE ASSIGNED "2.5".

TABLE 4. MEAN TURFGRASS QUALITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS  
FOR EACH YEAR IN THE U.S. 1/  
1997-2000 DATA

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

NAME	1997	1998	1999	2000	MEAN
6-89-70	5.5	5.5	5.1	5.0	5.4
DELMAR	5.2	5.4	5.2	5.5	5.3
RALEIGH	5.4	5.2	5.1	5.0	5.2
FLORATAM	5.1	4.9	5.3	5.4	5.2
6-89-175	5.2	5.3	4.4	4.2	4.9
6-89-196	4.5	4.7	3.2	3.4	4.2
6-89-194	4.6	4.4	3.0	3.5	4.1
6-89-174	4.3	4.0	3.5	3.7	4.0
LSD VALUE	13.7	11.5	18.4	16.7	21.6
C.V. (%)	0.4	0.4	0.5	0.5	0.3

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 5. RANKING OF MEAN TURFGRASS QUALITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS FOR EACH YEAR IN THE U.S. 1/  
1997-2000 DATA

QUALITY RANKINGS; 1=HIGHEST MEAN; STATE LOCATIONS REPORTING 2/

NAME	1997	1998	1999	2000	MEAN
6-89-70	1	1	4	3	1
DELMAR	4	2	2	1	2
RALEIGH	2	4	3	4	3
FLORATAM	5	5	1	2	4
6-89-175	3	3	5	5	5
6-89-196	7	6	7	8	6
6-89-194	6	7	8	7	7
6-89-174	8	8	6	6	8

1/ THIS TABLE CONTAINS NO STATISTICAL VALUES (LSD VALUES) THEREFORE IT SHOULD ONLY BE USED TO DETERMINE THE GENERAL PERFORMANCE OF AN ENTRY OR ENTRIES ACROSS SEVERAL LOCATIONS OR REGIONS. TO ASSESS STATISTICAL DIFFERENCES AMONG ENTRIES, REFER TO THE MEANS AND LSD VALUES FOUND IN TABLE 4.

2/ RANKING OF MEAN TURFGRASS QUALITY IS ACHIEVED BY ASSIGNING "1" TO THE HIGHEST MEAN, "2" TO THE SECOND HIGHEST MEAN, ETC. FOR EACH LOCATION. FOR EXAMPLE, IF TWO MEANS ARE TIED FOR THE SECOND AND THIRD RANKS, BOTH ARE ASSIGNED "2.5".

TABLE 6. GENETIC COLOR RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

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

NAME	AL1	AZ1	FL1	LA2	MS1	NC1	TX2	MEAN
6-89-196	5.1	7.6	7.2	7.3	7.3	6.0	7.3	6.8
6-89-175	5.8	7.4	5.8	7.0	6.7	5.8	7.1	6.5
DELMAR	4.8	6.5	6.2	7.7	6.7	6.3	6.3	6.4
6-89-174	4.4	7.1	5.7	7.0	6.5	7.0	6.5	6.3
6-89-70	6.2	5.7	5.9	7.3	6.7	5.5	5.8	6.2
6-89-194	3.9	6.6	5.4	7.7	6.7	4.5	6.0	5.8
FLORATAM	3.9	6.3	5.8	6.3	6.0	6.7	4.4	5.6
RALEIGH	4.7	5.6	4.9	6.0	6.3	6.2	5.3	5.6
LSD VALUE	1.5	0.6	0.7	0.7	0.6	1.0	0.8	0.4
C.V. (%)	39.1	12.2	15.8	6.9	11.1	14.3	16.8	18.0

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

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

TABLE 7. SPRING GREENUP RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN 2/								
NAME	AL1	AZ1	FL1	LA2	MS1	NC1	TX2	MEAN
DELMAR	4.6	5.5	5.1	7.6	5.3	4.0	5.6	5.4
RALEIGH	3.9	5.3	5.2	6.5	4.6	4.3	4.1	4.8
6-89-175	3.7	5.2	4.2	6.0	4.4	4.0	4.4	4.6
FLORATAM	3.3	5.1	5.3	6.0	4.0	3.2	3.9	4.4
6-89-70	3.5	4.7	5.4	5.8	4.0	2.7	3.3	4.2
6-89-174	3.4	5.1	2.8	6.7	3.8	3.3	3.2	4.0
6-89-196	2.9	5.1	2.4	5.7	3.9	4.5	3.2	4.0
6-89-194	2.8	4.3	3.5	7.0	4.0	1.7	2.8	3.7
LSD VALUE	1.5	1.2	1.5	1.8	0.9	2.3	1.0	0.6
C.V. (%)	52.7	29.6	44.8	20.8	23.0	58.5	29.1	36.3

TABLE 8. LEAF TEXTURE RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/								
NAME	AL1	AZ1	FL1	LA2	MS1	NC1	TX2	MEAN
6-89-196	5.3	7.6	8.8	9.0	7.7	6.1	7.7	7.5
6-89-175	4.8	7.5	7.9	9.0	7.1	5.2	6.8	6.9
6-89-174	3.0	6.5	7.7	9.0	6.8	5.3	6.8	6.4
6-89-194	3.8	6.5	7.3	9.0	7.0	4.6	6.6	6.4
6-89-70	3.6	4.7	6.8	6.5	6.5	4.9	5.8	5.5
DELMAR	3.0	5.4	5.2	6.0	5.8	5.4	4.8	5.1
RALEIGH	3.6	4.9	4.8	5.5	5.6	5.7	4.9	5.0
FLORATAM	2.1	4.8	2.2	4.1	4.1	4.9	4.1	3.7
LSD VALUE	1.8	0.5	0.5	1.8	0.4	1.0	0.7	0.4
C.V. (%)	61.2	9.9	10.5	17.4	8.0	21.3	12.7	20.0

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

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

TABLE 9. SEEDLING VIGOR RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

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

NAME	AZ1	FL1	TX2	MEAN
RALEIGH	5.3	9.0	5.7	6.7
FLORATAM	4.0	7.7	6.0	5.9
6-89-70	4.0	9.0	4.3	5.8
DELMAR	4.7	7.3	4.0	5.3
6-89-175	3.7	6.3	5.0	5.0
6-89-174	2.7	3.3	3.0	3.0
6-89-194	2.0	3.7	3.0	2.9
6-89-196	2.0	3.7	2.0	2.6
LSD VALUE	1.7	1.1	1.9	0.9
C.V. (%)	30.5	11.3	28.0	21.6

TABLE 10. SPRING DENSITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

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

NAME	AL1	AZ1	FL1	LA2	NC1	TX2	MEAN
DELMAR	7.3	6.3	6.3	4.3	4.8	5.4	5.8
6-89-70	6.0	5.4	6.4	6.0	4.5	5.5	5.6
RALEIGH	5.7	5.9	6.1	3.8	5.3	5.4	5.4
FLORATAM	6.7	5.3	6.2	3.4	4.7	4.7	5.2
6-89-175	3.7	4.8	6.4	.	4.3	6.1	5.1
6-89-174	4.7	5.3	3.1	.	4.5	5.8	4.7
6-89-196	3.7	4.4	3.2	.	4.0	5.8	4.2
6-89-194	1.7	4.3	3.1	.	3.5	6.3	3.8
LSD VALUE	3.3	1.5	1.4	2.3	1.2	1.4	0.7
C.V. (%)	42.1	31.1	28.5	34.2	23.3	30.4	31.4

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. SUMMER DENSITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/						
	AL1	AZ1	FL1	LA2	NC1	TX2	MEAN
6-89-70	8.3	5.0	6.8	7.0	6.2	7.2	6.8
RALEIGH	8.0	5.2	5.8	4.4	6.0	5.8	5.9
6-89-175	2.7	7.0	6.3	.	5.3	7.7	5.8
6-89-196	3.7	7.3	4.3	.	5.2	7.9	5.7
FLORATAM	7.7	4.8	5.5	4.6	6.0	5.1	5.6
DELMAR	4.3	5.8	6.1	4.3	6.2	6.8	5.6
6-89-174	5.0	6.3	3.2	.	4.8	7.7	5.4
6-89-194	1.3	5.9	3.4	.	4.7	7.7	4.6
LSD VALUE	4.4	0.8	1.3	1.9	1.4	0.6	0.5
C.V. (%)	53.0	17.2	31.8	24.5	22.1	10.9	23.2

TABLE 12. FALL DENSITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/						
	AL1	AZ1	FL1	LA2	NC1	TX2	MEAN
6-89-70	7.0	5.8	6.8	7.5	6.0	6.7	6.6
6-89-175	2.7	8.0	6.3	.	6.3	7.5	6.2
DELMAR	7.0	6.4	6.2	4.3	4.0	6.8	5.8
6-89-196	1.0	7.8	3.7	.	7.0	7.4	5.4
FLORATAM	7.0	5.3	5.7	4.8	3.3	5.4	5.3
6-89-174	5.3	7.0	3.3	.	3.3	7.1	5.2
RALEIGH	3.3	5.6	6.3	5.4	4.3	5.8	5.1
6-89-194	1.7	6.5	2.8	.	5.7	7.5	4.8
LSD VALUE	3.3	0.8	1.3	2.8	0.9	0.7	0.5
C.V. (%)	46.7	15.1	31.1	33.4	11.5	12.3	22.5

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

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

TABLE 13. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	AL1	AZ1	FL1	LA2	NC1	TX2	MEAN
RALEIGH	69.3	82.3	60.8	55.3	43.3	70.8	63.7
DELMAR	57.8	75.3	62.1	39.2	43.3	74.8	58.7
6-89-70	66.0	70.1	56.4	39.0	43.3	62.3	56.2
FLORATAM	68.7	65.6	63.8	25.6	40.0	60.8	54.1
6-89-175	56.0	60.9	45.8	25.0	43.3	61.6	48.8
6-89-174	49.9	57.2	25.5	20.0	36.7	55.7	40.8
6-89-196	50.6	39.0	28.5	16.7	53.3	53.3	40.2
6-89-194	53.8	39.3	31.0	28.3	30.0	43.2	37.6
LSD VALUE	23.8	25.3	19.9	32.2	8.0	25.2	10.5
C.V. (%)	43.5	44.4	52.9	75.1	12.0	51.9	53.0

TABLE 14. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	AL1	AZ1	FL1	LA2	NC1	TX2	MEAN
RALEIGH	85.8	93.6	86.3	63.4	85.1	94.4	84.8
6-89-70	91.8	84.0	79.8	49.0	79.0	95.7	79.9
FLORATAM	87.4	87.1	87.3	37.5	84.9	93.9	79.7
DELMAR	74.3	88.1	81.3	55.0	81.0	95.8	79.2
6-89-175	53.9	83.2	71.7	30.0	70.6	91.6	66.8
6-89-174	47.1	78.1	49.4	28.3	52.8	96.8	58.8
6-89-194	47.2	62.3	50.8	33.3	53.3	95.9	57.1
6-89-196	40.6	58.7	47.8	15.0	61.4	92.6	52.7
LSD VALUE	23.0	9.4	19.9	32.3	21.7	6.3	7.8
C.V. (%)	37.6	12.8	35.8	60.3	32.9	7.2	29.1

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. PERCENT LIVING GROUND COVER (FALL) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	AL1	AZ1	FL1	LA2	NC1	TX2	MEAN
RALEIGH	83.9	98.7	89.6	65.3	88.3	94.4	86.7
6-89-70	87.3	95.5	79.3	66.0	98.3	90.6	86.2
FLORATAM	90.1	97.5	89.8	52.5	86.7	95.7	85.4
DELMAR	66.7	98.2	84.3	61.7	88.3	96.9	82.7
6-89-175	58.3	97.2	70.3	33.3	98.7	95.8	75.6
6-89-194	42.7	87.8	45.3	35.0	99.0	93.4	67.2
6-89-174	50.0	92.3	43.9	21.7	76.7	93.6	63.0
6-89-196	44.4	85.0	42.3	10.0	99.0	94.7	62.6
LSD VALUE	26.4	5.4	18.7	37.0	11.5	5.7	8.1
C.V. (%)	43.4	5.1	34.2	62.3	7.8	7.5	26.0

TABLE 16. WINTER COLOR RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

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

NAME	AL1	FL1	TX2	MEAN
DELMAR	4.0	5.3	5.7	5.0
6-89-175	4.2	5.7	4.7	4.9
FLORATAM	3.3	5.8	5.0	4.7
RALEIGH	4.1	4.0	5.5	4.5
6-89-196	3.7	6.1	3.7	4.5
6-89-70	3.9	5.1	4.3	4.4
6-89-174	3.9	5.7	3.5	4.4
6-89-194	3.2	4.8	4.0	4.0
LSD VALUE	2.3	1.6	2.8	1.2
C.V. (%)	64.2	38.2	54.9	50.0

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.

3/ WINTER COLOR RATED AT "AL1" IN 1997-99, AT "FL1" IN 1997-2000 AND AT TX2" IN 1999-2000.

TABLE 17. PERCENT WINTER KILL RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/ 3/					
NAME	AL1	MS1	NC1	TX2	MEAN
6-89-196	46.7	85.7	50.0	23.3	51.4
6-89-174	40.0	81.5	50.0	29.2	50.2
6-89-194	33.3	87.5	36.7	31.3	47.2
FLORATAM	30.0	82.3	36.7	27.5	44.1
6-89-175	26.7	74.2	41.7	15.1	39.4
RALEIGH	31.7	66.7	31.7	16.1	36.5
6-89-70	20.0	83.3	23.3	19.0	36.4
DELMAR	46.7	67.5	23.3	5.9	35.9
LSD VALUE	23.4	13.7	24.3	12.1	8.1
C.V. (%)	42.3	15.3	41.2	71.8	33.5

3/ PERCENT WINTER KILL RATED AT "AL1" IN 1998, AT "MS1" IN 1997 & 1998, AT "NC1" IN 1999 AND AT TX2" IN 1997-2000.

TABLE 18. LEAF SPOT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

LEAF SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/				
NAME	AL1	TX2	MEAN	
6-89-70	8.0	8.2	8.1	
6-89-196	8.3	7.7	8.0	
FLORATAM	7.3	8.3	7.8	
6-89-194	7.3	7.8	7.6	
RALEIGH	8.3	6.8	7.6	
6-89-175	8.3	6.1	7.2	
DELMAR	7.0	6.7	6.8	
6-89-174	6.7	5.7	6.2	
LSD VALUE	2.5	1.2	1.1	
C.V. (%)	20.6	17.8	18.1	

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/ LEAF SPOT RATED AT "AL1" IN 1997 AND AT TX2" IN 1997-99.



TABLE 19. BROWN PATCH (WARM TEMPERATURE) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

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

NAME	TX2
6-89-196	8.6
6-89-174	8.3
6-89-194	8.2
FLORATAM	7.8
6-89-175	7.7
DELMAR	7.6
RALEIGH	7.3
6-89-70	6.9
LSD VALUE	1.2
C.V. (%)	18.7

3/ BROWN PATCH RATED IN 1997-2000.

TABLE 20. GRAY LEAF SPOT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

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

NAME	FL1
6-89-70	8.5
6-89-196	7.8
RALEIGH	7.7
6-89-175	7.3
6-89-194	7.3
FLORATAM	7.2
DELMAR	5.8
6-89-174	5.2
LSD VALUE	1.7
C.V. (%)	21.4

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/ GRAY LEAF SPOT RATED IN 1999-2000.

TABLE 21. SOUTHERN CHINCH BUG RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

SOUTHERN CHINCH BUG RATINGS 1-9; 9=NO DAMAGE 2/ 3/

NAME	NC1
FLORATAM	9.0
6-89-70	8.3
6-89-196	7.3
RALEIGH	7.3
6-89-174	7.0
6-89-194	6.3
DELMAR	6.3
6-89-175	6.0
LSD VALUE	1.9
C.V. (%)	16.0

3/ SOUTHERN CHINCH BUG RATED IN 2000.

TABLE 22. FALL COLOR (SEPTEMBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

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

NAME	AL1	AZ1	FL1	MEAN
6-89-175	5.7	6.7	6.3	6.2
6-89-70	5.5	5.7	6.7	5.9
6-89-196	2.7	7.7	6.7	5.7
6-89-174	3.8	6.7	6.0	5.5
DELMAR	5.2	5.7	5.7	5.5
6-89-194	2.5	7.0	6.7	5.4
FLORATAM	3.5	6.3	6.3	5.4
RALEIGH	4.2	4.3	6.0	4.8
LSD VALUE	2.1	1.0	1.1	1.1
C.V. (%)	44.0	10.3	11.2	25.7

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

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

3/ FALL COLOR (SEPTEMBER) RATED AT "AL1" IN 1999-2000, AT "AZ1" IN 2000 AND AT "FL1" IN 1999.

TABLE 23. FALL COLOR (OCTOBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

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

NAME	AL1	AZ1	FL1	MEAN
6-89-174	6.0	7.7	6.0	6.6
DELMAR	5.7	6.7	5.7	6.0
6-89-70	4.3	6.3	6.3	5.7
6-89-194	3.0	7.3	6.3	5.6
RALEIGH	5.3	5.3	6.0	5.6
FLORATAM	3.7	6.7	6.0	5.4
6-89-175	2.7	7.3	6.3	5.4
6-89-196	2.0	8.0	6.0	5.3
LSD VALUE	3.0	1.6	1.2	1.2
C.V. (%)	45.5	14.8	12.1	22.8

3/ FALL COLOR (OCTOBER) RATED AT "AL1" & AT "AZ1" IN 2000, AND AT "FL1" IN 1999.

TABLE 24. FALL COLOR (NOVEMBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

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

NAME	FL1	NC1	MEAN
6-89-70	6.3	5.0	5.7
FLORATAM	6.0	5.0	5.5
6-89-174	6.0	4.7	5.3
6-89-194	6.0	4.3	5.2
6-89-175	6.0	4.0	5.0
DELMAR	6.0	4.0	5.0
RALEIGH	5.7	4.3	5.0
6-89-196	5.3	4.3	4.8
LSD VALUE	1.0	0.7	0.6
C.V. (%)	10.3	9.2	10.0

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.

3/ FALL COLOR (NOVEMBER) RATED AT "FL1" IN 1999 AND AT "NC1" IN 2000.

TABLE 25. FALL COLOR (DECEMBER) RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

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

NAME	AL1	FL1	MEAN
6-89-174	3.7	6.0	4.8
DELMAR	3.3	5.7	4.5
6-89-70	2.7	6.0	4.3
6-89-194	2.7	5.7	4.2
RALEIGH	3.0	5.3	4.2
6-89-175	2.0	6.0	4.0
6-89-196	3.0	5.0	4.0
FLORATAM	2.3	5.7	4.0
LSD VALUE	2.8	1.2	1.5
C.V. (%)	60.7	13.0	31.1

3/ FALL COLOR (DECEMBER) RATED IN 1999.

TABLE 26. SEEDHEAD RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

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

NAME	FL1
6-89-196	7.8
FLORATAM	7.8
DELMAR	6.5
6-89-194	5.5
6-89-70	5.2
6-89-174	4.3
6-89-175	4.3
RALEIGH	2.8
LSD VALUE	1.9
C.V. (%)	30.6

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/ SEEDHEAD RATED IN 1999-2000.

TABLE 27. MOWING QUALITY RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

MOWING QUALITY RATINGS 1-9; 9=CLEANEST CUT 2/ 3/

NAME	AZ1
RALEIGH	4.0
DELMAR	3.7
FLORATAM	3.7
6-89-175	2.7
6-89-70	2.7
6-89-174	2.3
6-89-196	2.0
6-89-194	1.5
LSD VALUE	1.6
C.V. (%)	34.1

3/ MOWING QUALITY RATED IN 1999.

TABLE 28. HERBICIDE (ASULAM) RESPONSE RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/  
1997-2000 DATA

HERBICIDE (ASULAM) RESPONSE RATINGS 1-9; 9=NO PURPLING 2/ 3/

NAME	AL1
6-89-70	9.0
FLORATAM	9.0
DELMAR	8.7
RALEIGH	8.7
6-89-194	8.0
6-89-175	7.7
6-89-196	6.3
6-89-174	6.0
LSD VALUE	1.2
C.V. (%)	9.3

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/ HERBICIDE (ASULAM) RESPONSE RATED IN 1998.

TABLE 29. PERCENT ESTABLISHMENT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS  
AT MISSISSIPPI STATE, MS 1/  
1997-2000 DATA

PERCENT ESTABLISHMENT RATINGS AFTER PLANTING 2/

NAME	5 WEEKS	11 WEEKS	MEAN
FLORATAM	26.0	58.3	42.2
RALEIGH	20.7	56.7	38.7
DELMAR	18.0	43.3	30.7
6-89-70	11.0	45.0	28.0
6-89-175	8.7	26.7	17.7
6-89-174	7.7	25.0	16.3
6-89-194	5.7	25.0	15.3
6-89-196	6.3	20.0	13.2
LSD VALUE	2.7	5.4	3.6
C.V. (%)	13.2	9.0	9.0

TABLE 30. ESTABLISHMENT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS  
AT RALEIGH, NC 1/  
1997-2000 DATA

ESTABLISHMENT RATINGS 1-9; 9=BEST 2/

NAME	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	MEAN
6-89-175	7.0	8.7	8.7	9.0	9	8.5
6-89-194	6.7	8.3	8.7	9.0	9	8.3
FLORATAM	5.0	8.3	9.0	9.0	9	8.1
6-89-174	5.7	8.0	8.3	9.0	9	8.0
DELMAR	4.3	6.0	7.0	8.3	9	6.9
6-89-70	4.0	5.0	6.0	7.3	9	6.3
RALEIGH	4.0	5.3	6.3	7.0	9	6.3
6-89-196	3.7	4.3	5.3	7.0	9	5.9
LSD VALUE	1.1	1.6	1.3	0.8	-	0.8
C.V. (%)	13.3	13.9	10.7	5.9	0	6.9

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.