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2002 NATIONAL ST. AUGUSTINEGRASS TEST

LOCATIONS SUBMITTING DATA FOR 2003-06

<u>State</u>	<u>Location</u>	<u>Code</u>
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	Floratom	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.

* COMMERCIALY 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	FALL COLOR	FALL COLOR	FALL COLOR	SEEDHEAD RATINGS	PERCENT ESTABLISHMENT	PERCENT ESTABLISHMENT					PERCENT COVER	PERCENT COVER	AGGRESSIVE SPREAD	PERCENT BROWN PATCH	HORIZONTAL SPREAD
	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER		ESTABLISHMENT	JUL	AUG	SEP	OCT	NOV	APRIL	MAY	JUNE	OCTOBER	RATINGS
CA7	X	X	X	X			X	X	X	X						
FL3	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		PERCENT SPRING GREENUP	DENSITY RATINGS								NUMBERS OF CHINCH BUG				BROWN PATCH	
	SEP	OCT		MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	NOVEMBER	AUGUST		DECEMBER		MAY	OCTOBER
												ADULT	NYMPH	ADULT	NYMPH		
CA7																	
FL3																	
GA1	X	X										X	X	X	X		
GA2			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

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

* COMMERCIALY 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	SUMMER	FALL	PERCENT	PERCENT	DENSITY	DENSITY	DENSITY	DENSITY	DENSITY	DENSITY	DENSITY	DENSITY	DENSITY
	DENSITY	DENSITY	DENSITY	COVER	SPRING	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	NOVEMBER	DECEMBER
	2004-06	2004-06	2004-05	SPRING	GREENUP	2003	2003	2003	2003	2003	2003	2003	2003	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. 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										MEAN
	MAR	APR	MAY	JUN	JUL	AUG	SEP	NOV	DEC		
MSA 31	5.0	6.1	7.4	7.7	7.4	6.7	8.0	8.7	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	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	8.5	6.6
MERCEDES	3.7	5.3	6.1	6.4	6.1	6.6	7.1	8.0	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	7.7	6.3
FLORATAM	2.3	2.6	4.8	4.8	5.6	5.6	5.9	7.0	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	1.7	0.6
C.V. (%)	16.5	23.4	23.3	12.9	17.5	20.1	11.0	6.4	8.5	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

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

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