

## **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, Inc.

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

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Mr. Ryan Jeffries, Columbia Seeds, Inc.  
Dr. Mike Kenna, USGA Green Section  
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CONTENTS

2013 National Warm-Season Putting Green Test - 2017 data

LOCATIONS SUBMITTING DATA FOR 2017.....1

NATIONAL WARM-SEASON PUTTING GREEN TEST, 2013

    Entries and Sponsors.....2

Table A - 2017 Locations, Site Descriptions and Management Practices in  
the 2013 National Warm-Season Putting Green Test.....3

Table 1 - Mean Turfgrass Quality and Other Ratings of Warm-Season  
Cultivars Grown at Tucson, AZ.....4

Table 2 - Mean Turfgrass Quality and Other Ratings of Warm-Season  
Cultivars Grown at Rancho Mirage, CA (Tamarisk C.C.).....10

Table 3 - Mean Turfgrass Quality and Other Ratings of Warm-Season  
Cultivars Grown at Jay, FL.....12

Table 4 - Mean Turfgrass Quality and Other Ratings of Warm-Season  
Cultivars Grown at Griffin, GA.....17

Table 5 - Mean Turfgrass Quality and Other Ratings of Warm-Season  
Cultivars Grown at Bloomington, IN (Bloomington C.C.).....19

Table 6 - Mean Turfgrass Quality and Other Ratings of Warm-Season  
Cultivars Grown at Lexington, KY.....21

Table 7 - Mean Turfgrass Quality and Other Ratings of Warm-Season  
Cultivars Grown at Miss. St., MS.....23

Table 8 - Mean Turfgrass Quality and Other Ratings of Warm-Season  
Cultivars Grown at College Station, TX.....28

Table 9 - Mean Turfgrass Quality and Other Ratings of Warm-Season  
Cultivars Grown at Richmond, VA (Country Club of Richmond).....30

## **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>.

2013 NATIONAL WARM-SEASON PUTTING GREEN TEST

LOCATIONS SUBMITTING DATA FOR 2017

<u>State</u>	<u>Location</u>	<u>Code</u>
Arizona	Tucson	AZ1
California	Rancho Mirage, CA (Tamarisk C.C.)	CA4
Florida	Jay	FL3
Georgia	Griffin	GA1
Indiana	Bloomington (Bloomington C.C.)	IN3
Kentucky	Lexington	KY1
Mississippi	Mississippi State	MS1
Texas	College Station	TX2
Virginia	Richmond, VA (C. C. of Richmond)	VA6

**2013 NATIONAL WARM-SEASON PUTTING GREEN TEST**

**Entries and Sponsors**

Entry No	Name	Species	Sponsor
*1	Tifwarf	Bermuda	Standard Entry
*2	Tifeagle	Bermuda	Standard Entry
*3	Mini-Verde	Bermuda	Standard Entry
*4	Sunday	Bermuda	Sod Solutions
5	08-T-18	Bermuda	Georgia Seed Development Commission
6	11-T-861	Bermuda	Georgia Seed Development Commission
7	FAES 1302	Bermuda	University of Florida
8	OKC-13-78-5	Bermuda	Oklahoma State University
9	OKC-1-75-2	Bermuda	Oklahoma State University
10	OKC-16-13-8	Bermuda	Oklahoma State University
11	MSB-264	Bermuda	Mississippi State University
12	MSB-285	Bermuda	Mississippi State University
13	CTF-E3	Bermuda	Champion Turf Farms
14	CTF-B10	Bermuda	Champion Turf Farms
15	JK 110521	Bermuda	Evergreen Turf Inc
16	FAES 1301	Zoysiagrass	University of Florida
17	10-TZ-74	Zoysiagrass	Georgia Seed Development
*18	L1F	Zoysiagrass	Bladerunner Farms
19	DALZ 1306	Zoysiagrass	Bladerunner Farms
20	DALZ 1307	Zoysiagrass	Bladerunner Farms
21	DALZ 1308	Zoysiagrass	Bladerunner Farms
22	DALZ 1309	Zoysiagrass	Bladerunner Farms
*23	Diamond	Zoysiagrass	Standard Entry
24	DALZ 1304	Zoysiagrass	Bladerunner Farms
25	DALZ 1305	Zoysiagrass	Bladerunner Farms
26	ZOYSIU	Zoysiagrass	Grassland Oregon
*27	SeaDwarf	Seashore Paspalum	Standard Entry
28	UGA 1743	Seashore Paspalum	UGA Research Foundation

\* **COMMERCIALY AVAILABLE IN THE USA IN 2018**

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN  
THE 2013 NATIONAL WARM-SEASON PUTTING GREEN 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
AZ1	-	-	-	-	-	-	-	-
CA4	SAND	7.6-8.5	0-60	151-240	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
FL3	SANDY LOAM	5.6-6.0	0-60	0-150	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
GA1	SAND	-	-	-	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IN3	SANDY LOAM	7.1-7.5	0-60	0-150	-	FULL SUN	0.0-0.5	TO PREVENT STRESS
KY1	SAND	7.6-8.5	0-60	0-150	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MS1	SAND	6.1-6.5	0-60	0-150	-	FULL SUN	-	TO PREVENT STRESS
TX2	-	8.6+	0-60	0-150	0.0-1.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
VA6	SILTY CLAY LOAM	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT DORMANCY

TABLE 1A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT TUCSON, AZ 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	QUALITY RATINGS										MEAN
				MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
08-T-18	5.3	2.0	8.7	5.0	5.7	6.3	8.3	7.0	8.0	7.7	7.0	6.7	6.3	6.8
MSB-264	5.7	1.3	7.3	5.0	5.3	6.0	7.0	6.7	8.0	8.3	6.7	8.0	5.0	6.6
MSB-285	6.0	1.3	6.3	5.0	5.7	6.0	7.0	7.0	8.0	7.3	6.3	8.0	5.7	6.6
OKC-1-75-2	7.3	2.0	7.0	4.3	5.3	5.7	6.7	6.7	7.0	7.3	6.7	6.0	6.0	6.2
SUNDAY	4.7	3.3	7.0	6.7	6.7	5.7	5.3	5.7	5.7	7.7	6.3	7.3	4.7	6.2
OKC-16-13-8	7.0	1.7	7.3	4.7	5.0	6.0	8.3	6.7	6.7	7.7	6.3	5.0	5.0	6.1
TIFEAGLE	6.0	4.7	6.3	6.7	5.7	6.0	7.0	5.3	6.3	6.7	5.7	6.7	5.0	6.1
11-T-861	5.3	1.0	6.3	5.0	6.0	6.0	6.3	6.7	6.3	8.0	6.7	4.0	5.3	6.0
JK 110521	4.7	3.7	6.7	5.7	5.7	5.3	4.3	6.0	5.7	7.0	6.3	6.0	5.3	5.7
MINI-VERDE	6.0	5.3	6.7	5.7	5.7	5.3	4.7	6.0	7.0	6.7	6.0	5.7	4.7	5.7
OKC-13-78-5	5.0	2.0	8.0	5.3	5.7	5.7	6.7	5.3	3.7	7.0	5.7	5.7	4.3	5.5
TIFWARF	5.7	4.0	5.3	5.0	5.3	5.7	5.3	6.0	5.7	6.3	5.7	5.7	4.3	5.5
FAES 1302	4.7	3.7	6.3	5.0	5.3	5.0	4.3	5.0	4.0	7.0	6.0	5.3	5.0	5.2
CTF-E3	6.0	3.3	5.0	4.0	4.7	4.7	4.3	5.3	5.3	5.7	4.7	6.0	3.3	4.8
CTF-B10	4.3	2.3	5.0	4.0	4.0	4.0	4.0	4.3	4.3	4.7	5.0	4.0	4.7	4.3
LSD VALUE	1.0	2.1	1.0	1.4	1.1	1.2	1.4	0.8	1.5	0.9	1.0	1.3	1.1	0.6
C.V. (%)	10.8	42.1	9.6	15.0	10.9	11.0	14.6	8.5	15.2	8.4	9.4	13.1	12.2	6.5

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 1A.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT TUCSON, AZ 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SUMMER	WINTER COLOR	FALL COLOR SEPTEMBER	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	SEEDHEAD	BALL ROLL RATINGS		
										APRIL	JULY	SEPTEMBER
08-T-18	6.3	8.7	8.7	97.7	6.3	5.7	5.0	5.0	9.0	97.7	84.3	88.0
MSB-264	5.7	7.7	7.7	98.7	5.7	6.0	4.3	5.0	2.7	87.0	78.7	80.3
MSB-285	5.0	7.3	8.0	98.7	3.7	5.7	4.3	5.0	1.7	87.3	81.3	82.3
OKC-1-75-2	4.7	7.0	7.3	92.7	7.3	8.0	6.0	7.3	8.3	99.7	91.3	92.7
SUNDAY	7.0	6.0	6.3	92.0	5.0	5.0	4.3	4.7	8.0	93.7	90.7	91.3
OKC-16-13-8	4.7	7.7	7.0	99.0	3.7	6.7	7.3	6.7	8.0	90.7	91.3	98.0
TIFEAGLE	7.3	6.3	6.0	94.7	5.7	7.7	5.0	5.7	7.3	102.0	98.0	94.3
11-T-861	6.3	7.3	6.0	97.3	3.0	7.0	2.3	5.0	9.0	80.3	82.3	86.0
JK 110521	6.3	5.0	6.7	79.3	5.7	5.3	5.0	5.3	7.3	116.7	105.3	98.0
MINI-VERDE	5.7	5.3	7.3	85.7	6.0	6.7	4.3	6.7	7.0	111.3	97.3	98.3
OKC-13-78-5	6.3	6.7	4.7	95.7	5.3	5.3	6.0	6.7	7.3	91.3	87.7	98.7
TIFWARF	5.3	5.0	5.7	86.0	5.7	6.3	4.0	6.0	6.7	102.7	92.3	94.0
FAES 1302	5.3	4.7	4.7	79.3	5.7	6.3	4.0	5.0	7.7	113.0	104.3	102.3
CTF-E3	5.0	5.3	5.3	82.7	3.0	6.7	4.7	6.7	5.3	105.7	94.3	87.7
CTF-B10	5.0	4.3	5.0	70.0	5.7	5.7	3.0	3.0	8.0	111.7	107.3	102.7
LSD VALUE	1.9	1.5	1.8	10.1	1.6	2.0	2.3	1.0	2.5	13.5	6.8	11.7
C.V. (%)	16.2	14.2	16.2	6.8	18.0	15.5	26.4	11.2	21.6	8.1	4.7	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.



TABLE 1B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT TUCSON, AZ 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	QUALITY RATINGS											MEAN
							JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
DALZ 1304	6.3	9.0	7.3	8.0	7.3	7.7	7.0	6.3	6.7	4.7	7.7	8.3	8.3	8.0	8.3	8.3	8.0	7.4
DALZ 1309	7.3	8.3	9.0	7.7	9.0	9.0	6.3	5.3	6.3	6.3	5.7	8.0	8.3	8.7	8.3	8.0	8.7	7.3
DALZ 1306	4.0	8.7	8.7	7.3	9.0	9.0	5.0	4.3	5.0	6.0	6.0	9.0	9.0	8.7	9.0	8.7	9.0	7.2
DALZ 1305	6.7	8.3	7.0	6.7	7.0	7.3	6.0	6.3	5.3	5.0	5.3	7.3	8.0	8.0	7.3	7.0	7.3	6.6
FAES 1301	6.0	8.0	9.0	8.7	8.0	7.7	5.0	6.0	5.7	7.0	5.7	7.7	7.7	7.0	7.7	7.7	5.7	6.6
DIAMOND	5.3	9.0	7.7	7.7	7.3	8.0	5.0	6.0	6.7	5.7	6.7	7.7	7.7	7.0	6.7	5.7	7.3	6.5
L1F	5.7	7.0	7.3	5.7	7.7	7.7	5.0	4.0	4.7	6.3	4.7	8.0	7.3	6.3	7.3	7.3	7.3	6.2
DALZ 1307	6.7	6.3	8.0	6.3	7.7	8.3	4.7	3.7	5.0	3.0	4.7	7.3	8.0	8.0	7.3	7.7	8.0	6.1
DALZ 1308	4.0	8.0	8.0	6.3	7.5	7.7	4.0	3.7	4.3	5.3	5.0	5.7	6.7	7.0	7.0	6.0	7.0	5.6
ZOYSIU	6.0	1.3	6.3	6.3	6.7	7.0	1.0	1.3	2.3	6.7	6.0	7.7	7.0	5.7	6.3	6.0	6.3	5.1
10-TZ-74	5.0	7.0	8.0	3.7	4.7	6.3	1.7	2.3	3.3	4.0	3.7	4.0	4.7	4.3	5.3	4.7	5.3	3.9
LSD VALUE	1.2	2.2	0.8	1.4	1.7	1.7	1.6	1.6	2.0	2.1	1.8	2.7	1.8	1.5	1.8	1.4	1.6	1.2
C.V. (%)	12.1	18.2	6.3	12.8	12.5	10.6	21.9	22.1	22.4	20.2	17.6	18.7	13.2	12.6	12.8	12.1	12.4	11.2

1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN.  
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TABLE 1B.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT TUCSON, AZ 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	PERCENT GROUND COVER			WINTER COLOR	FALL COLOR SEPTEMBER-DECEMBER				SEEDHEAD
	SPRING	SUMMER	FALL		SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
DALZ 1304	98.0	98.7	99.0	5.7	6.3	5.3	6.3	5.7	5.0
DALZ 1309	91.0	96.0	98.7	4.7	7.3	6.0	5.3	4.7	4.3
DALZ 1306	93.3	99.0	99.0	4.7	4.0	4.3	5.3	4.7	3.3
DALZ 1305	89.0	99.0	98.7	6.0	6.7	6.0	6.7	6.0	4.7
FAES 1301	86.7	88.0	94.3	5.0	6.0	6.3	6.0	5.0	1.7
DIAMOND	98.0	99.0	98.3	6.0	5.3	6.3	6.3	6.0	3.7
L1F	75.0	99.0	98.7	5.0	5.7	5.3	4.7	5.0	1.0
DALZ 1307	62.3	96.7	66.7	6.0	6.7	6.7	6.3	6.0	6.0
DALZ 1308	86.0	96.7	96.7	6.7	4.0	6.0	5.7	6.7	4.0
ZOYSIU	6.7	99.0	98.3	4.7	6.0	6.3	6.0	4.7	2.0
10-TZ-74	50.0	87.0	91.7	5.7	5.0	5.7	6.0	5.7	4.7
LSD VALUE	31.9	7.9	40.1	0.9	1.2	2.0	1.3	0.9	2.8
C.V. (%)	24.8	4.3	16.6	9.4	12.1	14.9	10.9	9.4	40.5

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STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).

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TABLE 1B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
 (CONT'D) IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT TUCSON, AZ 1/  
 2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
 BALL ROLL MEASURED IN INCHES

NAME	LARGE PATCH DISEASE		BALL ROLL MEASURED			DROUGHT WILTING
	MAY	JUNE	OCTOBER	DECEMBER		
DALZ 1304	9.0	92.3	76.0	75.7	97.0	9.0
DALZ 1309	6.0	88.0	77.3	93.0	100.0	9.0
DALZ 1306	6.3	98.0	76.0	80.7	101.3	9.0
DALZ 1305	6.7	89.0	80.3	85.7	100.3	9.0
FAES 1301	6.0	76.3	73.3	73.0	85.0	8.3
DIAMOND	5.7	88.3	76.7	73.3	93.3	7.3
L1F	4.7	83.0	81.5	75.7	98.3	8.3
DALZ 1307	6.7	87.7	82.3	82.7	98.3	9.0
DALZ 1308	6.3	105.0	84.0	90.0	104.0	7.3
ZOYSIU	9.0	83.7	68.3	72.0	104.7	5.7
10-TZ-74	9.0	95.0	84.3	84.0	93.7	6.0
LSD VALUE	5.8	8.8	7.7	10.7	13.5	1.8
C.V. (%)	33.8	5.8	5.2	7.4	6.6	12.6

TABLE 1C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS  
 IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT TUCSON, AZ 1/  
 2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
 BALL ROLL MEASURED IN INCHES

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	QUALITY RATINGS											
							JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
SEADWARF	5.3	1.0	4.3	1.0	5.3	6.0	2.0	1.3	1.3	3.0	2.0	6.0	6.0	6.0	6.3	6.0	6.3	4.2
UGA 1743	5.7	1.0	4.7	1.0	6.0	5.7	1.7	1.0	1.3	2.0	1.7	5.7	6.0	6.0	6.0	4.3	6.3	3.8
LSD VALUE	1.2	2.2	0.8	1.4	1.7	1.7	1.6	1.6	2.0	2.1	1.8	2.7	1.8	1.5	1.8	1.4	1.6	1.2
C.V. (%)	14.8	0.0	9.1	0.0	19.1	7.0	22.3	35.0	0.0	0.0	22.3	7.0	0.0	0.0	6.6	7.9	11.2	2.4

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 1C.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT TUCSON, AZ 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	PERCENT GROUND COVER			WINTER COLOR	FALL COLOR SEPTEMBER-DECEMBER				SEEDHEAD
	SPRING	SUMMER	FALL		SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	
SEADWARF	3.3	99.0	95.7	6.0	5.3	5.7	6.7	6.0	1.0
UGA 1743	1.3	96.0	83.3	6.7	5.7	5.7	6.7	6.7	1.0
LSD VALUE	31.9	7.9	40.1	0.9	1.2	2.0	1.3	0.9	2.8
C.V. (%)	52.5	3.8	5.4	12.9	14.8	12.5	0.0	12.9	0.0

TABLE 1C.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT TUCSON, AZ 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	PERCENT WEEDS	LARGE PATVH DISEASE	MAY	BALL ROLL MEASURED			NUMBERS OF WORM	DROUGHT WILTING
				JUNE	OCTOBER	DECEMBER		
SEADWARF	13.3	9.0	92.0	79.3	72.0	96.0	13.7	9.0
UGA 1743	6.0	6.3	94.0	81.7	73.0	96.7	38.0	9.0
LSD VALUE	3.0	5.8	8.8	7.7	10.7	13.5	1.2	1.8
C.V. (%)	18.4	42.6	1.5	2.7	3.9	2.8	110.9	0.0

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 2A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT RANCHO MIRAGE, CA (TAMARISK C.C.) 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	GENETIC COLOR	LEAF TEXTURE	PERCENT		BALL ROLL		QUALITY RATINGS												
			COVER SPRING	WINTER COLOR	AUGUST	OCTOBER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
11-T-861	7.0	6.0	80.0	5.7	56.7	60.0	4.7	4.7	4.3	4.3	4.3	5.3	7.3	6.3	6.0	5.3	5.0	4.7	5.2
MSB-264	7.3	7.0	94.7	4.7	66.7	70.7	4.7	4.7	5.3	5.3	5.3	5.0	5.0	4.3	4.7	4.3	4.0	3.7	4.7
OKC-13-78-5	7.7	6.7	96.0	5.7	71.3	71.3	4.3	4.3	5.3	5.7	6.0	5.0	4.0	4.0	4.0	4.0	4.3	4.7	4.6
OKC-16-13-8	8.0	6.3	91.0	5.0	60.7	57.3	4.7	4.3	5.0	5.3	6.3	5.0	3.7	4.0	3.7	4.3	4.3	4.0	4.6
OKC-1-75-2	7.7	5.7	96.3	4.7	65.3	69.3	5.0	5.3	6.0	6.0	7.0	4.7	2.7	3.3	3.0	3.7	3.7	3.7	4.5
TIFWARF	7.0	6.7	86.7	4.7	68.0	70.7	4.3	4.7	4.3	4.3	4.3	4.3	4.7	4.7	4.7	4.3	4.7	4.3	4.5
08-T-18	6.3	8.0	88.0	5.3	63.3	60.7	4.3	4.7	5.0	5.3	5.3	4.3	3.7	3.7	4.3	4.3	4.0	4.3	4.4
JK 110521	6.3	6.0	84.7	4.7	84.0	84.0	4.0	4.0	4.3	4.3	4.3	4.7	5.0	4.3	4.3	4.3	4.0	3.7	4.3
CTF-B10	5.7	6.0	83.0	5.0	60.7	65.3	4.3	4.0	4.3	4.7	4.3	4.0	3.7	3.7	4.0	4.0	4.0	4.3	4.1
MSB-285	7.0	7.0	97.7	4.3	58.0	59.3	4.0	4.0	4.7	5.0	5.3	5.0	4.0	3.7	3.7	3.7	3.3	3.3	4.1
SUNDAY	6.0	7.0	75.0	5.3	78.0	81.3	4.0	4.3	4.3	4.7	4.7	4.0	3.0	3.3	4.0	4.0	4.3	4.3	4.1
TIFEAGLE	6.3	6.3	81.3	4.0	62.7	70.0	4.3	5.0	5.0	5.0	5.3	4.3	3.3	3.3	3.7	3.3	3.3	3.0	4.1
FAES 1302	6.0	7.7	80.0	4.0	72.7	78.7	4.0	4.0	4.0	4.3	4.3	3.7	3.0	3.0	3.3	3.3	3.3	3.0	3.6
MINI-VERDE	6.0	8.0	86.7	4.3	86.7	90.7	3.7	4.0	3.7	4.0	4.0	4.0	3.3	3.3	3.3	3.3	3.3	3.3	3.6
CTF-E3	.	.	0.0	1.0	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LSD VALUE	0.8	1.1	17.7	1.6	18.5	19.8	1.0	1.5	1.4	1.9	1.8	2.0	3.6	3.0	2.4	2.1	2.3	2.1	1.7
C.V. (%)	7.4	9.4	14.0	20.5	14.0	14.5	14.7	19.7	18.3	22.4	22.0	24.6	43.9	36.6	30.8	27.1	29.0	28.0	22.3

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 2B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT RANCHO MIRAGE, CA (TAMARISK C.C.) 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	GENETIC COLOR	LEAF TEXTURE	PERCENT	WINTER COLOR	BALL ROLL		QUALITY RATINGS												
			COVER SPRING		AUGUST	OCTOBER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
DIAMOND	7.0	7.0	93.0	7.0	64.0	70.0	5.3	5.3	5.7	6.3	7.0	6.3	6.0	6.3	6.3	6.0	6.3	6.0	6.1
10-TZ-74	6.7	6.7	92.7	6.7	65.3	71.3	5.3	6.0	5.7	6.0	7.0	5.7	5.3	5.7	5.7	5.7	5.7	5.7	5.8
DALZ 1306	7.0	8.0	79.3	6.7	70.7	74.7	5.3	5.3	5.7	5.3	5.3	6.0	6.0	6.0	5.7	6.0	5.7	6.3	5.7
DALZ 1309	7.0	7.7	85.0	7.0	70.7	72.7	5.3	5.7	5.3	5.7	5.7	5.0	4.3	5.3	6.0	6.0	6.0	5.5	
DALZ 1308	7.0	7.7	73.3	6.7	66.0	66.7	5.0	5.0	5.3	5.0	5.3	5.3	5.0	5.3	5.7	5.7	5.7	6.0	5.4
L1F	7.0	6.7	97.7	6.7	66.0	68.0	5.0	5.7	5.3	5.7	6.7	5.3	4.0	4.7	5.3	5.3	5.7	5.7	5.4
DALZ 1307	7.0	6.7	70.0	6.7	62.0	64.7	5.0	5.0	5.0	5.0	5.3	4.3	4.0	5.0	5.3	5.7	5.7	6.0	5.1
DALZ 1304	7.0	6.3	50.0	6.7	59.3	64.7	4.7	4.7	4.7	4.3	4.0	4.7	5.0	5.3	5.3	5.7	5.7	6.3	5.0
DALZ 1305	7.0	8.3	93.0	6.0	63.3	69.3	4.7	5.3	4.7	5.7	6.3	5.3	4.0	4.0	5.0	5.0	5.0	5.0	5.0
ZOYSIU	6.3	7.7	86.3	6.3	63.3	66.7	4.7	4.7	5.3	5.3	6.3	5.3	3.7	3.7	4.7	5.0	5.3	5.7	5.0
FAES 1301	6.7	7.3	70.0	7.0	56.0	56.0	4.3	4.3	4.3	4.3	4.7	4.3	3.7	4.3	4.7	5.3	5.7	6.0	4.7
LSD VALUE	0.6	1.2	26.0	1.5	14.1	22.9	1.6	1.3	1.6	1.6	2.1	2.3	3.7	2.4	2.1	1.9	1.6	2.6	1.4
C.V. (%)	4.1	8.6	16.8	8.1	9.4	12.9	12.1	11.5	12.6	14.1	17.7	18.0	30.9	21.2	15.3	12.6	10.6	15.1	11.1

TABLE 2C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT RANCHO MIRAGE, CA (TAMARISK C.C.) 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	GENETIC COLOR	LEAF TEXTURE	PERCENT	WINTER COLOR	BALL ROLL		QUALITY RATINGS												
			COVER SPRING		AUGUST	OCTOBER	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
SEADWARF	7.0	6.7	96.3	5.3	52.0	54.0	5.0	5.3	5.3	6.0	6.7	6.0	5.3	5.0	5.3	4.7	4.7	4.3	5.3
UGA 1743	7.0	6.7	94.7	4.3	58.0	59.3	4.0	4.0	4.7	5.3	6.7	6.0	6.0	5.7	5.3	4.0	3.7	3.3	4.9
LSD VALUE	0.6	1.2	26.0	1.5	14.1	22.9	1.6	1.3	1.6	1.6	2.1	2.3	3.7	2.4	2.1	1.9	1.6	2.6	1.4
C.V. (%)	0.0	10.6	3.7	25.3	6.8	8.0	15.7	8.7	16.3	7.2	10.6	0.0	26.0	15.3	0.0	9.4	17.0	31.9	8.1

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 3A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT JAY, FL 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL SPEED MEASURED IN INCHES

NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS								MEAN
			APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
MINI-VERDE	6.3	5.7	4.7	5.0	5.0	5.3	6.0	6.7	8.0	5.3	5.8
08-T-18	5.7	6.3	5.3	6.0	6.3	5.7	5.0	4.3	6.0	5.3	5.5
11-T-861	6.3	7.3	5.7	5.0	5.7	5.3	6.0	5.7	7.0	4.0	5.5
MSB-264	7.0	6.0	5.7	5.3	4.7	5.7	4.7	4.7	7.3	5.3	5.4
OKC-13-78-5	7.3	8.0	6.3	6.7	6.3	4.3	4.7	4.0	7.0	4.0	5.4
MSB-285	7.0	6.3	5.3	5.3	5.0	5.0	5.0	4.0	6.7	5.0	5.2
TIFEAGLE	5.7	6.0	4.3	4.3	3.7	4.3	6.0	6.0	7.7	5.3	5.2
FAES 1302	4.7	5.0	4.7	4.3	4.0	4.3	6.0	5.7	7.0	5.0	5.1
JK 110521	5.0	4.0	3.3	3.7	4.0	5.0	5.3	6.0	7.0	5.3	5.0
TIFWARF	5.7	6.7	4.7	4.7	4.0	4.7	5.0	6.0	6.7	4.0	5.0
CTF-B10	5.7	4.3	3.3	3.7	3.7	4.7	5.7	6.0	7.0	5.0	4.9
SUNDAY	4.3	4.3	3.7	4.0	4.0	4.7	5.7	5.7	6.3	5.3	4.9
OKC-1-75-2	4.7	8.0	6.0	5.7	5.3	2.7	4.0	4.3	6.7	3.3	4.8
OKC-16-13-8	6.7	7.7	5.3	5.0	6.0	4.7	4.0	3.7	5.7	3.7	4.8
CTF-E3	5.0	5.0	4.3	3.3	3.7	4.0	5.0	5.7	6.3	4.7	4.6
LSD VALUE	1.7	1.1	0.9	0.8	1.2	1.5	0.8	1.3	1.8	1.1	0.4
C.V. (%)	15.6	11.3	11.7	10.9	15.4	16.8	9.2	14.3	11.5	12.8	4.8

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 3A.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT JAY, FL 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL SPEED MEASURED IN INCHES

NAME	SPRING SENSITY	SUMMER DENSITY	FALL DENSITY	WINTER COLOR	FALL COLOR SEPTEMBER	SEPTEMBER-NOVEMBER OCTOBER	NOVEMBER	BALL ROLL SPEED
MINI-VERDE	5.3	5.7	7.0	7.0	7.3	8.0	7.0	87.0
08-T-18	6.3	6.7	5.0	7.3	6.7	7.0	7.0	84.7
11-T-861	6.3	6.0	6.0	5.3	6.3	7.0	5.7	76.7
MSB-264	5.7	6.0	5.0	6.7	7.0	7.7	6.0	81.7
OKC-13-78-5	6.7	4.7	4.3	7.3	6.3	7.7	4.3	85.3
MSB-285	5.7	5.3	5.3	7.0	7.0	7.7	6.7	82.3
TIFEAGLE	5.0	5.7	6.3	7.3	6.0	7.3	6.7	82.0
FAES 1302	4.7	5.0	6.0	6.7	5.7	6.7	6.7	82.7
JK 110521	4.3	5.7	6.3	7.3	6.0	6.0	5.3	85.3
TIFWARF	5.7	4.7	5.7	7.0	6.7	8.3	6.0	85.0
CTF-B10	4.3	5.3	6.0	6.7	6.3	7.3	7.0	86.3
SUNDAY	5.0	4.7	5.7	6.0	4.3	5.7	4.0	82.7
OKC-1-75-2	6.3	3.3	3.7	7.0	5.7	7.7	4.0	83.7
OKC-16-13-8	6.0	5.7	3.7	7.3	5.3	7.0	4.0	86.7
CTF-E3	4.0	4.3	6.7	6.7	6.0	6.3	6.3	80.7
LSD VALUE	1.0	1.4	1.3	1.5	1.7	1.3	1.5	4.1
C.V. (%)	11.4	14.4	13.6	10.2	13.4	9.6	15.7	2.8

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 3B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
 IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT JAY, FL 1/  
 2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
 BALL ROLL SPEED MEASURED IN INCHES

NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS								MEAN
			APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
ZOYSIU	7.0	7.7	7.7	8.0	6.0	7.0	7.3	6.3	7.7	6.7	7.1
DALZ 1305	7.7	5.7	5.7	7.0	6.7	7.3	7.0	6.7	8.3	6.3	6.9
DIAMOND	7.7	6.7	6.7	6.7	6.7	7.3	7.3	6.3	7.0	6.3	6.8
DALZ 1306	5.7	5.7	5.7	5.0	6.7	7.0	7.3	6.7	8.0	6.3	6.6
FAES 1301	8.0	6.0	6.0	6.7	5.0	7.0	8.0	6.0	7.3	6.7	6.6
DALZ 1304	6.7	5.0	5.0	6.0	6.0	7.0	7.0	6.7	7.7	7.0	6.5
L1F	6.3	6.0	6.0	6.0	6.3	7.0	6.3	7.0	7.3	6.0	6.5
DALZ 1308	6.0	4.3	4.3	5.0	6.0	6.0	7.0	6.7	8.3	6.7	6.3
DALZ 1309	6.3	5.3	5.3	5.0	5.0	6.0	6.7	6.7	8.0	6.7	6.2
DALZ 1307	6.3	5.0	5.0	5.0	4.7	6.3	6.7	6.0	8.3	6.0	6.0
10-TZ-74	6.7	6.0	6.0	6.0	5.3	6.0	6.0	5.7	6.7	5.7	5.9
LSD VALUE	0.9	1.7	1.7	1.3	1.1	1.3	1.8	2.4	1.4	1.8	0.7
C.V. (%)	7.5	15.3	15.3	12.6	10.6	9.1	10.9	13.1	8.5	10.9	5.4

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 3B.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT JAY, FL 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL SPEED MEASURED IN INCHES

NAME	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	WINTER COLOR	FALL COLOR SEPTEMBER	SEPTEMBER-NOVEMBER OCTOBER	NOVEMBER	BALL ROLL SPEED	SEEDHEAD RATINGS MARCH	APRIL
ZOYSIU	6.7	6.3	6.7	4.0	5.3	6.7	6.7	72.7	9.0	9.0
DALZ 1305	6.3	6.7	7.0	5.7	7.7	8.3	5.7	82.3	2.3	6.3
DIAMOND	6.3	7.0	6.3	4.0	6.7	6.7	6.3	81.7	9.0	9.0
DALZ 1306	6.0	7.3	7.3	4.0	6.0	7.0	5.3	80.0	7.7	7.0
FAES 1301	5.7	7.3	7.3	6.7	6.7	7.3	7.3	83.0	9.0	9.0
DALZ 1304	6.7	7.0	6.7	5.3	6.3	8.0	7.0	80.0	2.3	4.3
L1F	6.0	7.0	7.0	4.3	5.7	7.0	5.3	77.3	9.0	9.0
DALZ 1308	5.3	6.3	7.3	5.3	6.0	7.3	6.3	84.7	6.3	4.3
DALZ 1309	5.0	6.7	7.3	5.0	6.3	6.7	6.7	87.0	5.7	5.7
DALZ 1307	6.0	6.7	7.0	6.0	6.3	8.0	6.3	81.7	1.0	5.0
10-TZ-74	5.7	6.3	6.7	5.3	7.0	7.3	7.0	87.3	7.7	8.3
LSD VALUE	1.5	1.5	1.8	2.6	0.8	1.6	1.2	11.1	2.2	2.7
C.V. (%)	11.2	8.9	9.4	22.6	7.5	9.9	10.2	6.3	21.9	21.9

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 3C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT JAY, FL 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL SPEED MEASURED IN INCHES

NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS								MEAN
			APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
SEADWARF	7.7	6.7	5.0	5.7	6.0	7.0	6.7	6.7	7.3	6.0	6.3
UGA 1743	6.3	7.0	4.0	5.3	6.0	6.0	6.7	6.7	7.0	6.3	6.0
LSD VALUE	0.9	1.7	1.7	1.3	1.1	1.3	1.8	2.4	1.4	1.8	0.7
C.V. (%)	11.7	6.0	15.7	7.4	11.8	0.0	10.6	10.6	5.7	6.6	7.9

TABLE 3C.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT JAY, FL 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL SPEED MEASURED IN INCHES

NAME	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	WINTER COLOR	FALL COLOR SEPTEMBER-NOVEMBER		
					SEPTEMBER	OCTOBER	NOVEMBER
SEADWARF	6.7	7.0	7.0	5.0	5.7	7.0	5.3
UGA 1743	5.7	7.0	6.7	4.0	5.7	6.0	5.3
LSD VALUE	1.5	1.5	1.8	2.6	0.8	1.6	1.2
C.V. (%)	11.5	10.1	6.0	0.0	12.5	0.0	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 4A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS  
 IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT GRIFFIN, GA 1/  
 2017 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	FALL COLOR		QUALITY RATINGS							MEAN	
			SEPTEMBER	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT		
08-T-18	6.0	6.7	7.0	6.7	4.0	5.3	7.0	7.0	7.0	7.0	7.0	7.0	6.3
MSB-264	6.3	5.3	7.0	7.0	4.0	5.0	7.0	7.0	7.0	7.0	7.0	7.0	6.3
MSB-285	6.3	6.3	7.0	6.3	3.3	5.7	7.0	7.0	7.0	7.0	7.0	7.0	6.3
OKC-1-75-2	6.3	5.7	6.7	6.3	4.0	5.0	7.0	7.0	7.0	7.0	7.0	7.0	6.3
OKC-13-78-5	6.0	5.0	6.7	6.3	4.0	5.0	7.0	7.0	7.0	7.0	7.0	7.0	6.3
FAES 1302	6.3	5.7	7.0	6.3	3.3	5.0	7.0	7.0	7.0	7.0	7.0	7.0	6.2
OKC-16-13-8	6.3	5.7	6.7	6.3	3.7	5.0	7.0	7.0	7.0	7.0	7.0	7.0	6.2
TIFEAGLE	6.3	5.3	7.0	6.7	3.3	5.3	7.0	7.0	7.0	7.0	7.0	7.0	6.2
TIFWARF	6.3	5.0	6.7	6.3	3.3	5.0	7.0	7.0	7.0	7.0	7.0	7.0	6.2
11-T-861	6.0	6.0	6.7	6.7	3.7	4.7	7.0	6.7	7.0	7.0	7.0	7.0	6.1
CTF-B10	6.3	5.3	6.7	6.7	3.0	5.0	6.7	7.0	7.0	7.0	7.0	7.0	6.1
JK 110521	6.7	5.0	6.7	6.0	3.3	5.0	7.0	7.0	7.0	7.0	7.0	6.7	6.1
MINI-VERDE	6.7	5.7	7.0	7.0	3.3	5.0	6.7	6.7	7.0	7.0	7.0	7.0	6.1
SUNDAY	6.0	5.0	7.0	7.0	3.0	4.3	7.0	7.0	7.0	7.3	7.0	7.0	6.1
CTF-E3	6.0	5.0	7.0	6.7	3.0	5.0	6.0	6.7	6.7	6.7	6.7	6.7	5.8
LSD VALUE	1.3	1.9	1.3	1.4	0.9	1.4	0.7	0.8	0.4	0.6	1.2	0.4	0.4
C.V. (%)	7.1	14.0	5.9	7.8	12.1	10.0	4.8	3.7	2.1	3.1	4.9	2.9	2.9

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 4B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT GRIFFIN, GA 1/  
2017 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	FALL COLOR		QUALITY RATINGS						MEAN	
			SEPTEMBER	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP		OCT
DALZ 1307	6.7	5.7	7.0	6.7	5.0	7.0	7	7	7	7	7.0	6.7
DALZ 1304	6.7	5.0	7.0	7.0	4.3	7.0	7	7	7	7	7.0	6.6
DALZ 1306	7.0	6.3	7.0	7.0	4.3	6.7	7	7	7	7	7.0	6.6
DALZ 1308	7.0	5.7	7.0	6.7	4.3	6.7	7	7	7	7	7.0	6.6
DIAMOND	7.0	6.0	7.0	7.0	4.3	6.7	7	7	7	7	7.0	6.6
ZOYSIU	7.0	5.7	7.0	7.0	4.0	7.0	7	7	7	7	7.0	6.6
10-TZ-74	6.3	6.3	6.7	6.7	4.0	6.7	7	7	7	7	7.0	6.5
DALZ 1305	7.0	5.7	7.0	7.0	3.7	7.0	7	7	7	7	6.7	6.5
DALZ 1309	7.0	6.3	7.0	7.0	4.0	7.0	7	7	7	7	6.7	6.5
FAES 1301	7.0	5.7	7.0	7.0	3.7	6.7	7	7	7	7	7.0	6.5
L1F	7.0	5.7	7.0	7.0	4.3	6.3	7	7	7	7	7.0	6.5
LSD VALUE	0.7	2.7	0.5	0.8	1.5	0.8	0	0	0	0	0.6	0.3
C.V. (%)	4.3	16.0	2.5	4.4	14.4	4.8	0	0	0	0	3.4	1.8

TABLE 4C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT GRIFFIN, GA 1/  
2017 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	FALL COLOR		QUALITY RATINGS						MEAN	
			SEPTEMBER	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP		OCT
SEADWARF	6.7	5.3	6.7	6.7	5.3	6.7	7	7	7	7	7.0	6.7
UGA 1743	6.7	5.0	7.0	7.0	5.3	6.7	7	7	7	7	7.0	6.7
LSD VALUE	0.7	2.7	0.5	0.8	1.5	0.8	0	0	0	0	0.6	0.3
C.V. (%)	0.0	7.9	6.0	6.0	0.0	10.6	0	0	0	0	0.0	1.5

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 5A. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT BLOOMINGTON, IN 1/  
2017 DATA

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

NAME	SPRING GREENUP	PERCENT	QUALITY RATINGS					MEAN
		COVER SPRING	MAY	JUN	JUL	AUG	SEP	
TIFEAGLE	4.3	91.7	5.0	6.0	6.7	6.3	6.7	6.1
JK 110521	2.0	74.0	3.3	5.7	6.3	6.3	5.7	5.5
SUNDAY	3.3	83.3	3.3	5.3	6.3	5.7	6.0	5.3
CTF-B10	2.3	65.0	2.7	5.3	6.0	6.0	6.0	5.2
MSB-264	4.3	93.0	4.3	5.7	5.3	5.3	5.3	5.2
MINI-VERDE	2.3	73.3	2.7	4.7	6.0	6.3	5.7	5.1
OKC-13-78-5	7.0	92.0	4.3	5.7	5.3	5.0	5.0	5.1
MSB-285	4.0	92.7	4.0	5.3	5.0	5.3	5.3	5.0
TIFWARF	4.0	88.0	3.3	5.7	5.7	5.0	5.3	5.0
OKC-16-13-8	7.0	90.0	4.0	5.7	5.3	4.3	5.3	4.9
08-T-18	1.0	48.3	2.3	4.3	6.0	5.7	5.7	4.8
OKC-1-75-2	6.3	90.3	3.3	5.3	4.3	3.7	4.7	4.3
FAES 1302	2.3	41.7	1.3	3.7	5.3	4.7	4.7	3.9
11-T-861	6.3	81.7	2.0	4.3	4.0	4.0	4.7	3.8
CTF-E3	.	.	.	.	.	.	.	.
LSD VALUE	1.5	18.8	1.1	0.9	1.0	0.8	0.9	0.6
C.V. (%)	23.2	14.4	19.9	10.1	10.8	9.8	9.5	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.

TABLE 5B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT BLOOMINGTON, IN 1/  
2017 DATA

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

NAME	SPRING GREENUP	PERCENT COVER SPRING	QUALITY RATINGS					SEP	MEAN
			MAY	JUN	JUL	AUG			
DALZ 1308	5.3	87.3	5.3	6.7	7.3	7.0	6.3	6.5	
10-TZ-74	5.7	76.7	4.7	5.3	5.7	5.3	6.3	5.5	
DALZ 1309	4.0	70.7	3.0	5.7	6.0	6.3	6.3	5.5	
DALZ 1304	4.3	85.0	4.3	5.3	5.7	5.7	6.0	5.4	
DIAMOND	4.0	80.0	4.0	5.3	5.7	6.0	5.7	5.3	
DALZ 1307	3.0	61.7	3.0	5.7	6.0	5.7	5.3	5.1	
ZOYSIU	7.3	96.3	5.3	5.0	5.0	5.3	4.7	5.1	
DALZ 1306	5.0	87.7	4.0	5.3	5.3	5.0	4.7	4.9	
FAES 1301	5.0	70.0	3.0	5.0	6.0	4.7	5.3	4.8	
L1F	3.0	58.3	2.7	5.0	5.3	5.7	5.3	4.8	
DALZ 1305	2.3	45.0	2.3	3.7	4.3	4.3	4.7	3.9	
LSD VALUE	1.7	34.8	1.8	1.4	1.5	1.6	3.2	1.5	
C.V. (%)	22.6	22.6	25.8	13.8	13.6	14.5	22.0	14.1	

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 6A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS  
 IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT LEXINGTON, KY 1/  
 2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
 BALL ROLL SPEED MEASURED IN INCHES

NAME	BALL ROLL SPEED IN INCHES						QUALITY RATINGS			MEAN
	SPRING GREENUP	JUNE	JULY	AUGUST	SEPTEMBER	JUN	JUL	AUG	SEP	
OKC-16-13-8	6.7	65.7	59.0	70.0	67.3	7.0	7.0	6.7	7.7	7.1
08-T-18	6.0	65.0	63.3	63.7	64.3	6.7	7.0	6.3	7.0	6.8
MSB-264	5.7	70.7	59.3	66.0	62.3	6.3	6.7	7.0	7.0	6.8
OKC-13-78-5	6.7	71.3	63.3	72.0	67.3	6.7	6.0	6.7	7.7	6.8
JK 110521	3.7	95.5	77.7	86.3	81.5	4.5	6.3	7.3	6.5	6.4
MSB-285	6.0	70.3	70.3	71.3	63.3	6.3	6.3	6.7	6.3	6.4
CTF-B10	3.7	93.0	85.0	89.0	78.7	5.3	6.0	7.0	7.0	6.3
FAES 1302	4.3	83.0	73.7	66.7	76.3	5.7	6.0	6.3	7.0	6.3
MINI-VERDE	4.3	94.7	80.7	78.3	86.0	5.3	5.7	7.0	6.0	6.0
11-T-861	5.0	65.3	57.0	62.7	64.7	5.7	6.0	6.0	5.7	5.8
OKC-1-75-2	3.3	77.3	55.5	64.3	65.7	5.3	5.3	6.0	6.3	5.8
TIFEAGLE	3.7	97.0	82.3	75.7	75.3	5.3	5.3	6.7	6.0	5.8
CTF-E3	5.0	67.0	68.5	71.7	69.0	6.5	5.3	6.0	6.0	5.4
SUNDAY	3.3	98.3	77.5	74.7	75.0	4.7	5.3	6.0	6.0	5.4
TIFWARF	2.7	98.0	79.0	78.0	85.5	4.7	4.7	6.0	6.0	5.2
LSD VALUE	1.6	16.3	9.5	13.5	13.8	2.0	1.3	1.1	0.8	0.9
C.V. (%)	19.1	11.0	7.6	10.0	9.6	15.6	11.7	8.0	6.6	8.5

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 6B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT LEXINGTON, KY 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL SPEED MEASURED IN INCHES

NAME	SPRING GREENUP	BALL ROLL SPEED IN INCHES				QUALITY RATINGS				MEAN
		JUNE	JULY	AUGUST	SEPTEMBER	JUN	JUL	AUG	SEP	
DALZ 1308	5.3	71.0	72.3	74.0	86.7	5.3	7.0	8.0	7.7	7.0
DALZ 1304	5.0	64.0	70.0	66.0	66.3	6.0	6.0	7.7	7.3	6.8
DALZ 1309	5.5	66.7	67.0	67.7	74.3	5.7	6.7	7.0	7.3	6.7
DIAMOND	6.0	67.0	65.0	69.5	80.5	6.7	6.0	6.7	7.0	6.6
ZOYSIU	5.3	76.7	53.3	52.0	57.3	6.0	6.3	7.0	7.0	6.6
DALZ 1305	5.0	62.0	65.3	66.3	65.3	5.7	5.7	7.3	7.3	6.5
FAES 1301	5.0	65.7	71.5	78.7	74.0	6.7	4.7	7.5	6.7	6.2
DALZ 1307	4.3	61.5	69.0	74.3	75.0	5.0	6.0	6.3	7.0	6.1
10-TZ-74	4.7	71.0	75.3	66.7	75.0	5.7	6.0	6.3	6.0	6.0
L1F	5.0	72.0	64.7	67.3	63.7	4.7	5.0	6.0	6.7	5.6
DALZ 1306	3.5	74.0	70.0	61.0	71.0	5.5	5.3	5.3	6.0	5.5
LSD VALUE	5.4	29.1	13.3	11.7	26.0	3.5	1.7	2.0	1.2	1.1
C.V. (%)	33.3	13.3	9.0	9.0	13.7	21.7	13.5	13.2	8.2	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 7A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT MISS. ST., MS 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	QUALITY RATINGS								MEAN
				APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
MSB-264	7.0	5.7	7.0	5.7	6.3	6.0	6.7	6.0	6.0	6.7	6.0	6.2
MSB-285	7.0	5.7	7.0	6.0	6.7	6.3	6.3	6.0	6.0	6.0	6.0	6.2
MINI-VERDE	6.3	3.0	6.7	5.0	5.7	5.7	6.0	5.3	5.3	5.7	5.0	5.5
TIFEAGLE	6.0	3.0	6.0	4.7	5.7	6.0	6.0	5.7	5.0	5.7	5.0	5.5
CTF-B10	6.0	2.3	6.7	4.0	5.0	5.3	6.0	5.7	5.3	6.0	5.0	5.3
11-T-861	6.0	1.0	5.7	4.3	5.0	6.0	5.3	5.0	5.3	5.3	4.3	5.1
JK 110521	6.3	3.3	6.3	4.3	5.0	4.7	5.7	5.3	5.3	5.7	5.0	5.1
FAES 1302	6.0	3.3	6.0	4.3	4.7	4.7	6.0	5.3	4.7	5.3	4.7	5.0
SUNDAY	6.0	4.3	6.0	4.3	5.3	4.7	5.7	5.3	4.7	5.3	5.0	5.0
OKC-13-78-5	7.0	2.7	6.3	4.3	5.3	5.3	5.0	4.7	5.0	5.0	4.7	4.9
TIFWARF	6.0	3.0	5.0	4.7	5.0	5.3	5.0	5.0	4.0	4.0	4.0	4.6
CTF-E3	6.0	3.0	6.0	4.0	3.0	5.0	5.0	5.0	.	.	.	4.4
08-T-18	6.0	3.3	6.3	3.3	4.7	3.7	4.7	4.3	4.3	4.3	3.7	4.1
OKC-16-13-8	6.7	2.0	6.7	4.3	4.0	3.7	3.3	3.7	3.3	3.3	3.3	3.6
OKC-1-75-2	6.7	2.7	6.7	3.3	4.3	3.0	3.3	3.3	3.7	3.7	3.7	3.5
LSD VALUE	0.8	1.0	0.8	1.2	1.2	1.8	1.6	1.6	2.0	1.6	1.3	1.2
C.V. (%)	6.4	17.9	7.0	14.4	12.7	18.6	15.6	15.4	19.4	17.3	15.4	13.2

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 7A.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT MISS. ST., MS 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	FALL	BALL ROLL MEASURED IN INCHES		
				COLOR DECEMBER	JUNE	JULY	SEPTEMBER
MSB-264	7.0	7.0	5.7	4.0	72.0	73.3	73.0
MSB-285	7.0	7.0	5.7	3.7	83.0	88.0	82.0
MINI-VERDE	6.3	7.0	5.0	2.0	94.7	111.0	113.0
TIFEAGLE	6.7	6.7	5.0	2.0	92.7	95.0	103.3
CTF-B10	6.7	6.7	5.0	1.0	98.7	108.3	107.0
11-T-861	6.0	5.7	5.0	2.0	74.3	85.3	81.3
JK 110521	6.0	6.7	4.7	1.7	96.7	104.0	106.3
FAES 1302	6.0	6.3	4.7	2.0	96.3	108.7	101.0
SUNDAY	5.7	6.0	4.7	1.7	89.7	104.3	101.7
OKC-13-78-5	6.0	6.0	5.0	1.7	84.7	92.7	89.3
TIFWARF	5.0	5.0	4.0	2.0	99.3	116.3	110.7
CTF-E3	6.0	6.0	.	.	.	91.0	82.0
08-T-18	5.3	5.3	3.7	1.7	83.5	106.7	99.3
OKC-16-13-8	4.7	4.7	4.0	1.7	83.0	97.7	94.3
OKC-1-75-2	4.3	5.0	3.0	1.7	81.0	104.7	95.3
LSD VALUE	1.6	1.7	1.2	0.6	10.3	27.6	22.0
C.V. (%)	13.3	13.5	14.0	19.9	6.3	12.8	11.5

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 7B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT MISS. ST., MS 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	QUALITY RATINGS									MEAN
				APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
DALZ 1308	7.0	5.3	7.3	5.0	6.7	8.0	7.3	7.0	7.0	7.0	7.0	7.0	6.9
DALZ 1307	7.0	6.0	7.7	5.3	6.0	6.7	7.0	6.7	7.0	7.0	7.0	7.0	6.6
DALZ 1306	7.0	5.7	7.0	4.7	5.3	6.3	7.0	6.7	7.0	7.0	6.3	6.3	6.3
DALZ 1309	7.0	5.3	8.0	4.0	5.7	6.3	7.3	6.3	7.0	7.0	6.3	6.3	6.3
DIAMOND	7.0	6.0	7.0	4.7	5.7	7.0	6.7	7.0	6.7	6.3	6.3	6.3	6.3
DALZ 1304	6.3	6.0	6.3	5.7	5.7	6.7	6.0	6.0	6.0	6.0	6.0	6.0	6.0
DALZ 1305	6.7	5.3	6.0	5.0	5.3	6.0	6.0	6.0	6.0	6.0	6.0	6.0	5.8
L1F	6.0	4.7	6.3	4.0	5.3	6.3	6.0	6.3	6.0	6.0	6.0	6.0	5.8
ZOYSIU	6.0	6.0	5.0	5.0	5.7	6.0	5.7	5.3	5.0	5.0	5.0	5.0	5.3
10-TZ-74	6.0	5.5	8.0	4.3	.	.	.	.	.	.	.	.	4.3
FAES 1301	7.7	4.3	8.0	2.7	4.0	3.7	4.3	4.3	4.7	4.7	4.3	4.3	4.1
LSD VALUE	0.6	1.1	0.7	1.6	0.8	0.8	0.7	0.8	0.4	0.4	0.8	0.8	0.5
C.V. (%)	4.9	10.1	5.5	17.8	8.6	8.0	6.9	7.6	4.3	4.4	8.0	8.0	5.1

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 7B.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT MISS. ST., MS 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	FALL	BALL ROLL MEASURED IN INCHES		
				COLOR DECEMBER	JUNE	JULY	SEPTEMBER
DALZ 1308	7.0	8.0	7.0	4.3	70.3	74.7	79.3
DALZ 1307	7.3	8.0	7.0	4.3	75.0	84.0	86.7
DALZ 1306	7.0	7.3	6.7	4.7	73.7	80.0	83.3
DALZ 1309	7.0	8.0	7.0	5.7	78.0	82.0	85.0
DIAMOND	6.7	7.0	6.3	5.3	70.7	78.0	81.0
DALZ 1304	6.0	6.7	6.0	5.7	69.3	76.7	84.0
DALZ 1305	6.0	6.0	6.0	4.3	64.3	73.7	77.0
L1F	6.0	7.0	6.0	5.0	70.0	80.0	84.3
ZOYSIU	5.3	6.0	5.0	5.0	65.0	73.3	78.0
10-TZ-74	.	.	.	4.0	.	.	.
FAES 1301	5.0	7.7	6.3	4.7	88.3	90.7	85.0
LSD VALUE	0.8	0.5	0.5	1.5	12.9	10.9	20.6
C.V. (%)	7.2	4.1	5.2	13.9	9.2	6.9	8.9

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 7C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT MISS. ST., MS 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	QUALITY RATINGS									MEAN
				APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV		
SEADWARF	7.0	4.3	6.0	5.0	6.0	6.7	6.0	7.0	6.0	7.0	6.0	6.2	
UGA 1743	7.0	4.0	6.0	4.3	5.3	6.3	6.0	6.7	5.7	7.0	5.3	5.8	
LSD VALUE	0.6	1.1	0.7	1.6	0.8	0.8	0.7	0.8	0.4	0.4	0.8	0.5	
C.V. (%)	0.0	9.8	0.0	8.7	7.2	12.6	0.0	6.0	7.0	0.0	7.2	5.3	

TABLE 7C.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT MISS. ST., MS 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/  
BALL ROLL MEASURED IN INCHES

NAME	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	FALL COLOR DECEMBER	BALL ROLL MEASURED IN INCHES		
					JUNE	JULY	SEPTEMBER
SEADWARF	6.0	6.0	5.0	3.7	69.3	79.7	77.0
UGA 1743	6.0	6.0	4.7	3.3	73.7	83.0	75.3
LSD VALUE	0.8	0.5	0.5	1.5	12.9	10.9	20.6
C.V. (%)	0.0	0.0	8.4	11.7	13.2	11.3	6.0

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 8A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT COLLEGE STATION, TX 1/  
2017 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	WINTER COLOR	QUALITY RATINGS							MEAN
					APR	MAY	JUN	JUL	AUG	SEP	OCT	
MSB-285	5.7	7.3	7.3	6.0	6.3	6.0	6.7	7.0	7.3	7.0	7.0	6.8
MSB-264	6.3	6.7	7.3	6.0	6.7	6.3	6.0	7.0	7.0	7.0	6.7	6.7
OKC-13-78-5	6.3	8.0	7.0	5.3	7.3	5.3	6.0	6.3	7.7	6.7	6.7	6.6
08-T-18	5.7	7.0	6.7	4.0	7.3	6.3	6.0	5.3	7.7	5.3	5.3	6.2
OKC-16-13-8	6.0	6.7	6.7	3.3	6.3	6.7	6.3	5.7	7.0	5.3	5.3	6.1
JK 110521	6.7	6.3	6.0	4.0	5.3	6.0	6.0	5.7	7.0	6.0	5.7	6.0
CTF-E3	6.0	5.7	6.3	4.3	5.3	6.0	5.0	6.7	6.3	5.7	5.7	5.8
SUNDAY	6.7	6.3	6.3	4.7	5.0	6.3	5.3	5.7	6.0	6.0	6.0	5.8
11-T-861	6.0	6.3	6.0	3.3	6.3	5.3	4.7	6.3	6.0	5.0	5.3	5.6
MINI-VERDE	7.0	6.0	6.3	5.7	5.3	6.3	5.7	5.0	5.7	5.7	5.7	5.6
TIFEAGLE	6.7	5.3	6.0	5.0	5.3	5.3	5.3	6.0	5.7	6.0	5.7	5.6
CTF-B10	6.3	5.3	6.7	4.7	4.7	5.7	5.7	5.3	5.7	6.0	5.7	5.5
FAES 1302	6.3	6.0	6.0	5.0	5.3	6.0	5.3	4.3	6.7	5.7	5.3	5.5
OKC-1-75-2	5.3	6.0	6.3	3.7	5.7	5.0	5.7	4.7	6.0	5.7	5.3	5.4
TIFWARF	6.3	6.0	5.7	4.0	5.3	4.7	4.7	5.3	6.7	5.3	4.7	5.2
LSD VALUE	3.2	1.4	1.9	1.2	1.0	1.7	1.2	2.0	1.3	1.6	1.4	0.6
C.V. (%)	16.1	11.5	11.5	14.9	10.2	12.9	11.1	16.4	10.4	12.3	12.2	6.0

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 8B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT COLLEGE STATION, TX 1/  
2017 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	WINTER COLOR	QUALITY RATINGS					MEAN		
					APR	MAY	JUN	JUL	AUG		SEP	OCT
DALZ 1308	7.3	5.7	7.0	6.0	4.7	7.0	6.0	5.7	7.0	6.3	6.3	6.1
DALZ 1309	7.0	5.0	7.3	6.3	5.3	6.0	5.7	5.7	7.0	6.7	6.7	6.1
10-TZ-74	6.0	4.3	6.0	5.7	5.3	5.3	5.3	5.7	6.3	6.7	6.3	5.9
DALZ 1306	7.0	5.7	6.7	5.3	5.3	6.3	5.3	6.3	6.0	6.0	5.7	5.9
L1F	7.0	5.7	5.0	6.0	5.0	6.0	5.3	5.7	6.7	6.0	6.3	5.9
DALZ 1304	7.0	5.0	5.3	6.3	4.0	6.0	4.7	6.0	6.3	6.7	6.3	5.7
DIAMOND	6.7	5.0	6.0	6.3	5.3	5.7	4.3	6.0	6.0	6.0	6.0	5.6
FAES 1301	6.7	5.7	6.0	6.0	5.0	5.3	4.7	5.7	6.0	6.7	6.0	5.6
DALZ 1307	6.7	4.7	6.0	6.0	4.7	5.0	5.0	5.7	6.0	6.0	6.0	5.5
ZOYSIU	5.3	6.0	5.0	6.3	5.0	5.0	5.3	6.0	5.7	6.0	5.7	5.5
DALZ 1305	6.0	5.3	5.0	5.7	4.3	5.3	4.7	4.7	5.7	7.0	6.0	5.4
LSD VALUE	1.3	1.8	1.1	1.1	2.2	0.9	1.1	1.9	1.1	0.8	1.4	0.4
C.V. (%)	9.9	14.3	10.4	7.6	16.7	8.9	10.3	12.6	8.4	6.2	8.6	3.6

TABLE 8C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT COLLEGE STATION, TX 1/  
2017 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	WINTER COLOR	QUALITY RATINGS					MEAN		
					APR	MAY	JUN	JUL	AUG		SEP	OCT
SEADWARF	6.0	6.0	5.0	6.3	6.0	6.0	5.7	6.0	6.0	6.3	6.7	6.1
UGA 1743	6.0	5.0	5.0	6.3	6.0	5.0	5.3	6.0	6.0	6.3	6.3	5.9
LSD VALUE	1.3	1.8	1.1	1.1	2.2	0.9	1.1	1.9	1.1	0.8	1.4	0.4
C.V. (%)	0.0	0.0	0.0	11.2	0.0	0.0	14.8	0.0	0.0	0.0	6.3	2.6

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 9A. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BERMUDAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT RICHMOND, VA 1/  
2017 DATA

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

NAME	DOLLAR SPOT	QUALITY RATINGS						MEAN
		MAY	JUN	JUL	AUG	OCT	NOV	
08-T-18	7.0	3.7	4.3	5.3	7.0	6.0	3.0	4.9
MSB-264	6.3	3.7	4.3	5.7	6.7	6.3	3.0	4.9
MSB-285	7.7	4.0	4.0	5.3	6.7	5.7	3.3	4.8
OKC-16-13-8	7.3	4.7	4.0	5.0	6.0	4.7	3.0	4.6
SUNDAY	6.3	3.0	3.7	4.7	6.0	6.0	3.3	4.4
OKC-13-78-5	8.0	4.0	4.0	4.7	5.0	5.3	3.0	4.3
MINI-VERDE	7.0	3.3	3.7	4.7	5.0	5.7	2.3	4.1
JK 110521	4.0	2.7	3.3	4.3	5.0	6.0	2.7	4.0
TIFEAGLE	7.0	3.0	3.3	4.0	5.3	6.0	2.3	4.0
CTF-B10	4.7	2.3	3.3	4.0	4.3	5.0	2.7	3.6
OKC-1-75-2	5.0	2.7	3.3	3.3	3.7	4.7	3.7	3.6
FAES 1302	3.0	2.0	2.7	3.0	3.7	6.0	2.7	3.3
11-T-861	6.3	2.3	3.0	3.7	3.7	4.0	2.3	3.2
TIFWARF	8.0	2.7	3.0	3.3	3.7	4.3	2.0	3.2
CTF-E3	2.3	1.7	1.7	2.3	1.3	3.3	1.7	2.0
LSD VALUE	2.8	1.1	0.7	1.4	0.8	0.8	1.2	0.6
C.V. (%)	26.2	21.8	12.8	18.8	10.6	9.4	22.2	9.1

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

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

TABLE 9B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT RICHMOND, VA 1/  
2017 DATA

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

NAME	DOLLAR SPOT	QUALITY RATINGS						MEAN
		MAY	JUN	JUL	AUG	OCT	NOV	
DALZ 1308	7.3	5.0	6.3	7.0	7.7	9.0	8.3	7.2
DALZ 1306	6.3	5.7	6.0	5.3	7.0	8.7	8.3	6.8
FAES 1301	6.0	5.7	6.3	6.7	6.3	8.7	7.0	6.8
DALZ 1305	8.3	5.0	5.7	6.0	6.3	8.7	6.7	6.4
DIAMOND	7.0	5.0	6.0	6.3	6.0	8.7	6.3	6.4
DALZ 1307	7.3	4.0	6.0	6.0	7.3	8.0	6.7	6.3
DALZ 1304	5.3	4.7	5.3	4.7	5.7	8.0	6.3	5.8
DALZ 1309	6.0	4.7	5.0	5.3	6.7	6.3	4.7	5.4
L1F	8.0	3.3	4.3	4.7	5.7	7.7	6.3	5.3
ZOYSIU	5.7	4.3	4.3	4.3	5.3	7.0	4.7	5.0
10-TZ-74	8.0	3.3	4.3	3.7	4.0	5.3	5.0	4.3
LSD VALUE	2.2	1.5	1.4	1.6	1.1	0.9	1.6	0.6
C.V. (%)	16.1	16.7	13.5	16.4	10.5	7.3	14.4	6.0

TABLE 9C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS  
IN THE 2013 NATIONAL WARM-SEASON PUTTING GREENS TEST AT RICHMOND, VA 1/  
2017 DATA

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

NAME	QUALITY RATINGS						MEAN
	MAY	JUN	JUL	AUG	OCT	NOV	
SEADWARF	2.0	2.0	3.0	3.0	4.3	1.0	2.6
UGA 1743	2.0	2.0	2.0	3.0	3.7	1.0	2.3
LSD VALUE	1.5	1.4	1.6	1.1	0.9	1.6	0.6
C.V. (%)	0.0	0.0	0.0	0.0	10.2	0.0	2.8

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.