

## **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.

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## A Guide to NTEP Turfgrass Ratings

### Introduction

The quality and scientific merit of NTEP data is extremely important. However, the evaluation of turfgrass species and cultivars is a difficult and complex issue. Furthermore, turfgrass evaluation is generally a subjective process based on visual estimates of factors, like genetic color, stand density, leaf texture, uniformity and quality. These factors can not be measured in the same way as other agricultural crops. Turfgrass quality is not a measure of yield or nutritive value. Turfgrass quality is a measure of aesthetics (i.e. density, uniformity, texture, smoothness, growth habit and color), and functional use. The most common way of assessing turfgrass quality is a visual rating system that is based on the turfgrass evaluator's judgement.

### General Considerations

Most visual ratings collected on NTEP trials are based on a 1 to 9 rating scale. One is the poorest or lowest and 9 is the best or highest rating. However, a few characteristics, such as winter kill or percent living ground cover, are rated on a percentage basis, again by using the evaluator's judgement. Most disease ratings found in NTEP reports will use the 1-9 scale, 9=no disease except where the evaluator made a judgement of the percentage of disease in each plot. Percent disease data will be found in separate tables and will normally not be included with disease data using the 1-9 scale.

### Turfgrass Quality

Turfgrass Quality is based on 9 being outstanding or ideal turf and 1 being poorest or dead. A rating of 6 or above is generally considered acceptable. A quality rating value of 9 is reserved for a perfect or ideal grass, but it also can reflect an absolutely outstanding treatment plot. The NTEP requires quality ratings on a monthly basis. Quality ratings take into account the aesthetic and functional aspects of the turf. Quality ratings are not based on color alone, but on a combination of color, density, uniformity, texture, and disease or environmental stress.

Turfgrass quality ratings are grouped and presented by region, management level, a particular stress (shade, traffic, etc.) and in some cases, by individual location (starting with 2001 data, data from each location will be posted separately as well on the NTEP web site, <http://www.ntep.org>). Also available now is a summary table (Appendix) in the back of this report. This summary table includes various statistical measures not previously compiled for NTEP reports. For an explanation of this table and these changes, please go to the NTEP web site at <http://www.ntep.org/pdf/grandmean.mem.pdf>.

### Other Ratings

More detailed information on the ratings of specific characteristics can be found on the NTEP web site at <http://www.ntep.org/reports/ratings.htm>.

2013 NATIONAL ZOYSIAGRASS TEST

LOCATIONS SUBMITTING DATA FOR 2013-17

<u>State</u>	<u>Location</u>	<u>Code</u>
Alabama	Auburn	AL1
Arizona	Tucson	AZ1
Arkansas	Fayetteville	AR1
Arkansas	Fayetteville (Traffic Tolerance)	AR2
California	Riverside (Artificial Shade)	CA3
Florida	Jay	FL3
Florida	Citra	FL4
Georgia	Griffin	GA1
Illinois	Carbondale (Natural Shade)	IL2
Indiana	West Lafayette	IN1
Kansas	Manhattan	KS1
Maryland	College Park	MD1
Missouri	Columbia (Large Patch Tolerance)	MO1
North Carolina	Raleigh	NC1
North Carolina	Raleigh (Traffic Tolerance)	NC2
Tennessee	Knoxville	TN1
Texas	Dallas	TX1
Texas	College Station (Drought)	TX2

**2013 NATIONAL ZOYSIAGRASS TEST  
Entries and Sponsors**

Entry No	Name	Type	Sponsor
*1	Meyer	Vegetative	Standard Entry
*2	Zeon	Vegetative	Standard Entry
*3	Empire	Vegetative	Standard Entry
4	10-TZ-35	Vegetative	Georgia Seed Development Commission
5	10-TZ-1254	Vegetative	Georgia Seed Development Commission
6	09-TZ-53-20	Vegetative	Georgia Seed Development Commission
7	09-TZ-54-9	Vegetative	Georgia Seed Development Commission
8	GGZ 504	Vegetative	UGA Research Foundation
9	11-TZ-4321	Vegetative	Bladerunner Farms
10	DALZ 1303	Vegetative	Bladerunner Farms
11	CSZ 1105	Vegetative	Texas A&M Agrilife Research
12	CSZ 1109	Vegetative	Texas A&M Agrilife Research
13	FAES 1303	Vegetative	University of Florida
14	FAES 1304	Vegetative	University of Florida
15	FAES 1305	Vegetative	University of Florida
16	FAES 1306	Vegetative	University of Florida
17	FAES 1307	Vegetative	University of Florida
18	FAES 1308	Vegetative	University of Florida
19	FAES 1309	Vegetative	University of Florida
20	FAES 1310	Vegetative	University of Florida
21	FAES 1312	Vegetative	University of Florida
22	FAES 1313	Vegetative	University of Florida
23	FAES 1314	Vegetative	University of Florida
24	FAES 1315	Vegetative	University of Florida
25	FAES 1316	Vegetative	University of Florida
26	FAES 1317	Vegetative	University of Florida
27	FAES 1318	Vegetative	University of Florida
28	FAES 1319	Vegetative	University of Florida
29	FAES 1322	Vegetative	University of Florida
30	FAES 1328	Vegetative	University of Florida
31	FAES 1329	Vegetative	University of Florida
32	DALZ 1301	Vegetative	Texas A&M Agrilife Research Dallas
33	DALZ 1302	Vegetative	Texas A&M Agrilife Research Dallas
34	KSUZ 1201	Vegetative	Texas A&M Agrilife/Kansas State University
*35	A-1	Vegetative	Gene Gro PTY LTD

\* COMMERCIALY AVAILABLE IN THE USA IN 2018

**1/ Due to the unusually harsh winter of 2013, please note that some entries were replanted in spring/summer 2016 at selected locations (see next page).**

Due to the unusually harsh winter of 2013/2016, some location experienced severe winter injury. This injury, which did not allow all entries sufficient opportunity to fully establish, led NTEP to make the decision to replant some or all entries at selected locations. This unprecedented decision was made after careful consideration and consultation. The following locations requested plant material for replanting, which was accomplished in late spring or summer 2016. Therefore, please consider 2016 data from these locations with these considerations.

**Carbondale, IL**

THE FOLLOWING ENTRIES WERE REPLANTED IN SPRING 2016:

10-TZ-1254, 9-TZ-53-20, 9-TZ-54-9, GGZ 504, DALZ 1303, CSZ 1105, CSZ 1109, FAES 1303, FAES 1304, FAES 1305, FAES 1306, FAES 1307, FAES 1308, FAES 1309, FAES 1314, FAES 1315, FAES 1316, FAES 1317, FAES 1319, FAES 1322, FAES 1328, DALZ 1302, KSUZ 1201, A1

**Knoxville, TN**

THE FOLLOWING ENTRIES WERE REPLANTED IN SPRING 2016:

CSZ 1109, FAES 1308, FAES 1309

**Griffin, GA**

ALL ENTRIES WERE REPLANTED IN SPRING 2016.

**W. Lafayette, IN**

ALL ENTRIES WERE REPLANTED IN SPRING 2016.

**Columbia, MO**

ALL ENTRIES EXCEPT THE FOLLOWING TWO WERE REPLANTED IN SPRING 2016:

MEYER, KSUZ 1201



TABLE A.

2013-17 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN  
THE 2013 NATIONAL ZOYSIAGRASS 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	-	-	-	-	-	-	-	-
AR1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
AR2	SILT LOAM AND SILT	6.6-7.0	61-150	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
AZ1	-	-	-	-	-	-	-	-
CA3	SANDY LOAM	7.1-7.5	0-60	151-240	2.1-3.0	ARTIFICIAL SHADE	0.6-1.0	TO PREVENT DORMANCY
FL3	SANDY LOAM	6.1-6.5	61-150	0-150	2.1-3.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
FL4	-	-	-	-	-	-	-	-
GA1	SILT LOAM AND SILT	4.6-5.5	0-60	0-150	2.1-3.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
IL2	SILTY CLAY LOAM	6.1-6.5	0-60	241-375	1.1-2.0	UNIFORM SHADE	2.6-3.0	TO PREVENT DORMANCY
IN1	SILT LOAM AND SILT	6.6-7.0	0-60	0-150	-	FULL SUN	0.0-0.5	TO PREVENT STRESS
KS1	-	-	-	-	-	-	-	-
MD1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	1.1-2.0	FULL SUN	1.1-1.5	ONLY DURING SEVERE STRESS
MO1	SILT LOAM AND SILT	4.6-5.5	0-60	151-240	1.1-2.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
NC1	SILTY CLAY LOAM	6.1-6.5	61-150	0-150	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NC2	SILTY CLAY LOAM	6.1-6.5	61-150	0-150	2.1-3.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
TN1	SILT LOAM AND SILT	6.1-6.5	0-60	0-150	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
TX1	SILTY CLAY AND CLAY	7.6-8.5	151-270	241-375	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
TX2	SAND	7.6-8.5	0-60	0-150	0.0-1.0	FULL SUN	2.1-2.5	TO PREVENT STRESS

TABLE B.

## LOCATIONS AND DATA COLLECTED IN 2013-17

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
AR1					X	X	X	X	X				X	X	X
AR2				X	X	X	X	X	X	X			X	X	
AZ1			X	X	X	X	X	X	X	X	X	X	X	X	X
CA3	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	
FL4	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
GA1				X	X	X	X	X	X	X	X	X	X	X	
IL2														X	
IN1				X	X	X	X	X	X	X			X	X	X
KS1					X	X	X	X	X	X				X	X
MD1					X	X	X	X	X	X					X
MO1				X	X	X	X	X	X	X	X		X	X	X
NC1				X	X	X	X	X	X	X	X		X	X	X
NC2															
TN1			X	X	X	X	X	X	X	X	X	X	X	X	X
TX1		X		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 2013-17

LOCATION	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	PERCENT WINTER KILL	DOLLAR SPOT	BROWN PATCH WARM TEMP.	BROWN PATCH COOL TEMP.	INSECT DAMAGE	FALL COLOR SEPTEMBER	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	FALL COLOR DECEMBER
AL1																
AR1	X	X	X	X	X	X		X						X		
AR2											X					
AZ1	X	X	X	X	X	X	X							X	X	X
CA3	X	X	X	X	X	X	X									
FL3	X	X	X	X	X		X						X	X	X	
FL4	X	X	X	X	X	X	X		X	X		X	X	X	X	X
GA1		X		X					X				X	X	X	X
IL2																
IN1					X	X		X								
KS1				X	X			X						X		
MD1																
MO1	X					X								X	X	
NC1	X	X	X	X	X	X			X					X	X	X
NC2																
TN1				X	X	X		X	X				X	X	X	X
TX1	X	X	X		X	X	X							X	X	X
TX2							X								X	X

TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 2013-17

LOCATION	SEEDHEAD RATINGS	PERCENT ESTABLISHMENT	WINTER DORMANCY	WINTER DAMADGE	SPRING COLOR	PERCENT DOLLAR SPOT	DOLLAR JUN	DOLLAR JUL	SPOT AUG	SPOT SEP	WINTER KILL	VERTICAL CUT RECOVERY	LARGE PATCH DISEASE	ADDITIONAL PERCENT ESTABLISHMENT	ADDITIONAL SEEDHEAD RATINGS
AL1				X										X	
* AR1													X		
AR2															
AZ1	X		X									X			
CA3															
FL3					X									X	
FL4	X					X			X	X				X	
GA1														X	
* IL2															
IN1		X													
KS1		X													
MD1															
MO1													X	X	
NC1	X						X	X						X	
* NC2															
TN1	X													X	
TX1	X										X				X
TX2														X	

\* MORE DATA FOR IL2 IN TABLE 5, FOR NC2 IN TABLE 3, FOR TX2 IN TABLE 6, FOR AR1 IN TATBLE 34 AND 36.

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN AT FOURTEEN LOCATIONS IN THE U.S. 1/  
2017 DATA

NAME	ENTRY #	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/														MEAN
		AL1	AR1	AZ1	FL3	FL4	GA1	IN1	KS1	MD1	MO1	NC1	TN1	TX1	TX2	
FAES 1305	15	6.7	8.3	6.6	6.3	5.6	5.7	6.8	7.0	7.7	5.3	5.7	6.6	6.9	6.5	6.4
FAES 1319	28	6.1	7.3	6.9	6.7	6.1	5.7	3.4	6.4	7.7	5.2	6.5	6.7	7.0	6.5	6.3
FAES 1312	21	6.1	6.6	6.4	6.5	6.0	5.2	7.1	6.2	7.5	4.6	6.3	6.4	6.7	5.3	6.2
FAES 1313	22	5.5	7.5	6.8	6.3	6.2	5.2	3.8	5.3	7.4	4.1	6.2	6.4	6.7	6.4	6.1
DALZ 1301	32	5.3	7.8	6.0	6.1	5.6	5.8	6.5	6.8	8.3	5.5	5.3	6.3	7.0	6.5	6.1
FAES 1304	14	4.3	6.9	6.6	6.2	5.5	5.4	6.2	6.2	7.2	4.4	5.6	6.8	6.0	6.1	6.0
DALZ 1302	33	5.8	6.1	6.0	6.3	5.8	5.6	6.3	5.6	6.6	3.9	6.0	6.3	6.5	5.4	5.9
*ZEON	2	4.6	7.4	6.3	6.1	5.1	5.6	5.9	6.8	7.8	3.7	5.8	6.4	6.7	6.8	5.9
09-TZ-54-9	7	5.9	7.1	6.8	6.4	5.4	5.5	4.4	5.5	6.0	3.7	5.5	6.3	7.6	6.2	5.9
11-TZ-4321	9	5.8	6.2	6.0	6.5	5.6	5.4	5.3	5.3	7.3	4.8	6.2	6.2	6.4	5.5	5.8
10-TZ-1254	5	5.0	5.7	6.0	6.8	6.0	5.0	2.2	5.5	6.8	4.3	6.1	6.3	6.3	5.9	5.8
FAES 1329	31	4.9	7.8	6.3	6.1	5.7	5.7	3.9	3.8	6.7	3.8	5.5	6.3	6.7	7.1	5.8
KSUZ 1201	34	4.2	7.3	5.8	6.4	4.0	5.2	6.7	7.1	7.2	5.4	5.9	6.0	6.1	5.6	5.7
FAES 1307	17	5.5	6.6	6.9	6.2	5.4	4.7	2.5	5.4	6.8	3.7	6.0	6.2	6.7	7.0	5.7
10-TZ-35	4	5.2	6.0	6.0	6.1	4.8	5.4	5.9	5.6	6.5	4.0	6.0	6.2	6.4	5.4	5.7
*EMPIRE	3	5.0	5.8	6.3	6.2	4.8	5.6	4.2	5.6	6.0	4.1	6.2	6.5	5.6	5.6	5.7
FAES 1318	27	4.4	6.6	6.6	6.2	5.0	5.4	2.0	5.8	6.7	3.8	5.5	6.5	6.1	6.2	5.7
*A-1	35	4.6	8.4	6.8	5.7	5.5	5.7	3.3	5.1	.	3.9	5.5	6.2	6.4	5.8	5.7
DALZ 1303	10	4.2	7.4	7.3	6.0	6.1	5.4	1.6	3.0	6.9	4.0	5.7	6.2	6.8	7.0	5.7
FAES 1317	26	5.7	5.5	6.4	6.0	4.4	4.7	2.1	5.1	7.1	4.2	5.5	6.5	6.3	6.5	5.5
FAES 1315	24	4.8	5.3	6.5	6.2	5.2	5.4	1.6	4.2	6.1	4.0	5.6	6.2	6.7	6.8	5.5
FAES 1316	25	4.6	6.6	6.2	6.5	4.7	5.6	2.2	4.0	7.1	3.6	5.4	6.6	6.4	5.5	5.5
FAES 1314	23	5.2	4.6	6.6	6.1	4.7	5.6	1.7	4.8	7.2	3.8	5.7	6.6	6.0	5.8	5.5
*MEYER	1	3.0	6.9	5.9	6.0	3.2	4.3	7.2	6.2	4.9	5.8	4.7	6.3	5.9	5.2	5.4
FAES 1322	29	3.9	6.4	6.2	6.4	5.9	5.1	1.5	2.2	.	3.9	5.5	6.3	7.3	6.4	5.4
FAES 1328	30	4.8	6.3	6.2	5.9	4.4	5.0	1.7	5.2	6.8	3.7	5.2	6.4	6.2	5.0	5.4
CSZ 1105	11	5.0	5.9	6.1	6.0	5.2	5.5	1.5	3.1	3.2	3.8	4.9	6.0	6.3	6.4	5.2
FAES 1306	16	4.6	6.2	7.0	5.3	5.6	4.9	1.9	1.6	.	3.9	4.7	5.8	6.3	7.4	5.2
09-TZ-53-20	6	4.7	4.4	7.0	6.1	4.6	5.7	1.9	2.6	6.6	3.9	4.7	6.0	7.1	5.7	5.2
FAES 1303	13	4.8	6.2	6.9	5.5	5.6	4.8	2.0	1.6	.	3.8	4.0	5.9	6.7	7.2	5.2
GGZ 504	8	4.2	5.9	5.6	5.3	4.3	4.8	1.7	4.3	6.3	4.0	4.6	6.2	5.8	6.3	5.1
FAES 1310	20	4.6	5.4	7.3	5.6	5.5	4.9	1.6	1.4	.	3.8	4.2	5.8	6.3	7.0	5.1
CSZ 1109	12	4.5	4.3	6.6	5.5	5.3	4.4	1.5	1.2	.	3.7	3.3	5.6	6.3	6.8	4.7
FAES 1309	19	4.3	1.3	6.9	6.0	5.5	4.7	1.5	1.2	.	3.5	3.8	5.3	6.6	5.9	4.6
FAES 1308	18	4.3	3.5	7.0	5.6	5.5	4.4	1.6	1.6	.	3.7	3.7	5.1	6.0	6.0	4.5
LSD VALUE		1.4	1.5	0.8	0.6	0.7	1.0	1.4	1.1	0.9	0.9	0.9	0.4	1.0	1.2	0.3
C.V. (%)		17.8	15.5	7.9	6.5	8.4	11.8	22.2	14.2	8.5	22.0	10.6	4.0	9.6	11.6	11.0

\* COMMERCIALY AVAILABLE IN THE US 2018

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 ZOYSIAGRASS CULTIVARS  
IN THE 2013 NATIONAL ZOYSIAGRASS TEST AT FAYETTEVILLE (TRAFFIC STUDY), AR 1/  
2014-15 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	BROWN PATCH	QUALITY RATINGS							MEAN
				APR	MAY	JUN	JUL	AUG	SEP	OCT	
ZEON	6.7	5.5	8.7	6.5	6.7	7.7	7.8	8.2	8.2	8.7	7.6
FAES 1305	7.3	6.7	7.7	6.2	6.2	8.0	7.5	8.0	8.5	8.0	7.4
FAES 1304	8.0	7.5	8.7	6.7	6.2	7.0	7.7	7.7	7.5	7.7	7.2
FAES 1329	8.3	5.7	8.3	5.2	5.8	7.3	8.0	8.0	8.0	8.0	7.1
09-TZ-54-9	7.7	7.0	7.7	6.2	6.2	7.7	7.7	7.3	7.8	6.3	7.0
DALZ 1301	7.0	5.7	5.3	4.8	5.5	7.7	7.5	7.8	8.2	6.7	6.8
FAES 1307	8.0	7.7	9.0	5.2	6.3	7.0	7.3	7.3	7.5	7.7	6.8
FAES 1313	8.0	7.8	8.3	5.5	5.8	7.0	7.0	7.3	7.7	7.0	6.7
FAES 1317	7.7	6.3	8.7	5.2	6.0	6.7	6.7	8.0	7.2	8.0	6.7
MEYER	8.0	5.2	7.7	6.3	6.2	6.3	7.3	7.2	7.0	6.0	6.7
FAES 1312	7.7	6.0	8.3	6.0	6.5	7.0	6.7	6.8	6.8	7.0	6.6
FAES 1316	8.3	7.0	9.0	6.0	6.0	6.3	7.0	6.8	7.3	6.7	6.6
FAES 1318	7.3	8.0	8.3	6.2	6.2	6.3	7.0	6.8	7.0	6.7	6.6
FAES 1328	7.7	5.8	9.0	6.3	6.0	6.0	7.3	6.7	6.8	7.0	6.6
FAES 1306	8.0	4.3	8.7	2.7	4.8	7.3	7.2	8.3	8.3	8.3	6.5
FAES 1319	8.0	7.2	6.3	6.0	5.7	7.0	6.8	7.0	7.0	6.3	6.5
CSZ 1105	7.7	3.2	8.7	4.0	5.3	5.7	6.8	7.7	7.7	7.7	6.4
DALZ 1303	7.0	7.3	8.3	4.7	5.2	6.7	6.7	7.2	7.2	7.7	6.3
10-TZ-1254	7.7	7.5	8.0	5.5	5.3	5.7	6.5	7.0	6.8	6.7	6.2
A-1	7.0	7.2	4.7	4.2	4.7	7.3	6.5	7.3	8.2	5.0	6.2
GGZ 504	7.7	4.2	7.3	4.5	5.2	6.0	6.8	7.0	7.2	6.7	6.2
FAES 1315	7.3	6.2	8.0	4.7	5.2	6.3	6.5	6.7	7.0	7.0	6.1
FAES 1322	8.0	5.5	5.3	4.8	5.5	6.3	6.3	6.8	7.0	6.0	6.1
KSUZ 1201	7.0	6.8	6.7	5.2	5.3	6.7	5.7	7.0	7.0	6.3	6.1
DALZ 1302	7.3	6.7	6.7	5.5	5.7	6.0	6.7	6.3	6.0	5.3	6.0
10-TZ-35	7.3	6.2	5.7	6.0	5.8	5.7	6.0	6.2	5.8	4.7	5.8
11-TZ-4321	8.3	4.5	4.7	4.8	5.5	6.0	6.2	6.5	6.2	4.7	5.8
EMPIRE	8.0	5.5	5.3	5.5	5.7	5.0	6.5	5.8	6.2	4.7	5.8
09-TZ-53-20	7.3	6.0	6.0	4.3	4.7	6.3	6.0	6.8	6.5	4.7	5.6
FAES 1303	8.0	4.5	8.0	2.2	4.2	5.3	5.8	6.8	7.5	6.7	5.4
FAES 1310	8.0	5.3	8.7	2.2	3.5	5.3	4.6	6.5	7.2	6.7	5.0
FAES 1308	7.7	5.7	8.0	2.3	3.5	5.3	4.8	5.7	6.7	7.3	4.9
CSZ 1109	8.0	5.0	7.0	2.5	3.7	5.0	5.0	5.8	6.5	5.0	4.8
FAES 1314	7.0	7.0	9.0	3.0	3.5	5.3	4.7	5.2	5.2	5.3	4.5
FAES 1309	3.3	4.0	8.7	1.7	1.7	2.7	2.7	3.0	3.0	3.3	2.5
LSD VALUE	1.5	4.3	2.5	1.2	1.1	1.9	1.2	1.0	1.0	2.1	0.9
C.V. (%)	11.1	39.9	18.3	23.8	18.9	16.4	16.9	13.9	13.3	18.5	13.4

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 3.

PERCENT LIVING GROUND COVER RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
GROWN UNDER TRAFFIC STRESS AT RALEIGH, NC 2/ 3/  
2014 DATA

NAME	NO TRAFFIC 8_26	TRAFFIC 8_26	TRAFFIC 9_2	TRAFFIC 9_9	TRAFFIC 9_16	TRAFFIC 9_23	TRAFFIC 9_30	TRAFFIC 10_7	TRAFFIC 10_14	TRAFFIC 10_28	TRAFFIC 11_11
FAES 1312	88.3	91.7	90.0	85.0	81.7	78.3	78.3	78.3	70.0	75.0	73.3
FAES 1319	90.0	97.3	94.7	90.0	83.3	78.3	76.7	71.7	63.3	71.7	71.7
FAES 1329	93.3	91.7	86.7	83.3	73.3	68.3	66.7	66.7	65.0	68.3	71.7
FAES 1315	93.3	92.7	89.3	85.0	75.0	68.3	66.7	63.3	61.7	66.7	70.0
FAES 1313	91.0	89.3	86.7	81.7	78.3	73.3	70.0	68.3	61.7	66.7	68.3
FAES 1307	95.7	94.3	93.3	85.0	76.7	68.3	66.7	61.7	56.7	63.3	66.7
10-TZ-1254	85.0	83.3	80.0	76.7	70.0	65.0	61.7	58.3	56.7	63.3	65.0
EMPIRE	94.3	97.3	90.0	88.3	85.0	76.7	73.3	71.7	65.0	70.0	63.3
FAES 1318	95.0	93.3	90.0	86.7	81.7	75.0	73.3	70.0	61.7	65.0	63.3
09-TZ-54-9	85.0	81.7	80.0	76.7	70.0	65.0	58.3	58.3	53.3	58.3	61.7
A-1	91.7	91.3	88.3	83.3	80.0	71.7	68.3	66.7	61.7	63.3	61.7
FAES 1304	90.0	91.7	91.7	86.7	81.7	73.3	71.7	65.0	58.3	61.7	61.7
FAES 1322	95.0	88.3	88.3	83.3	80.0	73.3	68.3	65.0	58.3	60.0	61.7
10-TZ-35	90.0	93.3	91.7	88.3	83.3	75.0	75.0	68.3	61.7	63.3	60.0
FAES 1305	78.3	85.0	83.3	78.3	71.7	71.7	61.7	65.0	58.3	60.0	60.0
ZEON	91.7	92.7	88.3	83.3	76.7	65.0	63.3	61.7	56.7	58.3	58.3
DALZ 1302	88.3	97.7	96.3	90.0	81.7	73.3	68.3	65.0	60.0	61.7	56.7
FAES 1328	88.3	91.0	86.7	83.3	80.0	71.7	70.0	63.3	56.7	58.3	55.0
09-TZ-53-20	80.0	83.3	80.0	78.3	70.0	61.7	58.3	56.7	53.3	55.0	53.3
DALZ 1301	86.7	81.7	76.7	70.0	65.0	60.0	58.3	58.3	53.3	51.7	53.3
DALZ 1303	91.7	91.7	86.7	80.0	71.7	65.0	61.7	58.3	53.3	53.3	53.3
FAES 1317	86.7	78.3	75.0	71.7	68.3	55.0	50.0	46.7	46.7	46.7	51.7
GGZ 504	86.7	88.3	85.0	80.0	71.7	61.7	56.7	56.7	51.7	51.7	51.7
11-TZ-4321	90.0	91.7	88.3	85.0	81.7	73.3	71.7	66.7	56.7	51.7	46.7
FAES 1316	90.0	86.7	80.0	75.0	68.3	56.7	55.0	55.0	48.3	50.0	46.7
FAES 1309	76.7	75.0	66.7	61.7	53.3	50.0	46.7	45.0	38.3	40.0	43.3
FAES 1314	88.3	86.7	81.7	73.3	63.3	53.3	50.0	45.0	41.7	41.7	41.7
CSZ 1105	81.7	78.3	73.3	66.7	58.3	50.0	48.3	45.0	40.0	38.3	40.0
FAES 1306	75.0	85.0	78.3	70.0	60.0	56.7	51.7	48.3	41.7	38.3	40.0
MEYER	81.7	73.3	70.0	65.0	56.7	45.0	45.0	45.0	40.0	41.7	40.0
KSUZ 1201	83.3	76.7	71.7	68.3	61.7	53.3	53.3	50.0	43.3	41.7	38.3
FAES 1308	58.3	65.0	58.3	53.3	50.0	41.7	40.0	41.7	36.7	35.0	35.0
FAES 1310	86.7	75.0	70.0	63.3	56.7	50.0	46.7	41.7	35.0	33.3	35.0
FAES 1303	78.3	78.3	70.0	61.7	51.7	43.3	38.3	35.0	28.3	30.0	31.7
CSZ 1109	30.0	36.7	30.0	26.7	23.3	18.3	18.3	16.7	15.0	16.7	20.0
LSD VALUE	10.4	12.1	13.4	11.6	12.7	13.3	14.1	13.1	13.6	14.1	13.8
C.V. (%)	8.0	9.1	10.5	9.9	11.8	13.6	15.0	14.6	16.6	16.8	16.5

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.

3/ 2014 DATA

TABLE 3.  
(CONT'D)

PERCENT GROUND LIVING COVER RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
GROWN UNDER TRAFFIC STRESS AT RALEIGH, NC 2/ 3/  
2015 DATA

NAME	NO TRAFFIC 9_11	TRAFFIC 9_11	NO TRAFFIC 9_18	TRAFFIC 9_18	NO TRAFFIC 9_25	TRAFFIC 9_25	NO TRAFFIC 10_2	TRAFFIC 10_2	NO TRAFFIC 10_9	TRAFFIC 10_9
09-TZ-54-9	83.3	63.3	81.7	66.7	80.0	63.3	80.0	58.3	78.3	53.3
09-TZ-53-20	80.0	66.7	80.0	66.7	78.3	66.7	78.3	66.7	75.0	65.0
FAES 1315	76.7	68.3	76.7	68.3	71.7	66.7	71.7	58.3	68.3	51.7
10-TZ-1254	91.7	85.0	91.7	81.7	90.0	76.7	90.0	65.0	80.0	56.7
DALZ 1302	93.3	86.7	93.3	85.0	93.3	81.7	86.7	70.0	80.0	58.3
FAES 1304	86.7	78.3	85.0	78.3	85.0	75.0	83.3	66.7	81.7	60.0
FAES 1319	88.3	78.3	88.3	78.3	88.3	76.7	88.3	66.7	83.3	61.7
FAES 1322	81.7	71.7	81.7	70.0	81.7	70.0	80.0	65.0	76.7	60.0
A-1	90.0	83.3	90.0	76.7	88.3	75.0	83.3	66.7	78.3	60.0
EMPIRE	93.0	86.7	91.7	83.3	91.7	80.0	88.3	71.7	81.7	65.0
FAES 1307	93.3	90.0	93.3	86.7	91.7	80.0	88.3	68.3	81.7	60.0
FAES 1309	75.0	56.7	73.3	56.7	71.7	53.3	71.7	51.7	68.3	51.7
FAES 1312	94.7	91.3	94.7	88.3	93.3	81.7	88.3	66.7	78.3	55.0
FAES 1313	88.3	73.3	88.3	73.3	86.7	71.7	86.7	61.7	80.0	56.7
10-TZ-35	95.0	93.0	93.3	88.3	88.3	85.0	85.0	76.7	78.3	63.3
CSZ 1105	83.3	73.3	83.3	73.3	83.3	65.0	81.7	55.0	76.7	48.3
FAES 1310	73.3	53.3	73.3	51.7	68.3	51.7	68.3	43.3	63.3	36.7
FAES 1329	88.3	85.0	90.0	83.3	90.0	80.0	85.0	71.7	80.0	60.0
FAES 1303	70.0	50.0	68.3	50.0	66.7	48.3	65.0	46.7	61.7	41.7
FAES 1316	93.3	86.7	93.3	81.7	90.0	68.3	83.3	53.3	75.0	46.7
FAES 1317	85.0	68.3	85.0	66.7	83.3	63.3	80.0	56.7	73.3	48.3
FAES 1318	91.7	93.3	91.7	90.0	88.3	85.0	83.3	70.0	78.3	56.7
FAES 1328	90.0	81.7	90.0	80.0	83.3	73.3	78.3	58.3	76.7	53.3
GGZ 504	81.7	80.0	81.7	75.0	80.0	70.0	78.3	56.7	71.7	48.3
11-TZ-4321	90.0	86.7	90.0	83.3	86.7	80.0	81.7	71.7	76.7	60.0
FAES 1306	71.7	68.3	71.7	63.3	71.7	63.3	71.7	55.0	66.7	48.3
FAES 1308	76.7	60.0	76.7	56.7	76.7	56.7	71.7	48.3	63.3	43.3
FAES 1305	90.0	80.0	90.0	80.0	86.7	75.0	86.7	65.0	80.0	56.7
DALZ 1303	93.3	90.0	93.3	88.3	93.3	83.3	88.3	71.7	83.3	58.3
ZEON	99.0	85.0	97.7	83.3	91.7	75.0	85.0	60.0	71.7	48.3
CSZ 1109	63.3	33.3	63.3	30.0	63.3	26.7	60.0	18.3	55.0	15.0
DALZ 1301	88.3	81.7	88.3	80.0	86.7	75.0	83.3	68.3	73.3	56.7
FAES 1314	90.0	91.7	90.0	90.0	88.3	86.7	83.3	75.0	75.0	63.3
KSUZ 1201	93.3	83.0	93.3	81.7	91.7	78.3	83.3	65.0	75.0	53.3
MEYER	85.0	63.3	83.3	63.3	81.7	60.0	78.3	53.3	70.0	45.0
LSD VALUE	10.9	14.1	10.7	13.5	9.7	12.5	9.3	11.9	9.0	9.6
C.V. (%)	7.8	11.8	7.7	11.7	7.3	11.4	7.1	12.4	7.3	11.6

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/ 2015 DATA



TABLE 3.  
(CONT'D)

PERCENT GROUND LIVING COVER RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
GROWN UNDER TRAFFIC STRESS AT RALEIGH, NC 2/ 3/  
2015 DATA

NAME	NO TRAFFIC 10_16	TRAFFIC 10_16	NO TRAFFIC 10_23	TRAFFIC 10_23	NO TRAFFIC 10_30	TRAFFIC 10_30	NO TRAFFIC 11_6	TRAFFIC 11_6	NO TRAFFIC 11_13	TRAFFIC 11_13
09-TZ-54-9	73.3	48.3	65.0	38.3	56.7	31.7	56.7	26.7	43.3	15.0
09-TZ-53-20	73.3	51.7	70.0	40.0	65.0	33.3	61.7	31.7	48.3	13.3
FAES 1315	66.7	41.7	60.0	36.7	56.7	33.3	53.3	33.3	40.0	13.3
10-TZ-1254	71.7	48.3	66.7	36.7	63.3	31.7	60.0	28.3	45.0	11.7
DALZ 1302	70.0	48.3	60.0	40.0	55.0	30.0	51.7	28.3	33.3	11.7
FAES 1304	76.7	45.0	68.3	36.7	63.3	31.7	58.3	28.3	46.7	11.7
FAES 1319	76.7	48.3	68.3	41.7	61.7	33.3	56.7	26.7	40.0	10.0
FAES 1322	73.3	55.0	68.3	41.7	63.3	33.3	58.3	28.3	41.7	9.0
A-1	71.7	43.3	65.0	35.0	58.3	31.7	55.0	30.0	38.3	8.3
EMPIRE	70.0	50.0	58.3	38.3	56.7	31.7	51.7	28.3	33.3	8.3
FAES 1307	73.3	43.3	65.0	33.3	60.0	26.7	56.7	23.3	43.3	7.3
FAES 1309	68.3	36.7	63.3	25.0	60.0	20.0	55.0	18.3	45.0	6.7
FAES 1312	61.7	43.3	53.3	31.7	45.0	26.7	43.3	20.0	30.0	6.7
FAES 1313	73.3	43.3	65.0	35.0	61.7	28.3	58.3	21.7	46.7	6.7
10-TZ-35	68.3	51.7	58.3	33.3	53.3	26.7	48.3	21.7	30.0	5.7
CSZ 1105	71.7	35.0	68.3	31.7	61.7	25.0	61.7	21.7	50.0	5.7
FAES 1310	63.3	28.3	58.3	21.7	53.3	18.3	53.3	16.7	40.0	5.0
FAES 1329	73.3	43.3	65.0	33.3	61.7	26.7	60.0	21.7	41.7	5.0
FAES 1303	60.0	30.0	56.7	21.7	56.7	18.3	51.7	15.0	36.7	4.0
FAES 1316	58.3	31.7	51.7	21.7	51.7	15.0	48.3	13.3	35.0	4.0
FAES 1317	61.7	35.0	55.0	31.7	48.3	23.3	48.3	21.7	33.3	4.0
FAES 1318	65.0	38.3	55.0	26.7	53.3	21.7	48.3	18.3	33.3	4.0
FAES 1328	60.0	40.0	48.3	30.0	45.0	21.7	40.0	20.0	21.7	4.0
GGZ 504	66.7	36.7	58.3	31.7	53.3	23.3	51.7	18.3	31.7	4.0
11-TZ-4321	66.7	46.7	55.0	36.7	45.0	25.0	40.0	18.3	20.0	3.0
FAES 1306	63.3	33.3	58.3	23.3	53.3	23.3	50.0	18.3	33.3	3.0
FAES 1308	58.3	26.7	53.3	18.3	53.3	15.0	53.3	13.3	38.3	3.0
FAES 1305	70.0	41.7	56.7	31.7	45.0	23.3	41.7	18.3	21.7	2.3
DALZ 1303	75.0	41.7	73.3	36.7	70.0	28.3	66.7	26.7	45.0	2.0
ZEON	58.3	30.0	45.0	21.7	40.0	13.3	35.0	10.0	18.3	1.3
CSZ 1109	53.3	10.7	51.7	5.7	48.3	5.7	46.7	4.7	36.7	0.7
DALZ 1301	65.0	35.0	58.3	25.0	45.0	21.7	38.3	11.7	23.3	0.7
FAES 1314	60.0	46.7	46.7	28.3	45.0	23.3	40.0	15.0	21.7	0.7
KSUZ 1201	58.3	30.0	43.3	18.3	28.3	10.0	23.3	6.7	6.3	0.0
MEYER	55.0	33.3	43.3	23.3	25.0	10.0	21.7	6.7	3.0	0.0
LSD VALUE	9.2	8.8	9.2	7.9	10.1	8.3	8.8	7.5	11.2	4.0
C.V. (%)	8.3	14.3	9.8	16.8	12.2	21.7	11.6	23.6	21.1	45.0

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/ 2015 DATA

TABLE 3.  
(CONT'D)

PERCENT GROUND COVER RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT RALEIGH, NC 1/  
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	NO TRAFFIC AUG 25	TRAFFIC AUG 25	NO TRAFFIC SEPT 1	TRAFFIC SEPT 1	NO TRAFFIC SEPT 8	TRAFFIC SEPT 8	NO TRAFFIC SEPT 15	TRAFFIC SEPT 15	NO TRAFFIC SEPT 22	TRAFFIC SEPT 22	NO TRAFFIC SEPT 29	TRAFFIC SEPT 29
09-TZ-54-9	99.0	96.3	99.0	96.3	99.0	94.7	96.3	91.7	91.7	88.3	89.0	80.0
FAES 1313	99.0	99.0	99.0	99.0	99.0	99.0	99.0	97.7	99.0	97.7	99.0	93.3
A-1	99.0	99.0	97.7	99.0	97.7	99.0	97.7	96.3	97.7	96.3	97.7	90.0
CSZ 1105	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	96.3	96.3	86.7
DALZ 1303	99.0	99.0	99.0	99.0	99.0	99.0	99.0	97.7	99.0	97.7	99.0	93.3
FAES 1315	99.0	99.0	99.0	99.0	99.0	99.0	97.7	96.3	96.3	91.7	93.3	86.7
09-TZ-53-20	99.0	97.7	99.0	97.7	97.7	97.7	97.7	96.3	96.3	96.3	93.3	90.0
DALZ 1302	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	94.7
FAES 1304	99.0	99.0	99.0	99.0	99.0	99.0	97.7	96.3	96.0	93.0	94.7	85.0
FAES 1317	99.0	99.0	99.0	99.0	99.0	99.0	99.0	97.7	99.0	95.0	99.0	93.3
FAES 1307	99.0	99.0	99.0	99.0	99.0	99.0	99.0	96.3	99.0	91.7	99.0	83.3
FAES 1309	99.0	93.3	97.7	93.3	96.0	88.3	93.3	83.3	90.0	76.7	88.3	66.7
FAES 1322	99.0	99.0	99.0	99.0	99.0	99.0	99.0	97.7	97.7	97.7	97.7	91.7
10-TZ-1254	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	96.3	96.3	88.3
FAES 1306	99.0	99.0	99.0	99.0	99.0	93.0	97.7	86.3	94.7	84.7	94.7	76.7
FAES 1312	99.0	99.0	99.0	99.0	99.0	99.0	99.0	97.7	99.0	97.7	97.7	94.7
EMPIRE	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	95.0
FAES 1316	99.0	99.0	99.0	99.0	99.0	99.0	99.0	95.0	99.0	91.7	99.0	85.0
FAES 1318	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	97.7	99.0	90.0
FAES 1303	99.0	94.7	99.0	94.7	96.3	91.3	96.3	86.7	96.3	83.3	93.0	75.0
FAES 1305	99.0	99.0	99.0	99.0	99.0	99.0	99.0	97.7	99.0	93.3	99.0	85.0
FAES 1308	99.0	93.0	97.7	91.7	96.3	88.3	96.3	88.3	94.7	83.3	93.3	73.3
10-TZ-35	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	94.7
FAES 1319	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	97.7	99.0	91.7
FAES 1329	99.0	99.0	99.0	99.0	99.0	99.0	99.0	93.3	99.0	91.7	97.7	85.0
CSZ 1109	96.0	58.3	94.7	58.3	94.7	54.0	93.3	50.7	90.0	47.3	88.3	40.7
FAES 1310	99.0	97.7	99.0	97.7	99.0	95.0	96.3	90.0	93.3	83.3	90.0	76.7
FAES 1328	99.0	99.0	99.0	99.0	99.0	99.0	97.7	94.7	97.7	93.0	97.7	88.3
ZEON	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	95.0	97.7	86.7
GGZ 504	99.0	99.0	99.0	99.0	99.0	96.3	96.3	91.7	94.7	85.0	91.7	73.3
DALZ 1301	99.0	99.0	99.0	99.0	99.0	99.0	99.0	96.3	99.0	93.3	95.0	80.0
KSUZ 1201	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	91.7
MEYER	99.0	96.0	97.7	96.0	97.7	96.0	97.7	94.7	97.7	93.0	96.3	86.7
11-TZ-4321	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	99.0	93.3
FAES 1314	99.0	99.0	99.0	99.0	99.0	99.0	99.0	97.7	99.0	93.3	99.0	88.3
LSD VALUE	3.0	16.6	2.5	16.5	3.6	15.1	2.7	14.7	4.7	15.2	5.3	14.9
C.V. (%)	0.9	8.4	1.1	8.4	1.5	8.5	1.5	8.9	2.7	9.6	3.2	10.5

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.

3/ 2016 DATA

TABLE 3.  
(CONT'D)

PERCENT GROUND COVER RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT RALEIGH, NC 1/  
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

NAME	NO TRAFFIC OCT 6	TRAFFIC OCT 6	NO TRAFFIC OCT 13	TRAFFIC OCT 13	NO TRAFFIC OCT 20	TRAFFIC OCT 20	NO TRAFFIC OCT 27	TRAFFIC OCT 27	NO TRAFFIC NOV 3	TRAFFIC NOV 3	NO TRAFFIC NOV 10	TRAFFIC NOV 10
09-TZ-54-9	86.7	68.3	85.0	66.7	83.3	63.3	80.0	61.7	76.7	53.3	66.7	40.0
FAES 1313	96.3	86.7	94.7	80.0	91.7	70.0	88.3	61.7	80.0	51.7	71.7	38.3
A-1	94.7	85.0	94.7	76.7	94.7	63.3	91.7	56.7	85.0	48.3	65.0	36.7
CSZ 1105	91.7	68.3	88.3	51.7	86.7	46.7	78.3	45.0	73.3	41.7	50.0	36.7
DALZ 1303	99.0	85.0	97.7	81.7	93.3	61.7	88.3	58.3	78.3	56.7	71.7	36.7
FAES 1315	90.0	75.0	88.3	70.0	86.7	61.7	81.7	58.3	73.3	50.0	58.3	36.7
09-TZ-53-20	90.0	83.3	85.0	80.0	83.3	70.0	80.0	63.3	80.0	51.7	68.3	35.0
DALZ 1302	99.0	90.0	97.7	85.0	93.3	70.0	88.3	68.3	85.0	60.0	63.3	35.0
FAES 1304	93.0	81.7	91.7	76.7	85.0	65.0	76.7	56.7	70.0	48.3	63.3	35.0
FAES 1317	97.7	86.7	96.3	76.7	95.0	70.0	91.7	58.3	90.0	46.7	76.7	35.0
FAES 1307	96.3	73.3	93.3	68.3	93.3	60.0	86.7	51.7	83.3	43.3	65.0	33.3
FAES 1309	83.3	60.0	83.3	56.7	81.7	46.7	75.0	45.0	73.3	41.7	58.3	33.3
FAES 1322	96.3	83.3	93.3	75.0	91.7	60.0	85.0	51.7	80.0	45.0	65.0	33.3
10-TZ-1254	96.3	78.3	91.7	68.3	90.0	50.0	83.3	45.0	73.3	36.7	58.3	30.0
FAES 1306	91.7	66.7	85.0	58.3	85.0	55.0	80.0	51.7	76.7	41.7	63.3	28.3
FAES 1312	97.7	88.3	94.7	81.7	93.0	68.3	85.0	63.3	80.0	46.7	56.7	28.3
EMPIRE	99.0	90.0	96.3	85.0	93.3	70.0	88.3	58.3	81.7	43.3	60.0	26.7
FAES 1316	99.0	78.3	96.3	66.7	93.3	56.7	86.7	50.0	85.0	38.3	65.0	25.0
FAES 1318	96.3	81.7	93.3	75.0	91.7	63.3	78.3	50.0	78.3	41.7	58.3	25.0
FAES 1303	91.3	61.7	88.3	53.3	85.0	50.0	78.3	48.3	71.7	35.0	55.0	23.3
FAES 1305	97.7	80.0	95.0	76.7	91.7	60.0	81.7	53.3	76.7	36.7	58.3	23.3
FAES 1308	90.0	63.3	85.0	53.3	85.0	48.3	81.7	45.0	75.0	33.3	58.3	23.3
10-TZ-35	97.7	88.3	96.3	83.3	93.3	73.3	88.3	63.3	78.3	45.0	63.3	21.7
FAES 1319	97.7	81.7	95.0	66.7	91.7	48.3	83.3	40.0	76.7	31.7	53.3	21.7
FAES 1329	95.0	71.7	93.3	63.3	88.3	53.3	81.7	45.0	73.3	36.7	51.7	21.7
CSZ 1109	88.3	34.0	80.0	29.0	73.3	23.7	70.0	23.7	70.0	23.7	60.0	20.3
FAES 1310	86.7	58.3	85.0	46.7	83.3	40.0	76.7	35.0	70.0	26.7	56.7	20.0
FAES 1328	96.3	80.0	90.0	73.3	88.3	60.0	80.0	48.3	68.3	36.7	45.0	20.0
ZEON	94.7	75.0	94.7	66.7	90.0	55.0	81.7	41.7	70.0	33.3	48.3	20.0
GGZ 504	86.7	56.7	81.7	46.7	80.0	38.3	71.7	35.0	63.3	28.3	55.0	16.7
DALZ 1301	90.0	68.3	86.7	60.0	86.7	45.0	78.3	31.7	70.0	23.3	51.7	11.7
KSUZ 1201	99.0	88.3	96.3	81.7	90.7	60.0	78.3	43.3	68.3	35.0	41.7	11.7
MEYER	91.7	80.0	90.0	75.0	86.7	56.7	75.0	41.7	50.0	30.0	35.0	11.7
11-TZ-4321	97.7	85.0	96.3	78.3	90.0	55.0	80.0	36.7	68.3	18.3	51.7	6.7
FAES 1314	99.0	78.3	96.3	60.0	91.7	40.0	76.7	26.7	71.7	16.7	40.0	6.7
LSD VALUE	5.2	16.0	6.5	17.5	8.0	15.1	12.0	14.6	16.3	14.1	13.8	12.1
C.V. (%)	3.5	12.8	4.4	15.6	5.2	16.1	7.4	18.2	11.1	21.8	14.0	28.6

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/ 2016 DATA

TABLE 3.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT RALEIGH, NC 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

PERCENT GROUND COVER

NAME	NO TRAFFIC AUG 25	TRAFFIC AUG 25	NO TRAFFIC SEPT 1	TRAFFIC SEPT 1	NO TRAFFIC SEPT 8	TRAFFIC SEPT 8	NO TRAFFIC SEPT 15	TRAFFIC SEPT 15	NO TRAFFIC SEPT 22	TRAFFIC SEPT 22	NO TRAFFIC SEPT 29	TRAFFIC SEPT 29
09-TZ-54-9	99.0	99.0	99.0	96.3	99.0	86.7	99.0	78.3	99.0	78.3	97.7	76.7
FAES 1304	96.0	97.7	97.7	97.7	97.7	90.0	96.0	83.3	96.0	78.3	96.0	73.3
FAES 1312	99.0	99.0	99.0	99.0	99.0	96.3	99.0	88.3	99.0	85.0	99.0	78.3
DALZ 1302	99.0	99.0	99.0	97.7	99.0	93.0	99.0	85.0	99.0	85.0	99.0	85.0
FAES 1322	99.0	99.0	99.0	99.0	99.0	96.3	99.0	88.3	99.0	85.0	99.0	78.3
FAES 1305	99.0	99.0	97.7	97.7	97.7	91.7	94.7	83.3	94.7	80.0	91.3	75.0
FAES 1315	99.0	99.0	99.0	99.0	99.0	88.3	99.0	75.0	99.0	73.3	99.0	70.0
FAES 1319	99.0	99.0	99.0	99.0	99.0	93.3	99.0	86.7	99.0	80.0	99.0	73.3
09-TZ-53-20	99.0	99.0	99.0	99.0	99.0	93.3	99.0	81.7	99.0	76.7	99.0	76.7
11-TZ-4321	99.0	99.0	99.0	99.0	99.0	96.3	99.0	88.3	99.0	83.3	97.7	76.7
10-TZ-35	99.0	99.0	99.0	99.0	99.0	96.3	99.0	93.3	99.0	91.7	99.0	85.0
A-1	99.0	99.0	97.7	97.7	97.7	95.0	96.0	81.7	94.3	73.3	94.3	68.3
EMPIRE	99.0	99.0	99.0	99.0	99.0	96.3	99.0	88.3	99.0	86.7	99.0	81.7
FAES 1313	99.0	99.0	99.0	99.0	99.0	93.3	99.0	81.7	99.0	78.3	99.0	76.7
10-TZ-1254	99.0	99.0	99.0	99.0	99.0	93.3	99.0	83.3	99.0	78.3	99.0	75.0
DALZ 1301	99.0	99.0	97.7	97.7	99.0	96.3	99.0	90.0	99.0	81.7	96.0	73.3
FAES 1316	99.0	99.0	99.0	99.0	99.0	90.0	99.0	75.0	99.0	71.7	99.0	68.3
FAES 1329	99.0	99.0	99.0	99.0	99.0	93.3	99.0	75.0	99.0	65.0	99.0	63.3
CSZ 1105	99.0	99.0	99.0	97.7	99.0	86.7	99.0	73.3	99.0	71.7	99.0	66.7
FAES 1328	99.0	99.0	99.0	99.0	99.0	90.0	99.0	78.3	99.0	73.3	99.0	70.0
FAES 1307	99.0	99.0	99.0	99.0	99.0	91.7	99.0	80.0	99.0	71.7	99.0	68.3
FAES 1309	99.0	97.7	99.0	93.3	99.0	73.3	99.0	61.7	99.0	58.3	99.0	58.3
FAES 1303	99.0	99.0	99.0	96.3	99.0	80.0	97.7	61.7	97.7	58.3	97.7	58.3
FAES 1306	99.0	99.0	99.0	96.3	99.0	83.3	97.7	68.3	97.7	66.7	97.7	65.0
FAES 1310	99.0	99.0	99.0	96.3	99.0	80.0	99.0	63.3	97.7	58.3	97.7	58.3
DALZ 1303	99.0	99.0	99.0	99.0	99.0	91.7	99.0	78.3	99.0	75.0	99.0	71.7
GGZ 504	99.0	99.0	99.0	99.0	99.0	88.3	99.0	66.7	99.0	66.7	97.7	63.3
FAES 1308	99.0	99.0	99.0	96.3	99.0	78.3	99.0	61.7	97.7	60.0	97.7	58.3
FAES 1314	99.0	99.0	99.0	99.0	99.0	95.0	99.0	81.7	99.0	78.3	99.0	71.7
FAES 1317	99.0	99.0	99.0	99.0	99.0	95.0	99.0	80.0	99.0	76.7	99.0	73.3
FAES 1318	99.0	99.0	99.0	99.0	99.0	88.3	99.0	76.7	99.0	73.3	99.0	70.0
MEYER	99.0	99.0	99.0	99.0	99.0	91.7	99.0	81.7	99.0	80.0	99.0	75.0
KSUZ 1201	99.0	99.0	99.0	99.0	99.0	93.3	99.0	83.3	99.0	80.0	99.0	73.3
ZEON	99.0	99.0	96.3	95.0	96.3	90.0	94.7	73.3	94.7	68.3	91.3	65.0
CSZ 1109	97.7	69.7	97.7	63.3	97.7	53.3	93.0	38.3	90.0	38.3	89.7	38.3
LSD VALUE	3.2	24.8	2.6	18.6	2.2	15.3	4.0	12.5	4.4	10.7	7.0	10.8
C.V. (%)	1.0	8.2	1.0	8.2	0.9	9.5	1.9	10.1	2.3	9.3	3.2	9.5

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.

3/ 2017 DATA

TABLE 3.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN UNDER TRAFFIC STRESS AT RALEIGH, NC 1/  
2017 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/ 3/

PERCENT GROUND COVER

NAME	NO TRAFFIC OCT 6	TRAFFIC OCT 6	NO TRAFFIC OCT 13	TRAFFIC OCT 13	NO TRAFFIC OCT 20	TRAFFIC OCT 20	NO TRAFFIC OCT 27	TRAFFIC OCT 27	NO TRAFFIC NOV 03	TRAFFIC NOV 3	NO TRAFFIC NOV 10	TRAFFIC NOV 10
09-TZ-54-9	97.7	70.0	97.7	68.3	96.3	66.7	95.0	60.0	85.0	50.0	78.3	40.0
FAES 1304	96.0	68.3	96.0	65.0	94.7	65.0	90.0	56.7	85.0	43.3	82.7	38.3
FAES 1312	99.0	75.0	99.0	71.7	99.0	65.0	91.7	63.3	86.7	48.3	76.7	36.7
DALZ 1302	97.7	76.7	97.7	71.7	96.3	66.7	93.0	60.0	90.0	48.3	81.7	35.0
FAES 1322	99.0	71.7	99.0	68.3	96.3	63.3	91.7	60.0	88.3	46.7	81.7	35.0
FAES 1305	88.3	68.3	85.0	63.3	81.7	58.3	78.3	51.7	73.3	41.7	63.3	33.3
FAES 1315	99.0	63.3	99.0	63.3	99.0	55.0	96.3	51.7	88.3	38.3	81.7	33.3
FAES 1319	99.0	70.0	99.0	66.7	99.0	63.3	93.3	60.0	90.0	43.3	83.3	33.3
09-TZ-53-20	99.0	71.7	99.0	68.3	99.0	60.0	95.0	55.0	90.0	43.3	83.3	31.7
11-TZ-4321	96.3	70.0	96.3	65.0	95.0	60.0	90.0	55.0	85.0	40.0	75.0	31.7
10-TZ-35	99.0	78.3	99.0	73.3	96.3	63.3	90.0	53.3	88.3	45.0	76.7	30.0
A-1	91.3	61.7	89.7	60.0	88.0	56.7	86.7	55.0	85.0	43.3	76.7	30.0
EMPIRE	99.0	73.3	99.0	70.0	99.0	61.7	93.3	56.7	93.3	43.3	81.7	30.0
FAES 1313	99.0	71.7	99.0	66.7	99.0	56.7	97.7	50.0	94.7	40.0	90.0	30.0
10-TZ-1254	99.0	68.3	99.0	63.3	99.0	58.3	96.3	53.3	90.0	43.3	86.7	28.3
DALZ 1301	94.7	65.0	96.0	58.3	88.3	55.0	83.3	50.0	78.3	38.3	71.7	28.3
FAES 1316	99.0	63.3	99.0	56.7	97.7	53.3	90.0	43.3	88.3	30.0	78.3	26.7
FAES 1329	99.0	56.7	99.0	56.7	97.7	55.0	93.0	51.7	91.7	33.3	81.7	25.0
CSZ 1105	99.0	63.3	99.0	61.7	99.0	58.3	95.0	50.0	91.7	36.7	86.7	23.3
FAES 1328	99.0	61.7	99.0	58.3	93.3	55.0	83.3	46.7	76.7	35.0	63.3	23.3
FAES 1307	99.0	65.0	99.0	61.7	97.7	53.3	93.3	46.7	88.3	31.7	81.7	21.7
FAES 1309	99.0	58.3	99.0	56.7	96.3	55.0	95.0	50.0	90.0	38.3	81.7	21.7
FAES 1303	97.7	55.0	97.7	53.3	96.0	50.0	94.7	45.0	90.0	31.7	83.3	18.3
FAES 1306	97.7	60.0	99.0	58.3	97.7	56.7	91.7	48.3	88.3	31.7	85.0	18.3
FAES 1310	99.0	55.0	99.0	53.3	97.7	50.0	91.7	41.7	88.3	26.7	81.7	18.3
DALZ 1303	99.0	70.0	97.7	63.3	97.7	55.0	93.3	50.0	88.3	33.3	80.0	16.7
GGZ 504	97.7	58.3	97.7	55.0	93.3	51.7	88.3	41.7	83.3	28.3	76.7	16.7
FAES 1308	97.7	55.0	97.7	55.0	96.3	53.3	91.7	45.0	86.7	26.7	81.7	15.0
FAES 1314	99.0	66.7	99.0	56.7	91.7	51.7	85.0	40.0	85.0	28.3	71.7	15.0
FAES 1317	99.0	63.3	99.0	58.3	99.0	48.3	97.7	40.0	95.0	25.0	90.0	15.0
FAES 1318	99.0	63.3	99.0	58.3	96.3	51.7	88.3	41.7	86.7	25.0	73.3	15.0
MEYER	99.0	65.0	99.0	60.0	93.3	53.3	80.0	48.3	71.7	26.7	58.3	15.0
KSUZ 1201	99.0	66.7	99.0	60.0	91.7	50.0	83.3	40.0	76.7	26.7	61.7	13.3
ZEON	90.0	58.3	90.0	56.7	90.0	50.0	83.3	38.3	83.3	21.7	70.0	13.3
CSZ 1109	88.0	35.7	92.7	32.3	90.0	32.3	86.7	27.3	81.7	19.0	75.0	10.0
LSD VALUE	5.5	13.3	5.5	14.0	6.2	13.6	6.8	13.4	8.1	11.7	8.5	9.6
C.V. (%)	3.2	11.7	3.2	12.6	3.8	12.8	4.6	15.3	5.6	19.7	6.9	24.4

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/ 2017 DATA

TABLE 4.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
IN THE 2013 NATIONAL ZOYSIAGRASS TEST AT RIVERSIDE (SHADE), CA 1/  
2014-17 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	DENSITY RATINGS			PERCENT GROUND COVER			WINTER COLOR	QUALITY RATINGS					MEAN							
			SPRING	SUMMER	FALL	SPRING	SUMMER	FALL		JAN	FEB	MAR	APR	MAY		JUN	JUL	AUG	SEP	OCT	NOV	DEC
09-TZ-53-20	7.0	5.5	6.3	6.4	5.8	88.3	99.0	99.0	6.3	5.6	5.8	5.5	5.5	6.3	6.4	6.6	7.0	6.7	6.6	6.2	6.1	6.2
09-TZ-54-9	6.8	4.8	6.0	6.6	6.0	90.0	99.0	96.0	5.8	5.5	5.6	5.3	5.3	6.1	6.5	6.5	7.1	6.8	6.6	6.1	5.9	6.1
DALZ 1303	6.3	5.8	6.5	6.9	6.7	94.7	99.0	97.7	6.2	5.5	5.9	5.8	6.1	6.8	6.3	6.9	6.9	6.2	5.9	5.3	5.9	6.1
FAES 1306	6.4	6.5	6.5	6.5	6.3	91.7	99.0	93.3	5.8	5.7	6.1	6.0	5.9	6.3	6.2	6.5	6.8	5.7	5.8	5.1	5.8	6.0
FAES 1310	6.3	5.2	6.3	6.6	6.3	91.3	99.0	95.0	5.8	5.6	5.8	5.8	5.7	6.3	6.1	6.7	6.6	5.8	5.8	5.4	6.0	6.0
FAES 1303	6.6	6.5	7.0	6.3	6.0	92.7	99.0	97.7	5.8	5.8	6.0	5.8	6.3	6.4	6.2	6.3	6.2	5.7	5.6	5.1	5.8	5.9
FAES 1307	6.3	6.8	6.2	5.8	6.5	91.0	99.0	95.0	6.3	5.8	6.5	6.2	6.3	6.3	6.0	6.2	6.3	5.5	5.6	5.1	5.3	5.9
FAES 1329	6.5	6.7	6.0	6.0	6.3	97.7	99.0	97.7	6.2	5.5	5.8	6.0	5.7	6.3	6.3	6.3	6.6	6.1	5.8	5.3	5.8	5.9
DALZ 1301	6.7	4.8	6.2	6.3	6.3	90.0	99.0	91.7	5.1	5.3	5.3	5.2	5.8	6.3	6.3	6.3	6.6	6.0	5.8	5.2	5.5	5.8
FAES 1318	6.4	5.5	5.8	5.9	5.3	91.3	98.7	93.3	5.6	5.0	5.3	6.0	5.5	5.8	6.3	5.9	6.6	6.1	6.3	5.3	5.8	5.8
CSZ 1109	6.5	4.3	5.7	6.0	6.5	83.3	97.3	96.3	5.5	5.6	5.3	5.0	5.1	5.8	6.3	6.0	6.4	5.8	5.6	5.4	5.9	5.7
FAES 1309	6.2	5.2	5.7	5.8	6.7	90.0	99.0	96.0	5.7	5.3	5.3	5.3	5.5	5.7	5.9	6.3	6.2	5.9	6.0	5.5	5.9	5.7
FAES 1315	6.3	6.5	6.8	5.9	6.2	99.0	97.7	94.7	5.6	5.3	5.9	6.0	6.1	6.3	6.1	6.0	6.2	5.1	5.1	4.7	5.3	5.7
FAES 1322	7.0	4.8	5.3	5.4	6.2	86.7	99.0	96.3	5.7	4.9	5.3	4.8	5.0	5.8	6.3	6.4	6.3	6.0	6.0	5.7	5.6	5.7
FAES 1304	6.3	4.8	5.5	5.4	6.3	90.0	99.0	94.7	5.7	5.3	5.3	5.2	5.2	5.9	6.0	5.9	6.0	5.5	5.5	5.5	5.6	5.6
FAES 1305	6.0	6.0	6.2	6.1	6.5	86.7	97.7	96.3	5.3	5.3	5.3	5.5	5.8	6.3	6.0	5.8	6.2	5.6	5.6	4.8	5.2	5.6
FAES 1319	6.3	7.5	5.8	5.3	5.8	97.7	99.0	99.0	5.9	5.3	5.7	5.9	5.7	5.7	6.1	5.7	5.9	5.3	5.3	5.3	5.7	5.6
ZEON	6.0	5.3	5.8	5.7	6.0	97.7	97.7	97.7	5.3	5.1	5.2	5.4	5.4	6.0	5.8	5.8	6.2	5.3	5.3	4.8	5.2	5.5
FAES 1312	6.3	6.0	5.5	5.5	5.5	93.3	98.7	94.7	5.1	5.0	5.0	5.3	5.8	5.7	6.0	5.6	5.9	4.9	5.2	4.8	5.3	5.4
FAES 1317	6.2	5.5	5.3	5.6	5.5	93.0	99.0	96.3	5.3	5.1	5.1	5.1	4.8	5.8	5.9	5.8	5.9	5.3	5.4	4.9	5.3	5.4
FAES 1328	6.5	4.8	5.8	5.6	5.7	88.0	99.0	96.3	4.7	5.1	4.8	5.1	5.3	5.7	6.4	5.7	6.2	5.3	5.3	4.6	5.0	5.4
A-1	6.3	4.2	4.7	5.9	5.8	60.0	86.3	89.7	5.3	4.6	4.6	4.6	4.8	5.5	6.0	5.7	5.9	5.5	5.4	5.3	5.3	5.3
FAES 1308	6.3	4.5	5.8	5.8	6.3	80.0	96.3	90.0	5.0	4.9	4.9	5.3	4.8	5.4	5.8	5.9	5.9	5.2	5.4	4.8	5.6	5.3
10-TZ-35	6.4	5.0	5.3	5.3	5.2	76.7	99.0	99.0	5.1	4.6	4.8	5.1	5.3	5.3	5.8	5.3	5.7	5.1	5.7	5.3	4.9	5.2
DALZ 1302	6.5	6.2	5.5	5.3	5.5	76.7	97.7	95.0	5.2	5.1	5.2	5.2	4.9	5.3	5.8	5.2	5.8	5.1	5.2	4.8	5.1	5.2
FAES 1314	5.8	5.2	5.2	5.3	5.2	78.0	99.0	99.0	5.2	5.2	5.1	4.8	4.8	5.4	5.8	5.4	5.8	5.1	5.3	4.7	5.1	5.2
CSZ 1105	5.6	6.2	5.5	5.3	6.0	91.7	99.0	99.0	5.3	4.6	5.2	5.5	4.9	5.8	5.3	5.4	5.8	5.0	4.7	4.1	4.5	5.1
10-TZ-1254	5.7	5.0	5.2	4.9	6.0	86.7	97.7	97.7	4.8	4.6	4.9	5.4	4.8	5.3	5.4	5.0	5.2	4.6	4.9	4.7	4.5	4.9
11-TZ-4321	6.5	5.0	5.2	5.2	4.8	80.0	96.3	96.3	4.4	4.3	4.5	4.6	4.6	5.1	6.0	5.3	5.6	5.0	5.0	4.2	4.3	4.9
EMPIRE	5.9	4.7	5.2	4.8	5.0	83.3	99.0	97.7	4.9	4.4	4.8	4.4	4.5	5.1	5.7	5.1	5.2	5.0	5.0	4.9	4.6	4.9
GGZ 504	6.0	5.2	4.3	4.8	5.7	81.7	99.0	97.7	5.6	4.8	5.1	4.9	4.4	4.9	5.5	5.0	5.3	4.8	4.6	4.4	5.0	4.9
KSUZ 1201	6.3	4.3	4.8	5.3	4.8	70.0	96.3	93.0	3.8	4.3	4.3	4.4	4.5	5.1	6.0	5.6	5.7	5.3	4.8	3.7	4.3	4.8
FAES 1313	5.2	5.8	5.8	4.6	4.8	83.3	99.0	96.3	4.8	5.1	5.5	5.0	3.9	4.8	5.2	4.5	5.2	4.4	4.7	3.8	4.5	4.7
FAES 1316	5.2	6.2	5.2	4.7	4.0	83.3	99.0	77.5	4.1	4.7	5.0	5.0	4.6	4.4	5.2	4.7	5.3	4.6	4.6	3.9	4.1	4.7
MEYER	5.6	5.3	4.7	5.0	5.0	75.0	94.7	94.7	4.7	4.0	4.1	4.1	4.0	4.6	5.4	5.0	5.6	4.3	4.7	3.8	4.1	4.5
LSD VALUE	0.6	1.0	1.7	0.7	2.2	8.9	2.8	10.6	0.8	1.1	0.8	0.8	0.9	0.7	0.8	0.8	1.1	0.7	0.6	0.7	0.7	0.4
C.V. (%)	11.4	15.9	19.6	14.9	21.6	9.4	2.5	7.3	18.6	21.0	18.5	18.1	21.2	15.5	13.3	16.4	19.6	15.7	15.0	17.1	16.1	8.7

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

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

TABLE 5.

PERCENT GROUND LIVING COVER RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN UNDER SHADE AT CARBONDALE, IL 1/  
2014-15 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN

NAME	SPRING GREENUP	PERCENT GROUND LIVING COVER RATINGS IN 2014					PERCENT GROUND LIVING COVER RATINGS IN 2015					OCT_1	OCT_29
		MAY	JUNE	AUGUST	SEPTEMBER	OCTOBER	APRIL	MAY	JUNE	JULY	AUGUST		
FAES 1312	2.3	12.0	14.3	15.0	21.0	18.3	10.3	16.0	21.3	27.0	32.0	29.7	26.0
A-1	1.7	12.0	12.0	13.3	14.7	14.3	6.3	13.0	14.0	15.7	16.3	23.3	23.3
DALZ 1301	3.0	12.0	11.7	11.3	12.3	15.3	6.7	10.3	12.3	14.3	17.0	21.0	22.0
10-TZ-35	2.0	12.0	12.0	13.0	19.3	12.0	9.3	11.7	14.7	17.0	19.7	24.3	21.7
DALZ 1302	3.0	11.3	11.0	11.7	15.3	13.3	8.0	11.3	12.3	12.3	13.3	14.0	20.3
MEYER	4.3	11.7	11.3	11.3	14.0	12.0	12.3	13.0	15.7	18.7	21.3	20.0	17.7
10-TZ-1254	2.7	12.0	12.0	13.3	17.7	14.0	7.0	10.3	11.7	13.3	14.3	16.7	16.3
ZEON	1.3	12.0	12.3	14.3	21.3	20.3	2.7	10.7	13.3	15.7	17.7	19.3	16.3
FAES 1319	3.0	12.0	11.7	12.0	16.3	14.0	9.3	10.3	11.0	11.7	12.3	14.0	15.7
FAES 1313	2.0	11.7	16.3	16.7	23.0	17.0	2.7	8.3	9.3	10.3	10.7	12.0	15.3
KSUZ 1201	4.0	12.0	12.0	12.7	13.7	13.0	11.0	13.3	15.0	16.3	20.0	18.0	15.3
FAES 1305	3.0	11.3	10.7	11.3	12.0	12.0	8.0	9.0	9.7	10.3	11.0	12.0	13.7
EMPIRE	2.7	12.0	15.0	15.0	19.0	13.3	9.3	13.3	15.3	16.7	18.3	19.7	13.0
FAES 1307	1.7	12.0	12.7	14.0	15.7	14.0	0.7	4.0	5.0	6.0	7.3	9.0	13.0
09-TZ-54-9	3.0	11.0	12.0	11.7	11.3	11.7	6.7	8.7	9.0	8.3	8.3	10.0	10.3
FAES 1316	1.3	10.7	11.3	13.3	15.3	14.0	1.3	7.3	7.3	7.0	7.0	9.0	10.0
FAES 1304	3.0	12.0	12.0	13.7	17.0	13.7	8.7	11.0	12.7	13.3	13.7	11.3	8.3
FAES 1317	1.3	12.0	12.0	10.3	10.7	10.3	1.7	6.3	6.7	6.3	7.0	7.7	8.3
FAES 1318	1.0	8.0	12.0	14.0	17.0	16.7	2.3	6.3	6.0	5.3	5.0	11.7	8.3
FAES 1306	1.3	12.0	13.3	14.0	16.7	15.0	0.7	4.3	4.7	5.3	5.3	4.7	5.3
FAES 1314	1.0	12.0	11.7	11.0	20.3	12.7	1.0	2.7	3.0	4.0	4.7	4.7	4.7
FAES 1310	1.0	11.7	12.7	12.0	16.0	13.7	0.7	5.3	4.7	4.0	3.3	4.3	4.3
09-TZ-53-20	1.7	10.0	10.0	10.3	12.3	10.7	1.3	5.3	5.0	4.3	4.0	5.0	3.7
FAES 1309	1.0	10.7	11.3	11.0	12.3	11.7	0.3	1.0	1.3	2.0	2.3	3.0	3.7
FAES 1329	1.0	12.0	18.3	16.7	23.3	18.0	2.3	5.3	4.7	4.0	3.3	4.0	3.7
CSZ 1105	1.3	11.3	11.7	11.0	12.3	11.0	0.7	2.0	2.0	1.7	1.7	2.7	3.3
FAES 1328	1.3	11.3	11.0	11.3	9.0	11.0	1.7	4.7	4.0	3.7	3.3	3.0	3.0
FAES 1308	1.0	12.0	12.7	14.7	17.7	16.3	0.0	1.7	1.7	1.7	1.7	1.7	2.7
CSZ 1109	1.0	12.0	13.7	12.3	14.3	14.7	0.0	2.0	2.0	2.3	2.7	2.7	2.0
FAES 1315	1.0	11.7	10.7	11.3	11.7	11.0	1.3	2.7	2.7	2.3	2.3	2.7	2.0
FAES 1322	1.0	11.0	10.7	10.3	10.7	11.7	0.7	2.3	3.0	3.3	4.0	1.7	1.7
11-TZ-4321	1.7	12.0	10.3	10.7	10.7	7.0	3.7	4.0	4.0	3.7	3.7	2.7	1.3
GGZ 504	1.7	11.3	10.7	8.7	5.3	5.7	0.3	1.3	1.7	1.7	2.0	2.3	1.3
DALZ 1303	1.0	12.0	11.3	10.3	10.0	11.0	0.3	1.0	1.7	2.0	2.7	1.3	1.0
FAES 1303	1.0	12.0	12.0	10.0	10.3	12.3	0.7	1.0	1.0	1.0	1.0	1.0	0.0
LSD VALUE	0.8	3.8	3.3	4.7	7.9	4.7	2.7	4.8	6.1	8.2	10.4	10.4	8.2
C.V. (%)	27.3	10.9	14.6	18.4	29.1	20.5	45.3	44.1	49.9	60.5	68.6	63.7	53.7

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

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

TABLE 6.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN UNDER DROUGHT STRESS AT COLLEGE STATION, TX 1/  
2015-17 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	WINTER COLOR	COLOR NOVEMBER	COLOR DECEMBER	LARGE PATCH DISEASE			QUALITY RATINGS							MEAN
							NOVEMBER	DECEMBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	
FAES 1305	7.8	6.5	7.8	3.7	9.0	7.0	9.0	8.7	6.8	7.2	7.5	6.7	7.4	6.6	6.8	8.0	7.0
ZEON	7.1	5.7	7.9	4.5	8.7	7.3	7.7	6.7	6.2	7.8	6.8	7.3	7.6	6.1	6.9	7.3	7.0
FAES 1329	7.2	6.5	6.7	4.8	9.0	7.3	8.7	8.7	6.7	6.3	7.0	6.9	6.9	6.1	6.9	8.0	6.8
FAES 1313	7.0	6.2	6.8	5.5	9.0	7.7	8.3	8.7	6.7	5.3	6.0	6.9	7.0	6.1	6.9	7.3	6.6
DALZ 1303	6.6	5.7	7.2	4.3	7.7	6.3	8.3	8.3	6.5	6.7	6.5	7.0	7.7	5.3	6.1	6.3	6.5
FAES 1309	6.2	5.8	7.3	4.3	9.0	7.7	9.0	9.0	6.3	6.0	6.7	6.1	6.8	6.2	6.6	7.3	6.4
FAES 1303	6.8	4.5	7.6	4.2	7.7	7.7	7.3	8.3	5.5	6.0	6.5	7.2	7.1	5.2	6.3	5.7	6.2
FAES 1307	6.6	5.2	6.3	5.0	8.0	6.3	9.0	9.0	5.8	6.5	6.2	6.3	6.6	5.6	6.3	6.3	6.2
FAES 1310	6.6	4.5	7.4	4.2	8.7	7.7	9.0	9.0	5.5	6.0	7.2	6.7	6.8	5.4	5.9	6.7	6.2
A-1	7.6	5.3	7.9	5.0	8.7	5.0	5.3	5.7	5.7	7.2	7.7	6.7	7.1	4.8	6.0	3.0	6.1
CSZ 1105	6.8	3.5	6.7	4.3	8.3	5.7	7.0	7.0	5.5	6.2	6.3	6.4	6.9	5.6	5.9	5.7	6.1
FAES 1306	6.9	4.2	7.3	4.3	8.3	7.3	8.7	9.0	5.5	6.3	6.2	6.7	7.0	4.9	5.9	6.7	6.1
FAES 1319	6.9	5.8	5.8	4.7	8.3	7.0	8.3	8.3	6.3	6.3	6.0	6.7	6.4	5.4	6.0	6.3	6.1
FAES 1315	7.0	5.7	6.4	5.8	8.7	7.3	9.0	9.0	6.0	6.0	6.2	6.6	6.2	5.3	5.4	4.7	5.8
CSZ 1109	7.0	4.8	6.9	4.2	8.3	7.7	9.0	8.7	5.2	5.5	5.5	5.7	6.3	5.0	5.8	6.3	5.6
FAES 1322	6.7	5.5	5.6	4.7	7.7	4.7	4.3	5.3	5.8	6.0	5.5	6.3	6.3	4.9	5.4	4.0	5.6
FAES 1308	6.7	4.8	7.8	4.2	8.3	7.7	9.0	9.0	6.0	5.8	6.2	5.7	6.7	5.1	5.3	3.3	5.5
FAES 1312	6.1	6.2	4.9	5.7	8.0	5.7	6.0	7.0	6.0	5.7	5.7	5.6	5.8	5.1	5.6	5.0	5.5
FAES 1314	6.7	4.2	6.1	3.5	6.3	3.0	7.0	6.7	4.8	5.8	5.8	6.9	6.3	4.6	5.1	3.7	5.5
FAES 1318	6.2	5.0	6.0	4.8	7.3	3.7	8.7	8.3	5.3	5.5	5.7	6.0	6.3	5.0	5.3	5.3	5.5
09-TZ-54-9	6.3	5.0	5.2	4.5	8.0	5.7	7.7	8.0	5.3	5.7	5.5	5.1	5.7	5.1	5.8	5.7	5.4
DALZ 1302	6.3	6.0	4.7	5.7	9.0	6.3	6.7	6.3	5.3	5.2	5.0	5.9	5.6	4.9	5.7	5.7	5.4
FAES 1304	7.1	6.2	5.2	5.5	8.7	7.3	9.0	9.0	5.5	5.7	5.5	5.6	5.8	5.2	5.4	4.3	5.4
FAES 1316	6.0	6.2	5.0	4.8	7.7	5.0	9.0	9.0	5.2	5.2	5.7	5.4	5.3	5.6	5.3	6.0	5.4
FAES 1317	6.8	5.3	5.4	4.8	8.7	7.3	8.3	8.3	5.7	5.5	5.3	5.4	5.6	4.9	5.7	6.3	5.4
GGZ 504	6.7	5.2	6.0	4.7	7.7	5.7	7.0	7.7	5.3	5.7	5.5	5.9	6.1	4.4	5.7	4.3	5.4
KSUZ 1201	6.3	6.3	5.8	3.3	7.0	4.0	9.0	9.0	5.3	6.2	5.8	5.3	6.1	4.8	5.4	4.3	5.4
09-TZ-53-20	6.8	4.8	5.8	4.7	8.0	6.0	6.0	7.3	5.3	6.2	6.2	5.7	5.8	4.7	5.3	4.0	5.3
10-TZ-1254	7.3	5.0	5.3	5.5	8.3	6.7	9.0	9.0	5.5	5.7	5.2	5.8	5.9	4.8	5.0	4.7	5.3
10-TZ-35	6.2	5.3	4.8	4.7	8.0	5.0	5.7	5.7	4.8	5.2	5.2	5.6	5.4	5.2	5.3	5.0	5.3
EMPIRE	6.0	5.2	4.9	4.5	7.7	4.3	6.3	5.7	4.7	5.2	5.0	5.9	5.2	5.1	5.4	4.7	5.2
FAES 1328	5.6	5.7	4.8	3.5	8.0	4.0	9.0	9.0	5.3	5.3	5.5	5.4	5.6	4.8	5.1	4.7	5.2
DALZ 1301	6.7	5.7	6.9	3.5	8.3	6.0	7.3	7.3	4.7	6.8	6.0	5.3	6.2	4.1	4.6	2.7	5.1
MEYER	6.6	5.2	5.0	2.5	7.7	3.3	7.3	5.7	5.2	5.8	5.5	5.1	5.6	4.6	5.2	5.3	5.1
11-TZ-4321	6.2	3.8	4.8	3.5	7.3	4.3	5.3	5.3	4.2	5.2	5.0	5.1	5.7	4.7	5.0	3.7	4.8
LSD VALUE	1.1	1.6	0.6	0.9	1.4	1.5	3.3	3.0	1.3	0.9	0.8	0.9	0.8	4.8	1.3	2.4	0.7
C.V. (%)	14.3	22.6	12.4	17.3	8.5	16.1	20.8	19.4	17.4	13.2	12.6	15.6	14.2	37.2	20.5	25.0	13.6

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 6.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN UNDER DROUGHT STRESS AT COLLEGE STATION, TX 1/  
2015-17 DATA

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

PERCENT LIVING GROUND COVER FOR DROUGHT TOLERANCE AND RECOVERY FROM DROUGHT STRESS

NAME	8_10	8_17	8_24	8_31	9_07	9_14	9_23	9_29	10_7	10_13	10_21	10_28	11_4	11_10
FAES 1305	81.7	81.7	75.0	65.0	65.0	60.0	61.7	65.0	66.7	66.7	66.7	68.3	70.0	70.0
ZEON	83.3	81.7	76.7	65.0	58.3	56.7	63.3	68.3	68.3	71.7	71.7	73.3	73.3	71.7
FAES 1329	83.3	85.0	75.0	63.3	63.3	60.0	70.0	73.3	73.3	73.3	73.3	75.0	76.7	76.7
FAES 1313	80.0	78.3	70.0	63.3	63.3	61.7	63.3	66.7	70.0	71.7	71.7	73.3	78.3	78.3
DALZ 1303	70.0	60.0	48.3	41.7	41.7	41.7	50.0	55.0	60.0	61.7	63.3	65.0	65.0	65.0
FAES 1309	83.3	78.3	66.7	65.0	61.7	60.0	60.0	65.0	65.0	66.7	68.3	70.0	71.7	73.3
FAES 1303	80.0	70.0	61.7	53.3	45.0	45.0	51.7	56.7	58.3	61.7	63.3	63.3	63.3	61.7
FAES 1307	83.3	83.3	73.3	61.7	60.0	56.7	63.3	68.3	70.0	70.0	70.0	71.7	71.7	71.7
FAES 1310	73.3	63.3	51.7	46.7	43.3	41.7	50.0	56.7	60.0	63.3	63.3	65.0	68.3	68.3
A-1	75.0	68.3	58.3	48.3	46.7	43.3	48.3	56.7	60.0	60.0	60.0	63.3	63.3	61.7
CSZ 1105	78.3	76.7	66.7	56.7	50.0	48.3	56.7	61.7	63.3	66.7	70.0	70.0	71.7	71.7
FAES 1306	75.0	63.3	51.7	43.3	40.0	36.7	51.7	58.3	58.3	63.3	63.3	65.0	66.7	66.7
FAES 1319	85.0	81.7	66.7	55.0	53.3	55.0	65.0	70.0	71.7	71.7	71.7	73.3	76.7	75.0
FAES 1315	80.0	71.7	61.7	58.3	55.0	48.3	55.0	58.3	58.3	63.3	63.3	63.3	63.3	65.0
CSZ 1109	73.3	68.3	61.7	60.0	56.7	55.0	56.7	60.0	61.7	63.3	65.0	65.0	68.3	68.3
FAES 1322	90.0	80.0	68.3	60.0	55.0	53.3	60.0	61.7	65.0	65.0	65.0	65.0	63.3	63.3
FAES 1308	68.3	48.3	38.3	31.7	26.7	26.7	35.0	43.3	50.0	51.7	53.3	55.0	56.7	56.7
FAES 1312	80.0	75.0	65.0	58.3	58.3	56.7	60.0	63.3	63.3	65.0	68.3	68.3	70.0	71.7
FAES 1314	80.0	65.0	51.7	43.3	46.7	45.0	51.7	58.3	60.0	60.0	61.7	61.7	61.7	63.3
FAES 1318	78.3	75.0	63.3	53.3	53.3	46.7	60.0	63.3	63.3	63.3	63.3	65.0	66.7	68.3
09-TZ-54-9	80.0	75.0	61.7	55.0	53.3	53.3	58.3	61.7	63.3	66.7	66.7	68.3	68.3	68.3
DALZ 1302	78.3	73.3	65.0	61.7	58.3	60.0	61.7	66.7	68.3	71.7	71.7	75.0	75.0	73.3
FAES 1304	75.0	66.7	48.3	46.7	51.7	48.3	53.3	58.3	61.7	61.7	61.7	65.0	66.7	66.7
FAES 1316	78.3	75.0	68.3	63.3	66.7	65.0	66.7	70.0	70.0	68.3	68.3	73.3	73.3	73.3
FAES 1317	75.0	68.3	51.7	50.0	46.7	46.7	56.7	61.7	61.7	63.3	63.3	65.0	68.3	68.3
GGZ 504	80.0	73.3	61.7	56.7	51.7	51.7	56.7	60.0	63.3	63.3	63.3	65.0	66.7	66.7
KSUZ 1201	76.7	73.3	63.3	56.7	56.7	55.0	60.0	63.3	65.0	65.0	65.0	66.7	68.3	68.3
09-TZ-53-20	73.3	61.7	46.7	43.3	45.0	45.0	53.3	58.3	60.0	61.7	61.7	61.7	61.7	61.7
10-TZ-1254	75.0	66.7	48.3	48.3	51.7	50.0	53.3	58.3	60.0	61.7	61.7	65.0	65.0	65.0
10-TZ-35	80.0	78.3	68.3	65.0	63.3	60.0	61.7	65.0	68.3	71.7	70.0	71.7	71.7	71.7
EMPIRE	86.7	83.3	73.3	66.7	66.7	63.3	66.7	73.3	75.0	75.0	75.0	76.7	76.7	75.0
FAES 1328	81.7	73.3	63.3	58.3	56.7	56.7	60.0	63.3	66.7	66.7	66.7	70.0	68.3	68.3
DALZ 1301	70.0	60.0	36.7	31.7	28.3	28.3	38.3	45.0	58.3	50.0	53.3	53.3	55.0	55.0
MEYER	76.7	75.0	61.7	55.0	55.0	56.7	63.3	66.7	70.0	70.0	70.0	75.0	75.0	71.7
11-TZ-4321	75.0	70.0	58.3	53.3	53.3	55.0	60.0	63.3	66.7	66.7	66.7	66.7	65.0	65.0
LSD VALUE	16.1	21.6	24.6	20.3	18.6	16.3	13.2	12.3	16.3	12.2	12.9	11.1	11.1	12.0
C.V. (%)	8.4	13.9	19.7	19.0	18.9	17.7	12.8	10.8	10.8	9.4	9.2	8.7	8.6	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 7.

MEAN TURFGRASS QUALITY, LARGE PATCH AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN AT COLUMBIA, MO 1/  
2016-17 DATA

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

NAME	SPRING GREENUP	DENSITY SPRING	LARGE PATCH	FALL COLOR RATINGS			QUALITY RATINGS						MEAN	
				OCTOBER	NOVEMBER	APR	MAY	JUN	JUL	AUG	SEP	OCT		NOV
DALZ 1301	6.7	5.8	6.3	6.3	7.7	6.0	6.7	7.3	7.0	7.0	7.3	6.0	7.3	6.8
KSUZ 1201	6.5	5.7	4.3	5.0	6.0	5.7	6.7	7.0	6.7	6.7	6.7	6.0	6.0	6.4
FAES 1305	8.0	5.3	6.7	6.7	7.0	5.7	5.7	7.0	6.3	6.7	6.3	6.3	6.3	6.3
MEYER	7.3	5.0	3.7	4.3	4.3	4.7	4.2	4.7	6.3	6.7	6.0	5.7	6.0	5.5
11-TZ-4321	4.7	5.0	6.0	6.3	6.7	4.0	4.0	4.3	4.3	4.7	6.0	5.7	5.3	4.8
FAES 1319	3.5	4.0	8.7	6.7	6.7	4.3	3.5	4.7	4.3	4.7	5.0	5.7	6.0	4.8
FAES 1312	2.8	3.8	6.0	6.0	6.0	3.0	3.0	3.7	4.0	4.0	4.0	4.0	4.0	3.7
10-TZ-35	2.3	1.8	.	6.0	7.5	1.7	1.3	1.7	1.0	3.0	3.7	4.7	3.7	2.6
DALZ 1302	1.0	1.5	.	5.0	6.0	1.3	1.3	1.7	1.3	1.7	2.3	2.3	2.3	1.8
FAES 1309	1.0	1.0	.	6.0	7.0	1.0	1.0	1.0	1.3	1.3	1.0	1.7	2.0	1.3
DALZ 1303	1.0	1.0	.	.	.	1.0	1.3	1.0	1.7	1.7	1.0	1.0	1.0	1.2
FAES 1306	1.0	1.5	.	.	.	1.7	1.0	2.0	1.0	1.0	1.0	1.0	1.0	1.2
FAES 1328	1.0	1.5	.	.	.	1.0	1.3	1.0	1.0	1.7	1.0	1.0	1.0	1.1
ZEON	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.3	1.0	1.0	1.3	1.1
09-TZ-53-20	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
09-TZ-54-9	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
10-TZ-1254	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
A-1	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CSZ 1105	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
CSZ 1109	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
EMPIRE	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FAES 1303	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FAES 1304	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FAES 1307	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FAES 1308	1.0	1.5	.	.	.	1.3	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FAES 1310	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FAES 1313	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FAES 1314	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.0
FAES 1315	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FAES 1316	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FAES 1317	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FAES 1318	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FAES 1322	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FAES 1329	1.0	1.0	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
GGZ 504	1.0	1.5	.	.	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.3	1.0
LSD VALUE	1.4	1.5	2.6	1.2	1.1	0.9	0.9	0.8	0.9	0.9	1.0	0.8	0.9	0.8
C.V. (%)	52.9	47.0	32.0	14.3	12.0	48.6	47.7	40.4	46.1	41.4	44.6	40.0	43.1	39.8

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 8.

GENETIC COLOR RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

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

NAME	AL1	AR1	AZ1	FL3	FL4	GA1	IN1	MO1	NC1	TN1	TX1	TX2	MEAN
FAES 1329	6.2	8.3	6.2	7.6	6.8	6.2	.	7.0	7.4	7.5	6.7	7.7	7.2
FAES 1314	6.2	7.8	6.7	6.9	6.9	5.9	.	7.7	7.3	7.7	6.4	8.7	7.2
FAES 1304	6.6	7.6	6.0	6.7	6.2	6.2	7.5	8.0	7.3	8.1	6.0	8.3	7.2
FAES 1316	6.3	7.1	6.5	7.2	6.7	5.9	.	7.3	7.2	7.7	6.9	8.3	7.1
A-1	7.4	8.3	6.0	7.6	5.9	6.2	.	7.7	7.1	7.4	6.2	8.0	7.1
11-TZ-4321	6.4	6.2	6.3	7.8	7.3	6.0	7.2	7.0	7.5	7.2	6.8	8.0	7.1
KSUZ 1201	6.8	8.1	6.2	7.8	6.1	6.2	6.8	6.3	7.5	7.4	6.6	7.7	7.0
FAES 1313	6.7	7.4	5.7	7.0	7.1	5.7	.	6.0	7.2	7.7	6.1	8.0	7.0
FAES 1319	6.3	5.4	6.6	7.4	7.0	6.4	.	7.3	7.4	7.6	6.2	7.3	6.9
10-TZ-1254	5.7	5.1	6.3	7.2	7.0	5.8	.	6.7	7.1	7.6	6.1	7.0	6.9
FAES 1310	5.4	7.6	5.3	6.8	6.6	5.8	.	7.0	6.9	7.8	6.0	7.0	6.8
FAES 1303	5.7	7.9	5.5	6.2	6.3	5.4	.	7.7	6.9	7.7	6.2	7.0	6.8
FAES 1317	5.8	5.3	6.8	7.1	6.3	5.6	.	7.7	7.4	7.7	6.8	8.0	6.8
MEYER	5.2	6.6	6.3	6.9	5.6	5.4	7.7	5.3	7.7	7.5	6.3	8.3	6.8
FAES 1305	6.7	7.6	5.2	7.3	6.8	6.1	6.5	6.0	7.2	7.2	6.9	7.0	6.8
09-TZ-53-20	4.7	6.3	6.7	7.2	6.2	6.1	.	6.7	7.1	7.5	6.2	7.0	6.8
DALZ 1301	6.9	7.6	5.3	6.4	7.0	6.8	6.5	5.7	7.0	7.0	6.9	7.0	6.8
09-TZ-54-9	4.3	7.0	6.1	6.1	6.4	6.1	.	7.3	6.8	7.7	6.8	7.3	6.8
FAES 1318	5.6	6.5	6.0	7.0	6.3	5.7	.	6.7	6.6	7.5	6.0	7.0	6.8
10-TZ-35	5.8	4.2	5.9	6.8	6.4	6.1	6.2	7.0	6.9	7.5	6.1	6.7	6.7
CSZ 1109	6.4	7.1	5.7	6.6	6.4	5.4	.	6.7	7.2	7.3	6.0	7.0	6.7
EMPIRE	6.0	4.4	6.7	7.0	6.2	5.9	6.5	6.3	6.8	7.5	5.9	6.0	6.7
GGZ 504	4.9	5.8	5.9	6.8	5.9	5.9	.	7.3	7.1	7.8	6.1	7.3	6.7
FAES 1312	5.4	5.5	5.9	7.2	6.7	6.2	6.8	6.3	7.3	7.1	6.3	8.3	6.7
FAES 1315	5.4	6.8	6.1	6.6	6.5	6.2	.	7.3	6.8	7.5	6.3	6.7	6.7
FAES 1328	5.6	6.1	6.7	7.0	5.9	5.9	.	6.0	7.3	7.5	6.3	7.3	6.7
FAES 1306	5.1	6.8	5.3	6.1	6.7	5.7	.	6.7	7.3	7.5	6.2	7.3	6.6
DALZ 1302	5.3	4.8	5.7	6.4	6.4	5.9	6.3	6.3	6.9	7.5	6.0	5.7	6.6
FAES 1322	3.8	5.8	6.1	6.6	6.8	6.2	.	6.0	6.7	7.5	6.6	7.7	6.6
CSZ 1105	5.4	6.0	5.0	6.1	6.3	5.7	.	6.3	6.6	7.4	6.1	7.7	6.6
DALZ 1303	4.6	6.8	5.1	5.8	6.5	5.8	.	6.3	6.3	7.3	6.3	6.7	6.5
ZEON	5.7	5.5	5.0	6.1	6.1	6.2	6.5	6.7	6.7	6.7	6.4	7.3	6.4
FAES 1307	5.6	6.3	5.7	6.3	6.4	5.8	.	6.3	6.8	6.5	6.0	6.7	6.3
FAES 1308	5.3	7.3	5.5	6.3	6.3	5.4	.	7.3	7.0	6.3	5.9	6.7	6.3
FAES 1309	5.4	4.9	5.8	6.4	6.2	5.9	.	6.7	7.0	6.2	5.8	7.0	6.2
LSD VALUE	1.8	1.0	1.3	1.1	1.1	0.8	0.8	1.2	0.8	1.0	0.9	1.3	0.5
C.V. (%)	19.7	9.4	13.9	10.2	10.4	8.9	7.7	11.1	6.9	8.8	9.4	11.1	9.9

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

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

TABLE 9.

 SPRING GREENUP RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
 2013-17 DATA

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

NAME	AL1	AR1	AZ1	FL3	FL4	GA1	IN1	KS1	MO1	NC1	TN1	TX1	TX2	MEAN
FAES 1319	5.8	7.3	7.7	7.0	7.0	5.2	1.0	2.7	2.3	4.4	3.7	5.0	3.7	5.4
FAES 1305	6.3	7.2	6.3	6.3	5.9	5.7	5.2	3.2	2.7	4.1	5.3	3.3	7.0	5.4
09-TZ-54-9	4.9	5.8	6.2	6.8	6.8	5.3	2.0	2.9	1.0	5.3	3.7	5.3	6.7	5.2
MEYER	4.7	5.6	6.3	5.7	2.9	5.6	7.7	6.9	6.0	4.4	6.0	2.4	5.3	5.1
DALZ 1301	4.8	6.4	6.1	5.8	6.2	5.3	5.0	3.4	4.0	4.2	6.0	3.3	6.0	5.1
FAES 1312	6.4	6.0	6.9	5.9	6.4	5.3	4.0	2.8	2.0	3.8	3.0	3.1	5.7	5.0
10-TZ-1254	4.8	6.3	6.0	7.1	6.1	5.7	1.0	3.0	1.0	3.5	4.7	5.0	5.7	5.0
A-1	6.2	8.1	5.8	6.1	6.8	4.4	1.7	2.0	1.0	3.7	2.3	3.6	7.0	5.0
FAES 1304	5.3	6.1	6.1	6.6	6.3	5.2	3.0	2.6	1.0	4.3	2.7	4.1	6.7	5.0
KSUZ 1201	5.3	6.6	5.2	4.4	4.1	3.9	7.3	6.9	3.3	3.4	6.0	2.4	6.7	4.9
DALZ 1302	5.3	7.0	5.8	5.3	5.6	4.6	4.0	3.6	1.0	4.1	4.0	4.1	5.3	4.8
11-TZ-4321	4.5	5.1	5.9	5.3	5.4	5.3	4.0	4.8	2.3	3.7	5.7	3.4	7.3	4.8
FAES 1313	6.0	4.8	5.8	6.9	6.9	4.2	1.0	2.1	1.7	2.8	1.7	4.4	4.3	4.6
10-TZ-35	4.7	6.2	5.8	5.3	5.2	4.7	3.8	3.1	1.0	3.8	5.0	3.6	4.7	4.6
FAES 1316	5.3	5.8	5.8	6.1	5.2	5.1	1.0	2.3	1.3	3.4	3.0	4.0	4.7	4.5
FAES 1318	4.5	6.6	6.8	5.6	5.8	4.2	1.0	2.4	1.7	3.5	2.0	3.2	5.3	4.5
ZEON	4.8	4.8	6.6	4.6	5.7	4.1	3.5	3.2	1.0	3.8	4.7	3.6	6.3	4.5
FAES 1328	5.9	4.4	5.6	5.9	5.6	4.4	1.0	2.1	2.0	2.9	5.0	3.1	6.7	4.4
EMPIRE	4.5	6.8	6.3	4.8	5.4	3.9	2.7	2.6	1.7	3.8	4.7	3.3	5.0	4.4
FAES 1307	5.8	4.7	5.2	6.5	6.6	3.8	1.0	2.1	1.0	2.8	2.7	4.1	4.7	4.4
09-TZ-53-20	4.3	3.2	6.1	6.7	5.6	4.9	1.0	1.2	1.0	3.8	1.3	5.0	7.0	4.3
FAES 1315	4.8	4.0	5.4	6.1	5.9	4.1	1.0	2.0	2.0	3.4	1.7	4.6	6.0	4.3
FAES 1322	4.7	4.4	4.2	6.6	7.3	3.9	1.0	1.0	1.3	3.7	3.0	4.7	4.3	4.2
DALZ 1303	4.3	4.9	5.2	6.5	6.9	3.4	1.0	1.6	1.3	3.2	2.0	3.7	3.3	4.1
FAES 1317	4.6	5.1	5.1	5.8	4.7	4.1	1.0	2.1	1.3	3.6	1.7	3.3	3.3	4.0
FAES 1329	4.8	3.9	4.2	6.3	6.6	3.4	1.0	1.3	1.3	3.1	1.0	3.9	4.3	3.9
FAES 1309	4.0	0.7	5.9	6.3	6.6	3.7	1.0	1.0	1.0	3.2	2.0	4.7	6.3	3.9
GGZ 504	3.9	4.7	4.4	5.3	5.6	4.1	1.0	1.6	2.0	2.6	1.0	4.0	3.0	3.7
FAES 1314	4.4	2.7	6.0	5.5	5.7	3.1	1.0	1.9	2.0	2.4	1.7	2.8	5.3	3.7
FAES 1303	3.6	1.9	4.0	5.3	6.8	3.4	1.0	1.0	1.0	2.3	1.0	3.7	2.3	3.2
CSZ 1109	3.8	2.0	4.3	5.3	6.3	2.8	1.0	1.0	1.3	2.2	1.0	3.1	2.7	3.2
FAES 1308	3.3	1.3	4.2	5.4	6.1	3.7	1.0	1.0	1.3	2.4	1.0	3.2	4.0	3.2
CSZ 1105	4.3	2.9	4.7	5.2	5.4	2.1	1.0	1.2	1.7	2.1	1.0	3.0	2.0	3.2
FAES 1310	3.7	1.6	4.1	5.3	5.9	2.7	1.0	1.0	1.3	2.7	1.0	3.0	2.7	3.2
FAES 1306	3.3	1.4	4.2	5.6	6.2	2.7	1.0	1.0	2.0	2.2	1.0	3.1	2.0	3.1
LSD VALUE	1.5	1.9	1.9	1.3	1.3	2.0	1.4	1.1	1.4	1.2	0.9	1.5	1.6	0.5
C.V. (%)	22.1	25.1	22.0	14.2	14.2	29.6	28.3	31.5	49.8	23.9	18.2	26.2	20.3	22.4

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

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

TABLE 10.

LEAF TEXTURE RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

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

NAME	AL1	AR1	AZ1	IN1	KS1	MD1	MO1	NC1	TN1	TX1	TX2	MEAN
A-1	8.3	9.0	8.3	8.0	9.0	.	7.7	8.1	2.2	7.9	8.3	6.4
FAES 1305	8.3	9.0	8.0	8.0	9.0	9.0	7.7	8.2	2.3	7.3	7.3	6.4
ZEON	8.2	8.9	8.0	7.8	9.0	9.0	7.7	8.2	2.1	7.8	8.0	6.4
FAES 1308	8.3	8.5	8.8	.	7.0	.	8.0	8.3	2.0	7.7	7.7	6.2
DALZ 1301	8.0	8.8	7.8	7.2	8.6	9.0	7.0	7.8	2.1	7.0	7.7	6.1
CSZ 1109	7.6	8.5	8.3	.	1.0	.	8.0	7.9	2.5	7.2	8.0	6.0
FAES 1306	6.8	8.5	8.3	.	9.0	.	7.7	8.0	2.1	7.3	8.0	6.0
FAES 1310	7.1	8.8	8.0	.	9.0	.	8.0	7.9	2.1	6.8	8.0	6.0
FAES 1303	7.4	8.3	8.3	.	8.5	.	8.0	8.0	2.3	6.7	8.0	6.0
FAES 1329	5.6	8.2	6.7	7.0	8.3	8.0	7.3	7.5	2.9	6.4	7.3	5.9
DALZ 1303	6.1	8.5	7.4	.	8.7	8.0	7.0	7.8	2.1	6.9	7.7	5.8
FAES 1313	5.8	7.5	6.9	6.5	8.0	7.7	7.3	7.4	2.9	6.2	7.3	5.8
FAES 1309	7.1	6.6	7.3	.	.	.	7.3	7.9	2.3	7.0	7.7	5.7
FAES 1315	5.4	7.8	6.9	.	7.9	8.0	7.0	7.2	2.6	6.1	7.0	5.7
CSZ 1105	5.8	7.5	6.8	.	7.6	7.0	7.3	7.4	2.5	6.3	7.3	5.5
FAES 1307	5.0	7.5	6.3	6.0	7.4	7.7	6.0	7.0	2.7	6.1	7.0	5.5
KSUZ 1201	4.4	6.9	6.3	6.3	7.6	7.0	6.0	7.0	2.9	6.1	6.3	5.4
FAES 1318	3.1	7.2	6.0	.	6.7	7.0	6.7	6.7	3.1	5.3	6.3	5.2
MEYER	2.4	7.1	6.0	5.7	6.8	7.0	6.3	6.5	3.4	5.1	6.7	5.2
GGZ 504	3.9	6.0	5.8	.	6.6	7.0	6.0	6.7	3.1	5.7	6.7	5.1
FAES 1314	3.6	6.5	6.1	.	6.7	7.0	6.3	6.8	3.0	5.6	7.3	5.1
09-TZ-53-20	4.7	6.9	5.8	.	7.7	7.0	6.3	7.7	2.1	5.4	8.0	5.1
FAES 1322	3.3	7.0	5.5	.	7.0	7.0	6.0	6.7	3.1	5.4	6.7	5.0
FAES 1316	2.8	6.6	5.7	5.0	6.3	7.0	5.7	6.3	3.1	5.7	6.3	5.0
FAES 1312	2.9	6.3	5.1	5.7	6.3	6.0	6.0	6.4	3.2	5.8	7.3	5.0
09-TZ-54-9	3.4	6.6	5.4	6.0	6.4	7.0	5.3	7.3	3.1	5.4	6.7	5.0
FAES 1304	2.6	5.9	5.6	5.7	6.7	7.0	5.7	6.6	3.2	5.1	7.0	5.0
FAES 1319	3.4	6.8	5.8	6.0	6.3	7.0	6.0	6.8	2.8	5.7	6.0	5.0
FAES 1317	3.9	6.5	5.6	.	6.4	7.0	5.7	6.7	2.9	5.6	6.7	5.0
11-TZ-4321	2.1	5.6	4.8	4.9	6.2	6.0	5.3	6.3	3.6	4.8	5.0	4.7
FAES 1328	2.8	5.9	5.3	.	5.4	6.0	5.7	6.5	2.9	5.7	6.0	4.5
10-TZ-1254	1.4	6.2	5.0	.	5.7	6.0	5.0	6.0	3.4	4.2	5.7	4.4
10-TZ-35	1.3	4.6	4.1	4.0	5.0	5.7	5.0	5.6	3.9	4.1	6.0	4.2
EMPIRE	1.1	5.2	4.3	3.3	4.7	5.3	5.7	5.7	4.0	4.3	4.7	4.2
DALZ 1302	1.0	5.2	4.1	4.1	4.7	5.3	5.0	5.6	4.0	4.1	4.3	4.2
LSD VALUE	1.3	0.8	1.0	0.8	0.9	0.4	1.1	0.7	0.5	1.0	1.1	0.3
C.V. (%)	17.6	6.6	10.0	8.0	7.3	3.6	10.8	5.9	12.0	10.2	9.9	8.4

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. SPRING DENSITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/						MEAN
	AR1	AZ1	FL3	FL4	NC1	TX1	
FAES 1319	7.0	7.4	6.0	7.7	7.0	6.3	7.0
09-TZ-54-9	7.7	7.6	6.0	6.6	7.1	6.7	6.8
FAES 1305	9.0	8.0	5.9	6.1	6.8	6.3	6.8
DALZ 1303	6.0	8.2	6.3	6.9	5.6	7.3	6.7
FAES 1307	7.3	7.3	6.2	6.6	6.4	7.0	6.7
DALZ 1301	7.7	6.7	6.1	6.7	6.9	6.3	6.6
A-1	8.7	7.3	6.3	6.3	5.8	7.7	6.6
FAES 1313	7.0	7.4	5.8	6.9	6.0	6.0	6.5
FAES 1312	6.0	6.4	6.2	6.9	6.8	6.0	6.5
FAES 1304	6.7	7.0	6.1	6.9	6.0	5.3	6.4
FAES 1322	5.7	6.7	5.8	7.4	6.1	5.7	6.4
FAES 1310	4.7	8.3	5.8	6.6	5.0	7.3	6.3
FAES 1329	7.7	7.4	6.0	6.7	5.1	6.7	6.3
FAES 1308	3.7	8.9	6.1	6.2	4.3	7.0	6.3
ZEON	8.3	6.8	5.4	5.8	6.4	6.7	6.3
FAES 1318	7.3	6.9	6.1	5.9	6.1	6.0	6.2
FAES 1303	7.0	8.3	5.2	6.1	4.9	6.7	6.2
FAES 1306	6.0	8.4	5.4	6.3	4.9	6.0	6.2
11-TZ-4321	4.7	5.9	5.8	6.9	6.9	5.3	6.2
10-TZ-1254	5.3	6.2	5.9	6.7	6.2	5.7	6.1
FAES 1317	4.7	7.4	6.0	5.4	6.3	5.7	6.1
FAES 1315	3.3	7.3	6.0	5.9	6.1	6.3	6.1
FAES 1309	1.0	8.2	5.7	6.7	4.7	7.3	6.1
09-TZ-53-20	5.0	7.6	5.7	5.7	5.4	7.3	6.1
FAES 1316	7.0	6.4	6.0	5.2	6.2	5.3	5.9
FAES 1314	5.0	6.4	6.1	5.8	5.7	6.0	5.9
DALZ 1302	6.0	5.6	5.3	6.6	6.4	5.3	5.9
CSZ 1105	5.7	6.4	5.8	5.4	5.2	6.3	5.8
FAES 1328	6.7	5.9	5.7	5.6	6.0	6.3	5.8
EMPIRE	6.0	6.0	5.7	4.9	6.6	5.3	5.7
KSUZ 1201	6.7	5.6	5.8	4.6	7.1	6.0	5.7
10-TZ-35	5.3	5.9	5.4	5.6	6.2	5.3	5.7
CSZ 1109	2.7	8.0	5.6	6.0	3.8	6.0	5.6
GGZ 504	5.0	6.2	5.0	5.1	5.3	5.7	5.4
MEYER	6.7	6.3	5.9	3.1	6.0	5.0	5.3
LSD VALUE	2.1	1.4	1.1	1.3	1.6	1.2	0.7
C.V. (%)	22.0	13.4	11.3	13.8	16.9	12.3	14.7

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

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

TABLE 12. SUMMER DENSITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

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

NAME	AR1	AZ1	FL3	FL4	GA1	NC1	TX1	MEAN
DALZ 1303	7.7	8.3	6.9	7.5	6.7	7.4	7.7	7.5
FAES 1305	9.0	7.9	6.8	7.3	7.0	7.8	7.7	7.5
A-1	9.0	7.8	6.8	7.2	7.7	7.7	7.7	7.4
FAES 1306	7.7	8.6	7.0	7.3	4.7	6.8	7.3	7.3
FAES 1308	7.3	8.5	7.3	6.9	4.0	7.0	8.3	7.3
ZEON	8.7	7.6	7.3	6.5	6.7	7.7	7.0	7.3
DALZ 1301	9.0	7.2	6.7	7.2	6.7	7.7	7.3	7.2
FAES 1310	7.3	8.3	7.1	7.3	4.3	6.7	7.7	7.2
FAES 1303	8.3	8.3	6.8	6.9	4.7	6.8	7.7	7.2
FAES 1313	7.7	7.1	6.5	7.1	6.7	7.5	6.7	7.0
FAES 1319	7.0	6.7	6.4	7.7	6.7	7.7	6.3	7.0
FAES 1329	8.7	7.0	6.9	7.4	5.3	6.9	7.0	7.0
FAES 1307	8.0	7.1	6.8	6.8	4.3	7.4	7.3	7.0
FAES 1312	6.3	6.4	7.2	7.1	6.3	7.6	6.0	6.9
09-TZ-54-9	7.3	6.8	6.2	7.1	5.3	7.7	7.0	6.9
FAES 1315	6.0	7.1	6.6	6.9	5.7	7.3	6.3	6.8
FAES 1317	5.7	7.1	6.8	6.6	6.3	7.3	5.7	6.8
FAES 1322	6.3	7.0	6.2	7.3	5.7	7.3	6.3	6.8
CSZ 1105	6.3	6.3	7.2	6.8	6.3	7.1	6.3	6.8
FAES 1314	6.7	6.8	6.9	6.3	6.3	7.3	6.3	6.7
CSZ 1109	6.0	7.5	6.8	6.3	5.3	6.7	7.3	6.7
FAES 1318	7.7	6.4	6.7	6.8	6.7	7.1	6.0	6.7
10-TZ-1254	6.3	5.9	6.4	7.4	6.7	7.5	5.0	6.7
FAES 1304	6.7	6.6	6.6	6.9	6.0	6.9	5.3	6.7
09-TZ-53-20	5.3	7.3	6.1	6.6	4.7	7.1	8.0	6.6
FAES 1309	5.3	7.5	6.1	7.2	3.0	6.6	8.3	6.6
KSUZ 1201	6.7	6.3	6.8	5.5	5.7	7.6	6.0	6.5
11-TZ-4321	5.3	5.5	6.4	7.3	6.3	7.2	5.0	6.4
DALZ 1302	6.3	5.4	6.4	7.4	5.7	7.0	4.7	6.4
FAES 1316	7.3	6.1	6.8	6.0	6.0	6.6	5.0	6.4
EMPIRE	6.3	5.6	6.5	6.5	6.3	7.0	5.0	6.3
10-TZ-35	5.3	5.8	6.5	6.3	5.7	7.1	5.0	6.3
GGZ 504	5.7	6.3	6.8	5.7	5.3	6.6	5.7	6.2
FAES 1328	6.7	6.0	6.1	6.3	5.3	6.7	5.3	6.2
MEYER	7.3	6.2	6.8	4.8	6.3	6.8	4.7	6.2
LSD VALUE	0.9	1.1	0.9	1.1	1.9	1.0	1.1	0.5
C.V. (%)	7.8	9.7	8.6	10.6	20.0	9.4	10.7	10.1

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 13. FALL DENSITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

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

NAME	AR1	AZ1	FL3	FL4	NC1	TX1	MEAN
DALZ 1303	7.5	8.6	6.5	7.9	8.1	8.0	7.7
ZEON	8.3	8.3	6.8	6.9	8.0	7.3	7.6
FAES 1305	8.5	7.7	6.8	7.1	7.8	7.3	7.5
FAES 1306	7.5	8.3	6.8	7.3	7.7	7.0	7.5
FAES 1303	8.3	8.1	6.7	7.0	7.4	7.7	7.4
FAES 1329	8.2	7.5	7.2	6.6	7.8	8.0	7.4
A-1	8.2	7.7	6.4	6.9	8.1	7.3	7.4
FAES 1313	8.2	7.2	6.3	7.6	8.0	7.0	7.3
FAES 1310	6.2	8.3	7.0	7.0	7.4	7.0	7.3
FAES 1308	5.3	8.3	7.1	6.9	7.7	7.7	7.3
FAES 1307	7.2	7.3	6.8	6.9	7.8	7.7	7.2
FAES 1319	7.0	6.8	6.4	7.8	7.8	7.3	7.2
DALZ 1301	8.0	7.3	6.3	6.7	7.9	7.0	7.2
09-TZ-54-9	7.3	7.5	6.4	6.4	7.8	8.0	7.2
CSZ 1105	6.8	6.6	6.8	7.3	7.8	7.0	7.1
FAES 1322	6.7	7.1	6.2	7.2	7.8	7.7	7.0
FAES 1312	6.5	6.4	6.6	7.6	7.7	7.7	7.0
FAES 1304	6.7	7.0	6.3	7.0	7.6	6.7	6.9
CSZ 1109	4.7	7.9	6.7	7.0	7.1	7.3	6.9
FAES 1318	6.3	7.1	6.3	6.9	7.7	6.7	6.9
FAES 1314	5.8	7.1	6.6	6.3	7.6	8.0	6.8
FAES 1317	5.5	7.0	6.7	6.0	7.8	7.3	6.8
11-TZ-4321	5.8	6.2	6.3	7.8	7.7	7.0	6.8
10-TZ-1254	5.7	5.9	6.3	7.6	7.8	6.7	6.7
09-TZ-53-20	4.8	7.8	5.9	5.9	7.7	7.7	6.7
FAES 1316	6.3	6.2	6.3	6.4	7.6	7.0	6.6
DALZ 1302	6.0	6.2	5.8	8.1	7.3	5.7	6.6
KSUZ 1201	7.2	6.5	6.2	5.4	7.8	7.0	6.6
EMPIRE	5.8	5.8	6.2	7.2	7.7	6.3	6.6
FAES 1315	4.2	6.7	6.5	6.6	7.7	7.7	6.6
FAES 1309	1.0	8.2	6.3	6.6	7.2	7.3	6.4
FAES 1328	6.3	6.0	6.2	6.2	7.3	7.0	6.4
10-TZ-35	5.7	5.6	6.2	7.0	7.4	6.0	6.4
GGZ 504	5.7	6.2	6.3	5.7	7.7	6.3	6.4
MEYER	7.0	6.2	6.0	4.6	7.2	6.3	6.2
LSD VALUE	2.3	1.2	0.9	1.3	0.8	0.9	0.6
C.V. (%)	21.8	10.9	8.4	12.4	6.5	8.2	11.1

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 14. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/									
NAME	AR1	AZ1	FL3	FL4	GA1	KS1	NC1	TN1	MEAN
FAES 1319	69.7	96.6	56.7	83.9	99.0	86.7	79.6	81.2	82.9
EMPIRE	47.3	87.2	90.0	77.2	99.0	78.3	82.1	87.0	81.4
11-TZ-4321	45.3	91.3	60.0	76.1	89.3	75.0	77.9	85.2	80.6
FAES 1312	70.0	83.6	83.3	86.1	93.0	50.0	77.6	86.0	79.7
DALZ 1302	58.0	81.4	80.0	81.1	96.0	63.3	78.1	85.0	79.6
FAES 1305	58.0	93.2	66.7	75.0	92.7	71.7	68.3	80.7	78.3
ZEON	59.3	88.4	73.3	72.2	99.0	71.7	64.8	83.0	77.3
DALZ 1301	77.7	82.6	50.0	70.0	93.0	82.0	67.2	79.9	76.6
10-TZ-1254	51.7	87.4	60.0	83.3	93.0	65.0	71.4	75.9	76.4
10-TZ-35	49.7	80.8	70.0	80.6	99.0	65.0	72.2	80.3	76.1
FAES 1304	50.0	90.2	76.7	76.7	96.0	55.0	67.6	75.3	74.3
FAES 1318	36.3	94.9	76.7	82.2	96.0	31.7	74.2	72.2	74.0
FAES 1307	64.0	93.6	86.7	85.0	76.7	9.3	80.6	62.4	73.6
FAES 1328	63.0	74.7	80.0	73.9	93.0	10.0	73.4	77.2	71.8
MEYER	39.7	85.1	76.7	41.7	76.3	99.0	64.2	84.9	70.4
KSUZ 1201	54.7	68.0	43.3	54.4	90.0	97.7	70.3	77.6	69.5
A-1	66.0	90.7	63.3	75.6	99.0	65.0	60.6	55.3	69.3
DALZ 1303	43.3	98.3	70.0	88.9	86.0	0.7	71.7	53.4	68.9
FAES 1316	50.7	83.4	80.0	71.1	99.0	0.0	75.6	71.3	67.9
09-TZ-54-9	52.3	88.9	60.0	75.0	99.0	15.0	71.3	56.4	67.0
FAES 1314	46.0	80.8	80.0	75.6	99.0	0.0	73.7	60.9	66.7
FAES 1315	59.3	93.7	66.7	79.4	96.0	1.7	70.3	46.4	66.7
FAES 1313	36.0	85.9	80.0	86.1	89.7	4.3	69.4	62.4	66.3
FAES 1317	54.7	86.6	70.0	73.3	86.0	19.3	66.3	61.1	65.6
FAES 1329	29.3	82.2	70.0	81.7	73.3	2.7	73.3	46.4	62.2
FAES 1322	54.0	76.3	70.0	85.6	83.3	0.0	62.2	56.9	61.8
09-TZ-53-20	62.0	84.8	60.0	72.2	86.7	0.0	59.8	45.9	59.8
GGZ 504	49.7	75.8	70.0	71.1	73.3	6.0	65.6	48.4	58.3
FAES 1303	40.3	85.6	66.7	75.6	92.7	0.0	57.4	40.8	58.3
FAES 1306	36.7	86.3	70.0	84.4	79.3	0.0	55.6	34.3	57.8
CSZ 1105	37.7	77.8	73.3	81.7	93.0	2.7	56.7	39.8	57.1
FAES 1310	37.0	82.9	63.3	78.9	76.3	0.0	55.0	33.1	54.9
FAES 1309	2.7	95.7	53.3	77.8	56.3	0.0	54.4	23.7	54.4
CSZ 1109	51.0	91.8	53.3	65.6	63.3	0.0	40.6	22.0	52.2
FAES 1308	27.7	91.1	56.7	72.8	63.0	0.0	46.7	20.7	51.9
LSD VALUE	19.4	22.7	15.5	17.2	25.4	18.1	16.9	10.1	10.1
C.V. (%)	24.3	17.0	14.0	14.3	18.0	35.0	16.3	10.2	17.7

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

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

TABLE 15. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	AR1	AZ1	FL3	FL4	IN1	KS1	NC1	TN1	TX1	MEAN
FAES 1312	90.3	96.7	96.0	92.6	97.3	97.3	92.2	97.1	98.2	94.5
DALZ 1302	80.5	96.7	96.0	92.7	91.8	99.0	94.7	98.1	94.7	92.4
FAES 1305	89.5	80.7	90.0	89.8	86.1	98.3	86.8	97.0	96.8	89.4
10-TZ-35	81.5	96.8	86.7	84.0	80.6	99.0	91.4	96.9	97.3	88.9
ZEON	89.2	90.2	90.0	84.8	72.3	94.3	93.0	96.1	98.7	88.9
11-TZ-4321	86.2	96.5	83.3	91.0	73.1	65.0	88.6	97.8	96.5	88.9
FAES 1304	77.5	95.5	93.0	86.9	73.2	96.3	88.8	97.2	96.0	88.1
FAES 1319	88.3	98.3	93.0	91.8	30.0	98.3	88.6	97.1	98.2	88.0
FAES 1313	79.5	96.0	96.0	91.3	48.3	86.7	89.6	97.3	98.7	87.5
09-TZ-54-9	78.0	95.8	90.0	87.3	62.7	85.0	82.9	96.7	99.0	87.5
EMPIRE	83.3	99.0	96.0	87.7	57.2	99.0	93.1	97.0	95.2	87.3
FAES 1307	70.3	98.8	99.0	89.3	23.8	90.0	92.6	95.1	98.8	85.7
DALZ 1301	86.7	78.2	83.3	85.6	75.8	97.0	78.9	97.1	98.8	85.6
KSUZ 1201	81.3	96.0	83.3	68.7	79.9	96.0	83.4	97.1	97.5	85.3
10-TZ-1254	73.8	99.0	90.0	90.6	9.5	98.7	87.4	97.3	97.0	84.4
FAES 1318	82.0	99.0	93.0	87.7	6.3	95.0	86.2	97.0	98.8	84.3
MEYER	88.0	98.3	86.7	56.3	95.0	99.0	72.7	97.0	94.7	83.2
FAES 1328	82.2	98.8	96.0	84.1	5.7	92.7	87.2	97.0	98.3	83.1
FAES 1329	81.5	80.5	93.0	88.0	48.7	60.0	86.7	96.3	97.7	83.1
A-1	83.8	89.5	83.3	87.3	25.8	76.7	84.9	95.1	98.8	82.9
FAES 1317	82.5	93.2	90.0	84.9	7.7	89.3	79.9	96.8	98.2	82.1
FAES 1322	83.2	96.5	90.0	91.3	3.0	6.7	87.1	95.0	98.7	81.4
DALZ 1303	80.3	99.0	90.0	91.6	4.2	18.3	87.8	94.4	99.0	81.2
FAES 1315	84.2	90.8	83.0	86.5	3.5	65.0	89.4	93.8	98.3	81.1
FAES 1316	64.5	99.0	93.0	79.4	14.2	25.0	90.2	97.0	97.5	79.1
GGZ 504	76.0	95.2	93.0	76.2	8.3	90.0	81.1	94.9	90.7	79.0
FAES 1314	47.3	99.0	96.0	74.9	10.0	75.0	92.0	97.0	98.8	78.7
CSZ 1105	62.8	93.5	90.0	86.8	4.5	81.7	75.4	95.8	98.3	78.6
09-TZ-53-20	69.0	98.3	86.7	82.8	6.7	10.0	81.7	94.4	98.8	78.6
FAES 1310	66.0	98.3	90.0	89.5	3.3	2.0	74.4	93.8	98.8	78.0
FAES 1306	65.0	98.0	90.0	90.6	5.7	6.7	71.3	94.3	98.3	77.5
FAES 1303	69.0	89.8	86.7	84.7	9.8	4.0	67.9	95.3	98.8	74.8
FAES 1308	49.0	95.5	83.3	84.9	4.7	2.0	66.1	65.6	98.2	69.9
CSZ 1109	64.5	96.7	83.3	74.5	4.2	0.0	55.8	76.0	97.8	68.5
FAES 1309	27.0	97.7	73.3	83.9	2.5	0.0	71.8	69.7	98.0	67.0
LSD VALUE	20.4	13.7	8.6	14.4	34.3	19.8	12.9	4.6	4.1	7.7
C.V. (%)	17.1	9.0	6.0	10.7	51.9	18.7	10.3	3.1	2.6	12.9

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 16. PERCENT LIVING GROUND COVER (FALL) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/								
NAME	AR1	AZ1	FL4	MO1	NC1	TN1	TX1	MEAN
FAES 1319	89.8	95.5	81.6	50.0	98.2	96.2	97.0	90.1
FAES 1312	88.7	95.2	83.7	31.7	97.9	93.5	98.7	90.0
FAES 1313	86.7	97.7	89.2	21.7	98.6	96.8	95.0	89.9
FAES 1304	90.2	96.7	85.4	33.3	96.8	96.2	94.3	89.6
09-TZ-54-9	89.7	93.8	88.9	28.3	97.3	97.2	99.0	89.5
FAES 1305	89.3	92.8	82.0	50.0	96.3	94.2	97.3	89.4
11-TZ-4321	88.8	90.0	84.2	40.0	95.5	93.5	96.0	88.6
EMPIRE	88.2	88.5	83.0	15.3	97.8	94.5	94.7	87.7
ZEON	86.7	91.2	77.1	30.0	98.6	93.8	99.0	87.7
10-TZ-35	85.7	88.5	77.6	35.0	97.3	95.2	93.3	87.6
DALZ 1302	82.3	90.5	83.1	23.3	97.2	93.5	93.3	87.4
10-TZ-1254	90.8	88.2	83.6	33.3	98.2	96.2	92.7	87.2
DALZ 1301	82.3	83.7	84.3	50.0	96.0	94.8	94.7	86.9
FAES 1318	85.5	94.7	82.0	23.3	97.7	95.8	90.0	85.8
KSUZ 1201	87.8	86.0	72.2	58.3	96.6	93.2	94.7	85.8
FAES 1307	87.3	97.0	77.2	23.3	98.5	95.5	98.7	85.8
A-1	87.2	91.0	83.7	25.0	95.9	93.5	97.3	85.6
DALZ 1303	87.8	92.7	81.4	23.3	98.5	96.2	99.0	85.5
FAES 1329	85.0	92.0	77.2	23.3	97.4	95.8	99.0	85.5
FAES 1322	89.0	89.7	88.7	16.7	98.3	94.5	99.0	85.4
09-TZ-53-20	87.7	93.8	78.6	26.7	95.5	96.8	98.7	84.9
FAES 1303	87.2	86.5	81.7	33.3	92.4	96.5	97.7	84.6
FAES 1310	85.8	95.5	79.4	30.0	95.3	96.8	93.0	84.1
FAES 1315	89.8	93.3	77.8	15.0	96.7	96.2	97.7	83.3
FAES 1317	87.7	94.2	68.3	18.3	97.3	96.8	97.7	83.0
FAES 1306	86.7	88.8	79.3	10.0	95.1	95.5	91.7	83.0
GGZ 504	83.5	86.7	78.3	23.3	97.2	96.8	96.0	83.0
FAES 1316	77.3	79.7	78.3	21.7	97.9	95.8	97.0	82.9
CSZ 1109	86.7	95.0	86.6	21.7	83.3	94.8	99.0	82.5
MEYER	90.2	65.3	55.3	78.3	94.3	91.2	90.0	81.6
CSZ 1105	86.3	68.8	76.4	28.3	95.8	95.8	94.3	80.4
FAES 1328	80.0	76.3	77.8	15.0	97.2	95.2	96.0	79.4
FAES 1308	68.7	85.8	80.6	12.7	91.3	95.8	98.7	79.3
FAES 1314	71.0	81.5	72.8	26.7	97.4	95.8	98.7	79.2
FAES 1309	40.3	86.2	84.4	20.0	93.5	94.5	98.7	75.9
LSD VALUE	15.1	20.8	11.5	20.1	4.2	1.8	4.6	7.1
C.V. (%)	11.7	14.5	9.2	43.0	2.8	1.2	3.0	10.8

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 17. WINTER COLOR RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

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

NAME	AZ1	FL3	FL4	TX1	MEAN
FAES 1322	4.7	5.3	7.0	3.5	5.5
09-TZ-54-9	6.3	5.0	5.3	2.8	4.8
FAES 1313	6.7	3.3	6.2	2.3	4.8
FAES 1309	6.3	3.7	5.9	2.2	4.7
09-TZ-53-20	5.0	5.0	5.2	2.8	4.6
CSZ 1109	6.3	2.0	5.9	2.2	4.6
FAES 1304	5.7	4.3	5.8	2.2	4.5
FAES 1315	6.3	3.3	5.8	2.2	4.5
10-TZ-1254	4.0	3.7	6.0	3.0	4.5
FAES 1329	5.7	3.0	5.8	2.2	4.5
FAES 1308	6.0	1.3	6.3	1.7	4.4
FAES 1303	5.0	3.0	6.0	1.8	4.3
FAES 1306	5.0	1.3	6.1	2.3	4.2
DALZ 1303	6.7	2.3	4.9	2.3	4.1
FAES 1310	5.7	1.3	6.0	1.5	4.1
A-1	4.7	4.7	4.9	1.7	4.0
FAES 1307	5.3	2.7	5.1	2.0	4.0
DALZ 1301	5.0	5.0	4.6	2.3	4.0
FAES 1319	2.7	3.3	6.0	1.7	3.9
DALZ 1302	4.7	3.3	4.9	1.7	3.8
FAES 1317	5.3	2.7	4.9	1.8	3.8
FAES 1312	4.7	2.7	5.3	1.5	3.7
CSZ 1105	5.7	2.3	4.6	1.7	3.7
GGZ 504	4.0	2.3	4.8	1.7	3.5
FAES 1305	4.7	4.3	4.1	1.5	3.4
11-TZ-4321	3.7	4.0	4.2	1.8	3.4
FAES 1318	4.0	2.7	4.9	1.2	3.4
ZEON	4.7	2.3	3.8	1.2	3.0
10-TZ-35	2.3	2.0	4.4	1.3	2.9
FAES 1328	2.3	2.0	4.2	1.5	2.9
FAES 1314	2.3	2.0	4.1	1.5	2.8
FAES 1316	3.3	2.0	3.8	1.5	2.7
EMPIRE	2.3	2.0	3.7	1.3	2.7
MEYER	1.7	2.7	3.0	1.3	2.3
KSUZ 1201	1.0	2.3	3.2	1.0	2.1
LSD VALUE	2.5	1.0	1.4	0.9	1.1
C.V. (%)	34.5	21.5	17.3	28.5	24.3

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 18. PERCENT WINTER KILL RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/

NAME	AR1	IN1	KS1	TN1	MEAN
FAES 1309	99.0	99.0	99.0	98.3	98.9
FAES 1308	93.0	99.0	99.0	95.7	97.8
CSZ 1109	80.0	99.0	99.0	86.0	95.0
FAES 1306	83.3	99.0	99.0	68.3	93.2
FAES 1310	86.3	99.0	99.0	64.3	93.1
FAES 1303	73.3	99.0	99.0	56.7	90.5
09-TZ-53-20	89.7	97.7	97.3	52.3	90.2
CSZ 1105	53.3	99.0	99.0	67.3	89.3
FAES 1314	89.7	97.0	99.0	17.7	87.4
FAES 1315	30.0	99.0	99.0	58.7	85.3
FAES 1307	63.3	91.0	96.0	40.0	84.8
GGZ 504	30.3	92.7	99.0	47.7	83.2
FAES 1322	30.3	99.0	99.0	34.7	82.4
DALZ 1303	7.0	99.0	99.0	37.3	79.8
FAES 1316	26.7	94.3	99.0	20.7	79.6
FAES 1328	7.0	99.0	95.2	45.0	77.9
FAES 1329	20.0	66.3	99.0	38.7	77.5
FAES 1313	10.3	78.0	99.0	29.7	76.6
FAES 1318	4.0	99.0	96.8	17.0	76.3
FAES 1317	23.3	99.0	90.2	25.7	76.3
09-TZ-54-9	33.3	63.0	91.8	48.3	74.4
A-1	1.0	98.0	78.3	49.7	72.5
10-TZ-1254	27.3	99.0	52.8	39.0	68.5
FAES 1304	13.7	79.7	62.7	17.0	64.6
ZEON	4.0	60.0	72.8	20.7	64.0
FAES 1319	1.0	93.0	55.2	12.7	62.3
10-TZ-35	7.0	71.7	56.2	32.0	61.9
EMPIRE	4.0	71.7	56.2	16.0	61.4
FAES 1312	1.0	38.3	72.0	24.3	61.2
DALZ 1302	7.3	55.0	55.3	26.0	58.3
DALZ 1301	1.0	65.0	43.7	62.3	57.2
FAES 1305	1.0	65.0	54.7	20.3	54.1
11-TZ-4321	13.3	71.7	49.5	34.0	46.3
KSUZ 1201	1.0	30.0	6.8	44.0	14.7
MEYER	10.7	25.0	1.2	22.7	8.1
LSD VALUE	24.3	30.5	18.5	12.5	11.6
C.V. (%)	46.9	23.0	15.5	18.5	17.2

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 19. DOLLAR SPOT RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	FL4	GA1	NC1	TN1	MEAN
FAES 1312	8.0	8.3	8.5	9.0	8.6
FAES 1319	7.7	8.3	8.5	9.0	8.5
10-TZ-1254	9.0	7.7	8.0	9.0	8.4
11-TZ-4321	8.3	8.3	7.7	9.0	8.3
KSUZ 1201	6.7	8.3	8.5	9.0	8.3
FAES 1328	5.7	8.7	8.5	9.0	8.2
FAES 1315	6.7	7.7	8.2	9.0	8.1
FAES 1313	7.7	8.0	7.3	9.0	8.1
MEYER	5.3	8.3	8.3	9.0	8.1
DALZ 1302	8.0	6.7	7.7	9.0	8.0
FAES 1317	6.7	8.7	7.3	9.0	8.0
FAES 1329	7.0	8.0	7.5	9.0	8.0
FAES 1318	7.0	7.7	7.5	9.0	7.9
10-TZ-35	7.3	8.0	7.2	9.0	7.9
EMPIRE	7.0	7.3	7.3	9.0	7.8
FAES 1322	8.0	7.7	7.0	8.7	7.8
DALZ 1301	6.3	8.0	6.8	9.0	7.7
FAES 1305	7.3	8.3	6.2	9.0	7.7
FAES 1303	5.7	7.7	7.2	9.0	7.6
FAES 1316	7.3	6.7	6.7	9.0	7.6
FAES 1306	6.3	8.0	6.3	9.0	7.5
FAES 1304	6.7	7.3	6.3	9.0	7.4
FAES 1314	6.0	7.7	6.5	9.0	7.4
GGZ 504	5.7	7.3	6.8	9.0	7.4
FAES 1308	5.7	8.0	6.3	9.0	7.4
09-TZ-53-20	6.0	7.7	6.3	9.0	7.4
A-1	5.0	8.3	6.5	9.0	7.4
FAES 1310	6.3	8.7	6.3	8.3	7.4
FAES 1309	5.0	8.3	6.2	9.0	7.3
ZEON	5.7	6.7	6.5	9.0	7.2
FAES 1307	7.0	8.3	6.2	7.7	7.2
DALZ 1303	6.7	6.7	5.5	9.0	7.1
CSZ 1105	6.7	7.3	5.0	9.0	7.0
09-TZ-54-9	6.0	6.7	5.3	9.0	6.9
CSZ 1109	2.7	6.3	4.0	9.0	5.8
LSD VALUE	2.0	1.6	1.8	0.5	1.0
C.V. (%)	19.0	13.2	16.7	3.3	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 20. BROWN PATCH (WARM TEMPERATURE) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

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

NAME	FL4
FAES 1306	8.7
FAES 1310	8.7
FAES 1303	8.3
FAES 1309	8.3
DALZ 1303	8.0
FAES 1304	8.0
FAES 1313	8.0
FAES 1308	7.7
09-TZ-53-20	7.3
09-TZ-54-9	7.3
FAES 1319	7.3
FAES 1322	7.3
FAES 1329	7.3
FAES 1307	7.0
FAES 1315	7.0
FAES 1317	7.0
CSZ 1109	6.7
10-TZ-1254	6.3
CSZ 1105	6.3
DALZ 1301	6.3
10-TZ-35	6.0
FAES 1305	6.0
FAES 1312	5.7
FAES 1318	5.7
GGZ 504	5.7
FAES 1314	5.3
DALZ 1302	5.0
FAES 1328	5.0
KSUZ 1201	4.7
ZEON	4.7
A-1	4.3
FAES 1316	4.3
11-TZ-4321	3.7
EMPIRE	3.7
MEYER	3.3
LSD VALUE	1.9
C.V. (%)	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.

TABLE 21. INSECT DAMAGE RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

INSECT DAMAGE RATINGS 1-9; 9=NO DAMAGE 2/

NAME	FL4
10-TZ-1254	8.8
11-TZ-4321	8.8
DALZ 1301	8.8
FAES 1305	8.8
DALZ 1303	8.7
FAES 1312	8.7
FAES 1319	8.7
A-1	8.7
EMPIRE	8.7
DALZ 1302	8.5
FAES 1308	8.5
FAES 1303	8.3
10-TZ-35	8.2
FAES 1304	8.2
CSZ 1109	8.0
FAES 1306	7.8
FAES 1310	7.8
FAES 1313	7.8
ZEON	7.7
CSZ 1105	7.5
FAES 1318	7.5
FAES 1307	6.8
FAES 1322	6.8
09-TZ-54-9	6.7
FAES 1316	6.5
FAES 1314	6.2
FAES 1315	6.0
FAES 1317	6.0
FAES 1329	6.0
GGZ 504	6.0
KSUZ 1201	6.0
FAES 1328	5.7
FAES 1309	5.5
09-TZ-53-20	4.8
MEYER	3.8
LSD VALUE	2.0
C.V. (%)	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 22. FALL COLOR (SEPTEMBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

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

NAME	FL3	FL4	GA1	TN1	MEAN
FAES 1319	6.5	7.6	6.5	7.2	6.9
FAES 1316	7.3	7.2	6.2	6.8	6.8
FAES 1313	6.8	7.9	5.8	7.0	6.7
10-TZ-1254	6.3	7.3	6.3	7.3	6.7
11-TZ-4321	7.0	7.7	6.3	6.0	6.7
EMPIRE	6.5	7.6	6.0	7.2	6.7
FAES 1304	6.5	6.9	6.0	7.8	6.6
A-1	6.8	7.6	6.3	5.3	6.6
CSZ 1109	6.5	7.6	5.9	6.5	6.6
FAES 1314	6.8	6.9	6.0	6.7	6.5
FAES 1315	6.7	7.0	6.2	6.5	6.5
FAES 1322	6.0	7.3	6.2	6.5	6.5
FAES 1329	6.7	6.9	6.2	6.5	6.5
FAES 1305	6.8	7.7	6.1	5.5	6.5
FAES 1317	7.2	6.2	5.9	7.2	6.5
09-TZ-54-9	5.3	7.0	6.3	7.2	6.5
CSZ 1105	5.8	7.4	6.1	6.2	6.4
DALZ 1302	5.7	7.8	5.8	6.3	6.4
GGZ 504	6.7	6.8	5.8	7.0	6.4
09-TZ-53-20	6.2	6.4	6.3	6.7	6.4
10-TZ-35	6.0	7.6	5.8	6.3	6.4
FAES 1306	5.5	7.4	6.0	6.5	6.4
FAES 1309	6.3	7.0	6.0	6.3	6.3
FAES 1303	6.3	7.4	5.7	6.2	6.3
FAES 1310	6.3	7.3	5.7	6.3	6.3
DALZ 1303	5.0	7.9	6.1	5.5	6.3
FAES 1328	6.8	6.6	5.6	6.8	6.2
FAES 1312	6.7	7.6	5.5	5.2	6.2
FAES 1318	6.0	7.1	5.8	6.0	6.2
KSUZ 1201	7.0	6.4	5.7	5.8	6.2
DALZ 1301	5.2	7.1	6.3	5.3	6.1
FAES 1307	5.7	6.9	5.8	5.8	6.1
FAES 1308	5.7	7.2	5.8	5.2	6.0
MEYER	6.0	6.1	5.8	5.8	6.0
ZEON	6.0	6.9	5.8	4.8	6.0
LSD VALUE	1.1	1.2	0.9	1.5	0.7
C.V. (%)	10.8	11.0	9.7	15.2	11.3

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 23. FALL COLOR (OCTOBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

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

NAME	AR1	AZ1	FL3	FL4	GA1	KS1	NC1	TN1	TX1	MEAN
FAES 1304	7.3	7.0	6.3	7.1	6.2	7.3	7.3	8.0	7.3	7.0
FAES 1313	7.3	6.3	7.2	7.7	5.8	7.0	7.3	7.0	7.3	7.0
10-TZ-1254	6.3	6.0	6.8	7.6	5.9	6.8	7.2	6.7	7.0	6.7
FAES 1329	7.0	6.3	6.9	6.8	6.3	6.9	6.8	6.9	6.7	6.7
09-TZ-54-9	7.0	7.7	5.1	7.1	5.8	7.3	7.3	6.9	8.3	6.7
FAES 1319	7.0	6.3	6.0	7.2	6.0	6.0	7.3	6.7	8.0	6.7
FAES 1316	7.3	6.3	6.8	7.2	5.8	6.6	6.7	7.0	6.7	6.6
FAES 1315	6.3	6.3	6.6	6.7	6.0	6.3	7.1	6.9	8.0	6.6
FAES 1317	6.7	5.7	6.7	6.1	5.7	6.8	7.1	7.7	7.3	6.6
FAES 1306	7.0	6.3	5.6	7.3	6.2	6.5	6.8	6.7	7.7	6.6
CSZ 1109	7.3	6.0	6.3	7.2	5.9	6.5	6.8	6.8	6.3	6.6
10-TZ-35	7.3	6.7	6.3	6.9	5.9	7.0	6.8	6.3	7.3	6.6
09-TZ-53-20	6.3	6.0	6.0	5.8	6.3	7.0	7.0	7.3	7.3	6.6
DALZ 1302	6.7	6.7	6.2	7.7	5.8	6.3	6.8	6.3	7.3	6.6
FAES 1322	6.7	5.3	5.4	7.4	5.8	7.0	7.2	6.1	9.0	6.5
A-1	6.0	6.7	6.2	7.0	6.3	6.5	6.8	6.6	6.3	6.5
FAES 1305	6.7	6.0	6.7	6.9	6.0	7.0	6.1	6.9	7.7	6.5
FAES 1310	6.7	5.3	6.0	7.1	5.7	7.5	6.9	7.0	7.0	6.5
FAES 1312	7.3	6.3	6.9	7.4	5.6	7.2	6.4	6.0	6.3	6.5
EMPIRE	7.3	6.3	6.4	7.0	5.6	6.8	6.8	6.4	6.3	6.5
FAES 1303	7.0	5.7	6.2	7.4	5.8	5.8	6.8	7.1	6.7	6.5
CSZ 1105	6.0	5.3	5.7	7.0	6.2	7.3	7.3	6.2	6.7	6.5
GGZ 504	6.3	6.3	6.3	6.3	5.8	7.0	6.5	7.1	6.7	6.4
FAES 1328	8.0	6.7	6.9	6.2	5.8	6.7	6.2	6.7	6.3	6.4
FAES 1318	6.7	6.0	5.8	6.7	6.0	6.7	6.4	6.9	7.3	6.4
11-TZ-4321	8.0	6.7	5.9	7.3	5.9	6.2	6.3	6.1	7.0	6.4
FAES 1314	7.0	6.7	6.0	6.3	5.8	6.8	6.3	7.3	5.3	6.4
FAES 1307	6.7	6.0	5.8	6.8	5.8	6.3	6.8	6.8	6.3	6.4
DALZ 1303	5.0	5.7	5.0	7.6	6.0	7.0	7.0	6.0	7.7	6.4
FAES 1308	5.7	5.7	5.6	7.1	5.8	6.0	6.8	5.9	6.3	6.2
FAES 1309	4.3	5.3	6.3	6.7	6.0	6.0	6.8	5.7	7.0	6.1
KSUZ 1201	7.3	6.7	6.3	6.2	5.7	6.2	5.9	6.2	6.0	6.1
ZEON	6.0	6.3	5.2	6.2	5.7	6.5	6.3	5.7	6.3	6.0
DALZ 1301	6.0	6.0	4.4	6.8	6.1	5.4	5.9	6.2	7.7	5.9
MEYER	7.0	6.3	5.1	5.6	5.6	5.8	5.9	6.1	7.0	5.9
LSD VALUE	1.2	1.6	1.4	1.0	0.8	1.3	0.9	0.9	1.8	0.5
C.V. (%)	11.3	15.9	14.3	9.6	8.6	10.8	9.1	9.2	16.3	11.0

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 24. FALL COLOR (NOVEMBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

NAME	FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/								MEAN
	AZ1	FL3	FL4	GA1	NC1	TN1	TX1	TX2	
FAES 1304	8.0	6.0	5.2	5.9	5.5	6.9	4.7	8.0	6.4
FAES 1329	7.4	6.3	5.0	6.1	5.2	6.7	5.0	7.7	6.3
FAES 1313	7.2	6.7	5.7	5.2	5.7	6.6	4.8	8.3	6.3
09-TZ-53-20	8.0	6.0	4.7	5.8	5.7	5.7	5.3	7.3	6.2
FAES 1319	7.8	6.3	5.2	5.9	4.3	6.3	5.2	6.0	6.2
09-TZ-54-9	7.8	4.7	5.7	5.8	5.5	5.8	4.8	7.3	6.1
FAES 1315	7.9	6.0	4.8	5.9	5.5	5.7	4.8	7.0	6.1
A-1	7.2	7.3	5.0	5.7	5.3	5.9	4.3	6.3	6.0
FAES 1307	7.9	6.0	5.0	5.8	4.5	6.0	4.5	6.7	6.0
FAES 1305	7.3	7.0	4.5	5.9	4.7	6.1	4.7	4.0	5.9
10-TZ-1254	6.9	5.0	4.8	5.8	4.5	6.6	4.7	7.0	5.9
FAES 1317	7.4	6.0	4.2	6.0	4.8	5.4	4.0	7.7	5.8
DALZ 1301	7.3	5.7	4.8	5.8	4.2	6.3	5.3	4.3	5.8
FAES 1322	6.4	6.0	5.7	5.6	5.0	5.1	5.5	7.7	5.8
CSZ 1109	7.0	6.7	5.8	5.4	5.0	4.5	5.2	7.7	5.7
FAES 1316	6.8	7.0	5.2	5.4	4.0	5.8	4.5	7.0	5.7
FAES 1309	7.1	5.7	5.3	5.7	5.3	5.1	4.3	7.7	5.7
FAES 1312	7.7	6.3	4.7	5.1	4.5	5.3	4.3	6.3	5.7
ZEON	7.7	6.0	4.5	5.3	3.3	5.7	4.0	6.0	5.6
FAES 1328	6.3	6.7	4.2	5.7	3.2	6.8	3.5	5.0	5.6
11-TZ-4321	7.0	6.0	4.5	5.7	3.0	6.3	4.2	4.7	5.5
FAES 1314	6.6	7.0	4.3	5.7	3.7	6.0	2.8	6.3	5.5
FAES 1318	7.0	5.0	4.7	5.9	3.3	5.5	4.0	7.3	5.5
10-TZ-35	6.4	5.0	4.7	5.4	4.0	5.8	4.7	6.0	5.5
EMPIRE	6.9	5.7	4.0	5.3	4.5	5.7	4.0	6.0	5.4
DALZ 1302	6.7	4.7	4.8	5.8	3.5	5.8	4.3	5.0	5.4
CSZ 1105	6.2	5.3	4.7	6.0	4.0	4.7	4.8	7.3	5.4
DALZ 1303	7.6	5.0	4.8	5.8	4.3	3.5	5.3	7.3	5.3
FAES 1306	6.3	6.0	5.0	5.8	4.5	3.8	5.2	7.0	5.3
FAES 1310	6.9	6.7	5.0	5.7	5.0	3.0	4.3	8.0	5.2
GGZ 504	6.3	6.0	4.8	5.4	4.5	4.3	4.2	6.7	5.2
FAES 1303	6.4	6.3	5.2	5.3	4.5	3.6	4.5	7.3	5.2
FAES 1308	6.6	5.0	5.3	5.4	4.2	3.4	4.7	6.7	5.1
KSUZ 1201	5.7	6.0	4.0	5.2	2.8	5.3	3.2	5.3	4.9
MEYER	5.7	4.7	3.7	4.9	2.3	5.3	3.3	3.7	4.5
LSD VALUE	1.6	1.0	0.8	1.0	1.1	1.2	1.4	1.9	0.6
C.V. (%)	13.9	10.8	10.5	11.0	18.5	14.5	19.2	18.3	14.2

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

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

TABLE 25. FALL COLOR (DECEMBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

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

NAME	AZ1	FL4	GA1	NC1	TN1	TX1	MEAN
FAES 1313	5.5	5.9	4.3	6.0	1.7	2.0	4.5
FAES 1315	5.3	4.8	4.4	5.7	1.8	2.3	4.2
FAES 1329	5.2	5.3	4.3	5.7	2.0	2.3	4.0
FAES 1322	3.8	5.9	3.4	5.7	1.8	3.7	4.0
CSZ 1109	4.5	5.9	3.2	3.7	1.5	3.3	3.9
FAES 1303	3.5	6.0	3.9	3.3	1.5	2.3	3.9
09-TZ-54-9	4.8	5.2	3.8	5.7	1.8	3.0	3.9
10-TZ-1254	3.2	5.2	4.1	5.7	2.5	2.0	3.8
09-TZ-53-20	3.7	4.8	4.1	5.3	2.0	2.7	3.7
FAES 1304	4.2	5.0	3.8	5.7	1.8	2.0	3.7
FAES 1317	4.2	4.4	3.7	5.0	1.5	2.3	3.7
FAES 1308	4.2	5.8	3.6	2.0	1.5	2.7	3.7
CSZ 1105	3.8	4.7	4.1	5.0	1.5	1.7	3.7
DALZ 1301	5.5	4.8	3.8	4.0	1.7	2.3	3.7
FAES 1319	2.8	5.6	3.6	5.3	2.0	1.7	3.6
FAES 1309	3.8	5.4	3.6	4.0	1.5	1.7	3.6
ZEON	4.3	4.6	3.6	4.0	1.8	1.0	3.6
FAES 1307	4.2	5.1	3.6	5.0	1.8	1.7	3.5
A-1	4.7	4.8	3.3	6.0	1.5	1.7	3.5
FAES 1312	4.2	4.7	3.6	5.0	1.8	1.3	3.5
FAES 1305	4.5	4.4	4.0	3.0	2.3	2.0	3.5
DALZ 1303	4.3	5.8	3.2	3.7	1.5	2.7	3.5
FAES 1306	3.3	5.8	3.3	2.7	1.8	2.3	3.3
FAES 1310	4.0	5.7	2.9	3.7	1.5	1.0	3.3
11-TZ-4321	3.2	4.6	3.9	3.7	1.5	1.7	3.3
GGZ 504	3.0	4.1	3.8	3.0	1.5	1.7	3.2
FAES 1318	3.7	4.2	3.7	4.7	1.5	1.0	3.2
FAES 1316	3.2	4.2	3.6	3.7	1.5	1.0	3.1
FAES 1314	3.0	4.2	3.8	2.0	1.5	1.0	3.0
DALZ 1302	3.7	4.7	3.0	4.7	1.8	1.0	3.0
FAES 1328	2.7	3.8	3.3	4.3	2.0	1.0	2.9
10-TZ-35	2.3	3.7	3.4	3.7	1.8	1.0	2.9
EMPIRE	2.3	3.3	3.3	4.3	1.7	1.0	2.7
KSUZ 1201	1.8	3.1	3.3	1.7	1.7	1.0	2.6
MEYER	1.5	2.4	3.4	1.3	1.7	1.0	2.3
LSD VALUE	1.9	1.1	1.5	1.4	0.4	1.1	0.9
C.V. (%)	30.5	13.8	27.8	21.3	17.3	38.5	23.2

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 26. SEEDHEAD RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2013-17 DATA

NAME	SEEDHEAD RATINGS 1-9; 9=NONE 2/					MEAN
	AZ1	FL4	NC1	TN1	TX1	
CSZ 1109	8.3	7.7	9.0	9.0	8.3	8.7
CSZ 1105	9.0	6.7	8.8	9.0	8.8	8.7
FAES 1308	9.0	6.3	8.6	9.0	9.0	8.7
DALZ 1301	9.0	8.3	9.0	8.5	8.8	8.7
FAES 1312	9.0	7.3	9.0	9.0	7.8	8.7
FAES 1306	9.0	7.3	8.0	9.0	8.8	8.6
FAES 1315	9.0	8.3	7.6	9.0	8.8	8.6
FAES 1310	8.3	7.7	7.9	9.0	8.3	8.4
FAES 1313	9.0	6.7	8.8	8.5	8.8	8.4
ZEON	6.3	8.3	9.0	8.7	8.3	8.4
FAES 1322	8.3	8.7	7.7	8.2	8.8	8.4
FAES 1328	8.3	7.3	7.8	8.5	9.0	8.3
FAES 1307	8.7	5.3	8.8	8.7	7.2	8.1
A-1	8.3	7.3	9.0	8.5	6.5	8.1
FAES 1303	7.7	5.3	7.9	9.0	7.8	8.1
11-TZ-4321	9.0	8.0	8.0	8.2	7.7	8.0
DALZ 1303	3.3	7.7	8.8	9.0	6.7	8.0
FAES 1305	8.7	6.7	9.0	8.5	5.8	7.9
FAES 1309	7.7	7.3	7.9	8.8	6.0	7.8
FAES 1314	9.0	4.7	8.1	8.0	7.3	7.8
DALZ 1302	7.0	5.0	7.9	8.0	6.5	7.6
FAES 1319	6.7	5.3	8.4	9.0	5.0	7.6
FAES 1317	5.7	4.7	7.6	9.0	6.5	7.6
KSUZ 1201	8.3	8.7	7.4	8.5	6.2	7.5
09-TZ-53-20	8.3	6.0	6.7	8.3	6.2	7.5
FAES 1316	6.0	3.3	7.7	8.5	6.5	7.4
FAES 1329	8.3	5.3	7.2	7.5	6.8	7.4
10-TZ-35	9.0	3.3	6.8	7.2	8.0	7.2
10-TZ-1254	5.7	6.0	7.0	8.2	5.8	7.0
EMPIRE	7.7	5.0	5.9	6.8	8.3	7.0
GGZ 504	6.3	4.3	6.1	7.7	6.0	6.8
FAES 1304	6.7	2.7	7.7	8.8	4.0	6.7
FAES 1318	6.7	2.0	6.9	7.0	4.8	6.4
MEYER	2.7	8.3	5.9	8.5	4.8	6.2
09-TZ-54-9	5.0	6.7	6.0	8.5	2.3	6.0
LSD VALUE	1.8	1.5	1.7	0.4	2.0	0.8
C.V. (%)	14.5	14.4	13.4	2.7	18.7	10.8

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

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

TABLE 27. PERCENT ESTABLISHMENT RATINGS OF ZOYSIAGRASS CULTIVARS 1/ 2/  
2013 DATA 3/

NAME	IN1	KS1	MEAN
FAES 1329	94.7	88.3	91.5
FAES 1307	85.0	91.7	88.3
FAES 1318	88.3	83.3	85.8
CSZ 1105	89.0	81.7	85.3
FAES 1303	92.3	78.3	85.3
GGZ 504	80.0	88.3	84.2
FAES 1313	86.7	80.0	83.3
EMPIRE	78.3	88.3	83.3
FAES 1312	86.7	78.3	82.5
FAES 1315	83.3	81.7	82.5
10-TZ-35	86.7	76.7	81.7
FAES 1304	85.0	73.3	79.2
DALZ 1302	70.0	85.0	77.5
FAES 1306	81.7	71.7	76.7
10-TZ-1254	73.3	80.0	76.7
FAES 1319	80.0	70.0	75.0
DALZ 1303	70.0	76.7	73.3
FAES 1322	75.0	61.7	68.3
FAES 1305	75.0	60.0	67.5
MEYER	73.3	61.7	67.5
FAES 1314	60.0	73.3	66.7
CSZ 1109	65.0	65.0	65.0
FAES 1317	65.0	65.0	65.0
ZEON	71.7	55.0	63.3
FAES 1310	58.3	66.7	62.5
FAES 1316	80.0	45.0	62.5
FAES 1328	68.3	53.3	60.8
09-TZ-54-9	56.7	63.3	60.0
DALZ 1301	65.0	53.3	59.2
FAES 1308	53.3	56.7	55.0
09-TZ-53-20	50.0	58.3	54.2
FAES 1309	40.0	46.7	43.3
11-TZ-4321	58.3	26.7	42.5
A-1	58.3	23.3	40.8
KSUZ 1201	25.0	50.0	37.5
LSD VALUE	26.8	14.5	15.2
C.V. (%)	23.2	13.4	19.2

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

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

3/ 2013 DATA

TABLE 28. WINTER DORMANCY RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2017 DATA

WINTER DORMANCY RATINGS 1-9; 9=NO DORMANCY 2/ 3/

NAME	AZ1
FAES 1304	8.3
09-TZ-53-20	8.0
09-TZ-54-9	8.0
ZEON	8.0
FAES 1310	7.7
FAES 1312	7.7
FAES 1313	7.7
FAES 1318	7.7
FAES 1316	7.3
DALZ 1302	7.0
DALZ 1303	7.0
EMPIRE	7.0
FAES 1307	7.0
FAES 1308	6.7
FAES 1309	6.7
FAES 1319	6.7
FAES 1329	6.7
GGZ 504	6.7
10-TZ-35	6.3
CSZ 1109	6.3
FAES 1306	6.3
FAES 1315	6.0
FAES 1317	6.0
10-TZ-1254	5.7
A-1	5.7
CSZ 1105	5.7
FAES 1303	5.7
FAES 1314	5.7
FAES 1328	5.7
11-TZ-4321	5.3
DALZ 1301	5.3
FAES 1305	5.0
FAES 1322	5.0
KSUZ 1201	4.7
MEYER	4.7
LSD VALUE	2.1
C.V. (%)	20.4

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/ 2017 DATA

TABLE 29. SPRING COLOR RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2015 DATA

SPRING COLOR RATINGS 1-9; 9=BEST 2/ 3/

NAME	FL3
FAES 1305	8.0
KSUZ 1201	8.0
MEYER	8.0
DALZ 1301	7.7
FAES 1328	7.7
ZEON	7.7
FAES 1314	7.3
FAES 1319	7.3
11-TZ-4321	7.0
A-1	7.0
FAES 1304	7.0
FAES 1312	7.0
FAES 1316	7.0
FAES 1329	7.0
10-TZ-35	6.7
EMPIRE	6.7
FAES 1317	6.7
GGZ 504	6.7
09-TZ-53-20	6.3
09-TZ-54-9	6.3
DALZ 1302	6.3
FAES 1309	6.3
FAES 1313	6.3
FAES 1315	6.3
FAES 1318	6.3
CSZ 1105	6.0
CSZ 1109	6.0
FAES 1307	6.0
10-TZ-1254	5.7
DALZ 1303	5.7
FAES 1303	5.7
FAES 1322	5.7
FAES 1306	5.3
FAES 1310	5.3
FAES 1308	5.0
LSD VALUE	0.8
C.V. (%)	7.4

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/ 2015 DATA



TABLE 30. PERCENT DOLLAR SPOT RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2015 DATA 2/ 3/

NAME	FL4
CSZ 1109	23.3
CSZ 1105	21.7
DALZ 1303	20.0
A-1	18.3
FAES 1308	18.3
FAES 1306	16.7
FAES 1303	13.3
FAES 1305	13.3
ZEON	13.3
09-TZ-54-9	11.7
DALZ 1301	11.7
FAES 1310	11.7
FAES 1314	8.3
EMPIRE	6.7
FAES 1315	6.7
FAES 1319	6.7
09-TZ-53-20	5.0
11-TZ-4321	5.0
DALZ 1302	5.0
FAES 1304	5.0
FAES 1307	5.0
FAES 1309	5.0
FAES 1313	5.0
FAES 1322	5.0
FAES 1329	5.0
FAES 1318	3.3
GGZ 504	3.3
KSUZ 1201	3.3
FAES 1312	1.7
10-TZ-1254	0.0
10-TZ-35	0.0
FAES 1316	0.0
FAES 1317	0.0
FAES 1328	0.0
MEYER	0.0
LSD VALUE	8.3
C.V. (%)	64.9

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.

3/ 2015 DATA

TABLE 31. DOLLAR SPOT RATINGS OF ZOYSIAGRASS CULTIVARS  
AT CITRA, FL 1/ 3/  
2017 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/

NAME	AUGUST	SEPTEMBER	MEAN
10-TZ-1254	9.0	8.7	8.8
FAES 1312	8.0	8.3	8.2
DALZ 1302	8.0	8.0	8.0
11-TZ-4321	8.3	7.3	7.8
FAES 1319	7.7	8.0	7.8
FAES 1313	7.7	7.7	7.7
FAES 1316	7.3	7.7	7.5
FAES 1322	8.0	7.0	7.5
FAES 1329	7.0	7.7	7.3
FAES 1307	7.0	7.3	7.2
EMPIRE	7.0	7.0	7.0
10-TZ-35	7.3	6.3	6.8
FAES 1304	6.7	7.0	6.8
FAES 1305	7.3	6.3	6.8
FAES 1315	6.7	7.0	6.8
09-TZ-53-20	6.0	7.3	6.7
CSZ 1105	6.7	6.7	6.7
DALZ 1303	6.7	6.7	6.7
FAES 1318	7.0	6.3	6.7
KSUZ 1201	6.7	6.7	6.7
09-TZ-54-9	6.0	7.0	6.5
FAES 1303	5.7	7.3	6.5
FAES 1306	6.3	6.7	6.5
FAES 1309	5.0	7.3	6.2
FAES 1310	6.3	6.0	6.2
FAES 1328	5.7	6.7	6.2
DALZ 1301	6.3	5.7	6.0
FAES 1308	5.7	6.0	5.8
FAES 1314	6.0	5.7	5.8
ZEON	5.7	6.0	5.8
A-1	5.0	6.0	5.5
GGZ 504	5.7	5.3	5.5
FAES 1317	6.7	4.0	5.3
MEYER	5.3	4.3	4.8
CSZ 1109	2.7	3.7	3.2
LSD VALUE	1.8	2.0	1.4
C.V. (%)	16.1	16.7	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.

3/ 2017 DATA

TABLE 32. DOLLAR SPOT RATINGS OF ZOYSIAGRASS CULTIVARS  
AT RALEIGH, NC 1/  
2017 DATA

NAME	DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/		
	JUNE	JULY	MEAN
FAES 1319	8.0	8.0	8.0
FAES 1312	8.0	7.7	7.8
10-TZ-1254	7.7	7.7	7.7
FAES 1328	8.0	7.0	7.5
KSUZ 1201	8.0	7.0	7.5
DALZ 1302	7.3	7.0	7.2
FAES 1315	7.3	6.7	7.0
FAES 1313	6.3	6.7	6.5
FAES 1318	6.7	6.3	6.5
11-TZ-4321	6.3	6.3	6.3
FAES 1316	6.3	6.3	6.3
FAES 1322	6.3	6.0	6.2
EMPIRE	6.3	5.7	6.0
FAES 1303	6.3	5.7	6.0
FAES 1329	6.0	6.0	6.0
FAES 1306	5.7	5.7	5.7
GGZ 504	6.0	5.3	5.7
10-TZ-35	5.7	5.3	5.5
FAES 1317	7.0	4.0	5.5
MEYER	7.7	3.3	5.5
A-1	5.3	4.7	5.0
CSZ 1105	4.7	5.0	4.8
DALZ 1303	4.7	5.0	4.8
FAES 1305	5.0	4.7	4.8
FAES 1310	5.0	4.7	4.8
09-TZ-53-20	4.3	4.3	4.3
CSZ 1109	4.0	4.7	4.3
FAES 1308	5.0	3.7	4.3
FAES 1314	4.7	4.0	4.3
DALZ 1301	4.7	3.3	4.0
FAES 1304	4.0	4.0	4.0
FAES 1307	4.0	3.7	3.8
FAES 1309	4.0	3.7	3.8
ZEON	4.0	3.7	3.8
09-TZ-54-9	3.7	3.7	3.7
LSD VALUE	1.8	2.2	1.9
C.V. (%)	19.1	24.0	20.1

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/ 2017 DATA

TABLE 33. WINTER KILL RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2017 DATA

WINTER KILL RATINGS 1-9; 9=NONE 2/ 3/

NAME	TX1
09-TZ-54-9	8.3
10-TZ-1254	8.0
ZEON	8.0
DALZ 1301	7.7
FAES 1319	7.7
FAES 1322	7.7
DALZ 1302	7.3
FAES 1313	7.3
09-TZ-53-20	7.0
10-TZ-35	7.0
FAES 1305	7.0
11-TZ-4321	6.7
A-1	6.7
DALZ 1303	6.7
FAES 1304	6.7
FAES 1312	6.7
FAES 1315	6.7
FAES 1316	6.7
FAES 1328	6.7
FAES 1309	6.3
FAES 1317	6.3
FAES 1318	6.3
FAES 1329	6.0
GGZ 504	6.0
CSZ 1105	5.7
EMPIRE	5.7
FAES 1303	5.3
FAES 1307	5.3
MEYER	5.3
FAES 1306	5.0
FAES 1310	5.0
KSUZ 1201	5.0
CSZ 1109	4.7
FAES 1314	4.3
FAES 1308	3.7
LSD VALUE	1.8
C.V. (%)	17.3

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/ 2017 DATA

TABLE 34. VERTICAL CUTTING RECOVERY RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2017 DATA

VERTICAL CUTTING RECOVERY RATINGS 1-9; 9=COMPLETE RECOVERY 2/ 3/

NAME	AZ1
DALZ 1301	8.7
FAES 1316	8.7
ZEON	8.7
KSUZ 1201	8.0
09-TZ-54-9	7.7
DALZ 1303	7.7
FAES 1305	7.7
FAES 1312	7.7
MEYER	7.7
FAES 1318	7.3
FAES 1319	7.3
FAES 1314	7.0
10-TZ-1254	6.7
10-TZ-35	6.7
FAES 1307	6.7
11-TZ-4321	6.3
FAES 1317	6.3
FAES 1322	6.3
DALZ 1302	6.0
EMPIRE	6.0
FAES 1313	6.0
09-TZ-53-20	5.7
FAES 1304	5.7
FAES 1328	5.7
A-1	5.0
FAES 1329	4.7
CSZ 1109	4.0
FAES 1315	3.7
GGZ 504	3.7
CSZ 1105	3.3
FAES 1309	3.0
FAES 1306	2.3
FAES 1303	1.7
FAES 1308	1.3
FAES 1310	1.3
LSD VALUE	2.5
C.V. (%)	27.2

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/ 2017 DATA

TABLE 35. PERCENT LARGE PATCH DISEASE RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
 AT FAYETTEVILLE, AR 2/ 3/  
 2017 DATA

NAME	APRIL	MAY 1	MAY 15	MEAN
FAES 1309	60.0	.	.	60.0
FAES 1306	80.0	53.3	43.3	58.9
11-TZ-4321	66.7	50.0	30.0	48.9
FAES 1310	63.3	50.0	33.3	48.9
FAES 1322	63.3	40.0	43.3	48.9
FAES 1308	70.0	40.0	30.0	46.7
FAES 1329	80.0	21.7	26.7	42.8
MEYER	53.3	40.0	26.7	40.0
FAES 1303	43.3	33.3	33.3	36.7
ZEON	46.7	23.3	21.7	30.6
EMPIRE	36.7	20.7	31.7	29.7
FAES 1305	40.0	18.3	18.3	25.6
CSZ 1105	40.0	21.7	13.3	25.0
FAES 1318	36.7	11.7	23.3	23.9
DALZ 1303	20.0	25.0	16.7	20.6
FAES 1312	16.7	26.7	15.0	19.4
CSZ 1109	40.0	10.0	5.7	18.6
10-TZ-35	16.7	15.0	18.3	16.7
FAES 1304	33.3	6.7	10.0	16.7
KSUZ 1201	26.7	11.7	10.0	16.1
FAES 1313	26.7	6.7	13.3	15.6
GGZ 504	31.7	10.0	3.3	15.0
A-1	26.7	5.0	10.0	14.7
09-TZ-53-20	33.3	4.0	3.3	13.6
FAES 1315	33.3	2.3	2.3	12.7
DALZ 1302	6.7	19.0	10.7	12.1
10-TZ-1254	6.7	11.7	16.7	11.7
FAES 1314	18.3	8.3	4.0	10.2
DALZ 1301	13.3	8.3	2.3	8.0
FAES 1307	13.3	5.7	0.7	6.6
FAES 1317	13.3	0.7	5.0	6.3
09-TZ-54-9	13.3	3.0	2.3	6.2
FAES 1319	11.7	3.3	1.7	5.6
FAES 1316	5.0	5.0	5.7	5.2
FAES 1328	13.3	2.3	0.0	5.2
LSD VALUE	41.6	25.4	34.5	23.5
C.V. (%)	65.1	80.8	100.4	59.5

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.

3/ 2017 DATA

TABLE 36. PERCENT GREEN COVER RATINGS OF ZOYSIAGRASS CULTIVARS  
AT FAYETTEVILLE, AR 1/  
2016 DATA

PERCENT GREEN COVER RATINGS USED DIGITAL IMAGE ANALYSIS 2/ 3/

NAME	APRIL	MAY	MEAN
FAES 1307	77.7	97.7	87.7
KSUZ 1201	77.3	94.0	85.7
DALZ 1301	74.0	94.3	84.2
FAES 1305	69.0	97.7	83.3
CSZ 1105	68.3	95.7	82.0
FAES 1313	66.0	96.7	81.3
09-TZ-54-9	73.0	89.0	81.0
FAES 1322	70.3	91.3	80.8
ZEON	64.7	95.3	80.0
FAES 1328	67.7	92.0	79.8
FAES 1315	67.7	90.3	79.0
FAES 1319	65.7	92.0	78.8
EMPIRE	68.3	88.7	78.5
FAES 1312	70.3	86.7	78.5
MEYER	74.7	81.7	78.2
FAES 1304	68.3	86.0	77.2
FAES 1314	62.0	89.7	75.8
11-TZ-4321	78.3	73.0	75.7
A-1	55.7	94.3	75.0
FAES 1316	60.3	87.7	74.0
10-TZ-1254	68.0	79.0	73.5
DALZ 1302	62.7	84.3	73.5
CSZ 1109	53.0	91.3	72.2
FAES 1329	51.7	92.7	72.2
10-TZ-35	65.0	78.3	71.7
FAES 1310	48.3	93.0	70.7
FAES 1306	49.0	92.0	70.5
FAES 1317	51.7	81.3	66.5
09-TZ-53-20	52.7	80.0	66.3
FAES 1303	41.7	90.3	66.0
DALZ 1303	48.3	82.0	65.2
FAES 1318	51.0	79.0	65.0
GGZ 504	42.0	81.0	61.5
FAES 1308	35.7	62.3	49.0
FAES 1309	10.3	12.7	11.5
LSD VALUE	25.8	19.2	19.8
C.V. (%)	23.7	13.7	16.0

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/ 2016 DATA

TABLE 37. PERCENT ESTABLISHMENT RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
 AT AUBURN, AL 2/ 3/  
 2013-14 DATA

NAME	SEP_2013	OCT_2013	ARP_5_2014	APR_26	MAY_26	MEAN
FAES 1314	8.7	23.3	40.0	56.7	60.0	37.7
EMPIRE	13.3	20.0	30.0	40.0	73.3	35.3
FAES 1316	9.3	21.7	33.3	36.7	66.7	33.5
FAES 1318	5.7	21.7	33.3	40.0	60.0	32.1
DALZ 1302	11.7	20.0	23.3	36.7	66.7	31.7
FAES 1319	10.0	16.7	33.3	30.0	66.7	31.3
FAES 1307	5.3	23.3	26.7	33.3	66.7	31.1
CSZ 1105	13.3	26.7	30.0	33.3	50.0	30.7
FAES 1317	12.0	21.7	30.0	33.3	53.3	30.1
DALZ 1303	7.7	18.3	26.7	43.3	46.7	28.5
FAES 1312	9.0	15.0	23.3	30.0	60.0	27.5
FAES 1315	10.0	18.3	23.3	36.7	46.7	27.0
10-TZ-35	6.0	21.7	20.0	30.0	56.7	26.9
FAES 1310	9.3	16.7	16.7	30.0	53.3	25.2
FAES 1329	4.7	15.0	20.0	26.7	46.7	22.6
A-1	5.0	15.0	20.0	26.7	43.3	22.0
FAES 1313	8.3	16.7	23.3	20.0	40.0	21.7
10-TZ-1254	5.0	15.0	13.3	20.0	50.0	20.7
FAES 1305	6.7	13.3	13.3	23.3	46.7	20.7
GGZ 504	5.3	13.3	16.7	26.7	36.7	19.7
FAES 1328	5.0	11.7	16.7	23.3	36.7	18.7
FAES 1304	6.0	15.0	13.3	20.0	36.7	18.2
FAES 1306	4.3	16.7	11.7	23.3	33.3	17.9
MEYER	7.0	8.3	16.7	16.7	40.0	17.7
11-TZ-4321	5.3	8.3	13.3	16.7	40.0	16.7
09-TZ-54-9	4.0	8.3	10.0	23.3	36.7	16.5
FAES 1303	5.3	15.0	11.7	20.0	30.0	16.4
ZEON	2.7	8.3	10.0	23.3	36.7	16.2
FAES 1322	10.0	13.3	11.7	16.7	26.7	15.7
09-TZ-53-20	3.3	8.3	16.7	16.7	30.0	15.0
CSZ 1109	6.7	13.3	8.3	20.0	23.3	14.3
DALZ 1301	4.3	6.7	13.3	23.3	23.3	14.2
FAES 1308	4.3	11.7	10.0	16.7	23.3	13.2
KSUZ 1201	3.7	8.3	5.0	16.7	16.7	10.1
FAES 1309	3.7	8.3	5.7	13.3	13.3	8.9
LSD VALUE	4.5	6.1	8.4	10.9	14.1	6.0
C.V. (%)	38.4	25.0	28.4	25.4	21.0	17.7

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/ 2013-2014 DATA



TABLE 38. PERCENT ESTABLISHMENT RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
 AT JAY, FL 2/ 3/  
 2013 DATA

NAME	AUGUST	SEP_4	SEP_18	OCTOBER	NOVEMBER	MEAN
FAES 1307	13.3	20.0	75.0	81.7	88.3	55.7
EMPIRE	15.0	36.7	38.3	90.0	91.7	54.3
FAES 1316	18.3	20.0	65.0	78.3	85.0	53.3
FAES 1314	13.3	18.3	65.0	78.3	81.7	51.3
FAES 1315	15.0	16.7	63.3	61.7	66.7	44.7
CSZ 1105	11.7	25.0	23.3	70.0	71.7	40.3
FAES 1329	13.3	18.3	56.7	53.3	56.7	39.7
GGZ 504	11.7	18.3	50.0	55.0	63.3	39.7
FAES 1312	10.0	15.0	41.7	55.0	66.7	37.7
10-TZ-35	10.0	15.0	33.3	63.3	63.3	37.0
MEYER	10.0	15.0	48.3	41.7	53.3	33.7
FAES 1313	6.7	13.3	43.3	45.0	58.3	33.3
DALZ 1303	8.3	16.7	36.7	48.3	53.3	32.7
FAES 1318	10.0	16.7	33.3	45.0	58.3	32.7
FAES 1328	6.7	13.3	46.7	38.3	53.3	31.7
11-TZ-4321	10.0	13.3	50.0	41.7	41.7	31.3
DALZ 1302	6.7	11.7	36.7	41.7	60.0	31.3
FAES 1317	8.3	15.0	38.3	43.3	51.7	31.3
FAES 1322	8.3	13.3	36.7	46.7	50.0	31.0
FAES 1306	8.3	13.3	41.7	41.7	48.3	30.7
FAES 1304	6.7	13.3	31.7	40.0	55.0	29.3
ZEON	6.7	11.7	31.7	33.3	43.3	25.3
FAES 1310	8.3	13.3	28.3	31.7	41.7	24.7
10-TZ-1254	5.0	10.0	43.3	28.3	35.0	24.3
FAES 1305	8.3	13.3	30.0	33.3	36.7	24.3
FAES 1303	6.7	13.3	28.3	33.3	38.3	24.0
FAES 1319	6.7	10.0	30.0	35.0	36.7	23.7
FAES 1308	5.0	10.0	23.3	30.0	33.3	20.3
CSZ 1109	5.0	10.0	21.7	28.3	33.3	19.7
09-TZ-54-9	5.0	11.7	28.3	23.3	28.3	19.3
A-1	5.0	8.3	20.0	26.7	35.0	19.0
09-TZ-53-20	5.0	10.0	33.3	20.0	21.7	18.0
KSUZ 1201	5.0	10.0	18.3	23.3	25.0	16.3
FAES 1309	5.0	10.0	16.7	18.3	21.7	14.3
DALZ 1301	6.7	10.0	15.0	13.3	18.3	12.7
LSD VALUE	4.6	5.1	30.1	18.5	19.7	11.1
C.V. (%)	32.3	22.7	42.0	27.2	25.0	23.0

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/ 2013 DATA

TABLE 39. PERCENT ESTABLISHMENT RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
 AT CITRA, FL 2/ 3/  
 2013-14 DATA

NAME	OCT_2013	NOV_2013	DEC_2013	MAR_2014	MEAN
DALZ 1303	73.3	86.7	91.7	93.3	86.3
FAES 1317	71.7	81.7	85.0	83.3	80.4
CSZ 1105	61.7	78.3	88.3	90.0	79.6
FAES 1306	65.0	78.3	85.0	90.0	79.6
EMPIRE	65.0	76.7	83.3	81.7	76.7
FAES 1322	66.7	73.3	83.3	81.7	76.3
FAES 1318	63.3	70.0	81.7	80.0	73.8
FAES 1329	65.0	75.0	78.3	76.7	73.8
FAES 1312	60.0	73.3	78.3	81.7	73.3
FAES 1307	58.3	73.3	76.7	83.3	72.9
10-TZ-35	58.3	66.7	71.7	83.3	70.0
FAES 1313	55.0	68.3	75.0	81.7	70.0
FAES 1319	55.0	68.3	76.7	78.3	69.6
10-TZ-1254	55.0	66.7	75.0	78.3	68.8
FAES 1315	60.0	70.0	70.0	75.0	68.8
FAES 1304	60.0	66.7	76.7	70.0	68.3
FAES 1310	53.3	60.0	76.7	80.0	67.5
DALZ 1302	56.7	66.7	68.3	75.0	66.7
FAES 1303	51.7	56.7	76.7	73.3	64.6
FAES 1314	51.7	58.3	65.0	61.7	59.2
FAES 1316	53.3	61.7	60.0	55.0	57.5
FAES 1328	48.3	58.3	61.7	61.7	57.5
09-TZ-53-20	45.0	53.3	63.3	61.7	55.8
ZEON	45.0	53.3	61.7	61.7	55.4
FAES 1305	36.7	50.0	55.0	63.3	51.3
11-TZ-4321	43.3	48.3	53.3	53.3	49.6
FAES 1308	40.0	43.3	51.7	58.3	48.3
GGZ 504	41.7	45.0	50.0	56.7	48.3
FAES 1309	38.3	45.0	50.0	55.0	47.1
A-1	35.0	38.3	51.7	60.0	46.3
09-TZ-54-9	38.3	50.0	46.7	46.7	45.4
CSZ 1109	35.0	38.3	43.3	40.0	39.2
DALZ 1301	33.3	36.7	45.0	40.0	38.8
MEYER	31.7	40.0	40.0	38.3	37.5
KSUZ 1201	25.0	26.7	30.0	23.3	26.3
LSD VALUE	13.9	16.1	14.4	18.0	14.0
C.V. (%)	17.0	17.0	14.1	16.9	14.8

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/ 2013-2014 DATA

TABLE 40. PERCENT ESTABLISHMENT RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
 AT GRIFFIN, GA 2/ 3/  
 2014 DATA

NAME	SPRING	EARLY SUMMER	LATE SUMMER	EARLY FALL	LATE FALL	MEAN
EMPIRE	63.3	79.7	94.7	96.0	96.0	85.9
DALZ 1302	56.7	76.7	94.7	97.7	97.7	84.7
FAES 1316	46.7	73.3	94.7	97.7	97.7	82.0
FAES 1314	46.7	66.7	94.7	99.0	99.0	81.2
FAES 1319	56.7	63.3	83.0	93.0	94.7	78.1
10-TZ-35	46.7	63.3	85.0	93.0	93.0	76.2
FAES 1318	50.0	60.0	76.7	88.3	93.0	73.6
A-1	50.0	60.0	70.0	93.0	94.7	73.5
09-TZ-53-20	46.7	56.7	80.0	89.3	89.3	72.4
ZEON	40.0	56.7	76.7	90.0	93.3	71.3
DALZ 1303	50.0	66.7	76.0	79.3	82.7	70.9
FAES 1313	43.3	60.0	76.7	83.3	88.0	70.3
FAES 1304	50.0	56.7	76.7	83.0	83.0	69.9
09-TZ-54-9	46.7	60.0	76.7	80.0	85.0	69.7
CSZ 1105	40.0	53.3	78.3	83.3	89.7	68.9
FAES 1305	46.7	56.7	71.7	80.0	83.0	67.6
DALZ 1301	50.0	60.0	66.7	76.3	83.0	67.2
11-TZ-4321	43.3	53.3	66.7	78.3	83.3	65.0
KSUZ 1201	43.3	53.3	70.0	76.7	80.0	64.7
FAES 1315	33.3	50.0	75.0	78.3	85.0	64.3
FAES 1317	43.3	56.7	63.3	71.7	83.0	63.6
10-TZ-1254	40.0	50.0	66.7	76.7	81.7	63.0
FAES 1322	40.0	50.0	66.7	76.7	81.7	63.0
FAES 1328	46.7	43.3	63.3	70.0	80.0	60.7
GGZ 504	30.0	40.0	66.7	76.7	80.0	58.7
FAES 1329	43.3	43.3	66.3	66.3	69.7	57.8
FAES 1312	40.0	43.3	56.7	70.0	76.7	57.3
FAES 1306	40.0	43.3	60.0	64.7	69.7	55.5
FAES 1303	40.0	36.7	50.0	70.0	75.0	54.3
MEYER	33.3	43.3	53.3	66.7	73.3	54.0
FAES 1310	26.7	33.3	40.0	60.0	73.3	46.7
CSZ 1109	26.7	30.0	43.3	50.0	60.0	42.0
FAES 1307	33.3	30.0	33.3	46.7	60.0	40.7
FAES 1308	23.3	26.7	41.7	50.0	53.3	39.0
FAES 1309	26.7	20.0	35.0	38.3	46.7	33.3
LSD VALUE	25.6	30.7	42.5	36.4	35.0	29.9
C.V. (%)	27.2	30.3	29.5	23.2	19.5	23.3

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/ 2014 DATA

TABLE 41. PERCENT ESTABLISHMENT RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
 AT COLUMBIA, MO 2/ 3/  
 2013 DATA

NAME	SUMMER	FALL	MEAN
DALZ 1303	40.0	61.7	50.8
FAES 1319	41.7	60.0	50.8
CSZ 1105	36.7	56.7	46.7
EMPIRE	33.3	55.0	44.2
FAES 1304	33.3	51.7	42.5
FAES 1313	33.3	50.0	41.7
FAES 1329	35.0	48.3	41.7
FAES 1306	35.0	46.7	40.8
FAES 1315	33.3	48.3	40.8
10-TZ-1254	30.0	50.0	40.0
10-TZ-35	31.7	48.3	40.0
CSZ 1109	33.3	46.7	40.0
FAES 1303	31.7	48.3	40.0
FAES 1318	33.3	46.7	40.0
FAES 1317	31.7	46.7	39.2
DALZ 1301	31.7	45.0	38.3
FAES 1310	30.0	46.7	38.3
FAES 1312	31.7	45.0	38.3
FAES 1316	30.0	46.7	38.3
FAES 1314	30.0	43.3	36.7
GGZ 504	30.0	43.3	36.7
FAES 1307	25.0	45.0	35.0
FAES 1309	28.3	41.7	35.0
FAES 1308	25.0	43.3	34.2
09-TZ-53-20	26.7	40.0	33.3
DALZ 1302	25.0	40.0	32.5
FAES 1322	25.0	38.3	31.7
FAES 1328	25.0	38.3	31.7
FAES 1305	23.3	38.3	30.8
11-TZ-4321	20.0	36.7	28.3
KSUZ 1201	20.0	36.7	28.3
09-TZ-54-9	18.3	36.7	27.5
MEYER	21.7	31.7	26.7
ZEON	20.0	33.3	26.7
A-1	15.0	28.3	21.7
LSD VALUE	10.9	15.1	12.1
C.V. (%)	21.0	18.0	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/ 2013 DATA

TABLE 42. PERCENT ESTABLISHMENT RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
 AT RALEIGH, NC 2/ 3/  
 2013 DATA

NAME	AUGUST	SEPTEMBER	OCTOBER	MEAN
CSZ 1105	15.0	36.7	48.3	33.3
DALZ 1302	16.7	35.0	46.7	32.8
DALZ 1303	11.7	36.7	45.0	31.1
FAES 1329	11.7	36.7	45.0	31.1
EMPIRE	13.3	35.0	43.3	30.6
FAES 1315	13.3	31.7	45.0	30.0
FAES 1316	11.7	33.3	45.0	30.0
FAES 1307	8.3	31.7	48.3	29.4
FAES 1314	15.0	30.0	41.7	28.9
FAES 1319	15.0	30.0	38.3	27.8
FAES 1322	10.0	30.0	40.0	26.7
GGZ 504	13.3	30.0	36.7	26.7
10-TZ-35	13.3	26.7	38.3	26.1
FAES 1328	11.7	30.0	36.7	26.1
FAES 1313	10.0	28.3	38.3	25.6
FAES 1312	11.7	26.7	36.7	25.0
FAES 1318	11.7	26.7	36.7	25.0
FAES 1306	11.7	28.3	33.3	24.4
10-TZ-1254	10.0	25.0	36.7	23.9
11-TZ-4321	6.7	25.0	36.7	22.8
CSZ 1109	11.7	25.0	30.0	22.2
FAES 1317	11.7	23.3	30.0	21.7
FAES 1310	8.3	23.3	31.7	21.1
KSUZ 1201	8.3	23.3	30.0	20.6
FAES 1303	10.0	21.7	28.3	20.0
FAES 1309	10.0	23.3	26.7	20.0
09-TZ-53-20	10.0	21.7	26.7	19.4
FAES 1304	8.3	21.7	28.3	19.4
FAES 1305	6.7	21.7	26.7	18.3
ZEON	6.7	20.0	28.3	18.3
DALZ 1301	10.0	18.3	25.0	17.8
FAES 1308	6.7	20.0	25.0	17.2
09-TZ-54-9	6.7	18.3	25.0	16.7
A-1	5.0	18.3	26.7	16.7
MEYER	8.3	18.3	23.3	16.7
LSD VALUE	3.5	5.4	7.0	4.1
C.V. (%)	20.5	13.1	13.1	11.2

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/ 2013 DATA

TABLE 43.

PERCENT ESTABLISHMENT RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
 AT KNOXVILLE, TN 2/ 3/  
 2013 DATA

NAME	7_2	7_15	7_24	8_9	8_14	8_20	9_3	9_17	10_10	MEAN
FAES 1316	12.0	14.3	20.0	34.3	41.3	49.3	66.7	80.7	94.0	45.9
FAES 1314	9.7	11.3	15.3	33.0	42.3	50.0	72.7	80.3	95.3	45.6
DALZ 1303	9.3	10.7	15.0	26.3	40.0	50.0	72.3	79.7	98.0	44.6
FAES 1318	10.7	12.0	16.7	31.0	38.3	47.7	68.0	76.7	93.0	43.8
EMPIRE	9.7	11.3	15.7	28.3	36.7	46.7	61.0	74.3	97.7	42.4
GGZ 504	10.7	12.3	16.3	26.0	36.0	45.0	61.7	74.7	98.3	42.3
FAES 1329	10.3	11.3	17.0	29.0	39.3	47.3	60.7	68.3	95.7	42.1
CSZ 1105	10.0	10.3	15.7	24.3	32.3	43.3	61.0	74.3	92.7	40.4
FAES 1313	10.0	11.0	14.3	28.0	34.3	41.3	58.0	72.3	94.7	40.4
FAES 1303	10.0	10.7	13.7	24.3	31.7	41.3	57.0	72.3	95.7	39.6
FAES 1319	10.3	11.0	14.0	26.7	31.7	39.3	54.3	69.3	85.0	38.0
FAES 1322	8.7	10.0	12.7	24.3	31.0	39.7	54.3	67.3	90.7	37.6
FAES 1310	9.7	10.7	13.7	19.7	28.3	33.7	56.0	70.0	94.7	37.4
FAES 1306	9.7	10.7	14.3	20.3	29.3	39.7	53.3	66.7	89.0	37.0
FAES 1315	9.0	10.3	15.0	25.3	32.3	42.0	53.3	65.0	77.3	36.6
FAES 1317	10.0	10.3	13.3	23.3	27.7	38.3	51.3	65.0	84.3	36.0
FAES 1304	10.0	11.3	14.3	22.3	28.7	35.7	45.3	63.0	88.0	35.4
FAES 1328	8.7	10.7	14.3	25.0	34.3	40.7	48.3	53.3	82.3	35.3
FAES 1312	10.3	11.3	14.7	21.3	27.0	32.7	46.0	60.0	78.0	33.5
DALZ 1302	6.7	5.3	8.7	17.0	25.0	32.3	39.3	58.3	98.0	32.3
FAES 1305	9.7	10.3	14.3	22.7	27.0	32.3	41.0	51.3	80.7	32.1
11-TZ-4321	5.3	7.3	11.3	17.0	24.7	29.7	37.7	45.3	96.7	30.6
FAES 1307	9.7	10.0	13.3	20.3	24.0	33.7	42.3	53.7	68.3	30.6
ZEON	9.3	10.0	13.3	18.7	24.7	30.7	39.0	48.3	79.0	30.3
MEYER	8.3	10.3	13.0	18.7	23.3	28.0	35.3	44.0	85.0	29.6
CSZ 1109	9.7	10.3	14.3	19.7	24.0	27.7	36.7	46.3	68.7	28.6
10-TZ-35	5.0	5.7	8.7	12.3	20.0	24.7	31.0	41.3	97.0	27.3
10-TZ-1254	5.0	5.7	8.7	12.7	19.7	23.3	29.3	43.0	94.3	26.9
09-TZ-53-20	5.0	5.3	8.0	12.3	16.3	21.7	28.0	35.3	96.3	25.4
09-TZ-54-9	5.0	6.0	7.7	11.3	16.0	20.7	30.0	35.3	89.3	24.6
FAES 1309	9.7	10.3	12.3	17.0	19.3	22.7	33.7	41.0	50.7	24.1
FAES 1308	8.7	9.7	11.7	17.0	19.0	21.7	31.0	35.0	40.0	21.5
A-1	5.0	5.0	6.7	11.3	13.7	18.0	25.3	31.3	75.3	21.3
DALZ 1301	5.0	5.0	7.7	11.7	14.7	18.3	25.0	29.3	70.7	20.8
KSUZ 1201	5.0	5.0	7.0	11.7	14.0	17.3	23.7	31.0	54.0	18.7
LSD VALUE	1.1	0.9	1.4	2.3	4.3	4.2	5.7	6.6	17.5	3.6
C.V. (%)	8.8	6.5	7.2	7.5	10.7	8.4	8.4	7.9	12.9	7.2

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/ 2013 DATA

TABLE 44. PERCENT ESTABLISHMENT RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
 AT COLLEGE STATION, TX 2/ 3/  
 2013-14 DATA

NAME	PERCENT ESTABLISHMENT IN 2013			PERCENT ESTABLISHMENT IN 2014			MEAN
	AUGUST	SEPTEMBER	OCTOBER	APRIL	MAY	JUNE	
EMPIRE	30.0	66.7	78.3	90.0	97.7	99.0	76.9
DALZ 1302	30.0	63.3	73.3	85.0	96.3	99.0	74.5
FAES 1307	23.3	63.3	76.7	88.3	96.0	99.0	74.4
10-TZ-35	28.3	61.7	75.0	86.7	94.7	97.7	74.0
FAES 1306	25.0	56.7	76.7	88.3	96.3	99.0	73.7
GGZ 504	21.7	46.7	66.7	80.0	93.3	99.0	67.9
CSZ 1105	28.3	45.0	63.3	81.7	88.3	93.0	66.6
FAES 1322	23.3	50.0	58.3	75.0	93.3	96.0	66.0
DALZ 1303	25.0	50.0	65.0	75.0	84.7	91.0	65.1
FAES 1310	20.0	40.0	55.0	80.0	93.0	99.0	64.5
FAES 1319	25.0	38.3	53.3	76.7	93.3	97.7	64.1
FAES 1303	23.3	36.7	50.0	71.7	92.7	97.7	62.0
FAES 1317	18.3	43.3	55.0	70.0	75.0	91.3	58.8
FAES 1318	21.7	36.7	50.0	68.3	80.0	91.7	58.1
FAES 1329	23.3	33.3	43.3	61.7	83.3	93.3	56.4
FAES 1314	20.0	35.0	50.0	53.3	80.0	94.7	55.5
10-TZ-1254	18.3	31.7	46.7	60.0	80.0	90.0	54.4
09-TZ-54-9	13.3	23.3	38.3	68.3	83.0	92.7	53.2
FAES 1312	25.0	36.7	43.3	61.7	66.7	85.0	53.1
FAES 1316	20.0	26.7	40.0	56.7	73.3	90.0	51.1
FAES 1313	18.3	28.3	36.7	58.3	70.0	93.0	50.8
ZEON	16.7	30.0	40.0	53.3	73.3	86.3	49.9
FAES 1328	16.7	28.3	35.0	50.0	63.3	93.0	47.7
CSZ 1109	21.7	30.0	36.7	50.0	63.3	81.7	47.2
FAES 1308	20.0	26.7	36.7	53.3	63.3	78.3	46.4
FAES 1315	18.3	20.0	30.0	36.7	70.0	91.7	44.4
MEYER	20.0	31.7	36.7	40.0	60.0	76.7	44.2
09-TZ-53-20	10.0	21.7	30.0	46.7	63.3	86.7	43.1
A-1	10.0	21.7	33.3	43.3	56.7	76.7	40.3
FAES 1309	13.3	18.3	26.7	43.3	56.7	80.0	39.7
FAES 1305	13.3	23.3	26.7	36.7	56.7	80.0	39.4
DALZ 1301	16.7	25.0	30.0	36.7	50.0	73.3	38.6
FAES 1304	18.3	20.0	26.7	33.3	46.7	68.3	35.6
11-TZ-4321	10.0	16.7	18.3	31.7	46.7	75.0	33.1
KSUZ 1201	10.0	21.7	25.0	31.7	43.3	58.3	31.7
LSD VALUE	7.2	15.4	19.1	19.3	17.8	16.3	12.8
C.V. (%)	22.1	27.3	25.9	20.3	15.1	10.7	15.2

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/ 2013-2014 DATA

TABLE 45. WINTER DAMAGE RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2014 DATA

WINTER DAMAGE RATINGS 1-9; 9=NO DAMAGE 2/ 3/

NAME	AL1
09-TZ-54-9	9.0
10-TZ-35	9.0
A-1	9.0
DALZ 1301	9.0
DALZ 1302	9.0
EMPIRE	9.0
FAES 1304	9.0
FAES 1312	9.0
FAES 1318	9.0
KSUZ 1201	9.0
MEYER	9.0
FAES 1305	8.7
FAES 1316	8.7
10-TZ-1254	8.3
11-TZ-4321	8.3
FAES 1313	8.3
FAES 1319	8.3
FAES 1328	8.3
FAES 1314	8.0
FAES 1317	8.0
ZEON	8.0
FAES 1307	7.0
FAES 1329	6.7
FAES 1315	6.3
GGZ 504	6.0
CSZ 1105	5.7
09-TZ-53-20	5.3
DALZ 1303	5.0
FAES 1322	4.0
CSZ 1109	3.7
FAES 1310	3.7
FAES 1308	2.7
FAES 1309	2.7
FAES 1303	2.3
FAES 1306	2.3
LSD VALUE	1.3
C.V. (%)	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.

3/ 2014 DATA



TABLE 46.

SEEDHEAD RATINGS OF ZOYSIAGRASS CULTIVARS  
AT DALLAS, TX 1/  
2015 AND 2017 DATA

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

NAME	SEPTEMBER 2015	OCTOBER 2015	MARCH 2017	MAY 2017	SEPTEMBER 2017	MEAN
DALZ 1301	9.0	8.7	9.0	9.0	9.0	8.9
FAES 1313	9.0	9.0	9.0	7.7	9.0	8.8
CSZ 1105	9.0	9.0	8.7	8.0	8.7	8.7
ZEON	9.0	9.0	7.7	8.7	8.7	8.7
FAES 1328	9.0	8.7	9.0	6.7	7.3	8.3
CSZ 1109	9.0	9.0	7.7	7.0	7.7	8.2
FAES 1308	7.3	8.3	9.0	7.7	9.0	8.2
FAES 1312	9.0	9.0	7.0	7.0	8.3	8.2
FAES 1315	9.0	8.7	8.7	7.0	6.7	8.1
EMPIRE	9.0	8.7	8.0	6.7	6.7	8.0
FAES 1306	8.3	8.7	8.7	7.7	5.3	7.9
11-TZ-4321	9.0	9.0	6.3	4.3	8.3	7.7
FAES 1307	8.0	8.7	5.7	7.0	8.7	7.7
KSUZ 1201	9.0	8.3	5.3	5.7	9.0	7.7
FAES 1303	8.3	8.0	6.7	6.7	7.0	7.5
FAES 1305	9.0	8.7	4.0	8.0	6.3	7.5
10-TZ-35	8.3	8.7	7.7	5.7	5.7	7.4
A-1	9.0	6.3	4.7	8.0	8.7	7.4
FAES 1322	8.3	8.3	8.7	6.0	5.0	7.4
MEYER	9.0	9.0	5.0	4.7	8.0	7.4
DALZ 1303	8.3	8.3	4.3	7.3	7.3	7.3
FAES 1316	9.0	9.0	4.7	4.7	7.7	7.3
DALZ 1302	9.0	8.7	5.3	4.3	6.3	7.1
FAES 1310	8.3	7.7	7.7	5.7	5.0	7.1
FAES 1317	9.0	9.0	4.7	4.0	7.0	7.1
FAES 1304	9.0	8.0	3.0	5.0	7.7	6.9
FAES 1314	7.3	8.0	6.0	4.0	7.7	6.8
FAES 1319	7.7	8.7	3.0	5.0	7.0	6.6
10-TZ-1254	9.0	8.0	4.3	3.7	5.3	6.5
09-TZ-54-9	9.0	7.0	1.3	6.7	5.7	6.3
FAES 1318	9.0	8.0	2.3	3.7	6.0	6.3
FAES 1309	9.0	7.0	5.3	3.3	2.0	5.8
FAES 1329	3.7	6.3	5.7	7.0	5.7	5.6
09-TZ-53-20	6.7	6.7	4.3	4.3	2.0	5.1
GGZ 504	5.3	6.3	5.7	4.3	2.3	5.0
LSD VALUE	1.5	1.4	2.4	1.4	2.4	1.9
C.V. (%)	10.7	9.7	24.7	15.1	21.9	20.3

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/ 2015 AND 2017 DATA

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR ZOYSIAGRASS CULTIVARS  
2014-17 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
09-TZ-53-20	5.0	21.4
09-TZ-54-9	6.0	21.4
10-TZ-1254	5.6	21.4
10-TZ-35	5.7	7.1
11-TZ-4321	5.9	28.6
A-1	5.7	15.4
CSZ 1105	5.1	0.0
CSZ 1109	4.6	7.1
DALZ 1301	6.2	57.1
DALZ 1302	5.9	28.6
DALZ 1303	5.5	35.7
EMPIRE	5.5	14.3
FAES 1303	5.0	7.1
FAES 1304	5.9	28.6
FAES 1305	6.5	64.3
FAES 1306	5.0	14.3
FAES 1307	5.7	21.4
FAES 1308	4.5	7.1
FAES 1309	4.4	7.1
FAES 1310	4.9	14.3
FAES 1312	6.2	57.1
FAES 1313	6.0	28.6
FAES 1314	5.3	7.1
FAES 1315	5.3	7.1
FAES 1316	5.4	21.4
FAES 1317	5.4	14.3
FAES 1318	5.5	0.0
FAES 1319	6.3	85.7
FAES 1322	5.2	21.4
FAES 1328	5.3	0.0
FAES 1329	5.7	28.6
GGZ 504	4.9	0.0
KSUZ 1201	5.9	35.7
MEYER	5.4	21.4
ZEON	6.0	50.0
LSD VALUE	0.3	
C.V. (%)	11.0	

- \*/ 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.