NATIONAL TURFGRASS EVALUATION PROGRAM

The National Turfgrass Evaluation Program (NTEP) is designed to develop and coordinate uniform evaluation trials of turfgrass varieties and promising selections in the United States and Canada. Test results can be used by national companies and plant breeders to determine the broad picture of the adaptation of a cultivar. Results can also be used to determine if a cultivar is well adapted to a local area or level of turf maintenance.

Briefly, the NTEP is a self-supporting, non-profit program, sponsored by the Beltsville Agricultural Research Center and the National Turfgrass Federation, Inc. Program policy is made by a policy committee consisting of one member from each of the four (4) Regional Turfgrass Research Committees in the United States, one member from the Lawn Seed Division of the American Seed Trade Association, one member from the United States Golf Association (USGA) Green Section, one member from the Golf Course Superintendents Assoc. of America (GCSAA), one member for the Turfgrass Producers International (TPI), one member from the Turfgrass Breeders Association and an executive director. The program does not make variety recommendations. However, the data from tests can be used by extension specialists and others for making recommendations.

The policy committee is responsible for determining program policy including, (1) requirements for submission of entries, (2) scheduling tests, (3) evaluation methods, (4) selecting standard or control test entries, (5) setting entry fees, (6) coordinating tests in their respective regions, (7) establishing guidelines for publication and data distribution and (8) scheduling committee meetings.

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

CURRENT POLICY COMMITTEE MEMBERS:

Mr. Bill Dunn, Seed Research of Oregon, Inc.
Mr. Ryan Jeffries, Columbia Seeds, Inc.
Dr. Mike Kenna, USGA Green Section
Dr. Jason Kruse, University of Florida
Dr. David Kopec, University of Arizona
Mr. Gary Wilbur, Oakwood Sod Farms
Mr. Mark Johnson, Golf Course Superintendents Assoc. of America
Dr. Eric Watkins, University of Minnesota
Mr. Steve Reid, DLF Pickseed USA
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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 WARM-SEASON PUTTING GREEN TEST

LOCATIONS SUBMITTING DATA FOR 2015

State	Location	Code
Alabama	Auburn	Al1
Arizona	Tucson (Drought)	AZ1
Arkansas	Fayetteville	AR1
Arkansas	Fayetteville (Traffic)	AR2
California	Riverside (Shade)	CA3
Florida	Jay	FL3
Florida	Citra	FL4
Georgia	Griffin	GA1
Illinois	Carbondale (Shade)	IL2
Indiana	West Lafayette	IN1
Kansas	Manhattan	KS1
Missouri	Columbia	MO1
North Carolina	Raleigh	NC1
North Carolina	Raleigh (Traffic)	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

*** COMMERCIALLY AVAILABLE IN THE USA IN 2016**

1/ Due to the unusually harsh winter of 2013, please note that some entries were replanted in spring/summer 2015 at selected locations (see next page).

PLEASE NOTE:

Due to the unusually harsh winter of 2013/2015, 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 2015. Therefore, please consider 2015 data from these locations with these considerations.

Carbondale, IL

THE FOLLOWING ENTRIES WERE REPLANTED IN SPRING 2015:

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 2015:

CSZ 1109, FAES 1308, FAES 1309

Griffin, GA

ALL ENTRIES WERE REPLANTED IN SPRING 2015.

W. Lafayette, IN

ALL ENTRIES WERE REPLANTED IN SPRING 2015.

Columbia, MO

ALL ENTRIES EXCEPT THE FOLLOWING TWO WERE REPLANTED IN SPRING 2015:

MEYER, KSUZ 1201

TABLE A. 2015 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	UNIFORM SHADE	0.6-1.0	TO PREVENT STRESS
FL3	-	-	-	-	-	-	-	-
FL4	-	-	-	-	-	-	-	-
GA1	SANDY LOAM	4.6-5.5	0-60	0-150	4.1-5.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
IL2	-	-	-	-	-	-	-	-
IN1	SILT LOAM AND SILT	6.6-7.0	0-60	151-240	-	FULL SUN	0.0-0.5	TO PREVENT STRESS
KS1	-	-	-	-	-	-	-	-
MO1	-	-	-	-	-	-	-	-
NC1	SILTY CLAY LOAM	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NC2	SILTY CLAY LOAM	6.1-6.5	61-150	0-150	3.1-4.0	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	-	8.6+	-	-	-	FULL SUN	-	TO PREVENT STRESS

TABLE B. LOCATIONS AND DATA COLLECTED IN 2015

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
AR1					X	X	X	X	X				X	X	X
AR2				X	X	X	X	X	X				X	X	
AZ1				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	
FL4	X	X	X	X	X	X	X	X	X	X		X	X	X	
GA1					X	X	X	X	X	X	X	X	X	X	
IL2														X	
IN1					X	X	X		X					X	X
KS1					X	X	X	X	X					X	
MO1				X	X	X	X	X	X	X					
NC1					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
TX2							X	X	X	X	X		X		X

TABLE B. (CONT'D) LOCATIONS AND DATA COLLECTED IN 2015

SEEDHEAD LOCATION	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	PERCENT WINTER KILL	DOLLAR SPOT	FALL COLOR COLORSEP	FALL COLOR COLOROCT	FALL COLOR COLORNOV	FALL COLOR COLORDEC	SPRING COLOR	PERCENT DOLLAR SPOT	SEP	OCT
AL1																	
AR1	X		X														
AR2																	
AZ1	X	X	X	X	X	X						X	X				
CA3	X	X	X	X	X	X	X										
FL3	X	X	X							X	X			X			
FL4	X	X	X	X	X	X	X			X	X		X		X		
GA1		X		X					X	X	X	X	X				
* IL2																	
IN1					X												
KS1								X			X						
MO1																	
NC1	X	X	X	X	X	X			X		X		X				
* NC2																	
TN1				X	X	X					X	X	X				
TX1	X	X	X		X	X	X									X	X
* TX2												X	X				

* MORE DATA FOR IL2, NC2 AND TX2 IN TABLE 8, 6 ANF 10.

TABLE 1. TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2015 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	IN1	MO1	KS1	MEAN
* MEYER	7.9	6.2	6.6	6.9
KSUZ 1201	7.7	5.9	7.2	6.9
FAES 1305	7.0	4.9	6.5	6.1
DALZ 1301	6.0	5.4	6.3	5.9
FAES 1312	7.1	2.5	5.4	5.0
11-TZ-4321	4.7	3.2	5.0	4.3
FAES 1304	5.1	1.3	5.6	4.0
* ZEON	4.6	1.1	5.8	3.8
DALZ 1302	5.8	1.0	4.6	3.8
FAES 1319	1.8	3.2	5.8	3.6
10-TZ-35	4.6	1.1	4.7	3.5
09-TZ-54-9	4.0	1.1	4.9	3.4
* EMPIRE	2.6	0.9	4.9	2.8
FAES 1313	2.5	1.0	4.3	2.6
* A-1	2.8	1.0	3.7	2.5
FAES 1307	1.7	0.9	4.9	2.5
FAES 1328	0.9	1.2	4.9	2.3
FAES 1318	1.0	1.1	4.8	2.3
FAES 1329	2.7	0.9	3.3	2.3
FAES 1317	1.0	1.0	4.5	2.2
10-TZ-1254	1.0	0.8	4.0	2.0
FAES 1315	1.0	0.9	3.7	1.9
FAES 1314	1.0	0.9	3.7	1.9
FAES 1316	1.3	1.0	3.3	1.8
GGZ 504	0.9	1.1	3.4	1.8
FAES 1308	1.0	1.8	2.0	1.6
CSZ 1105	1.0	1.0	2.4	1.5
FAES 1303	0.9	1.2	2.1	1.4
DALZ 1303	1.1	1.2	1.9	1.4
FAES 1306	1.1	1.2	1.9	1.4
09-TZ-53-20	1.0	0.9	2.0	1.3
FAES 1322	1.0	0.9	1.9	1.3
FAES 1310	1.0	1.0	1.7	1.2
CSZ 1109	0.9	1.3	1.3	1.2
FAES 1309	1.0	1.0	1.4	1.1
LSD VALUE	1.2	1.2	1.2	1.2
C.V. (%)	26.2	41.1	18.1	25.5

*/ COMMERCIALLY AVAILABLE IN THE USA IN 2016
**/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF
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. TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2015 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NC1	FL4	AL1	MEAN
09-TZ-54-9	6.8	5.5	5.7	6.0
FAES 1312	6.7	5.4	5.7	5.9
FAES 1319	6.3	5.3	5.6	5.8
FAES 1305	6.5	5.1	5.4	5.7
DALZ 1302	6.5	5.1	5.4	5.6
ZEON	6.8	4.7	5.4	5.6
FAES 1307	6.4	5.0	5.4	5.6
FAES 1313	6.2	5.3	5.2	5.6
FAES 1329	5.9	5.6	5.0	5.5
10-TZ-1254	5.9	5.2	5.2	5.5
11-TZ-4321	5.9	5.1	5.2	5.4
A-1	6.0	5.3	4.8	5.4
DALZ 1303	5.3	6.0	4.7	5.3
DALZ 1301	6.0	4.9	5.1	5.3
FAES 1304	6.4	4.4	5.1	5.3
FAES 1315	5.6	5.1	5.1	5.3
FAES 1316	5.6	5.3	4.8	5.2
09-TZ-53-20	5.1	5.7	4.8	5.2
10-TZ-35	6.0	4.5	5.0	5.2
FAES 1314	5.5	5.0	5.0	5.1
EMPIRE	6.0	4.4	5.0	5.1
FAES 1317	5.7	4.6	5.0	5.1
FAES 1322	5.1	5.7	4.5	5.1
FAES 1328	5.7	4.4	4.9	5.0
FAES 1318	5.7	4.4	4.8	4.9
CSZ 1105	5.0	5.2	4.4	4.9
KSUZ 1201	5.8	4.0	4.7	4.8
FAES 1303	4.9	5.3	4.2	4.8
FAES 1306	4.8	5.2	4.1	4.7
FAES 1310	4.6	5.1	4.1	4.6
FAES 1309	4.1	5.0	4.5	4.5
GGZ 504	4.9	4.3	4.2	4.5
FAES 1308	4.3	4.9	4.2	4.5
CSZ 1109	4.1	4.9	3.9	4.3
MEYER	5.0	3.4	4.0	4.2
LSD VALUE	1.2	1.2	1.2	1.2
C.V. (%)	12.8	14.5	14.9	14.0

*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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. TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2015 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	FL3	TN1	TX1	MEAN
FAES 1319	6.8	7.0	7.5	7.1
09-TZ-54-9	6.6	6.7	7.4	6.9
FAES 1312	6.6	6.7	7.3	6.9
FAES 1305	6.4	6.8	7.1	6.8
11-TZ-4321	6.4	6.5	7.2	6.7
DALZ 1301	6.3	6.7	7.0	6.7
FAES 1307	6.4	6.5	7.0	6.6
10-TZ-1254	6.3	6.4	7.2	6.6
FAES 1315	6.3	6.2	7.3	6.6
09-TZ-53-20	6.0	6.0	7.5	6.5
FAES 1313	6.1	6.3	7.0	6.5
DALZ 1302	6.1	6.3	6.9	6.5
FAES 1314	6.1	6.1	7.1	6.4
DALZ 1303	5.8	6.0	7.4	6.4
FAES 1329	5.9	6.1	7.1	6.4
FAES 1317	6.1	6.2	6.8	6.4
ZEON	6.1	6.4	6.6	6.3
FAES 1316	5.9	6.0	7.0	6.3
FAES 1309	5.9	5.6	7.4	6.3
FAES 1328	6.0	6.1	6.6	6.2
KSUZ 1201	5.9	6.4	6.3	6.2
EMPIRE	5.9	6.1	6.5	6.2
FAES 1322	5.6	5.8	7.2	6.2
A-1	5.7	6.0	6.8	6.1
FAES 1304	5.9	6.1	6.4	6.1
FAES 1318	5.8	6.0	6.4	6.1
10-TZ-35	5.8	6.0	6.5	6.1
CSZ 1105	5.5	5.7	6.9	6.0
FAES 1308	5.5	5.5	6.9	6.0
FAES 1303	5.3	5.6	6.8	5.9
FAES 1310	5.3	5.4	6.8	5.8
FAES 1306	5.2	5.4	6.7	5.8
GGZ 504	5.3	5.5	6.3	5.7
CSZ 1109	5.1	5.2	6.7	5.7
MEYER	5.3	5.8	5.7	5.6
LSD VALUE	1.2	1.2	1.2	1.2
C.V. (%)	12.2	11.9	10.5	11.5

*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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 4. TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 4 */
2014 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	GA1	AR1	MEAN
FAES 1305	6.2	8.2	7.2
A-1	5.8	8.2	7.0
FAES 1319	6.1	7.4	6.8
DALZ 1301	6.0	7.5	6.7
ZEON	5.7	7.7	6.7
09-TZ-54-9	6.1	7.1	6.6
FAES 1329	5.8	7.4	6.6
FAES 1313	5.8	7.3	6.6
DALZ 1303	5.8	7.1	6.5
KSUZ 1201	5.5	7.4	6.4
FAES 1312	6.1	6.5	6.3
FAES 1307	5.7	6.8	6.2
FAES 1304	5.4	6.8	6.1
FAES 1306	5.2	6.8	6.0
FAES 1322	5.5	6.5	6.0
FAES 1316	5.5	6.5	6.0
11-TZ-4321	5.8	6.2	6.0
FAES 1303	5.3	6.6	5.9
10-TZ-1254	5.6	6.2	5.9
MEYER	4.9	6.8	5.9
DALZ 1302	5.7	6.1	5.9
FAES 1318	5.2	6.5	5.8
FAES 1328	5.2	6.2	5.7
CSZ 1105	5.3	6.1	5.7
EMPIRE	5.2	6.0	5.6
10-TZ-35	5.2	5.9	5.6
FAES 1317	5.2	5.6	5.4
FAES 1310	5.0	5.6	5.3
GGZ 504	4.8	5.7	5.3
FAES 1314	5.3	5.1	5.2
09-TZ-53-20	5.4	4.7	5.0
FAES 1315	5.3	4.7	5.0
CSZ 1109	4.7	4.5	4.6
FAES 1308	4.8	3.9	4.3
FAES 1309	4.6	1.4	3.0
LSD VALUE	1.2	1.2	1.2
C.V. (%)	13.3	11.6	12.4

*/ ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS LPI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE A LPI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON LPI, GO TO WWW.NTEP.ORG/LPI_Q&A.PDF

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. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS GROWN UNDER TRAFFIC STRESS AT FAYETTEVILLE, AR 1/
2015 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	QUALITY RATINGS APR	MAY	JUN	JUL	AUG	SEP	MEAN
ZEON	6.7	7.7	7.3	7.7	7.7	8.0	8.0	8.7	7.9
FAES 1305	7.3	7.7	7.0	6.7	8.0	8.0	8.3	9.0	7.8
09-TZ-54-9	7.7	8.0	7.3	7.0	7.7	8.0	7.0	8.0	7.5
DALZ 1301	7.0	7.0	6.0	6.0	7.7	8.0	7.7	8.3	7.3
A-1	7.0	7.3	5.3	5.7	7.3	8.3	8.0	8.7	7.2
FAES 1304	8.0	8.0	6.7	6.3	7.0	7.3	7.3	7.7	7.1
FAES 1316	8.3	8.0	7.0	6.7	6.3	7.0	7.0	7.3	6.9
FAES 1319	8.0	7.7	6.7	6.0	7.0	7.0	7.0	7.0	6.8
FAES 1306	8.0	2.7	3.0	5.0	7.3	7.3	9.0	8.7	6.7
FAES 1307	8.0	6.7	5.0	6.3	7.0	7.0	7.0	8.0	6.7
FAES 1313	8.0	7.3	5.7	5.7	7.0	6.7	7.0	8.0	6.7
FAES 1318	7.3	7.7	6.7	6.3	6.3	6.7	6.7	7.3	6.7
FAES 1329	8.3	6.0	4.0	5.3	7.3	7.7	8.0	8.0	6.7
KSUZ 1201	7.0	7.7	6.7	6.0	6.7	6.3	7.0	7.3	6.7
MEYER	8.0	8.0	7.0	6.3	6.3	6.7	6.7	7.3	6.7
FAES 1328	7.7	8.0	7.0	6.3	6.0	7.0	6.3	6.7	6.6
DALZ 1303	7.0	7.3	5.3	5.0	6.7	6.7	7.7	7.7	6.5
FAES 1312	7.7	7.3	6.0	6.3	7.0	6.3	6.7	6.7	6.5
FAES 1317	7.7	5.3	5.0	6.0	6.7	6.3	7.7	7.0	6.4
09-TZ-53-20	7.3	7.0	5.7	5.3	6.3	7.0	7.0	6.7	6.3
FAES 1315	7.3	7.3	5.3	5.7	6.3	7.0	6.7	7.0	6.3
FAES 1322	8.0	6.7	4.7	5.3	6.3	6.3	6.7	7.0	6.1
10-TZ-1254	7.7	7.7	6.0	5.3	5.7	6.0	6.3	6.7	6.0
DALZ 1302	7.3	7.3	5.7	6.0	6.0	6.7	6.0	5.7	6.0
FAES 1303	8.0	3.0	2.7	5.0	5.3	6.7	7.7	8.3	5.9
11-TZ-4321	8.3	5.7	4.7	5.3	6.0	6.0	6.0	6.7	5.8
10-TZ-35	7.3	7.3	6.0	5.7	5.7	5.3	5.7	5.7	5.7
GGZ 504	7.7	3.3	3.0	4.7	6.0	6.7	6.3	7.3	5.7
CSZ 1105	7.7	3.3	2.7	4.7	5.7	6.0	7.0	7.7	5.6
FAES 1310	8.0	3.7	2.7	4.7	5.3	5.0	7.0	7.7	5.5
CSZ 1109	8.0	3.3	3.0	4.0	5.0	6.0	6.3	7.7	5.3
FAES 1308	7.7	5.0	2.7	4.0	5.3	6.0	6.0	7.7	5.3
EMPIRE	8.0	6.7	4.7	4.7	5.0	5.7	5.3	6.0	5.2
FAES 1314	7.0	5.3	4.3	5.0	5.3	5.7	5.3	5.3	5.2
FAES 1309	3.3	3.0	2.3	2.0	2.7	3.0	3.0	3.0	2.7
LSD VALUE	1.5	1.7	1.3	1.6	1.9	1.9	1.8	1.7	1.4
C.V. (%)	11.1	17.6	16.7	16.7	16.4	15.7	15.2	13.8	13.5

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

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

TABLE 6. PERCENT GROUND LIVING COVER RATINGS OF ZOYSIAGRASS CULTIVARS 1/
GROWN UNDER TRAFFIC STRESS AT RALEIGH, NC 2/
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.

TABLE 6. (CONT'D) PERCENT GROUND LIVING COVER RATINGS OF ZOYSIAGRASS CULTIVARS 1/
GROWN UNDER TRAFFIC STRESS AT RALEIGH, NC 2/
2014 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.

TABLE 7. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS GROWN UNDER SHADE AT RIVERSIDE, CA 1/
2015 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	DENSITY SPRING	DENSITY SUMMER	DENSITY FALL	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	QUALITY RATINGS JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
09-TZ-54-9	7.0	6.0	7.0	7.3	5.7	90.0	99.0	96.0	6.3	6.0	6.0	6.0	6.0	6.7	6.7	6.7	7.3	7.3	6.3	5.7	6.3	6.4
09-TZ-53-20	7.3	6.0	7.0	7.0	6.0	88.3	99.0	99.0	7.0	5.0	5.0	6.0	6.0	6.7	6.3	6.3	7.0	7.3	6.7	6.0	7.0	6.3
DALZ 1301	7.3	5.0	7.3	6.7	5.3	90.0	99.0	91.7	6.3	5.3	5.7	5.0	6.0	7.3	6.7	6.7	6.7	6.7	6.3	5.3	6.3	6.2
DALZ 1303	6.7	5.7	7.0	6.7	5.0	94.7	99.0	97.7	6.7	4.7	5.3	5.7	6.3	6.7	6.3	6.3	6.7	6.7	6.3	5.0	6.7	6.1
FAES 1307	7.0	6.3	6.0	5.7	5.7	91.0	99.0	95.0	6.3	5.3	6.3	6.0	6.3	6.3	6.3	6.0	5.7	5.7	6.0	5.7	6.3	6.0
FAES 1318	6.7	5.7	6.7	7.0	4.7	91.3	98.7	93.3	5.7	4.7	5.0	6.3	5.7	6.7	6.7	6.7	7.0	7.0	6.3	4.7	5.7	6.0
FAES 1303	7.3	6.0	6.3	6.0	4.7	92.7	99.0	97.7	6.7	5.0	5.3	5.7	6.7	6.7	6.3	6.0	6.0	6.3	6.0	4.7	6.7	5.9
FAES 1306	7.3	6.3	6.3	6.0	5.0	91.7	99.0	93.3	7.0	5.0	5.7	6.0	5.7	6.7	6.3	6.0	6.0	6.0	6.0	5.0	7.0	5.9
FAES 1310	7.0	5.0	6.7	6.3	5.3	91.3	99.0	95.0	6.7	4.7	5.0	5.7	6.0	6.3	6.0	6.3	6.3	6.3	6.0	5.3	6.7	5.9
FAES 1329	7.3	6.3	6.7	6.3	5.3	97.7	99.0	97.7	6.7	4.3	5.0	6.0	5.7	6.7	6.7	6.3	6.3	6.3	6.0	5.3	6.7	5.9
FAES 1315	7.0	6.0	6.3	5.7	5.0	99.0	97.7	94.7	6.3	4.3	5.7	6.0	6.3	6.7	6.3	6.0	5.7	5.7	5.7	5.0	6.3	5.8
FAES 1305	7.0	5.3	6.7	6.0	5.0	86.7	97.7	96.3	6.0	5.0	5.0	5.0	5.7	6.7	6.7	6.0	6.0	5.7	5.7	5.0	6.0	5.7
DALZ 1302	6.3	5.7	6.0	6.0	5.7	76.7	97.7	95.0	6.0	4.3	4.7	5.0	5.3	6.3	6.3	6.0	6.0	6.0	5.7	5.7	6.0	5.6
FAES 1309	6.7	5.0	6.3	5.7	5.3	90.0	99.0	96.0	6.7	4.3	4.3	5.0	5.7	6.3	6.0	6.0	5.7	5.7	5.7	5.3	6.7	5.6
FAES 1319	6.0	7.0	6.0	5.0	5.0	97.7	99.0	99.0	5.7	5.0	5.7	6.7	6.0	6.0	6.0	6.0	5.0	5.0	5.0	5.0	5.7	5.6
10-TZ-35	6.7	5.3	6.0	6.0	5.7	76.7	99.0	99.0	5.3	4.0	4.3	5.3	6.0	6.3	6.0	6.0	6.0	5.7	5.7	5.7	5.3	5.5
11-TZ-4321	7.3	5.7	6.3	6.0	4.0	80.0	96.3	96.3	5.0	5.0	5.0	5.7	5.7	6.3	6.3	6.0	6.0	5.7	5.0	4.0	5.0	5.5
CSZ 1105	5.7	6.0	5.7	6.0	5.0	91.7	99.0	99.0	5.7	4.0	5.0	6.3	6.0	5.7	5.7	5.7	6.0	5.7	5.7	5.0	5.7	5.5
CSZ 1109	6.7	4.3	6.0	6.0	5.0	83.3	97.3	96.3	7.0	5.0	4.0	4.0	4.7	6.3	6.0	6.0	6.0	6.0	6.0	5.0	7.0	5.5
FAES 1304	6.0	4.7	6.0	5.7	5.7	90.0	99.0	94.7	6.0	4.7	4.7	4.7	5.0	6.0	5.7	6.0	5.7	6.0	5.7	5.7	6.0	5.5
FAES 1308	7.0	4.3	6.0	6.3	5.0	80.0	96.3	90.0	6.3	4.3	4.3	5.0	4.7	5.7	5.7	6.0	6.3	6.3	6.0	5.0	6.3	5.5
FAES 1328	7.3	4.7	6.7	5.7	5.0	88.0	99.0	96.3	5.7	4.7	4.3	5.0	6.0	7.0	6.7	6.0	5.7	5.3	5.0	5.0	5.7	5.5
FAES 1312	6.7	5.0	6.0	5.3	4.7	93.3	98.7	94.7	5.3	4.7	4.7	5.7	6.3	6.0	6.0	5.7	5.3	5.0	5.3	4.7	5.3	5.4
FAES 1322	7.3	4.7	6.3	5.7	5.0	86.7	99.0	96.3	5.7	4.3	4.7	4.3	5.0	6.7	6.0	6.3	5.7	5.7	5.7	5.0	5.7	5.4
10-TZ-1254	6.0	5.0	6.0	5.3	5.0	86.7	97.7	97.7	5.7	4.0	4.7	5.3	5.0	6.0	6.0	6.0	5.3	5.3	5.3	5.0	5.7	5.3
FAES 1314	6.3	5.0	6.3	5.3	4.7	78.0	99.0	99.0	6.0	4.3	4.3	5.0	5.3	6.3	6.0	6.0	5.3	5.3	5.0	4.7	6.0	5.3
ZEON	6.7	5.3	5.7	5.3	5.0	97.7	97.7	97.7	6.0	5.0	4.7	5.0	5.0	6.3	5.7	5.7	5.3	5.0	5.0	5.0	6.0	5.3
EMPIRE	6.3	4.7	6.0	5.3	5.0	83.3	99.0	97.7	5.3	4.0	4.3	4.7	5.0	6.0	6.0	6.0	5.3	5.3	5.0	5.0	5.3	5.2
FAES 1313	5.7	5.3	5.7	5.0	4.0	83.3	99.0	96.3	5.7	5.0	5.7	5.3	4.3	6.0	6.0	5.7	5.0	4.7	4.7	4.0	5.7	5.2
A-1	6.3	4.3	6.0	5.3	4.7	60.0	86.3	89.7	5.7	4.0	4.0	4.7	5.0	6.0	5.7	5.7	5.3	5.3	5.0	4.7	5.7	5.1
FAES 1317	6.0	5.3	6.0	5.3	4.7	93.0	99.0	96.3	6.0	4.3	4.3	4.7	4.0	6.0	6.0	6.0	5.3	5.3	5.0	4.7	6.0	5.1
KSUZ 1201	7.0	4.3	6.0	5.7	3.3	70.0	96.3	93.0	5.0	4.3	4.7	4.7	5.0	6.0	6.0	6.0	5.7	5.7	5.0	3.3	5.0	5.1
GGZ 504	5.7	4.7	4.3	4.7	5.0	81.7	99.0	97.7	6.0	4.3	4.7	5.0	4.0	4.7	5.0	4.7	4.7	4.7	5.3	5.0	6.0	4.8
FAES 1316	5.0	5.7	5.7	5.3	3.0	83.3	99.0	61.7	3.7	4.3	5.0	5.3	4.7	5.0	5.0	5.7	5.3	5.0	4.0	3.0	3.7	4.7
MEYER	5.7	4.7	5.0	5.3	3.3	75.0	94.7	94.7	4.0	4.3	4.0	4.7	4.7	5.3	5.3	5.3	5.3	5.0	4.7	3.3	4.0	4.7
LSD VALUE	0.8	1.0	1.2	1.1	0.8	17.5	5.9	27.2	1.0	0.8	0.8	1.3	2.7	1.2	1.1	0.8	1.1	1.4	0.9	0.8	1.0	0.5
C.V. (%)	7.4	10.8	10.1	10.6	10.6	10.6	2.9	10.1	10.1	9.9	10.3	12.7	18.6	9.7	8.8	7.1	10.6	12.9	9.6	10.6	10.1	5.7

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 8. PERCENT GROUND LIVING COVER AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS 1/
GROWN UNDER SHADE AT CARBONDALE, IL 2/

2015 DATA

SPRING GREENUP RATINGS 1-9; 9=COMPLETELY GREEN

	SPRING	PERCENT GROUND LIVING COVER RATINGS IN 2014					PERCENT GROUND LIVING COVER RATINGS IN 2015						
NAME	GREENUP	MAY	JUNE	AUGUST	SEPTEMBER	OCTOBER	APRIL	MAY	JUNE	JULY	AUGUST	OCT_1	OCT_29
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 9. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS GROWN UNDER DROUGHT STRESS AT TUCSON, AZ 1/
2015 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	DENSITY SPRING	DENSITY SUMMER	DENSITY FALL	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	FALL COLOR NOVEMBER	FALL COLOR DECEMBER	QUALITY RATINGS APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
A-1	5.7	7.7	8.0	7.7	9.0	99.0	99.0	98.7	9.0	4.7	7.0	6.3	8.3	7.7	8.7	8.0	6.3	8.3	7.6
FAES 1310	4.7	8.0	8.7	8.7	9.0	99.0	97.7	92.3	7.7	2.3	7.0	5.0	9.0	8.7	9.0	8.7	5.0	6.7	7.4
FAES 1306	4.7	7.7	9.0	8.3	9.0	99.0	99.0	87.7	6.7	1.7	7.0	6.0	9.0	8.3	9.0	8.3	5.3	5.7	7.3
FAES 1308	5.0	8.7	9.0	8.7	9.0	96.0	97.7	76.7	7.7	2.3	5.7	5.7	9.0	8.0	9.0	8.3	6.0	6.7	7.3
FAES 1319	6.0	6.0	7.7	7.0	7.3	99.0	99.0	94.0	8.3	3.0	7.0	6.7	7.7	7.3	8.0	7.3	7.0	7.7	7.3
DALZ 1303	4.0	7.3	8.7	8.3	8.7	99.0	99.0	86.7	7.0	2.0	6.7	5.0	8.3	8.3	9.0	9.0	5.0	6.0	7.2
FAES 1303	5.3	8.3	9.0	9.0	8.7	99.0	99.0	82.3	7.0	2.0	5.3	5.7	9.0	8.3	9.0	9.0	5.3	6.0	7.2
FAES 1307	5.0	6.3	7.7	7.3	7.3	99.0	99.0	95.3	8.3	3.0	6.7	5.7	8.0	7.0	8.0	7.3	6.7	7.3	7.1
EMPIRE	6.0	4.0	6.3	6.0	6.0	99.0	99.0	89.3	6.3	2.3	6.0	7.7	7.0	6.7	7.7	7.0	8.0	5.7	7.0
FAES 1309	5.7	7.3	8.3	7.3	9.0	99.0	99.0	75.0	6.3	1.3	7.0	5.7	8.3	8.0	8.7	8.3	4.7	5.3	7.0
FAES 1314	6.3	6.0	7.7	7.3	7.3	99.0	99.0	94.7	7.7	3.7	6.3	6.3	7.3	7.3	7.0	7.0	8.0	6.7	7.0
FAES 1318	6.0	5.7	7.0	7.0	7.0	99.0	99.0	90.7	6.7	3.3	6.0	6.3	7.7	6.7	7.3	7.7	8.0	6.7	7.0
FAES 1312	4.0	5.0	6.7	6.7	6.0	94.3	94.3	94.0	8.0	3.7	6.0	6.7	7.3	6.7	7.3	7.3	7.3	6.7	6.9
FAES 1328	6.3	4.7	7.0	6.3	5.7	99.0	99.0	90.0	8.3	3.0	6.0	7.3	7.0	6.7	7.3	7.0	7.7	6.3	6.9
FAES 1305	4.7	6.7	8.7	8.0	8.7	93.0	91.3	98.0	9.0	4.3	7.0	5.3	7.0	7.0	7.7	6.7	6.3	7.7	6.8
FAES 1313	4.7	6.3	7.7	7.3	6.7	99.0	99.0	97.7	8.0	4.3	5.7	5.7	7.3	6.7	7.7	7.7	7.3	6.3	6.8
09-TZ-53-20	4.7	5.7	7.7	8.0	7.7	94.3	97.7	89.0	7.7	2.3	6.7	6.3	7.7	6.3	7.3	7.0	6.3	6.0	6.7
CSZ 1109	5.7	7.0	8.3	7.0	7.7	99.0	99.0	94.3	7.7	2.7	6.0	6.0	6.7	7.3	8.0	7.3	6.3	5.7	6.7
09-TZ-54-9	5.3	5.3	7.7	7.0	7.7	84.7	92.7	89.0	8.0	3.3	6.0	5.3	7.7	7.0	7.7	7.0	5.7	6.7	6.6
10-TZ-35	6.0	3.7	6.3	6.7	5.7	96.0	96.0	87.7	6.3	2.3	6.0	7.3	6.7	6.3	7.3	7.0	7.0	5.3	6.6
FAES 1315	5.7	6.3	7.3	6.7	7.0	97.3	98.3	98.3	8.0	4.3	6.0	5.3	7.7	6.7	7.0	7.3	6.3	6.3	6.6
FAES 1304	5.0	5.0	7.3	6.7	7.0	89.7	92.0	94.3	8.0	2.7	6.3	6.3	7.3	6.0	7.3	6.7	5.7	6.0	6.5
FAES 1317	5.3	5.0	8.0	7.7	7.0	88.0	89.0	91.0	8.3	3.0	5.7	7.0	6.3	6.3	7.0	7.0	6.0	6.3	6.5
DALZ 1302	5.7	3.7	6.0	6.0	6.0	94.3	94.3	85.3	6.7	2.7	5.7	7.0	6.7	6.7	6.3	6.3	7.0	5.3	6.4
10-TZ-1254	5.3	4.7	6.7	6.0	5.7	97.7	99.0	88.0	6.7	2.3	6.0	6.7	7.0	6.7	7.3	6.7	5.0	5.3	6.3
FAES 1316	5.3	6.3	6.7	6.0	5.3	99.0	99.0	61.7	6.3	3.0	6.0	7.0	6.3	6.7	6.0	6.3	6.7	5.3	6.3
KSUZ 1201	5.7	6.3	7.0	6.7	6.3	99.0	96.0	93.7	7.0	2.7	5.3	5.7	7.0	6.0	6.7	6.7	7.0	5.7	6.3
FAES 1322	5.3	5.0	7.3	7.0	6.7	99.0	94.3	87.7	7.0	3.0	5.7	5.3	7.7	6.7	7.7	7.0	4.7	5.0	6.2
11-TZ-4321	6.0	4.3	6.0	5.7	5.7	99.0	99.0	93.3	7.7	2.7	5.3	7.3	6.0	5.3	7.0	6.7	6.0	5.3	6.1
DALZ 1301	4.0	7.3	7.7	7.3	8.3	89.7	81.7	99.0	7.7	6.0	5.3	4.7	6.3	5.7	6.7	6.7	5.3	7.3	6.0
FAES 1329	5.0	6.7	8.0	7.3	7.3	95.3	94.3	97.7	7.3	4.7	5.3	6.0	6.3	5.7	6.7	6.7	6.0	5.3	6.0
ZEON	4.3	7.7	7.0	7.3	8.3	81.3	81.3	98.3	9.0	4.0	5.3	5.0	6.0	6.0	6.7	6.0	5.3	6.7	5.9
CSZ 1105	4.3	6.3	6.7	6.0	7.0	96.0	96.0	61.0	5.7	2.0	5.7	5.7	6.7	6.7	6.7	6.7	4.0	4.7	5.8
GGZ 504	5.3	6.0	7.0	6.3	6.3	90.7	91.3	76.7	6.7	2.0	5.7	6.0	6.3	5.7	6.3	5.7	5.0	5.0	5.7
MEYER	5.3	6.3	6.3	5.7	5.3	96.0	99.0	50.7	4.7	1.3	5.3	7.0	6.3	5.3	6.3	6.3	4.0	3.3	5.5
LSD VALUE	2.5	1.2	0.9	0.9	0.9	14.5	13.7	19.7	1.3	1.2	2.2	0.9	1.3	1.7	1.2	1.4	1.0	1.4	0.9
C.V. (%)	18.0	12.4	8.0	8.3	8.4	6.4	6.2	12.6	10.4	25.2	13.9	9.2	10.8	13.3	9.9	10.7	10.7	14.1	7.8

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

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

NAME	GENETIC COLOR	LEAF TEXTURE	FALL COLOR NOVEMBER	FALL COLOR DECEMBER	LARGE PATCH DISEASE NOVEMBER	LARGE PATCH DISEASE DECEMBER	QUALITY RATINGS JUL	AUG	SEP	OCT	NOV	MEAN
ZEON	8.3	8.0	8.7	7.3	7.7	6.7	8.0	8.7	4.7	7.0	7.3	7.1
FAES 1313	7.7	7.7	9.0	7.7	8.3	8.7	7.7	7.3	5.0	7.7	7.3	7.0
FAES 1305	8.3	8.3	9.0	7.0	9.0	8.7	6.3	7.3	5.3	7.3	8.0	6.9
FAES 1329	7.3	7.7	9.0	7.3	8.7	8.7	7.0	7.0	5.0	7.0	8.0	6.8
FAES 1307	6.7	6.3	8.0	6.3	9.0	9.0	7.0	6.7	4.7	6.7	6.3	6.3
FAES 1309	6.0	7.7	9.0	7.7	9.0	9.0	5.7	6.7	4.0	6.0	7.3	5.9
DALZ 1303	7.7	8.3	7.7	6.3	8.3	8.3	7.3	8.3	1.7	5.3	6.3	5.8
FAES 1303	7.7	8.3	7.7	7.7	7.3	8.3	8.0	8.0	2.3	5.0	5.7	5.8
FAES 1306	7.3	8.3	8.3	7.3	8.7	9.0	7.7	8.0	1.7	4.7	6.7	5.7
FAES 1319	7.0	5.7	8.3	7.0	8.3	8.3	7.0	6.7	3.3	5.3	6.3	5.7
CSZ 1105	8.0	7.3	8.3	5.7	7.0	7.0	7.0	7.3	2.3	5.7	5.7	5.6
DALZ 1302	6.7	5.0	9.0	6.3	6.7	6.3	6.7	5.3	3.7	6.0	5.7	5.5
FAES 1310	7.3	8.0	8.7	7.7	9.0	9.0	6.7	7.7	2.0	4.7	6.7	5.5
10-TZ-35	5.3	5.0	8.0	5.0	5.7	5.7	6.0	5.0	4.3	5.3	5.0	5.1
CSZ 1109	7.0	7.7	8.3	7.7	9.0	8.7	5.7	6.7	2.7	4.0	6.3	5.1
EMPIRE	6.0	5.0	7.7	4.3	6.3	5.7	6.3	4.7	4.3	5.7	4.7	5.1
FAES 1316	5.3	5.0	7.7	5.0	9.0	9.0	5.0	4.7	4.7	5.0	6.0	5.1
FAES 1312	5.7	5.7	8.0	5.7	6.0	7.0	5.7	5.3	4.0	5.0	5.0	5.0
09-TZ-54-9	5.3	5.0	8.0	5.7	7.7	8.0	5.0	6.0	2.7	5.3	5.7	4.9
A-1	8.7	8.3	8.7	5.0	5.3	5.7	7.0	8.3	2.0	4.0	3.0	4.9
FAES 1314	7.0	7.3	6.3	3.0	7.0	6.7	7.7	6.3	2.0	4.7	3.7	4.9
FAES 1315	6.7	7.0	8.7	7.3	9.0	9.0	6.7	6.7	2.7	4.0	4.7	4.9
FAES 1318	6.7	6.3	7.3	3.7	8.7	8.3	6.0	6.3	3.0	4.0	5.3	4.9
GGZ 504	7.0	7.0	7.7	5.7	7.0	7.7	6.7	6.7	2.3	4.7	4.3	4.9
FAES 1322	6.7	6.0	7.7	4.7	4.3	5.3	6.3	6.3	2.7	4.7	4.0	4.8
10-TZ-1254	7.0	6.0	8.3	6.7	9.0	9.0	6.3	6.0	2.3	4.0	4.7	4.7
FAES 1317	6.3	6.3	8.7	7.3	8.3	8.3	5.0	5.3	2.0	5.0	6.3	4.7
FAES 1328	5.0	5.0	8.0	4.0	9.0	9.0	5.7	5.3	3.3	4.7	4.7	4.7
FAES 1304	6.3	6.0	8.7	7.3	9.0	9.0	5.0	5.7	3.0	4.3	4.3	4.5
KSUZ 1201	5.3	6.0	7.0	4.0	9.0	9.0	4.3	6.0	2.7	4.3	4.3	4.3
MEYER	6.0	6.0	7.7	3.3	7.3	5.7	4.0	4.7	2.3	4.7	5.3	4.2
09-TZ-53-20	6.0	6.3	8.0	6.0	6.0	7.3	5.0	6.0	2.0	3.7	4.0	4.1
FAES 1308	7.0	8.7	8.3	7.7	9.0	9.0	5.7	7.0	1.3	3.0	3.3	4.1
11-TZ-4321	5.0	5.0	7.3	4.3	5.3	5.3	4.3	4.7	3.0	4.0	3.7	3.9
DALZ 1301	7.0	8.0	8.3	6.0	7.3	7.3	5.7	7.0	1.3	2.7	2.7	3.9
LSD VALUE	1.4	0.7	1.4	1.5	3.3	3.0	1.9	1.3	2.4	2.9	2.4	1.7
C.V. (%)	12.7	7.1	8.5	16.1	20.8	19.4	16.9	12.5	41.7	27.8	25.0	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.

TABLE 10. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS

GROWN UNDER DROUGHT STRESS AT COLLEGE STATION, TX 1/
2015 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
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 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
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
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 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 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
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 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 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
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
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 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
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
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
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 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 1312	80.0	75.0	65.0	58.3	58.3	56.7	60.0	63.3	65.0	68.3	68.3	70.0	70.0	71.7
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
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
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 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
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
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
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
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
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
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
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
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
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
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
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
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
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
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 11. GENETIC COLOR RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

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

NAME	AR1	FL3	FL4	GA1	NC1	TN1	TX1	MEAN
FAES 1329	8.3	7.7	6.0	6.0	7.3	7.0	8.0	7.2
A-1	8.3	7.7	4.7	6.7	6.7	7.7	6.3	6.9
DALZ 1301	7.7	6.7	5.3	6.7	7.0	7.7	7.0	6.9
FAES 1305	7.7	7.7	4.7	6.0	7.0	7.7	7.3	6.9
FAES 1314	8.0	7.3	5.3	5.7	6.7	7.7	7.3	6.9
KSUZ 1201	8.3	8.0	4.3	6.3	7.0	7.3	6.7	6.9
FAES 1310	7.7	7.0	5.7	6.0	6.3	8.3	6.3	6.8
FAES 1316	7.3	7.7	4.7	5.7	6.7	7.7	7.7	6.8
CSZ 1109	7.0	6.7	5.3	5.7	6.7	8.7	7.0	6.7
FAES 1313	7.7	7.3	5.3	5.7	7.0	7.3	6.7	6.7
09-TZ-54-9	6.7	6.0	5.3	6.0	7.0	8.3	7.3	6.7
11-TZ-4321	6.3	7.7	5.3	6.3	6.7	7.3	7.0	6.7
09-TZ-53-20	6.0	7.0	5.0	6.0	7.0	8.0	7.0	6.6
FAES 1315	7.0	7.0	5.0	6.0	6.3	7.3	7.3	6.6
FAES 1319	5.3	7.3	5.7	6.3	7.3	7.3	6.7	6.6
FAES 1304	7.7	6.7	4.3	6.0	7.3	7.3	6.3	6.5
FAES 1306	6.7	6.3	5.7	5.3	7.0	8.3	6.3	6.5
FAES 1303	8.0	6.0	4.3	5.3	6.7	8.3	7.0	6.5
MEYER	6.7	7.3	4.7	6.0	7.0	7.3	6.7	6.5
FAES 1328	6.3	6.7	4.7	5.3	7.0	8.7	6.7	6.5
10-TZ-1254	4.7	7.7	5.7	6.0	6.7	8.0	6.3	6.4
FAES 1317	5.3	7.3	5.3	5.7	7.0	7.0	7.3	6.4
FAES 1312	5.3	7.3	5.0	6.3	7.0	6.7	7.3	6.4
FAES 1308	7.3	6.0	4.7	5.7	6.7	8.0	6.3	6.4
DALZ 1303	7.0	6.0	5.0	6.0	6.0	7.7	7.0	6.4
GGZ 504	5.3	7.3	5.0	5.7	7.0	8.3	6.0	6.4
FAES 1309	6.3	6.3	5.0	5.7	6.7	8.3	6.0	6.3
FAES 1322	5.7	6.7	4.7	6.0	6.7	7.7	7.0	6.3
CSZ 1105	5.7	7.0	4.7	5.7	6.0	7.7	7.0	6.2
FAES 1318	6.3	6.7	5.0	5.7	6.0	8.0	6.0	6.2
DALZ 1302	5.0	6.3	4.7	6.0	6.7	7.3	6.7	6.1
FAES 1307	6.3	6.3	5.3	5.3	7.0	5.0	7.0	6.0
ZEON	5.3	6.3	5.0	6.3	6.3	6.0	6.7	6.0
10-TZ-35	4.0	6.3	4.7	6.0	6.3	7.7	6.3	5.9
EMPIRE	4.3	6.7	4.7	5.7	6.7	7.0	6.3	5.9
LSD VALUE	0.8	1.1	1.0	0.8	0.7	1.4	1.1	0.4
C.V. (%)	7.8	9.7	12.0	8.7	6.3	11.5	9.7	9.6

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

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

TABLE 12. SPRING GREENUP RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

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

NAME	AL1	AR1	FL3	FL4	GA1	IN1	KS1	NC1	TN1	TX1	MEAN
MEYER	8.3	5.7	4.7	3.0	5.0	8.0	8.7	7.7	6.0	3.0	6.0
09-TZ-54-9	7.7	9.0	7.0	7.3	5.7	2.0	1.3	8.3	3.7	6.0	5.8
KSUZ 1201	9.0	5.3	3.3	4.3	3.0	7.7	8.0	6.3	6.0	3.3	5.6
FAES 1305	8.3	7.0	6.0	5.0	6.7	5.0	2.3	6.7	5.3	3.0	5.5
FAES 1319	7.3	8.3	6.7	6.7	6.3	1.0	1.3	7.3	3.7	5.0	5.4
FAES 1304	6.7	7.3	6.3	6.0	6.0	2.0	1.0	7.3	2.7	4.7	5.0
A-1	7.0	9.0	6.7	7.0	5.3	1.7	1.3	6.0	2.3	3.3	5.0
11-TZ-4321	6.7	6.3	4.3	6.0	4.7	2.7	3.7	5.0	5.7	3.7	4.9
DALZ 1301	7.3	4.7	5.3	5.7	3.3	4.3	2.7	6.3	6.0	3.0	4.9
10-TZ-1254	6.3	7.0	7.0	6.3	5.3	1.0	1.0	5.3	4.7	4.3	4.8
FAES 1312	8.7	5.3	4.7	6.7	4.7	4.0	1.0	5.7	3.0	3.3	4.7
FAES 1322	7.0	6.3	6.0	8.0	4.3	1.0	1.0	6.0	3.0	4.0	4.7
FAES 1316	8.3	7.3	6.7	5.3	4.3	1.0	1.0	5.3	3.0	4.0	4.6
09-TZ-53-20	7.0	4.3	7.0	6.3	4.7	1.0	1.0	6.3	1.3	6.7	4.6
FAES 1307	8.3	7.0	6.7	7.3	2.3	1.0	1.0	3.7	2.7	5.3	4.5
DALZ 1302	7.3	7.7	3.7	5.7	3.0	3.0	1.7	4.7	4.0	3.7	4.4
10-TZ-35	6.7	5.7	4.3	5.0	4.0	2.7	1.7	5.3	5.0	3.3	4.4
DALZ 1303	6.7	4.7	7.7	8.0	4.0	1.0	1.0	5.3	2.0	3.3	4.4
FAES 1313	7.3	4.7	7.3	7.3	4.7	1.0	1.0	4.3	1.7	4.3	4.4
FAES 1315	7.0	4.0	7.0	6.7	4.3	1.0	1.0	5.3	1.7	5.7	4.4
EMPIRE	6.7	6.7	4.0	6.0	3.7	1.3	1.0	5.3	4.7	3.7	4.3
FAES 1329	7.7	4.7	7.3	7.0	3.3	1.0	1.0	4.7	1.0	5.0	4.3
FAES 1318	6.7	7.3	4.0	6.0	4.7	1.0	1.0	5.7	2.0	3.7	4.2
FAES 1328	8.0	3.3	5.0	6.3	4.3	1.0	1.0	4.7	5.0	3.0	4.2
FAES 1317	6.3	5.7	6.7	5.0	3.7	1.0	1.0	6.0	1.7	4.3	4.1
FAES 1309	6.7	0.0	7.3	7.3	2.7	1.0	1.0	6.0	2.0	6.3	4.0
GGZ 504	6.0	4.0	6.0	6.3	4.3	1.0	1.0	4.0	1.0	5.7	3.9
ZEON	6.7	3.3	2.3	5.3	2.0	2.3	1.3	6.3	4.7	3.0	3.7
FAES 1303	6.3	1.3	6.7	7.0	3.0	1.0	1.0	3.3	1.0	4.7	3.5
FAES 1314	7.3	3.0	5.3	5.3	3.0	1.0	1.0	3.7	1.7	3.3	3.5
FAES 1308	6.0	1.0	6.7	6.3	2.7	1.0	1.0	3.7	1.0	5.0	3.4
FAES 1310	5.7	1.3	6.7	6.3	2.3	1.0	1.0	4.7	1.0	4.0	3.4
CSZ 1109	6.3	1.0	6.7	7.0	2.0	1.0	1.0	3.7	1.0	4.0	3.4
CSZ 1105	6.3	2.3	6.3	6.3	2.7	1.0	1.0	2.7	1.0	3.7	3.3
FAES 1306	5.3	1.3	7.3	6.3	2.7	1.0	1.0	3.0	1.0	3.3	3.2
LSD VALUE	1.3	2.3	1.4	1.2	1.5	1.2	0.9	1.7	0.9	1.7	0.5
C.V. (%)	11.5	29.2	14.4	11.5	23.1	36.9	34.3	20.0	18.2	25.8	20.6

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 13. LEAF TEXTURE RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

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

NAME	AL1	AR1	IN1	NC1	TN1	TX1	MEAN
A-1	8.3	9.0	8.0	7.3	2.0	8.0	7.1
FAES 1305	8.0	9.0	7.7	7.7	2.3	7.3	7.0
FAES 1308	8.0	8.7	.	7.7	2.0	8.0	6.9
ZEON	8.0	8.7	7.0	7.7	2.0	7.3	6.8
FAES 1303	7.7	8.0	.	8.0	2.3	7.7	6.7
CSZ 1109	7.7	8.7	.	7.3	2.3	7.3	6.7
FAES 1306	7.0	8.7	.	8.0	2.0	7.7	6.7
FAES 1310	6.7	9.0	.	7.3	2.0	8.0	6.6
DALZ 1301	7.7	9.0	7.0	6.7	2.0	7.0	6.6
FAES 1309	7.3	8.3	.	7.7	2.0	7.3	6.5
DALZ 1303	7.0	8.7	.	7.0	2.0	7.3	6.4
FAES 1329	5.7	8.3	7.0	6.7	2.7	6.3	6.1
FAES 1313	6.0	7.7	6.5	7.0	2.7	6.0	6.0
CSZ 1105	5.7	7.7	.	7.0	2.7	6.3	5.9
FAES 1315	5.3	8.0	.	6.7	2.7	6.7	5.9
FAES 1307	4.7	7.7	6.0	6.3	2.7	6.3	5.6
09-TZ-54-9	4.0	6.3	6.0	7.3	3.0	6.0	5.4
KSUZ 1201	4.3	6.7	6.0	6.0	3.0	6.3	5.4
09-TZ-53-20	5.0	6.7	.	7.3	2.0	5.7	5.3
FAES 1319	3.0	6.7	6.0	6.0	3.0	6.0	5.1
FAES 1322	3.7	7.0	.	6.0	3.0	5.7	5.1
MEYER	2.7	7.0	6.0	5.0	3.3	5.3	4.9
FAES 1317	3.3	6.7	.	5.7	3.0	5.7	4.9
FAES 1314	3.0	6.7	.	6.3	3.0	5.3	4.9
FAES 1318	3.0	7.3	.	5.3	3.0	5.7	4.9
GGZ 504	3.7	6.0	.	5.7	2.3	6.0	4.7
FAES 1312	2.3	6.0	5.7	5.3	3.0	6.0	4.7
FAES 1304	2.0	5.7	5.7	5.3	3.0	5.3	4.5
FAES 1316	2.3	6.3	5.0	4.3	3.0	5.7	4.4
FAES 1328	2.3	5.7	.	5.3	3.0	5.7	4.4
11-TZ-4321	2.0	5.3	5.3	5.0	3.0	5.0	4.3
10-TZ-1254	1.7	6.3	.	4.3	3.3	4.7	4.1
DALZ 1302	1.0	5.3	3.7	4.0	4.0	4.3	3.7
EMPIRE	1.3	5.3	3.5	3.7	3.7	4.0	3.6
10-TZ-35	1.3	4.3	4.3	3.7	3.3	4.3	3.6
LSD VALUE	1.5	0.8	0.9	1.0	0.6	0.9	0.4
C.V. (%)	19.6	7.2	7.6	9.8	13.1	8.6	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. SPRING DENSITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

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

NAME	AR1	FL3	FL4	NC1	TX1	MEAN
A-1	8.7	6.0	7.3	6.0	7.7	7.1
09-TZ-54-9	7.7	6.0	7.7	7.0	6.7	7.0
FAES 1319	7.0	6.0	8.3	6.7	6.3	6.9
FAES 1305	9.0	6.3	6.3	6.3	6.3	6.9
FAES 1307	7.3	6.3	7.7	5.7	7.0	6.8
FAES 1329	7.7	6.3	8.0	5.3	6.7	6.8
FAES 1312	6.0	6.7	8.0	7.0	6.0	6.7
FAES 1318	7.3	6.3	7.7	6.3	6.0	6.7
DALZ 1301	7.7	6.0	7.0	6.3	6.3	6.7
FAES 1328	6.7	6.0	7.3	6.7	6.3	6.6
ZEON	8.3	5.7	6.3	6.0	6.7	6.6
DALZ 1303	6.0	6.3	8.0	4.7	7.3	6.5
FAES 1313	7.0	5.7	8.0	5.3	6.0	6.4
FAES 1316	7.0	6.0	7.0	6.7	5.3	6.4
FAES 1322	5.7	6.3	8.3	6.0	5.7	6.4
KSUZ 1201	6.7	6.3	6.3	6.7	6.0	6.4
FAES 1304	6.7	6.3	7.3	6.3	5.3	6.4
09-TZ-53-20	5.0	6.0	7.3	4.7	7.3	6.1
11-TZ-4321	4.7	6.0	8.0	6.3	5.3	6.1
DALZ 1302	6.0	6.0	7.3	5.7	5.3	6.1
FAES 1310	4.7	6.0	8.0	4.3	7.3	6.1
FAES 1303	7.0	5.7	7.0	3.7	6.7	6.0
FAES 1306	6.0	5.7	7.7	4.7	6.0	6.0
10-TZ-1254	5.3	6.0	7.3	5.7	5.7	6.0
EMPIRE	6.0	5.7	5.7	6.7	5.3	5.9
10-TZ-35	5.3	5.7	6.7	6.0	5.3	5.8
MEYER	6.7	5.7	5.3	6.3	5.0	5.8
FAES 1315	3.3	6.3	7.7	5.3	6.3	5.8
FAES 1317	4.7	5.7	7.3	5.3	5.7	5.7
FAES 1314	5.0	6.0	6.7	4.7	6.0	5.7
CSZ 1105	5.7	5.0	7.0	4.0	6.3	5.6
FAES 1308	3.7	6.3	7.0	3.3	7.0	5.5
GGZ 504	5.0	4.7	6.7	4.7	5.7	5.3
FAES 1309	1.0	5.7	7.3	4.3	7.3	5.1
CSZ 1109	2.7	5.7	7.7	2.3	6.0	4.9
LSD VALUE	2.1	1.1	1.2	1.5	1.2	0.7
C.V. (%)	22.0	11.5	10.1	17.4	12.3	14.9

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 15. SUMMER DENSITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

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

NAME	FL3	FL4	GA1	NC1	TX1	MEAN
A-1	6.7	6.3	7.7	8.3	7.7	7.3
FAES 1305	7.3	6.7	7.0	8.0	7.7	7.3
DALZ 1303	7.0	7.0	6.7	7.7	7.7	7.2
DALZ 1301	6.7	6.7	6.7	8.0	7.3	7.1
FAES 1319	6.7	6.7	6.7	8.0	6.3	6.9
ZEON	7.7	5.3	6.7	7.7	7.0	6.9
FAES 1308	7.7	5.7	4.0	8.3	8.3	6.8
FAES 1313	6.7	6.7	6.7	7.3	6.7	6.8
FAES 1329	7.3	6.7	5.3	7.7	7.0	6.8
FAES 1303	7.0	6.0	4.7	8.3	7.7	6.7
FAES 1306	7.3	6.3	4.7	8.0	7.3	6.7
FAES 1312	7.7	6.3	6.3	7.3	6.0	6.7
CSZ 1109	7.3	5.3	5.3	8.0	7.3	6.7
FAES 1310	6.3	7.0	4.3	7.7	7.7	6.6
09-TZ-54-9	6.0	6.0	5.3	8.3	7.0	6.5
FAES 1317	7.0	6.3	6.3	7.3	5.7	6.5
09-TZ-53-20	6.0	5.7	4.7	8.0	8.0	6.5
FAES 1315	6.7	6.0	5.7	7.7	6.3	6.5
FAES 1318	6.7	6.0	6.7	7.0	6.0	6.5
10-TZ-1254	6.7	6.7	6.7	7.3	5.0	6.5
CSZ 1105	7.3	5.0	6.3	7.3	6.3	6.5
FAES 1309	6.0	6.7	3.0	8.0	8.3	6.4
FAES 1322	5.7	6.3	5.7	8.0	6.3	6.4
FAES 1314	7.0	5.0	6.3	7.3	6.3	6.4
FAES 1307	6.7	5.7	4.3	7.3	7.3	6.3
FAES 1304	6.7	5.7	6.0	7.3	5.3	6.2
DALZ 1302	6.7	7.0	5.7	6.7	4.7	6.1
11-TZ-4321	6.3	6.0	6.3	7.0	5.0	6.1
KSUZ 1201	6.7	4.0	5.7	7.3	6.0	5.9
EMPIRE	6.3	4.7	6.3	7.0	5.0	5.9
FAES 1316	7.3	4.7	6.0	6.3	5.0	5.9
FAES 1328	6.0	5.7	5.3	7.0	5.3	5.9
GGZ 504	7.0	4.0	5.3	6.7	5.7	5.7
10-TZ-35	6.3	4.0	5.7	6.3	5.0	5.5
MEYER	6.7	3.0	6.3	6.7	4.7	5.5
LSD VALUE	1.0	1.2	1.9	0.8	1.1	0.6
C.V. (%)	8.9	13.4	20.0	6.6	10.7	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 16. FALL DENSITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

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

NAME	AR1	FL3	FL4	NC1	TX1	MEAN
FAES 1329	8.3	7.0	7.3	8.0	8.0	7.7
DALZ 1303	7.7	6.0	8.3	8.3	8.0	7.7
FAES 1303	8.7	7.0	6.3	8.3	7.7	7.6
ZEON	8.0	7.0	7.3	8.3	7.3	7.6
A-1	8.0	6.7	6.7	8.3	7.3	7.4
FAES 1305	8.0	6.7	6.7	8.3	7.3	7.4
FAES 1307	7.0	6.7	7.7	8.0	7.7	7.4
FAES 1313	8.3	6.3	7.7	7.7	7.0	7.4
FAES 1306	8.0	6.7	7.0	8.0	7.0	7.3
CSZ 1105	7.0	6.7	7.7	8.0	7.0	7.3
FAES 1312	6.7	6.3	7.7	8.0	7.7	7.3
09-TZ-54-9	7.0	6.0	7.0	8.0	8.0	7.2
DALZ 1301	8.0	5.7	7.0	8.3	7.0	7.2
FAES 1314	6.0	6.3	8.0	7.7	8.0	7.2
FAES 1319	7.0	6.0	7.7	8.0	7.3	7.2
FAES 1322	7.0	6.0	7.3	8.0	7.7	7.2
11-TZ-4321	6.0	6.3	8.3	8.0	7.0	7.1
FAES 1308	5.7	7.0	7.0	8.3	7.7	7.1
FAES 1310	6.7	6.7	7.0	8.0	7.0	7.1
10-TZ-1254	5.7	6.0	8.3	8.0	6.7	6.9
KSUZ 1201	7.3	5.7	6.3	8.3	7.0	6.9
FAES 1304	6.7	6.0	7.0	8.0	6.7	6.9
FAES 1317	5.7	6.0	6.7	8.0	7.3	6.7
FAES 1316	6.0	6.0	7.3	7.3	7.0	6.7
FAES 1318	6.0	6.0	7.3	7.7	6.7	6.7
CSZ 1109	5.3	6.0	6.7	8.0	7.3	6.7
FAES 1315	4.3	6.3	7.3	7.7	7.7	6.7
FAES 1328	6.0	6.0	6.7	7.7	7.0	6.7
DALZ 1302	6.0	6.0	8.7	7.0	5.7	6.7
09-TZ-53-20	4.7	5.0	7.3	8.0	7.7	6.5
EMPIRE	5.7	6.0	6.3	7.7	6.3	6.4
GGZ 504	5.7	6.3	5.7	8.0	6.3	6.4
MEYER	7.0	6.0	5.0	7.3	6.3	6.3
10-TZ-35	5.7	5.7	6.7	7.3	6.0	6.3
FAES 1309	1.0	6.3	6.3	8.0	7.3	5.8
LSD VALUE	2.4	0.7	1.2	0.6	0.9	0.6
C.V. (%)	23.3	7.3	10.1	5.1	8.2	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 17. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	FL4	GA1	NC1	TN1	MEAN
09-TZ-54-9	86.7	99.0	86.7	95.0	91.8
FAES 1312	86.7	93.0	90.0	94.3	91.0
DALZ 1301	80.0	93.0	86.7	97.0	89.2
FAES 1319	80.0	99.0	86.7	90.0	88.9
ZEON	73.3	99.0	86.7	96.3	88.8
10-TZ-1254	80.0	93.0	83.3	97.0	88.3
DALZ 1302	76.7	96.0	83.3	96.7	88.2
11-TZ-4321	83.3	89.3	83.3	95.7	87.9
FAES 1316	80.0	99.0	83.3	89.0	87.8
FAES 1304	70.0	96.0	90.0	92.0	87.0
FAES 1328	76.7	93.0	83.3	95.0	87.0
FAES 1318	76.7	96.0	86.7	88.3	86.9
EMPIRE	63.3	99.0	86.7	95.3	86.1
10-TZ-35	66.7	99.0	80.0	98.0	85.9
KSUZ 1201	76.7	90.0	76.7	98.0	85.3
FAES 1313	86.7	89.7	80.0	82.3	84.7
A-1	80.0	99.0	76.7	79.7	83.8
FAES 1315	80.0	96.0	90.0	69.3	83.8
FAES 1305	73.3	92.7	76.7	89.3	83.0
FAES 1317	80.0	86.0	80.0	86.0	83.0
FAES 1307	83.3	76.7	86.7	84.0	82.7
FAES 1314	76.7	99.0	86.7	68.3	82.7
DALZ 1303	83.3	86.0	83.3	73.0	81.4
FAES 1322	80.0	83.3	73.3	82.7	79.8
09-TZ-53-20	80.0	86.7	70.0	72.7	77.3
CSZ 1105	80.0	93.0	60.0	69.3	75.6
MEYER	56.7	76.3	73.3	94.0	75.1
GGZ 504	73.3	73.3	83.3	64.7	73.7
FAES 1303	76.7	92.7	70.0	54.7	73.5
FAES 1306	80.0	79.3	76.7	50.0	71.5
FAES 1329	83.3	73.3	80.0	45.0	70.4
FAES 1310	76.7	76.3	80.0	41.0	68.5
FAES 1309	86.7	56.3	66.7	54.7	66.1
FAES 1308	76.7	63.0	60.0	47.7	61.8
CSZ 1109	80.0	63.3	36.7	33.7	53.4
LSD VALUE	13.1	25.4	15.5	13.6	8.8
C.V. (%)	10.5	18.0	12.2	10.7	13.5

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

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

TABLE 18. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	FL4	IN1	NC1	TN1	TX1	MEAN
FAES 1312	88.3	98.3	84.0	98.7	99.0	93.7
DALZ 1302	90.0	96.0	86.7	99.0	91.0	92.5
FAES 1305	83.3	92.3	81.7	98.0	96.3	90.3
ZEON	80.0	73.3	93.0	98.0	98.7	88.6
KSUZ 1201	65.0	91.3	78.3	98.7	99.0	86.5
11-TZ-4321	86.7	73.3	75.0	99.0	96.3	86.1
FAES 1304	78.3	72.7	83.3	98.0	96.0	85.7
DALZ 1301	86.7	74.7	66.7	98.0	98.7	84.9
09-TZ-54-9	85.0	61.7	76.7	97.7	99.0	84.0
10-TZ-35	68.3	69.3	86.7	98.3	96.0	83.7
FAES 1313	88.3	38.3	85.0	98.7	99.0	81.9
A-1	88.3	28.3	80.0	98.3	99.0	78.8
MEYER	43.3	98.7	56.7	97.7	91.7	77.6
EMPIRE	73.3	32.7	83.3	97.7	97.3	76.9
FAES 1307	85.0	18.3	81.7	97.7	99.0	76.3
FAES 1329	78.3	31.7	70.0	99.0	97.7	75.3
DALZ 1303	86.7	0.0	85.0	97.3	99.0	73.6
10-TZ-1254	83.3	0.0	88.3	98.3	97.7	73.5
FAES 1319	88.3	8.3	71.7	98.3	99.0	73.1
FAES 1322	86.7	0.0	78.3	98.0	98.7	72.3
FAES 1315	83.3	0.3	79.7	98.7	97.7	71.9
09-TZ-53-20	80.0	0.0	80.0	98.7	99.0	71.5
FAES 1310	88.3	0.0	70.0	98.7	98.7	71.1
FAES 1328	81.7	0.3	75.0	99.0	97.7	70.7
FAES 1314	63.3	0.0	91.7	98.0	99.0	70.4
FAES 1317	81.7	0.3	71.7	98.0	99.0	70.1
FAES 1318	80.0	0.3	70.0	97.7	98.7	69.3
FAES 1309	86.7	0.0	63.3	96.7	99.0	69.1
FAES 1308	85.0	0.0	58.3	98.3	99.0	68.1
FAES 1316	60.0	1.7	80.0	98.3	96.3	67.3
FAES 1306	85.0	0.3	53.3	98.7	97.7	67.0
CSZ 1105	73.3	0.0	63.3	98.3	97.7	66.5
GGZ 504	71.7	1.7	68.3	98.7	91.3	66.3
FAES 1303	83.3	0.0	50.0	99.0	98.7	66.2
CSZ 1109	81.7	0.0	45.0	97.3	98.3	64.5
LSD VALUE	13.6	36.6	19.9	1.5	4.4	8.8
C.V. (%)	10.6	74.9	16.6	1.0	2.8	16.1

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 19. PERCENT LIVING GROUND COVER (FALL) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	FL4	NC1	TN1	TX1	MEAN
DALZ 1303	93.3	99.0	95.7	99.0	96.8
09-TZ-54-9	93.3	97.7	96.7	99.0	96.7
FAES 1329	93.3	99.0	95.3	99.0	96.7
FAES 1314	93.3	99.0	95.3	98.7	96.6
FAES 1305	95.0	99.0	93.7	97.3	96.3
FAES 1319	93.3	99.0	95.7	97.0	96.3
FAES 1307	91.7	99.0	95.0	98.7	96.1
FAES 1312	93.3	99.0	93.0	98.7	96.0
FAES 1322	93.3	97.7	94.0	99.0	96.0
09-TZ-53-20	91.7	97.0	96.3	98.7	95.9
FAES 1313	93.3	99.0	96.3	95.0	95.9
11-TZ-4321	95.0	99.0	93.0	96.0	95.8
FAES 1316	91.7	99.0	95.3	97.0	95.8
ZEON	91.7	99.0	93.3	99.0	95.8
10-TZ-1254	95.0	99.0	95.7	92.7	95.6
CSZ 1105	93.3	99.0	95.3	94.3	95.5
FAES 1317	90.0	97.7	96.3	97.7	95.4
EMPIRE	93.3	99.0	94.0	94.7	95.3
A-1	91.7	98.3	93.0	97.3	95.1
DALZ 1302	95.0	99.0	93.0	93.3	95.1
FAES 1308	90.0	96.3	95.3	98.7	95.1
FAES 1303	91.7	94.7	96.0	97.7	95.0
DALZ 1301	91.7	99.0	94.3	94.7	94.9
FAES 1315	90.0	96.0	95.7	97.7	94.8
FAES 1304	90.0	98.3	95.7	94.3	94.6
FAES 1310	91.7	97.0	96.3	93.0	94.5
FAES 1328	88.3	99.0	94.7	96.0	94.5
FAES 1309	90.0	94.7	94.0	98.7	94.3
10-TZ-35	88.3	99.0	94.7	93.3	93.8
CSZ 1109	91.7	90.0	94.3	99.0	93.8
FAES 1306	91.7	96.3	95.0	91.7	93.7
GGZ 504	83.3	99.0	96.3	96.0	93.7
KSUZ 1201	86.7	99.0	92.7	94.7	93.3
FAES 1318	88.3	99.0	95.3	90.0	93.2
MEYER	78.3	97.7	90.7	90.0	89.2
LSD VALUE	6.2	3.1	1.8	4.6	2.1
C.V. (%)	4.2	2.0	1.2	3.0	2.8

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

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

TABLE 20. WINTER COLOR RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

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

NAME	FL4	TX1	MEAN
FAES 1322	7.3	4.7	6.0
10-TZ-1254	6.3	4.3	5.3
FAES 1313	6.7	3.7	5.2
FAES 1306	7.3	3.0	5.2
09-TZ-53-20	5.7	4.0	4.8
FAES 1329	6.7	3.0	4.8
FAES 1303	6.7	2.7	4.7
09-TZ-54-9	5.3	4.0	4.7
FAES 1308	6.7	2.3	4.5
FAES 1315	5.7	3.3	4.5
FAES 1319	6.7	2.3	4.5
DALZ 1301	5.7	3.0	4.3
FAES 1310	6.7	2.0	4.3
FAES 1304	5.3	3.3	4.3
FAES 1309	6.0	2.7	4.3
11-TZ-4321	5.7	2.7	4.2
A-1	6.0	2.3	4.2
CSZ 1109	5.3	3.0	4.2
DALZ 1303	4.7	3.3	4.0
FAES 1307	5.7	2.3	4.0
FAES 1312	5.7	2.0	3.8
DALZ 1302	5.3	2.3	3.8
FAES 1317	5.3	2.3	3.8
GGZ 504	4.7	2.3	3.5
FAES 1316	4.7	2.0	3.3
FAES 1318	5.3	1.3	3.3
10-TZ-35	4.7	1.7	3.2
CSZ 1105	4.3	2.0	3.2
FAES 1305	4.3	2.0	3.2
FAES 1314	4.0	2.0	3.0
FAES 1328	4.0	2.0	3.0
ZEON	4.0	1.3	2.7
EMPIRE	3.3	1.7	2.5
MEYER	3.7	1.3	2.5
KSUZ 1201	3.7	1.0	2.3
LSD VALUE	1.5	1.1	0.9
C.V. (%)	17.1	27.3	20.6

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 21. PERCENT WINTER KILL RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/

NAME	KS1
CSZ 1105	99.0
CSZ 1109	99.0
DALZ 1303	99.0
FAES 1303	99.0
FAES 1306	99.0
FAES 1308	99.0
FAES 1309	99.0
FAES 1310	99.0
FAES 1313	99.0
FAES 1314	99.0
FAES 1315	99.0
FAES 1316	99.0
FAES 1318	99.0
FAES 1322	99.0
FAES 1329	99.0
GGZ 504	99.0
FAES 1307	97.3
09-TZ-53-20	95.7
EMPIRE	95.7
FAES 1312	94.0
FAES 1317	94.0
FAES 1328	94.0
ZEON	94.0
FAES 1304	93.7
FAES 1319	93.7
10-TZ-1254	92.3
A-1	91.7
10-TZ-35	90.7
09-TZ-54-9	89.0
DALZ 1302	89.0
DALZ 1301	80.7
FAES 1305	79.0
11-TZ-4321	50.7
KSUZ 1201	9.7
MEYER	1.3
LSD VALUE	11.1
C.V. (%)	7.7

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 22. DOLLAR SPOT RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

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

NAME	GA1	NC1	MEAN
FAES 1328	8.7	9.0	8.8
11-TZ-4321	8.3	9.0	8.7
FAES 1312	8.3	9.0	8.7
FAES 1319	8.3	9.0	8.7
KSUZ 1201	8.3	9.0	8.7
MEYER	8.3	9.0	8.7
DALZ 1301	8.0	9.0	8.5
FAES 1329	8.0	9.0	8.5
FAES 1307	8.3	8.3	8.3
FAES 1309	8.3	8.3	8.3
FAES 1315	7.7	9.0	8.3
10-TZ-35	8.0	8.7	8.3
FAES 1313	8.0	8.3	8.2
FAES 1310	8.7	7.7	8.2
FAES 1317	8.7	7.7	8.2
09-TZ-53-20	7.7	8.3	8.0
10-TZ-1254	7.7	8.3	8.0
A-1	8.3	7.7	8.0
FAES 1304	7.3	8.7	8.0
FAES 1314	7.7	8.3	8.0
FAES 1318	7.7	8.3	8.0
EMPIRE	7.3	8.3	7.8
FAES 1303	7.7	8.0	7.8
FAES 1305	8.3	7.3	7.8
FAES 1308	8.0	7.7	7.8
ZEON	6.7	9.0	7.8
FAES 1322	7.7	7.7	7.7
FAES 1306	8.0	7.0	7.5
GGZ 504	7.3	7.7	7.5
DALZ 1302	6.7	8.0	7.3
09-TZ-54-9	6.7	7.0	6.8
FAES 1316	6.7	7.0	6.8
DALZ 1303	6.7	6.3	6.5
CSZ 1105	7.3	5.3	6.3
CSZ 1109	6.3	4.0	5.2
LSD VALUE	1.6	1.7	1.2
C.V. (%)	13.2	13.3	13.2

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

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

TABLE 23. FALL COLOR (SEPTEMBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

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

NAME	FL3	FL4	GA1	MEAN
FAES 1316	7.0	9.0	6.0	7.3
FAES 1305	6.7	9.0	6.0	7.2
FAES 1314	7.0	9.0	5.7	7.2
FAES 1319	6.3	9.0	6.3	7.2
FAES 1317	7.3	8.3	5.7	7.1
10-TZ-1254	6.3	9.0	6.0	7.1
A-1	6.3	8.7	6.3	7.1
FAES 1304	6.7	8.7	6.0	7.1
FAES 1313	7.0	9.0	5.3	7.1
FAES 1315	6.3	9.0	6.0	7.1
11-TZ-4321	6.7	9.0	5.3	7.0
CSZ 1109	6.3	9.0	5.7	7.0
FAES 1329	6.3	9.0	5.7	7.0
GGZ 504	6.7	8.7	5.7	7.0
09-TZ-53-20	6.0	9.0	5.7	6.9
10-TZ-35	6.0	9.0	5.7	6.9
CSZ 1105	5.7	9.0	6.0	6.9
EMPIRE	6.0	9.0	5.7	6.9
FAES 1318	6.0	9.0	5.7	6.9
FAES 1322	6.0	9.0	5.7	6.9
09-TZ-54-9	5.3	9.0	6.3	6.9
FAES 1303	6.3	9.0	5.3	6.9
DALZ 1302	5.7	9.0	5.7	6.8
FAES 1310	6.3	8.7	5.3	6.8
FAES 1312	6.3	9.0	5.0	6.8
KSUZ 1201	6.7	8.3	5.3	6.8
FAES 1306	5.0	9.0	6.0	6.7
FAES 1307	5.3	9.0	5.7	6.7
FAES 1308	5.3	9.0	5.7	6.7
FAES 1309	6.0	8.7	5.3	6.7
FAES 1328	6.7	8.0	5.3	6.7
DALZ 1303	4.7	9.0	6.0	6.6
MEYER	6.0	8.3	5.3	6.6
DALZ 1301	4.7	9.0	5.7	6.4
ZEON	5.3	8.3	5.7	6.4
LSD VALUE	1.0	0.5	1.2	0.5
C.V. (%)	10.0	3.3	12.8	8.3

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

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

TABLE 24. FALL COLOR (OCTOBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

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

NAME	FL3	FL4	GA1	KS1	NC1	TN1	MEAN
FAES 1313	7.0	8.7	5.7	7.0	5.7	7.7	6.9
09-TZ-53-20	5.7	8.0	6.7	7.0	6.0	8.0	6.9
FAES 1329	6.3	8.7	6.3	7.5	5.0	7.3	6.9
FAES 1304	5.7	8.3	6.0	6.7	6.0	8.3	6.8
FAES 1310	6.0	8.7	5.3	7.5	5.3	8.0	6.8
FAES 1305	6.7	8.0	6.0	7.0	4.7	8.0	6.7
10-TZ-1254	5.3	9.0	6.0	6.5	6.0	7.3	6.7
CSZ 1109	6.0	8.3	5.7	6.5	5.7	8.0	6.7
CSZ 1105	5.3	8.7	6.0	7.0	6.0	7.0	6.7
09-TZ-54-9	4.3	8.3	5.7	7.5	6.0	8.0	6.6
FAES 1309	6.7	8.3	6.0	6.0	5.7	7.0	6.6
FAES 1322	5.3	8.3	6.0	7.0	6.3	6.7	6.6
FAES 1316	6.3	8.7	5.3	6.7	4.7	7.7	6.6
GGZ 504	6.0	7.7	5.7	7.0	5.0	8.0	6.6
FAES 1303	6.7	9.0	5.7	4.7	5.0	8.0	6.5
FAES 1306	5.7	8.7	6.0	6.0	5.3	7.3	6.5
FAES 1312	6.3	8.3	5.7	7.0	4.7	7.0	6.5
FAES 1307	5.7	8.7	5.7	5.7	5.7	7.3	6.4
FAES 1314	5.7	8.3	5.7	7.0	4.0	8.0	6.4
FAES 1317	6.0	7.7	5.3	6.7	5.0	8.0	6.4
DALZ 1303	4.7	8.3	6.0	7.0	5.7	6.7	6.4
FAES 1315	6.0	8.0	6.0	5.5	5.7	7.0	6.4
A-1	6.0	7.7	6.7	5.0	5.3	7.3	6.3
DALZ 1302	6.0	8.7	5.3	6.0	5.0	7.0	6.3
FAES 1308	5.7	8.3	6.0	6.0	5.0	7.0	6.3
10-TZ-35	5.3	7.3	6.0	7.0	5.0	7.0	6.3
EMPIRE	6.0	7.7	5.3	6.7	4.7	7.0	6.2
FAES 1328	6.3	7.0	5.3	6.7	4.7	7.0	6.2
FAES 1318	5.0	7.3	6.0	5.7	4.7	8.0	6.1
FAES 1319	4.7	8.0	6.0	4.7	6.0	7.3	6.1
11-TZ-4321	5.0	8.0	5.7	5.7	4.3	7.3	6.0
KSUZ 1201	5.3	7.3	5.7	7.0	3.7	7.0	6.0
ZEON	4.7	7.0	6.0	6.3	5.0	7.0	6.0
DALZ 1301	3.7	7.7	6.0	6.5	4.0	7.3	5.9
MEYER	4.7	6.7	5.0	6.3	4.0	7.0	5.6
LSD VALUE	1.5	0.8	0.7	1.9	0.8	0.6	0.4
C.V. (%)	16.4	6.5	7.9	15.7	9.8	4.7	10.2

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 (NOVEMBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

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

NAME	GA1	TN1	MEAN
FAES 1319	6.0	8.3	7.2
10-TZ-1254	5.7	8.0	6.8
FAES 1304	5.7	8.0	6.8
FAES 1305	6.0	7.7	6.8
09-TZ-54-9	5.7	7.7	6.7
FAES 1329	5.7	7.7	6.7
FAES 1328	5.3	8.0	6.7
ZEON	6.0	7.3	6.7
09-TZ-53-20	5.3	7.7	6.5
11-TZ-4321	5.0	8.0	6.5
A-1	6.0	7.0	6.5
DALZ 1301	5.3	7.7	6.5
DALZ 1302	5.7	7.3	6.5
FAES 1317	6.0	7.0	6.5
FAES 1307	5.7	7.0	6.3
FAES 1314	5.7	7.0	6.3
FAES 1313	5.3	7.3	6.3
10-TZ-35	5.0	7.3	6.2
EMPIRE	5.3	7.0	6.2
FAES 1312	5.0	7.3	6.2
FAES 1315	6.0	6.3	6.2
FAES 1316	5.0	7.3	6.2
FAES 1309	5.3	6.7	6.0
FAES 1318	5.7	6.3	6.0
FAES 1322	5.3	6.7	6.0
CSZ 1105	6.0	5.7	5.8
CSZ 1109	5.3	6.3	5.8
GGZ 504	5.3	6.3	5.8
KSUZ 1201	5.3	6.0	5.7
MEYER	4.3	6.7	5.5
FAES 1306	6.0	4.7	5.3
DALZ 1303	6.0	4.3	5.2
FAES 1308	5.7	4.0	4.8
FAES 1303	5.3	4.3	4.8
FAES 1310	5.3	3.7	4.5
LSD VALUE	1.0	1.1	0.7
C.V. (%)	10.7	10.4	10.6

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 26. FALL COLOR (DECEMBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

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

NAME	FL4	GA1	NC1	TN1	MEAN
10-TZ-1254	6.3	4.0	5.7	2.0	4.5
FAES 1329	6.7	3.7	5.7	2.0	4.5
FAES 1313	6.3	3.7	6.0	1.3	4.3
09-TZ-54-9	5.7	3.7	5.7	1.7	4.2
FAES 1315	5.7	3.7	5.7	1.7	4.2
FAES 1322	7.0	2.3	5.7	1.7	4.2
FAES 1319	6.3	3.0	5.3	2.0	4.2
FAES 1304	5.7	3.3	5.7	1.7	4.1
09-TZ-53-20	4.7	4.3	5.3	2.0	4.1
FAES 1312	5.3	3.7	5.0	1.7	3.9
FAES 1307	5.7	3.0	5.0	1.7	3.8
A-1	5.3	3.0	6.0	1.0	3.8
FAES 1303	7.3	3.3	3.3	1.0	3.8
DALZ 1302	6.0	2.3	4.7	1.7	3.7
DALZ 1303	7.7	2.0	3.7	1.0	3.6
FAES 1306	7.3	2.7	2.7	1.7	3.6
DALZ 1301	5.7	3.0	4.0	1.3	3.5
FAES 1317	5.3	2.7	5.0	1.0	3.5
CSZ 1105	4.7	3.0	5.0	1.0	3.4
FAES 1309	5.7	3.0	4.0	1.0	3.4
11-TZ-4321	6.0	3.0	3.7	1.0	3.4
FAES 1305	5.3	3.3	3.0	2.0	3.4
FAES 1310	6.7	2.3	3.7	1.0	3.4
ZEON	5.0	3.0	4.0	1.7	3.4
FAES 1308	7.3	2.7	2.0	1.0	3.3
FAES 1318	4.7	2.7	4.7	1.0	3.3
CSZ 1109	6.3	2.0	3.7	1.0	3.3
FAES 1328	3.7	2.7	4.3	1.7	3.1
10-TZ-35	3.3	3.0	3.7	1.7	2.9
FAES 1316	4.3	2.7	3.7	1.0	2.9
EMPIRE	2.7	2.7	4.3	1.3	2.8
GGZ 504	3.7	3.0	3.0	1.0	2.7
FAES 1314	4.7	2.7	2.0	1.0	2.6
MEYER	2.7	3.7	1.3	1.3	2.3
KSUZ 1201	2.7	2.7	1.7	1.3	2.1
LSD VALUE	1.5	1.6	1.4	0.6	0.7
C.V. (%)	16.9	32.4	21.3	27.9	23.6

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

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

TABLE 27. SEEDHEAD RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

SEEDHEAD RATINGS 1-9; 9=NONE 2/

NAME	FL4	NC1	TN1	MEAN
KSUZ 1201	8.7	9.0	9.0	8.9
DALZ 1301	8.3	9.0	9.0	8.8
MEYER	8.3	9.0	9.0	8.8
ZEON	8.3	9.0	9.0	8.8
CSZ 1109	7.7	9.0	9.0	8.6
11-TZ-4321	8.0	9.0	8.3	8.4
A-1	7.3	9.0	9.0	8.4
FAES 1312	7.3	9.0	9.0	8.4
DALZ 1303	7.7	8.3	9.0	8.3
FAES 1305	6.7	9.0	9.0	8.2
FAES 1313	6.7	8.7	9.0	8.1
CSZ 1105	6.7	8.3	9.0	8.0
FAES 1310	7.7	7.3	9.0	8.0
FAES 1315	8.3	6.3	9.0	7.9
09-TZ-54-9	6.7	8.7	8.0	7.8
FAES 1308	6.3	7.7	9.0	7.7
FAES 1322	8.7	7.0	7.3	7.7
FAES 1307	5.3	8.3	9.0	7.6
FAES 1309	7.3	6.7	8.7	7.6
FAES 1306	7.3	6.0	9.0	7.4
FAES 1319	5.3	8.0	9.0	7.4
FAES 1328	7.3	6.0	9.0	7.4
FAES 1303	5.3	6.3	9.0	6.9
FAES 1304	2.7	9.0	9.0	6.9
10-TZ-1254	6.0	6.0	8.3	6.8
FAES 1314	4.7	6.7	8.0	6.4
FAES 1317	4.7	5.7	9.0	6.4
DALZ 1302	5.0	7.0	7.0	6.3
FAES 1316	3.3	7.0	8.0	6.1
09-TZ-53-20	6.0	4.0	7.7	5.9
EMPIRE	5.0	6.0	5.7	5.6
10-TZ-35	3.3	6.7	6.0	5.3
FAES 1329	5.3	3.7	7.0	5.3
GGZ 504	4.3	3.7	6.3	4.8
FAES 1318	2.0	5.7	6.0	4.6
LSD VALUE	1.5	1.5	0.4	0.7
C.V. (%)	14.4	13.0	3.1	10.6

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 28. SPRING COLOR RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA

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

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.

TABLE 29. PERCENT DOLLAR SPOT RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2015 DATA 2/

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.

TABLE 30. SEEDHEAD RATINGS OF ZOYSIAGRASS CULTIVARS AT DALLAS, TX 1/
2015 DATA

NAME	SEEDHEAD RATINGS 1-9; 9=NONE 2/ SEP	OCT	MEAN
11-TZ-4321	9.0	9.0	9.0
CSZ 1105	9.0	9.0	9.0
CSZ 1109	9.0	9.0	9.0
FAES 1312	9.0	9.0	9.0
FAES 1313	9.0	9.0	9.0
FAES 1316	9.0	9.0	9.0
FAES 1317	9.0	9.0	9.0
MEYER	9.0	9.0	9.0
ZEON	9.0	9.0	9.0
DALZ 1301	9.0	8.7	8.8
DALZ 1302	9.0	8.7	8.8
EMPIRE	9.0	8.7	8.8
FAES 1305	9.0	8.7	8.8
FAES 1315	9.0	8.7	8.8
FAES 1328	9.0	8.7	8.8
KSUZ 1201	9.0	8.3	8.7
10-TZ-1254	9.0	8.0	8.5
10-TZ-35	8.3	8.7	8.5
FAES 1304	9.0	8.0	8.5
FAES 1306	8.3	8.7	8.5
FAES 1318	9.0	8.0	8.5
DALZ 1303	8.3	8.3	8.3
FAES 1307	8.0	8.7	8.3
FAES 1322	8.3	8.3	8.3
FAES 1303	8.3	8.0	8.2
FAES 1319	7.7	8.7	8.2
09-TZ-54-9	9.0	7.0	8.0
FAES 1309	9.0	7.0	8.0
FAES 1310	8.3	7.7	8.0
FAES 1308	7.3	8.3	7.8
A-1	9.0	6.3	7.7
FAES 1314	7.3	8.0	7.7
09-TZ-53-20	6.7	6.7	6.7
GGZ 504	5.3	6.3	5.8
FAES 1329	3.7	6.3	5.0
LSD VALUE	1.5	1.4	1.0
C.V. (%)	10.7	9.7	7.5

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.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR ZOYSIAGRASS CULTIVARS
2015 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
09-TZ-53-20	4.5	9.1
09-TZ-54-9	5.6	45.5
10-TZ-1254	4.9	36.4
10-TZ-35	5.0	0.0
11-TZ-4321	5.6	18.2
A-1	5.1	18.2
CSZ 1105	4.4	0.0
CSZ 1109	3.9	0.0
DALZ 1301	6.1	54.5
DALZ 1302	5.4	27.3
DALZ 1303	4.8	27.3
EMPIRE	4.9	9.1
FAES 1303	4.4	9.1
FAES 1304	5.3	36.4
FAES 1305	6.4	81.8
FAES 1306	4.3	9.1
FAES 1307	5.1	27.3
FAES 1308	4.1	9.1
FAES 1309	3.8	9.1
FAES 1310	4.1	0.0
FAES 1312	6.0	72.7
FAES 1313	5.2	27.3
FAES 1314	4.6	9.1
FAES 1315	4.7	9.1
FAES 1316	4.7	9.1
FAES 1317	4.7	9.1
FAES 1318	4.7	0.0
FAES 1319	5.7	72.7
FAES 1322	4.5	9.1
FAES 1328	4.7	9.1
FAES 1329	5.1	27.3
GGZ 504	4.2	0.0
KSUZ 1201	6.1	45.5
MEYER	5.6	27.3
ZEON	5.5	45.5
LSD VALUE	0.4	
C.V. (%)	14.6	

*/ 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.