

## **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, one member from the Sports Turf Managers Association of America (STMA), 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.

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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>.

2019 NATIONAL ZOYSIAGRASS TEST  
LOCATIONS SUBMITTING DATA FOR 2023

<u>State</u>	<u>Location</u>	<u>Code</u>
California	Riverside	CA3
Florida	Gainesville	FL1
Florida	Jay	FL3
Florida	Ft. Lauderdale	FL5
Georgia	Griffin	GA1
Indiana	West Lafayette	IN1
Kansas	Manhattan	KS1
Maryland	College Park	MD1
North Carolina	Raleigh	NC1
North Carolina	Raleigh (Traffic)	NC2
Oklahoma	Stillwater	OK1
Tennessee	Knoxville	TN1
Texas	Dallas (Drought)	TX1
Texas	College Station (Shade)	TX2

**2019 NATIONAL ZOYSIAGRASS TEST  
Entries and Sponsors**

Entry No.	Name	Type	Sponsor
*1	Meyer	Vegetative	Standard Entry
*2	Emerald	Vegetative	Standard Entry
*3	Zeon	Vegetative	Standard Entry
4	FZ 1410	Vegetative	University of Florida
5	FZ 1368	Vegetative	University of Florida
6	FZ 1367	Vegetative	University of Florida
7	FZ 1440	Vegetative	University of Florida
8	FZ 1422	Vegetative	University of Florida
9	FZ 1727	Vegetative	University of Florida
10	FZ 1436	Vegetative	University of Florida
11	15-TZ-11715	Vegetative	University of Georgia
12	16-TZ-12783	Vegetative	University of Georgia
13	16-TZ-13463	Vegetative	University of Georgia
14	UGA GZ 17-4	Vegetative	University of Georgia
*15	Empire	Vegetative	Standard Entry
16	DALZ 1713	Vegetative	Texas A&M Agrilife Research
17	DALZ 1714	Vegetative	Texas A&M Agrilife Research
18	DALZ 1802	Vegetative	Texas A&M Agrilife Research
19	DALZ 1806	Vegetative	Texas A&M Agrilife Research
20	DALZ 1807	Vegetative	Texas A&M Agrilife Research
21	DALZ 1808	Vegetative	Texas A&M Agrilife Research
22	DALZ 1311	Vegetative	Texas A&M Agrilife Research
23	DALZ 1408	Vegetative	Texas A&M Agrilife Research
24	DALZ 1409	Vegetative	Texas A&M Agrilife Research
25	DALZ 1601	Vegetative	Texas A&M Agrilife Research
26	DALZ 1603	Vegetative	Texas A&M Agrilife Research
27	DALZ 1613	Vegetative	Texas A&M Agrilife Research
28	DALZ 1614	Vegetative	Texas A&M Agrilife Research
29	DALZ 1701	Vegetative	Texas A&M Agrilife Research
30	DALZ 1707	Vegetative	Texas A&M Agrilife Research
*31	FAES 1319	Vegetative	Standard Entry
32	FAES 1335	Vegetative	University of Florida
33	FZ 1327	Vegetative	University of Florida
34	FZ 1407	Vegetative	University of Florida
35	FZ 1721	Vegetative	University of Florida
36	FZ 1722	Vegetative	University of Florida
37	FZ 1723	Vegetative	University of Florida
38	FZ 1728	Vegetative	University of Florida
39	FZ 1732	Vegetative	University of Florida

\* COMMERCIALY AVAILABLE IN THE USA IN 2024

TABLE A.

2023 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN  
THE 2019 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
CA3	SANDY LOAM	7.1-7.5	0-60	241-375	1.1-2.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
FL1	-	-	-	-	-	-	-	-
FL3	SANDY LOAM	5.6-6.0	151-270	0-150	4.1-5.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
FL5	SAND	6.6-7.0	-	-	-	FULL SUN	0.6-1.0	TO PREVENT STRESS
GA1	SANDY LOAM	5.6-6.0	0-60	151-240	-	FULL SUN	0.6-1.0	TO PREVENT STRESS
IN1	SILT LOAM AND SILT	6.6-7.0	-	-	1.1-2.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
KS1	SILTY CLAY LOAM	6.6-7.0	61-150	151-240	1.1-2.0	FULL SUN	0.0-0.5	ONLY DURING SEVERE STRESS
MD1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	0.0-1.0	FULL SUN	1.1-1.5	ONLY DURING SEVERE STRESS
NC1	SANDY LOAM	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NC2	SANDY LOAM	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
OK1	LOAM	7.1-7.5	0-60	241-375	4.1-5.0	FULL SUN	1.1-1.5	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 LOAM	7.6-8.5	151-270	241-375	2.1-3.0	FULL SUN	0.6-1.0	ONLY DURING SEVERE STRESS
TX2	-	7.6-8.5	-	-	0.0-1.0	PARTIAL SHADE	1.6-2.0	-

TABLE B.

## LOCATIONS AND DATA COLLECTED IN 2023

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
CA3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FL1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
FL3				X	X	X	X	X	X	X	X	X	X	X	X
FL5	X	X	X	X	X	X	X	X	X	X	X	X	X		
GA1				X	X	X	X	X	X	X			X		
IN1					X	X	X	X	X	X			X	X	X
KS1						X	X	X		X			X	X	
MD1							X	X	X	X			X	X	
NC1					X	X	X	X	X	X			X	X	
NC2															
OK1				X	X	X	X	X	X	X	X		X	X	
TN1				X	X	X	X	X	X	X	X		X	X	X
TX1					X	X					X		X	X	X
TX2				X	X	X	X	X	X	X			X	X	X

TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 2023

LOCATION	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	PERCENT WINTER KILL	DROUGHT TOLERANCE WILTING	DOLLAR SPOT	FALL COLOR SEPTEMBER	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	FALL COLOR DECEMBER	SEEDHEAD RATINGS	LARGE PATCH
CA3															X	
FL1							X									
FL3												X	X		X	X
FL5																
GA1											X	X				
IN1		X						X				X				
KS1									X				X		X	
MD1																
NC1		X								X						
* NC2																
OK1													X		X	
TN1	X	X	X	X	X	X					X	X	X			
* TX1								X						X	X	
* TX2																

\* MORE DATA FOR NC2, TX1 AND TX2 IN TABLE 6, 7 AND 8.



TABLE 1.

TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 \*\*/  
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	ENTRY #	MD1	FL1	FL5	CA3	MEAN
FZ 1722	36	7.7	6.2	7.3	6.1	6.8
FAES 1335	32	7.7	5.7	7.2	5.6	6.5
DALZ 1408	23	6.9	6.0	7.1	6.0	6.5
DALZ 1808	21	7.1	5.6	7.3	5.8	6.5
FZ 1732	39	7.3	5.7	7.1	5.7	6.4
FZ 1367	6	7.0	5.8	7.0	5.8	6.4
UGA GZ 17-4	14	6.5	6.1	7.0	6.0	6.4
*FAES 1319	31	6.8	5.7	7.1	5.8	6.4
FZ 1723	37	6.7	5.6	7.1	5.8	6.3
FZ 1436	10	6.8	5.7	6.9	5.8	6.3
FZ 1422	8	6.8	5.5	7.1	5.7	6.3
16-TZ-12783	12	7.2	5.5	6.9	5.5	6.3
DALZ 1701	29	6.8	5.5	7.1	5.6	6.2
FZ 1440	7	6.8	5.4	6.9	5.6	6.2
*EMERALD	2	6.9	5.3	7.0	5.5	6.2
FZ 1727	9	7.1	5.4	6.8	5.3	6.1
FZ 1327	33	6.6	5.4	6.9	5.5	6.1
DALZ 1409	24	6.2	5.5	6.9	5.7	6.1
DALZ 1707	30	6.4	5.3	6.8	5.5	6.0
16-TZ-13463	13	6.2	5.4	6.8	5.6	6.0
DALZ 1613	27	6.7	5.2	6.8	5.3	6.0
FZ 1728	38	7.1	5.0	6.6	5.1	5.9
DALZ 1614	28	6.4	5.2	6.7	5.4	5.9
DALZ 1601	25	6.4	5.2	6.7	5.4	5.9
DALZ 1713	16	6.6	5.0	6.8	5.3	5.9
*ZEON	3	6.8	5.0	6.7	5.1	5.9
DALZ 1603	26	6.1	5.2	6.7	5.4	5.9
DALZ 1806	19	6.3	5.2	6.6	5.4	5.9
FZ 1410	4	6.2	5.1	6.7	5.4	5.9
15-TZ-11715	11	6.6	5.0	6.6	5.1	5.8
DALZ 1311	22	6.3	5.1	6.6	5.2	5.8
*EMPIRE	15	6.2	4.9	6.6	5.2	5.7
FZ 1407	34	5.7	5.0	6.5	5.2	5.6
*MEYER	1	6.0	4.7	6.5	5.0	5.5
DALZ 1714	17	5.1	4.9	6.5	5.4	5.4
FZ 1368	5	4.0	5.2	6.5	5.9	5.4
DALZ 1802	18	3.6	5.1	6.2	5.8	5.2
DALZ 1807	20	3.3	4.5	5.9	5.2	4.7
FZ 1721	35	4.7	3.8	5.8	4.4	4.7
LSD VALUE		1.0	1.0	1.0	1.0	1.0
C.V. (%)		10.0	12.0	9.3	11.5	10.6

\*/ COMMERCIALLY AVAILABLE IN THE USA IN 2024

\*\*/ 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](http://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 \*/  
2023 DATA

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

NAME	ENTRY #	GA1	TN1	OK1	KS1	MEAN
DALZ 1808	21	6.2	6.1	6.3	7.5	6.5
DALZ 1701	29	5.8	5.8	6.2	7.4	6.3
FZ 1422	8	5.9	5.9	6.1	7.2	6.3
EMERALD	2	5.8	5.7	6.0	7.5	6.2
FAES 1319	31	5.9	5.9	6.2	6.9	6.2
DALZ 1707	30	5.6	5.6	6.0	7.2	6.1
ZEON	3	5.6	5.5	5.7	7.6	6.1
FZ 1327	33	5.7	5.7	5.9	6.7	6.0
FZ 1732	39	5.7	5.7	5.8	6.8	6.0
FZ 1723	37	6.0	6.0	6.0	6.0	6.0
DALZ 1613	27	5.5	5.5	5.7	7.1	6.0
DALZ 1601	25	5.5	5.5	5.9	6.9	5.9
FZ 1727	9	5.4	5.4	5.7	7.2	5.9
FZ 1410	4	5.6	5.6	5.9	6.7	5.9
DALZ 1603	26	5.6	5.5	5.9	6.5	5.9
FZ 1722	36	5.8	5.9	5.8	5.9	5.9
EMPIRE	15	5.5	5.5	5.7	6.7	5.8
DALZ 1713	16	5.9	5.9	5.5	6.0	5.8
15-TZ-11715	11	5.3	5.3	5.5	7.0	5.8
FAES 1335	32	5.8	5.9	5.5	6.1	5.8
DALZ 1614	28	5.5	5.5	5.7	6.5	5.8
FZ 1407	34	5.4	5.4	5.8	6.4	5.7
DALZ 1311	22	5.3	5.3	5.7	6.7	5.7
MEYER	1	5.5	5.5	5.5	6.2	5.7
16-TZ-12783	12	5.6	5.6	5.4	5.7	5.6
FZ 1440	7	5.7	5.8	5.4	5.3	5.6
DALZ 1409	24	5.7	5.8	5.7	5.0	5.5
16-TZ-13463	13	5.6	5.7	5.5	4.7	5.4
DALZ 1408	23	5.8	5.9	5.5	4.2	5.3
FZ 1728	38	5.4	5.5	4.9	5.3	5.3
FZ 1367	6	5.5	5.7	5.2	4.1	5.1
DALZ 1714	17	5.6	5.7	5.4	3.6	5.1
FZ 1436	10	5.6	5.8	5.2	3.7	5.1
UGA GZ 17-4	14	5.5	5.6	5.4	3.3	4.9
DALZ 1806	19	5.5	5.6	5.0	3.6	4.9
FZ 1368	5	5.7	5.9	5.5	1.1	4.5
FZ 1721	35	5.0	5.1	4.4	3.3	4.5
DALZ 1802	18	5.3	5.5	5.4	1.0	4.3
DALZ 1807	20	5.1	5.3	5.0	0.9	4.1
LSD VALUE		1.0	1.0	1.0	1.0	1.0
C.V. (%)		11.3	11.2	11.3	11.4	11.3

\*/ 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](http://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 \*/  
2023 DATA

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

NAME	ENTRY #	NC1	IN1	MEAN
DALZ 1707	30	7.4	7.1	7.2
DALZ 1701	29	7.0	6.9	6.9
FZ 1407	34	6.9	7.0	6.9
FAES 1319	31	7.3	6.3	6.8
DALZ 1603	26	6.9	6.6	6.8
DALZ 1601	25	7.0	6.6	6.8
EMERALD	2	6.6	6.6	6.6
DALZ 1808	21	6.5	6.7	6.6
FZ 1422	8	6.6	6.5	6.5
FZ 1410	4	6.5	6.6	6.5
DALZ 1311	22	7.0	6.1	6.5
FZ 1327	33	6.6	6.1	6.3
ZEON	3	5.9	6.5	6.2
DALZ 1613	27	6.2	6.0	6.1
EMPIRE	15	5.8	6.4	6.1
FZ 1727	9	6.8	5.4	6.1
DALZ 1614	28	6.3	5.7	6.0
15-TZ-11715	11	6.1	5.8	6.0
FZ 1732	39	6.5	4.8	5.6
FZ 1723	37	5.8	5.1	5.5
MEYER	1	4.7	6.0	5.4
DALZ 1409	24	5.7	4.3	5.0
FZ 1722	36	6.7	2.9	4.8
DALZ 1802	18	5.5	3.8	4.6
16-TZ-13463	13	5.3	3.9	4.6
DALZ 1713	16	3.8	4.8	4.3
DALZ 1714	17	4.0	4.4	4.2
FZ 1440	7	4.6	3.2	3.9
FZ 1368	5	4.3	3.4	3.9
16-TZ-12783	12	4.9	2.9	3.9
DALZ 1807	20	4.1	3.6	3.8
DALZ 1408	23	5.4	1.9	3.7
FAES 1335	32	4.6	2.7	3.7
UGA GZ 17-4	14	6.0	1.2	3.6
FZ 1367	6	5.0	1.1	3.1
FZ 1436	10	4.2	1.0	2.6
FZ 1728	38	3.0	2.1	2.5
FZ 1721	35	1.4	3.3	2.3
DALZ 1806	19	3.2	1.5	2.3
LSD VALUE		1.0	1.0	1.0
C.V. (%)		11.3	13.5	12.3

\*/ 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](http://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.

MEAN TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN AT THREE LOCATIONS IN THE U.S. 1/  
MAINTAINED USING "SCHEDULE A" \*\*  
2023 DATA

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

NAME	FL5	GA1	KS1	MEAN
DALZ 1808	7.3	5.7	7.6	6.9
FZ 1327	6.9	6.0	7.1	6.7
FZ 1410	7.2	5.7	6.9	6.6
DALZ 1601	7.1	5.6	7.1	6.6
DALZ 1707	6.6	5.8	7.3	6.6
DALZ 1613	6.7	5.7	7.3	6.5
FZ 1407	7.1	5.5	6.9	6.5
15-TZ-11715	6.7	5.8	7.0	6.5
FZ 1732	6.9	5.5	7.0	6.5
DALZ 1311	7.0	5.7	6.8	6.5
FAES 1319	7.1	5.6	6.8	6.5
DALZ 1701	6.4	5.9	7.2	6.5
DALZ 1603	7.1	5.4	6.9	6.5
EMPIRE	7.0	5.9	6.5	6.5
FZ 1722	7.4	5.9	6.0	6.4
FZ 1422	6.9	5.4	7.0	6.4
ZEON	6.5	5.3	7.5	6.4
FZ 1727	6.8	5.2	7.3	6.4
EMERALD	6.6	5.2	7.3	6.4
FAES 1335	7.3	5.6	6.2	6.4
DALZ 1713	7.4	5.7	5.5	6.2
FZ 1723	6.9	5.7	5.8	6.1
FZ 1440	7.4	5.6	5.4	6.1
16-TZ-12783	6.5	5.8	5.9	6.1
MEYER	6.3	5.6	5.8	5.9
DALZ 1614	5.9	5.9	5.9	5.9
FZ 1367	7.4	5.9	4.1	5.8
FZ 1728	6.1	5.5	5.7	5.7
DALZ 1408	7.6	5.7	4.0	5.7
16-TZ-13463	6.8	5.8	4.3	5.6
DALZ 1409	6.6	5.5	4.6	5.6
FZ 1436	7.6	5.4	3.6	5.5
DALZ 1714	6.9	5.4	4.1	5.5
DALZ 1806	6.4	5.4	3.7	5.2
UGA GZ 17-4	6.4	5.6	3.2	5.1
FZ 1721	5.6	5.6	3.5	4.9
FZ 1368	6.5	5.4	1.0	4.3
DALZ 1802	5.9	5.2	1.0	4.1
DALZ 1807	5.8	5.3	1.0	4.0
LSD VALUE	0.8	0.7	1.2	0.5
C.V. (%)	7.5	7.5	13.1	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.

TABLE 5. MEAN TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN AT SEVEN LOCATIONS IN THE U.S. 1/  
MAINTAINED USING "SCHEDULE B" \*  
2023 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							MEAN
	CA3	FL1	IN1	MD1	NC1	OK1	TN1	
DALZ 1701	5.7	5.6	7.1	7.3	6.9	6.5	5.6	6.4
DALZ 1808	5.7	6.5	6.8	6.9	6.3	6.3	6.0	6.4
FAES 1319	5.9	6.6	6.7	7.0	7.1	5.7	5.6	6.4
FZ 1422	5.5	6.0	6.7	7.1	6.5	6.0	6.1	6.3
EMERALD	5.6	5.1	6.7	7.2	6.6	6.3	6.2	6.2
DALZ 1707	5.7	4.4	6.9	6.5	7.6	6.3	5.9	6.2
FZ 1723	5.7	6.4	5.4	7.0	5.6	5.8	5.8	6.0
FZ 1732	5.7	6.6	4.8	6.9	6.3	5.6	5.5	5.9
DALZ 1409	6.0	5.5	.	6.9	5.6	6.0	5.4	5.9
FZ 1727	5.6	4.8	5.3	7.2	6.8	5.7	5.7	5.9
DALZ 1601	5.2	4.7	6.3	6.1	7.1	6.0	5.8	5.9
DALZ 1614	5.9	4.2	5.9	7.5	6.5	5.6	5.6	5.9
DALZ 1603	5.4	5.3	6.4	5.5	7.0	5.5	6.1	5.9
ZEON	5.6	5.3	6.7	6.9	5.7	5.9	5.1	5.9
FZ 1327	5.3	6.0	5.9	5.9	6.5	5.8	5.7	5.9
FZ 1722	6.1	6.6	2.9	7.6	6.6	5.6	5.5	5.9
FZ 1410	5.2	5.2	6.5	5.8	6.6	5.5	5.8	5.8
DALZ 1613	5.6	4.6	5.9	6.7	6.4	5.5	5.9	5.8
FZ 1407	5.2	4.8	6.5	4.8	6.9	5.9	5.4	5.7
DALZ 1311	5.0	5.2	6.0	6.1	6.9	5.7	4.7	5.7
EMPIRE	4.7	4.7	6.4	6.4	5.9	5.9	5.0	5.6
15-TZ-11715	4.9	4.9	5.8	6.6	6.2	5.6	5.0	5.5
MEYER	4.4	4.2	6.1	6.7	4.8	6.2	5.6	5.4
16-TZ-13463	5.5	5.1	4.1	6.8	5.4	5.1	5.8	5.4
FAES 1335	5.9	5.3	2.6	7.6	4.7	5.4	6.1	5.4
DALZ 1408	5.6	6.0	2.0	7.0	5.4	5.5	5.9	5.4
UGA GZ 17-4	6.1	6.1	1.3	6.8	5.9	5.8	5.3	5.3
16-TZ-12783	5.6	5.3	2.7	6.9	5.0	5.3	6.2	5.3
DALZ 1713	4.8	5.3	5.2	7.1	3.6	5.6	5.2	5.3
FZ 1440	5.5	5.6	3.2	6.6	4.6	5.3	5.7	5.2
DALZ 1802	6.1	5.0	.	3.7	5.4	5.7	5.3	5.2
FZ 1368	5.3	6.8	.	4.0	4.1	5.4	5.6	5.2
FZ 1367	5.5	5.5	1.0	6.8	5.2	5.3	5.6	5.0
DALZ 1714	5.5	5.0	.	4.3	3.9	5.5	5.7	5.0
FZ 1436	5.4	5.5	1.0	6.8	4.2	5.3	5.8	4.9
FZ 1728	5.3	5.4	1.9	6.6	2.9	4.8	5.8	4.7
DALZ 1806	5.8	4.6	1.3	6.3	3.3	5.2	5.9	4.6
DALZ 1807	5.6	3.3	.	3.3	4.4	4.6	6.0	4.5
FZ 1721	4.8	3.5	.	4.6	1.5	4.1	5.0	3.9
LSD VALUE	0.5	1.3	1.5	1.1	1.2	0.6	1.1	0.4
C.V. (%)	5.4	15.2	18.1	11.0	13.4	6.4	11.7	11.9

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 6.

PERCENT GROUND COVER RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN UNDER TRAFFIC AT RALEIGH, NC 1/  
2023 DATA 2/

NAME	SEPTEMBER 13		SEPTEMBER 22		SEPTEMBER 29		OCTOBER 6		OCTOBER 13	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
DALZ 1802	99.0	96.3	99.0	94.0	99.0	91.7	99.0	89.3	99.0	86.7
FZ 1368	99.0	97.0	99.0	95.0	99.0	91.3	99.0	89.3	99.0	88.0
15-TZ-11715	99.0	96.3	99.0	93.0	99.0	90.0	99.0	88.0	99.0	84.0
DALZ 1614	99.0	95.7	99.0	93.0	99.0	89.3	99.0	87.0	99.0	82.3
DALZ 1714	99.0	97.0	99.0	95.7	99.0	93.0	99.0	90.0	99.0	87.0
DALZ 1806	99.0	95.7	99.0	92.3	99.0	87.7	99.0	85.0	99.0	80.7
FZ 1422	99.0	97.0	99.0	95.0	99.0	92.0	99.0	88.7	99.0	86.0
EMERALD	99.0	95.7	99.0	91.3	99.0	87.0	99.0	83.3	99.0	78.3
DALZ 1701	99.0	97.0	99.0	95.0	99.0	91.3	99.0	87.7	99.0	85.0
FZ 1722	99.0	96.3	99.0	91.3	99.0	88.0	99.0	85.0	99.0	82.0
DALZ 1409	99.0	95.7	99.0	91.3	99.0	87.0	99.0	82.3	99.0	79.0
16-TZ-13463	99.0	96.3	99.0	91.7	99.0	88.3	99.0	85.0	99.0	81.0
DALZ 1707	99.0	96.3	99.0	92.0	99.0	88.0	99.0	83.0	99.0	79.3
FAES 1319	99.0	96.3	99.0	94.0	99.0	90.0	99.0	87.0	99.0	82.0
UGA GZ 17-4	99.0	95.7	99.0	90.7	99.0	86.0	99.0	83.0	99.0	79.3
DALZ 1408	99.0	95.7	99.0	91.7	99.0	85.7	99.0	82.3	99.0	78.3
FZ 1436	99.0	93.3	99.0	90.0	99.0	84.3	99.0	81.0	99.0	77.3
DALZ 1311	99.0	95.7	99.0	91.3	99.0	87.7	99.0	82.3	99.0	76.7
DALZ 1613	99.0	97.0	99.0	91.3	99.0	86.0	99.0	80.7	99.0	76.0
FZ 1723	99.0	96.3	99.0	91.3	99.0	85.0	99.0	80.0	99.0	76.0
FAES 1335	99.0	95.7	99.0	91.7	99.0	86.7	99.0	81.7	99.0	76.7
FZ 1727	99.0	95.7	99.0	90.7	99.0	86.7	99.0	82.3	99.0	76.7
ZEON	99.0	96.3	99.0	92.3	99.0	89.0	99.0	84.3	99.0	78.0
DALZ 1601	99.0	96.3	99.0	93.0	99.0	89.3	99.0	83.0	99.0	77.7
DALZ 1808	99.0	94.0	99.0	90.0	99.0	85.0	99.0	81.0	99.0	76.3
EMPIRE	99.0	97.0	99.0	93.7	99.0	90.3	99.0	86.7	99.0	81.0
FZ 1367	99.0	95.7	99.0	90.0	99.0	85.0	99.0	80.0	99.0	77.0
FZ 1407	99.0	97.0	99.0	95.0	99.0	90.0	99.0	85.0	99.0	80.0
DALZ 1603	99.0	95.0	99.0	90.0	99.0	85.0	99.0	80.0	99.0	75.0
FZ 1327	99.0	95.0	99.0	90.7	99.0	85.0	99.0	79.0	99.0	74.3
FZ 1410	99.0	96.3	99.0	92.3	99.0	88.3	99.0	83.3	99.0	78.3
FZ 1732	99.0	95.7	99.0	91.3	99.0	86.0	99.0	81.3	99.0	75.0
FZ 1440	99.0	93.3	99.0	87.7	99.0	82.3	99.0	78.7	99.0	73.0
16-TZ-12783	99.0	96.3	99.0	91.3	99.0	87.7	99.0	82.3	99.0	77.3
MEYER	99.0	95.0	99.0	92.3	99.0	87.7	99.0	83.3	99.0	77.7
DALZ 1713	99.0	95.0	99.0	90.7	99.0	86.0	99.0	80.7	99.0	75.0
DALZ 1807	92.3	85.0	92.3	79.3	92.3	74.0	92.3	71.3	92.3	67.3
FZ 1728	99.0	93.3	99.0	87.3	99.0	80.7	99.0	76.0	99.0	70.7
FZ 1721	96.3	91.7	96.3	85.7	96.3	80.0	96.3	75.7	96.3	71.0
LSD VALUE	0.8	2.0	0.8	3.0	0.8	3.9	0.8	3.7	0.8	4.8
C.V. (%)	0.6	1.4	0.6	2.1	0.6	2.9	0.6	2.9	0.6	3.9

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 6.  
(CONT'D)

PERCENT GROUND COVER RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN UNDER TRAFFIC AT RALEIGH, NC 1/  
2023 DATA 2/

NAME	OCTOBER 27		NOVEMBER 3		NOVEMBER 10		NOVEMBER 17	
	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC	NO TRAFFIC	TRAFFIC
DALZ 1802	99.0	84.0	99.0	77.3	99.0	71.0	99.0	65.0
FZ 1368	99.0	83.0	99.0	77.7	99.0	70.0	99.0	58.3
15-TZ-11715	99.0	77.3	99.0	68.3	99.0	61.0	99.0	50.0
DALZ 1614	99.0	76.0	99.0	66.0	99.0	56.0	99.0	50.0
DALZ 1714	99.0	81.7	99.0	72.0	99.0	61.7	99.0	50.0
DALZ 1806	99.0	76.0	99.0	68.3	99.0	58.7	99.0	50.0
FZ 1422	99.0	76.0	99.0	66.7	99.0	57.7	99.0	48.3
EMERALD	99.0	72.3	99.0	63.3	99.0	54.3	99.0	47.7
DALZ 1701	99.0	77.7	99.0	66.7	99.0	56.0	99.0	46.7
FZ 1722	99.0	75.0	99.0	66.7	99.0	56.0	99.0	46.7
DALZ 1409	99.0	73.3	99.0	63.3	99.0	54.3	99.0	46.0
16-TZ-13463	99.0	74.0	99.0	65.0	99.0	55.0	99.0	45.0
DALZ 1707	99.0	71.7	99.0	62.3	99.0	52.7	99.0	45.0
FAES 1319	99.0	74.0	99.0	65.0	99.0	55.0	99.0	45.0
UGA GZ 17-4	99.0	73.0	99.0	62.7	99.0	53.3	99.0	43.3
DALZ 1408	99.0	71.7	99.0	64.0	99.0	52.7	99.0	42.7
FZ 1436	99.0	72.0	99.0	62.0	99.0	55.0	99.0	42.7
DALZ 1311	99.0	68.7	99.0	59.3	99.0	50.3	99.0	42.0
DALZ 1613	99.0	67.7	99.0	60.0	99.0	51.0	99.0	41.7
FZ 1723	99.0	70.7	99.0	60.0	99.0	51.0	99.0	41.7
FAES 1335	99.0	70.7	99.0	60.7	99.0	51.0	99.0	41.0
FZ 1727	99.0	68.7	99.0	60.7	99.0	51.7	99.0	41.0
ZEON	99.0	69.0	99.0	60.0	99.0	49.3	99.0	41.0
DALZ 1601	99.0	69.3	99.0	59.3	99.0	50.0	99.0	40.0
DALZ 1808	99.0	70.3	99.0	60.7	99.0	50.0	99.0	40.0
EMPIRE	99.0	70.7	99.0	60.0	99.0	49.3	99.0	40.0
FZ 1367	99.0	71.3	99.0	62.3	99.0	51.0	99.0	40.0
FZ 1407	99.0	70.0	99.0	60.0	99.0	50.0	99.0	40.0
DALZ 1603	99.0	68.0	99.0	60.0	99.0	49.3	99.0	39.3
FZ 1327	99.0	67.0	99.0	58.3	99.0	47.7	99.0	39.3
FZ 1410	99.0	69.3	99.0	60.0	99.0	49.3	99.0	39.3
FZ 1732	99.0	68.7	99.0	60.0	99.0	50.0	99.0	39.3
FZ 1440	99.0	68.7	99.0	59.3	99.0	48.7	99.0	38.7
16-TZ-12783	99.0	69.7	99.0	60.0	99.0	48.3	99.0	38.3
MEYER	99.0	70.7	99.0	60.0	99.0	48.7	99.0	38.0
DALZ 1713	99.0	68.3	99.0	58.3	99.0	47.0	99.0	37.7
DALZ 1807	92.3	60.7	92.3	51.7	92.3	43.7	92.3	35.3
FZ 1728	99.0	65.0	99.0	57.0	99.0	45.3	99.0	32.7
FZ 1721	96.3	63.3	96.3	52.0	96.3	40.3	96.3	32.0
LSD VALUE	0.8	5.4	0.8	7.1	0.8	7.1	0.8	7.6
C.V. (%)	0.6	4.7	0.6	7.0	0.6	8.5	0.6	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 7.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN UNDER DROUGHT STRESS AT DALLAS, TX 1/  
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	WINTER KILL	COLOR DECEMBER	SEEDHEAD	QUALITY DURING DRYDOWN			RECOVERY		QUALITY RATINGS			MEAN
							JULY 27	SEPTEMBER 8	AUGUST 16	OCTOBER 1	MAY	JUN	NOV		
EMERALD	6.3	5.7	7.7	13.3	4.3	5.7	5.0	3.0	4.3	6.0	6.3	6.7	6.0	6.3	
DALZ 1409	6.7	2.7	8.0	51.7	5.0	9.0	6.0	4.3	4.3	5.7	5.0	6.3	6.3	5.9	
ZEON	6.0	4.3	8.0	18.3	4.3	9.0	5.7	4.0	4.7	6.0	5.3	6.3	6.0	5.9	
DALZ 1601	6.0	4.3	4.7	26.7	3.7	6.7	7.0	5.3	6.0	5.0	4.7	7.3	5.0	5.7	
DALZ 1713	6.7	2.7	6.7	60.0	4.0	9.0	6.3	5.7	5.7	5.7	4.7	6.3	6.0	5.7	
UGA GZ 17-4	5.7	3.0	8.0	45.0	4.7	9.0	5.3	5.0	5.3	5.0	5.3	6.0	5.7	5.7	
DALZ 1311	6.3	3.7	4.7	26.7	2.7	7.7	6.3	4.7	6.0	5.0	4.3	7.0	5.0	5.4	
DALZ 1802	6.7	2.3	8.0	61.7	4.3	9.0	4.7	4.3	5.0	5.7	4.3	5.7	6.3	5.4	
DALZ 1807	8.7	2.0	8.0	63.3	7.0	9.0	4.7	4.0	5.0	6.0	4.3	6.0	6.0	5.4	
FZ 1422	7.3	4.3	7.0	15.0	2.3	8.7	5.7	3.7	5.0	4.3	5.0	6.7	4.7	5.4	
FZ 1407	6.0	4.0	4.7	46.7	4.0	8.0	7.0	5.0	5.7	5.3	4.0	6.7	5.3	5.3	
DALZ 1603	5.7	3.3	5.3	51.7	3.0	8.3	6.7	6.0	6.7	6.3	3.3	6.3	6.0	5.2	
FAES 1319	6.3	4.0	6.7	38.3	3.0	6.0	5.3	4.0	4.7	5.0	4.3	6.0	5.0	5.1	
FZ 1732	6.0	2.0	7.3	65.0	5.3	9.0	5.0	4.7	5.0	6.0	3.7	5.3	6.3	5.1	
DALZ 1707	6.3	5.3	6.3	16.7	1.7	2.3	5.3	2.7	3.7	3.7	5.0	6.7	3.3	5.0	
FZ 1367	7.0	2.0	8.0	61.7	3.0	9.0	4.7	4.0	4.3	4.7	4.3	5.3	5.0	4.9	
DALZ 1408	7.3	2.0	8.0	56.7	3.7	9.0	4.3	4.0	4.3	4.7	4.3	4.7	5.3	4.8	
FZ 1436	6.0	2.3	8.0	68.3	3.0	9.0	4.0	3.7	4.3	4.7	4.7	5.3	4.3	4.8	
FAES 1335	6.3	2.3	7.0	61.7	3.7	9.0	4.7	3.7	4.7	4.0	4.3	5.7	4.0	4.7	
DALZ 1613	6.0	2.7	7.0	51.7	3.3	9.0	5.0	4.0	5.0	5.0	3.7	5.0	5.0	4.6	
DALZ 1714	6.7	2.3	7.0	71.7	5.7	8.3	5.0	4.0	4.3	5.0	3.0	5.0	5.7	4.6	
DALZ 1808	6.7	4.7	6.0	35.0	2.7	7.7	4.7	3.7	4.7	4.0	4.3	5.7	3.7	4.6	
FZ 1440	6.0	2.0	8.0	60.0	3.0	9.0	5.3	4.3	5.0	4.3	4.0	5.3	4.3	4.6	
DALZ 1614	6.0	3.0	7.0	61.7	3.0	8.7	4.7	4.7	5.3	4.7	3.3	5.0	5.0	4.4	
DALZ 1701	7.0	4.0	6.3	41.7	2.0	7.0	5.3	3.7	5.7	4.0	4.0	5.0	3.7	4.2	
EMPIRE	6.3	3.0	5.0	63.3	2.7	8.7	5.0	5.0	6.0	5.3	2.3	5.0	5.0	4.1	
FZ 1410	6.0	2.0	5.7	81.7	4.0	9.0	5.7	5.3	5.7	5.7	2.3	4.0	5.7	4.0	
DALZ 1806	7.5	1.7	8.0	79.7	5.3	9.0	3.7	3.3	5.5	4.3	4.0	3.7	4.7	3.9	
FZ 1368	5.3	1.7	7.7	83.3	3.7	9.0	4.7	4.0	4.3	4.7	2.3	4.3	5.0	3.9	
16-TZ-12783	6.3	1.3	7.7	91.7	3.3	9.0	3.3	4.3	4.7	5.3	2.3	3.7	5.3	3.8	
FZ 1723	5.0	2.3	7.7	66.3	3.7	9.0	4.0	3.0	3.0	4.3	3.0	4.0	4.3	3.8	
15-TZ-11715	6.3	3.0	7.7	70.0	3.7	9.0	3.7	4.0	4.7	5.0	2.3	3.7	5.0	3.7	
FZ 1722	6.7	2.0	7.3	82.7	3.0	9.0	3.3	2.7	4.0	4.0	2.3	4.3	4.3	3.7	
FZ 1727	6.5	1.3	8.0	90.0	5.0	9.0	2.7	3.0	3.3	5.0	2.0	3.0	5.7	3.6	
FZ 1728	7.7	1.0	8.0	96.0	4.7	9.0	3.0	3.7	3.3	4.7	2.0	2.7	5.3	3.3	
16-TZ-13463	6.5	1.3	7.7	91.3	4.3	9.0	2.7	2.3	3.0	4.3	2.0	3.3	4.3	3.2	
FZ 1327	6.0	2.0	6.3	84.3	2.7	9.0	4.0	3.3	4.0	4.7	2.3	3.3	3.7	3.1	
MEYER	7.5	2.5	5.5	40.0	1.0	8.0	3.0	3.0	3.5	3.0	3.0	3.5	2.0	2.8	
FZ 1721	5.5	1.7	7.7	91.0	3.3	9.0	2.7	2.5	3.0	4.5	1.7	2.7	3.3	2.6	
LSD VALUE	2.3	1.1	0.7	26.4	2.3	0.9	1.7	1.7	2.6	2.3	1.9	2.1	2.2	1.5	
C.V. (%)	14.2	26.3	6.3	28.2	33.3	6.9	21.3	22.5	24.4	19.6	29.5	23.3	21.8	19.0	

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 8.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN UNDER SHADE AT COLLEGE STATION, TX 1/  
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	APR	MAY	JUN	QUALITY RATINGS			SEP	OCT	MEAN
							JUL	AUG				
FAES 1319	6.7	3.0	6.0	3.7	6.0	7.7	7.0	5.7	5.3	5.0	5.8	
DALZ 1311	6.3	3.7	5.0	4.0	6.0	6.7	6.3	5.3	5.0	5.3	5.5	
UGA GZ 17-4	6.7	3.7	8.0	4.3	5.7	5.3	5.7	6.0	5.3	5.7	5.4	
16-TZ-12783	6.7	2.3	5.7	3.3	4.3	5.7	6.3	6.0	5.0	6.3	5.3	
DALZ 1713	6.7	2.7	6.3	3.7	5.7	6.3	6.3	5.3	5.0	4.7	5.3	
DALZ 1714	6.0	2.0	5.7	2.0	3.7	4.7	5.7	5.7	6.3	7.3	5.0	
FZ 1422	6.7	3.3	6.7	3.3	5.0	6.3	5.7	5.7	4.0	4.3	4.9	
FZ 1727	6.0	3.3	7.3	3.0	4.0	4.3	5.7	6.0	5.3	5.7	4.9	
15-TZ-11715	6.0	4.0	7.3	3.7	4.0	4.7	6.7	6.0	4.3	4.3	4.8	
DALZ 1802	7.7	2.3	8.0	2.7	3.7	4.7	5.7	5.7	5.3	6.0	4.8	
EMPIRE	6.0	3.3	5.3	4.0	5.0	6.0	5.0	5.0	4.3	4.0	4.8	
DALZ 1701	7.0	2.7	6.0	2.7	3.7	4.3	6.0	6.0	4.7	5.7	4.7	
DALZ 1808	7.3	3.0	7.0	3.0	3.0	3.3	5.0	6.0	5.7	6.0	4.6	
DALZ 1408	5.3	2.3	7.7	2.7	4.0	5.7	5.7	4.3	4.3	5.0	4.5	
DALZ 1409	6.0	3.7	7.0	3.7	4.0	6.0	4.7	5.3	4.3	3.7	4.5	
DALZ 1603	6.5	3.0	5.0	2.0	2.5	3.0	5.5	5.5	5.0	7.0	4.4	
DALZ 1614	6.0	3.0	7.3	3.3	3.7	4.7	5.0	4.7	4.3	4.7	4.3	
DALZ 1707	7.0	3.0	7.3	2.7	2.3	3.0	5.7	6.0	5.0	5.3	4.3	
DALZ 1613	5.7	2.3	7.0	1.7	2.7	2.7	6.0	5.3	5.0	5.7	4.1	
FAES 1335	6.0	2.3	7.0	3.7	3.7	5.7	5.0	4.3	3.3	3.3	4.1	
FZ 1436	5.3	2.0	7.7	2.3	3.7	5.3	5.0	4.7	4.0	4.0	4.1	
EMERALD	7.3	3.3	8.0	4.3	5.0	5.0	4.3	3.7	3.3	2.3	4.0	
ZEON	6.7	3.0	7.3	3.0	3.7	4.0	4.3	4.3	4.0	4.7	4.0	
16-TZ-13463	6.3	1.7	7.3	2.0	2.7	3.3	5.3	5.3	4.0	4.3	3.9	
FZ 1722	7.7	2.0	7.3	2.0	1.7	2.3	4.3	6.0	5.0	5.3	3.8	
FZ 1367	6.0	2.0	8.0	2.3	2.7	4.3	4.7	4.3	3.3	4.0	3.7	
FZ 1327	7.0	2.5	5.0	3.0	3.5	4.5	4.5	4.0	3.0	2.5	3.6	
FZ 1440	6.0	1.7	7.7	2.3	2.3	2.7	4.7	4.0	4.0	4.3	3.5	
DALZ 1601	5.0	1.7	5.3	2.0	2.0	2.3	4.3	4.7	4.0	4.3	3.4	
FZ 1368	7.5	2.3	7.0	2.3	3.7	4.0	5.0	4.0	4.0	4.5	3.3	
FZ 1723	6.5	2.5	6.5	2.5	3.0	4.0	4.0	4.0	3.0	2.5	3.3	
FZ 1410	6.7	1.7	4.7	1.7	2.0	1.7	4.3	4.3	4.0	4.3	3.2	
DALZ 1806	8.0	2.0	7.7	1.7	2.0	2.0	4.0	3.3	4.0	4.0	3.0	
FZ 1721	6.7	2.0	7.0	1.7	2.0	2.7	3.3	4.3	3.7	3.7	3.0	
DALZ 1807	7.7	3.3	7.7	2.0	2.3	2.3	3.3	3.0	3.3	3.3	2.8	
MEYER	6.3	2.0	5.3	1.7	2.0	2.3	3.7	3.7	3.0	3.3	2.8	
FZ 1407	6.3	1.7	5.0	1.3	1.3	1.7	3.3	2.7	2.7	3.3	2.3	
FZ 1728	8.0	1.5	8.0	1.0	1.0	1.0	3.0	4.0	5.0	7.0	2.1	
FZ 1732	5.7	1.7	7.0	1.0	1.0	1.3	2.3	2.7	2.3	2.3	1.9	
LSD VALUE	1.0	2.7	0.9	2.9	4.2	5.4	5.0	2.7	3.6	4.6	3.0	
C.V. (%)	8.9	38.8	8.4	45.2	51.0	52.9	32.7	25.1	30.0	36.4	31.0	

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 8.  
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN UNDER SHADE AT COLLEGE STATION, TX 1/  
2023 DATA

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

NAME	PERCENT GROUND COVER RATINGS FROM APRIL-OCTOBER						
	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER
FAES 1319	63.3	86.7	93.3	91.7	88.3	73.3	71.7
DALZ 1311	66.7	86.7	90.0	86.7	95.0	78.3	81.7
UGA GZ 17-4	61.7	83.3	51.3	81.7	95.0	85.0	88.3
16-TZ-12783	46.7	58.3	61.7	91.7	91.7	85.0	86.7
DALZ 1713	50.0	85.0	88.3	91.7	90.0	75.0	60.0
DALZ 1714	28.3	53.3	58.3	71.7	83.3	91.7	93.3
FZ 1422	46.7	73.3	88.3	91.7	93.3	65.0	58.3
FZ 1727	46.7	60.0	60.0	88.3	93.3	85.0	85.0
15-TZ-11715	48.3	56.7	75.0	91.7	95.0	78.3	71.7
DALZ 1802	23.3	40.0	60.0	71.7	88.3	88.3	86.7
EMPIRE	46.7	73.3	75.0	81.7	90.0	65.0	65.0
DALZ 1701	20.0	48.3	58.3	75.0	81.7	76.7	80.0
DALZ 1808	35.0	35.0	51.7	75.0	85.0	85.0	85.0
DALZ 1408	18.3	51.7	61.7	81.7	95.0	65.0	85.0
DALZ 1409	33.3	58.3	76.7	68.3	95.0	58.3	60.0
DALZ 1603	17.5	40.0	50.0	75.0	92.5	82.5	90.0
DALZ 1614	38.3	53.3	55.0	71.7	73.3	68.3	68.3
DALZ 1707	36.7	30.0	38.3	75.0	85.0	73.3	81.7
DALZ 1613	16.7	25.0	43.3	73.3	80.0	78.3	75.0
FAES 1335	51.7	60.0	61.7	68.3	71.7	48.3	50.0
FZ 1436	15.0	48.3	63.3	75.0	78.3	56.7	61.7
EMERALD	58.3	66.7	55.0	63.3	71.7	25.0	31.7
ZEON	38.3	55.0	55.0	61.7	71.7	53.3	75.0
16-TZ-13463	15.0	25.0	40.0	78.3	86.7	53.3	58.3
FZ 1722	16.7	25.0	25.0	68.3	81.7	70.0	68.3
FZ 1367	11.7	30.0	41.7	63.3	70.0	48.3	71.7
FZ 1327	42.5	40.0	50.0	70.0	72.5	37.5	35.0
FZ 1440	8.3	23.3	33.3	60.0	63.3	56.7	76.7
DALZ 1601	16.7	40.0	47.5	55.0	58.3	60.0	61.7
FZ 1368	18.3	48.3	48.3	70.0	75.0	60.0	80.0
FZ 1723	15.0	47.5	47.5	55.0	67.5	32.5	20.0
FZ 1410	13.3	13.3	25.0	55.0	65.0	60.0	68.3
DALZ 1806	18.3	30.0	28.3	53.3	63.3	75.0	73.3
FZ 1721	15.0	16.7	30.0	46.7	61.7	63.3	63.3
DALZ 1807	13.3	25.0	20.0	33.3	53.3	50.0	53.3
MEYER	10.0	16.7	38.3	55.0	56.7	50.0	53.3
FZ 1407	11.7	13.3	13.3	28.3	30.0	26.7	38.3
FZ 1728	5.0	5.0	15.0	45.0	50.0	75.0	85.0
FZ 1732	5.0	8.3	8.3	30.0	33.3	28.3	35.0
LSD VALUE	49.2	64.9	72.6	60.5	54.0	66.7	74.7
C.V. (%)	74.8	61.7	55.4	33.5	28.6	38.3	37.2

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 9.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS  
GROWN FOR LARGE PATCH DISEASE AT JAY, FL 1/  
2023 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	COLOR OCTOBER	COLOR NOVEMBER	SEEDHEAD	LARGE PATCH	APR	MAY	JUN	QUALITY RATINGS				MEAN	
											JUL	AUG	SEP	OCT		
FAES 1319	8.0	5.3	3.0	7.7	6.7	3.7	1.0	5.3	6.3	7.0	8.0	9.0	7.7	7.7	7.0	7.3
DALZ 1707	7.7	5.0	4.3	7.0	6.3	1.0	1.7	5.0	6.0	7.0	7.7	8.3	8.0	8.0	7.7	7.2
DALZ 1601	7.3	5.7	1.3	7.3	6.7	4.0	1.0	4.7	6.7	7.0	7.7	8.3	7.3	8.0	7.3	7.1
EMPIRE	7.3	5.3	1.3	7.7	6.7	4.7	1.7	5.0	6.0	7.0	7.7	8.7	7.3	7.7	7.3	7.1
DALZ 1311	7.3	5.7	2.0	8.0	7.0	4.3	1.0	4.3	6.0	7.0	7.3	8.3	7.3	8.0	7.3	7.0
DALZ 1603	7.0	5.7	2.3	8.0	6.7	4.0	1.7	5.0	6.0	6.7	7.7	8.3	7.0	7.7	7.7	7.0
DALZ 1713	6.7	5.7	5.3	6.7	6.0	4.3	2.0	5.0	6.3	7.0	7.0	8.0	7.7	8.0	7.3	7.0
EMERALD	8.3	4.0	6.7	7.0	6.0	1.0	2.0	4.3	5.3	6.7	8.0	8.3	7.7	8.0	7.3	7.0
DALZ 1701	8.3	5.3	4.0	9.0	7.7	2.0	1.0	4.3	5.7	6.7	7.3	8.3	7.0	7.7	7.7	6.8
DALZ 1714	7.0	4.7	3.7	6.3	5.3	1.7	2.0	3.7	5.3	6.3	7.0	8.0	8.0	8.3	8.0	6.8
FZ 1407	7.3	5.0	1.3	8.0	7.0	4.3	1.3	4.3	5.7	6.3	7.3	8.0	7.3	8.0	7.0	6.8
FZ 1410	7.7	5.0	2.0	8.3	7.0	3.0	1.7	5.0	6.0	6.3	7.7	8.7	7.0	7.0	6.7	6.8
FZ 1422	7.3	4.0	6.0	7.3	5.3	1.3	2.7	4.0	5.0	6.7	7.3	8.7	7.7	8.0	7.0	6.8
15-TZ-11715	8.3	4.3	7.0	8.0	6.7	3.3	1.7	4.3	5.0	5.7	7.0	8.0	8.0	8.0	7.3	6.7
16-TZ-12783	7.7	5.0	4.0	7.3	5.7	1.0	2.7	4.3	5.7	6.3	6.7	7.7	7.7	7.7	7.3	6.7
FZ 1732	7.3	5.0	7.0	6.3	5.7	3.0	1.0	4.0	5.3	6.7	8.0	8.0	7.3	7.3	7.0	6.7
DALZ 1802	9.0	3.7	6.7	8.7	7.7	1.0	1.0	3.7	4.7	6.0	6.7	8.7	7.0	8.7	7.7	6.6
DALZ 1808	6.3	4.3	3.0	6.3	6.0	1.3	1.0	4.0	5.3	6.0	7.0	8.3	6.7	7.7	7.0	6.5
FZ 1722	7.3	4.3	6.3	6.7	5.7	2.0	1.0	3.7	5.3	6.7	7.0	8.0	7.0	7.3	6.7	6.5
FAES 1335	7.3	3.7	6.0	6.7	6.3	1.0	1.3	4.3	4.7	5.3	6.7	8.0	7.0	7.7	7.7	6.4
DALZ 1409	7.3	4.7	8.7	7.3	5.7	1.0	1.7	4.0	5.3	6.3	6.0	6.3	7.3	8.0	6.7	6.3
DALZ 1806	7.3	4.0	8.3	6.0	5.0	1.3	3.0	3.7	5.0	6.0	6.0	7.3	7.3	7.7	7.0	6.3
FZ 1368	7.0	5.3	5.7	7.7	6.0	2.3	2.0	4.0	5.3	6.0	6.3	7.3	7.0	7.3	6.7	6.3
UGA GZ 17-4	6.7	5.0	8.3	7.0	6.3	1.0	1.3	4.0	5.3	6.7	6.0	6.3	7.7	7.7	6.7	6.3
ZEON	8.0	4.0	7.7	6.3	6.0	1.7	1.3	3.7	5.0	5.3	7.0	7.7	7.0	7.7	7.3	6.3
FZ 1327	7.0	5.3	1.0	7.0	5.7	4.7	1.3	4.3	5.3	6.3	7.0	7.7	6.0	6.3	6.7	6.2
FZ 1723	7.0	4.3	7.3	6.3	5.3	1.3	2.3	3.7	4.0	6.0	6.7	7.7	6.7	7.7	7.0	6.2
DALZ 1613	6.0	3.7	6.0	6.0	6.0	3.0	1.7	3.3	4.7	6.0	6.7	7.3	6.3	7.3	7.0	6.1
DALZ 1807	8.0	4.7	8.7	6.7	6.3	1.3	2.0	4.0	4.7	5.7	6.7	7.0	6.7	7.3	7.0	6.1
16-TZ-13463	7.3	3.7	6.0	8.0	7.3	2.0	1.3	3.7	4.7	5.3	6.0	7.3	7.0	7.3	7.0	6.0
DALZ 1408	7.0	5.0	8.0	6.3	5.7	1.7	2.3	3.3	4.3	5.7	6.7	7.0	7.0	7.0	6.7	6.0
DALZ 1614	6.3	4.7	6.0	6.0	5.3	2.0	1.0	3.3	4.7	5.7	6.0	6.7	6.7	7.0	7.0	5.9
FZ 1727	7.3	3.0	6.7	8.0	6.7	1.0	1.7	2.7	3.3	5.3	6.3	7.3	7.7	7.7	7.0	5.9
FZ 1367	6.3	3.7	7.7	7.7	7.0	1.3	2.0	2.7	4.0	6.0	6.3	7.0	7.0	6.7	6.7	5.8
FZ 1436	6.3	3.7	7.7	6.0	6.0	1.7	2.7	3.0	4.3	5.7	6.7	7.0	6.3	6.7	6.3	5.8
FZ 1440	6.7	4.0	7.7	6.7	6.0	1.0	2.7	3.0	4.3	5.7	6.3	6.7	6.7	6.7	6.7	5.8
MEYER	8.0	3.7	4.3	6.7	4.0	1.7	3.3	3.0	3.3	5.3	6.0	7.0	5.3	5.7	5.3	5.1
FZ 1728	6.7	3.3	7.0	6.7	5.7	1.0	1.7	2.7	2.7	3.7	5.0	5.3	5.3	5.3	5.3	4.4
FZ 1721	6.0	2.0	8.0	6.3	5.0	1.0	2.7	1.7	1.7	1.7	3.0	4.0	4.3	5.3	5.0	3.3
LSD VALUE	1.1	1.2	1.7	1.3	1.4	1.0	1.6	1.1	1.0	0.9	1.2	1.1	1.2	1.0	1.0	0.5
C.V. (%)	8.5	16.5	20.7	10.7	12.6	32.1	43.9	16.5	12.6	9.5	11.0	9.1	9.9	8.2	8.1	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 10. GENETIC COLOR RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/							
NAME	CA3	GA1	IN1	KS1	OK1	TN1	MEAN
FZ 1727	7.0	6.7	8.0	7.7	6.7	6.3	7.1
FZ 1327	7.0	6.3	7.3	7.0	7.7	7.0	7.1
DALZ 1701	7.7	6.7	7.7	7.0	7.0	6.0	7.0
FZ 1440	7.0	6.3	8.0	6.7	7.0	7.0	7.0
16-TZ-13463	7.7	6.0	7.5	6.7	7.7	6.3	7.0
16-TZ-12783	7.0	6.0	7.0	7.7	7.0	6.7	6.9
EMPIRE	7.3	6.3	7.7	6.3	7.3	6.3	6.9
15-TZ-11715	6.7	6.3	7.7	7.0	7.0	6.3	6.8
FZ 1722	7.0	6.0	7.0	7.3	7.0	6.3	6.8
MEYER	7.0	6.0	7.3	7.7	6.0	6.7	6.8
DALZ 1601	7.0	6.0	6.7	6.7	7.0	7.0	6.7
EMERALD	7.3	6.0	7.3	7.0	6.3	6.3	6.7
FZ 1422	7.0	6.0	7.3	6.7	6.3	7.0	6.7
DALZ 1707	7.0	6.3	7.3	6.3	6.7	6.3	6.7
FZ 1732	6.7	6.3	7.3	7.0	7.0	5.7	6.7
FAES 1335	6.7	6.3	7.0	7.0	6.3	6.3	6.6
FZ 1410	7.3	6.0	7.3	6.3	6.7	6.0	6.6
FZ 1407	6.7	6.0	7.3	6.3	6.7	6.3	6.6
DALZ 1603	6.3	6.3	7.0	6.0	6.7	7.0	6.6
FZ 1723	6.7	6.0	7.3	6.3	6.3	6.7	6.6
FZ 1728	5.7	6.3	.	7.7	6.7	6.3	6.5
DALZ 1613	6.0	6.3	7.0	6.7	6.3	6.7	6.5
FAES 1319	7.0	6.0	7.0	6.3	6.7	5.7	6.4
DALZ 1614	6.7	6.0	6.7	6.0	7.0	6.0	6.4
ZEON	6.3	6.0	7.0	6.3	6.3	6.3	6.4
DALZ 1409	6.7	6.7	.	6.3	6.0	6.0	6.3
DALZ 1806	7.7	6.0	.	4.0	7.7	6.3	6.3
DALZ 1311	6.7	6.0	7.0	5.7	6.3	6.3	6.3
FZ 1367	6.0	6.3	.	6.3	7.0	6.0	6.3
UGA GZ 17-4	7.0	6.0	8.0	4.3	6.7	5.7	6.3
DALZ 1714	5.7	6.0	.	5.3	7.3	7.0	6.3
DALZ 1713	6.0	6.3	7.0	6.0	6.3	5.7	6.2
DALZ 1408	6.7	6.0	.	5.7	7.3	5.3	6.2
DALZ 1808	6.3	6.0	6.0	6.3	6.0	6.0	6.1
FZ 1436	5.3	6.0	.	4.3	7.3	6.0	5.8
FZ 1721	5.7	6.0	.	4.0	6.7	5.7	5.6
DALZ 1802	7.3	5.7	.	1.0	7.7	6.3	5.6
FZ 1368	6.7	6.0	.	1.0	7.3	6.3	5.5
DALZ 1807	6.3	6.0	.	1.0	7.5	5.7	5.3
LSD VALUE	1.2	0.6	1.0	1.8	1.1	1.3	0.5
C.V. (%)	10.8	6.0	7.1	18.6	10.3	12.9	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 11. SPRING GREENUP RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

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

NAME	CA3	FL1	IN1	KS1	MD1	NC1	OK1	TN1	MEAN
DALZ 1808	7.3	7.3	6.7	6.0	7.7	5.0	5.7	5.0	6.3
DALZ 1701	6.3	7.0	5.7	5.3	8.3	4.0	6.7	5.7	6.1
MEYER	3.3	4.7	6.3	7.0	8.3	5.0	6.3	6.3	5.9
FAES 1319	7.3	7.7	5.7	4.0	7.3	5.0	4.0	4.7	5.7
DALZ 1707	5.3	4.3	5.3	5.7	7.0	5.7	5.3	5.7	5.5
FZ 1327	6.7	5.7	4.0	6.3	6.7	4.0	3.7	6.0	5.4
DALZ 1603	4.7	6.0	4.3	5.0	7.0	4.7	4.7	6.0	5.3
EMERALD	4.3	6.7	4.0	4.3	7.0	4.3	6.0	5.7	5.3
FZ 1422	3.7	6.7	6.3	4.0	7.3	3.3	4.3	6.0	5.2
DALZ 1601	4.7	4.7	4.7	5.3	7.0	4.3	4.0	6.7	5.2
ZEON	4.0	5.7	5.3	5.0	6.7	3.0	5.0	5.0	5.0
FZ 1407	4.7	5.3	4.7	4.7	5.7	3.7	4.0	5.7	4.8
DALZ 1311	3.7	5.0	4.3	5.3	6.3	4.7	3.7	4.3	4.7
FZ 1723	4.7	6.3	3.0	2.7	7.0	3.0	4.3	5.7	4.6
DALZ 1614	5.7	5.7	4.3	2.7	4.3	4.3	3.7	4.7	4.4
15-TZ-11715	4.3	6.0	3.7	3.3	5.7	3.3	3.0	6.0	4.4
EMPIRE	3.3	4.7	4.3	4.3	6.3	3.7	4.3	3.7	4.3
FZ 1410	3.7	4.3	4.7	4.7	5.3	3.0	3.3	5.7	4.3
DALZ 1613	4.3	5.7	4.7	2.3	4.0	3.0	3.3	6.3	4.2
FZ 1732	5.0	7.7	3.0	1.7	4.3	2.3	4.0	5.0	4.1
DALZ 1409	4.3	6.7	.	1.0	2.7	3.0	5.0	5.0	4.0
DALZ 1807	3.7	4.0	.	1.0	6.3	3.0	3.3	6.3	4.0
FZ 1368	2.7	8.0	.	1.0	5.0	2.3	3.0	5.3	3.9
FZ 1722	5.0	7.7	1.7	1.3	3.7	3.3	2.7	5.3	3.8
DALZ 1714	3.7	5.3	.	1.7	3.3	3.0	3.0	6.7	3.8
16-TZ-13463	5.0	5.7	2.0	2.0	4.3	4.3	2.7	4.3	3.8
UGA GZ 17-4	5.0	7.7	1.3	1.0	3.3	4.0	3.7	4.0	3.8
FAES 1335	5.7	5.7	1.7	1.7	3.7	2.7	3.0	5.7	3.7
DALZ 1713	3.7	6.7	5.0	1.3	3.0	2.0	3.0	4.0	3.6
FZ 1440	4.0	6.3	3.3	1.0	2.3	2.0	2.7	7.0	3.6
DALZ 1806	3.7	6.0	1.3	1.0	4.7	2.0	2.7	6.3	3.5
DALZ 1802	4.7	5.7	.	1.0	2.0	2.0	3.0	5.7	3.4
16-TZ-12783	4.3	5.7	1.3	1.0	3.0	3.3	2.7	6.0	3.4
FZ 1727	3.7	5.3	2.3	1.7	3.3	2.3	3.3	5.3	3.4
DALZ 1408	3.7	7.0	.	1.3	2.3	2.3	2.0	4.0	3.2
FZ 1721	2.7	4.0	.	2.3	5.7	1.0	1.3	5.3	3.2
FZ 1367	4.3	6.7	1.0	1.0	2.0	2.3	2.0	5.7	3.1
FZ 1436	3.7	6.7	1.0	1.0	2.0	2.7	3.0	5.0	3.1
FZ 1728	2.0	6.0	1.3	1.0	3.3	1.3	3.3	6.3	3.1
LSD VALUE	1.4	2.0	1.8	1.2	1.3	1.1	1.5	1.8	0.5
C.V. (%)	20.4	20.8	28.6	25.7	16.0	20.1	25.4	20.8	22.0

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 12. LEAF TEXTURE RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

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

NAME	CA3	IN1	TN1	MEAN
DALZ 1802	8.0	.	8.0	8.0
UGA GZ 17-4	7.0	8.0	8.7	7.9
DALZ 1806	6.7	.	9.0	7.8
FZ 1367	7.0	.	8.7	7.8
FZ 1728	7.0	.	8.7	7.8
ZEON	7.0	8.3	8.0	7.8
DALZ 1408	7.0	.	8.3	7.7
DALZ 1409	7.0	.	8.3	7.7
DALZ 1807	7.7	.	7.7	7.7
FZ 1727	7.0	7.7	8.0	7.6
FZ 1436	7.0	.	8.0	7.5
FZ 1721	7.0	.	7.7	7.3
EMERALD	6.3	8.0	7.7	7.3
DALZ 1614	6.0	7.0	8.7	7.2
FZ 1440	7.0	6.0	8.3	7.1
FZ 1722	6.0	7.0	8.3	7.1
FZ 1723	6.0	7.3	8.0	7.1
DALZ 1613	6.0	6.7	8.3	7.0
FZ 1368	6.3	.	7.7	7.0
FZ 1422	5.3	6.7	9.0	7.0
15-TZ-11715	6.3	7.0	7.0	6.8
FZ 1732	6.3	7.0	7.0	6.8
DALZ 1713	5.7	6.0	8.3	6.7
FAES 1335	5.7	6.5	7.7	6.6
DALZ 1707	5.0	6.7	7.7	6.4
FAES 1319	5.0	5.7	8.7	6.4
16-TZ-13463	5.3	7.0	7.0	6.4
DALZ 1701	4.7	6.3	8.0	6.3
16-TZ-12783	4.7	6.0	8.0	6.2
DALZ 1714	5.3	.	7.0	6.2
DALZ 1808	5.0	5.3	8.0	6.1
MEYER	4.3	5.7	7.0	5.7
FZ 1407	3.7	3.3	8.3	5.1
EMPIRE	3.7	3.0	8.3	5.0
FZ 1327	3.3	3.7	8.0	5.0
DALZ 1311	3.3	3.7	7.7	4.9
FZ 1410	3.3	3.3	8.0	4.9
DALZ 1601	3.7	3.0	7.3	4.7
DALZ 1603	3.7	3.3	7.0	4.7
LSD VALUE	0.7	0.9	1.3	0.6
C.V. (%)	7.9	8.0	10.0	9.3

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

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

TABLE 13. SPRING DENSITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

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

NAME	TN1
FAES 1319	6.3
FZ 1368	6.0
DALZ 1707	5.7
FZ 1732	5.7
DALZ 1408	5.3
DALZ 1807	5.3
16-TZ-12783	5.0
DALZ 1808	5.0
EMERALD	5.0
FZ 1410	5.0
FZ 1422	5.0
ZEON	5.0
FZ 1407	4.7
DALZ 1409	4.3
DALZ 1601	4.3
DALZ 1701	4.3
DALZ 1806	4.3
FZ 1327	4.3
FZ 1436	4.3
FZ 1440	4.3
FZ 1728	4.3
16-TZ-13463	4.0
DALZ 1603	4.0
DALZ 1613	4.0
DALZ 1614	4.0
DALZ 1714	4.0
DALZ 1802	4.0
FZ 1722	4.0
FZ 1723	4.0
FZ 1727	4.0
DALZ 1311	3.7
EMPIRE	3.7
FAES 1335	3.7
FZ 1367	3.7
FZ 1721	3.7
MEYER	3.7
15-TZ-11715	3.3
UGA GZ 17-4	3.3
DALZ 1713	3.0
LSD VALUE	2.4
C.V. (%)	34.6

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 14. SUMMER DENSITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

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

NAME	IN1	NC1	TN1	MEAN
EMERALD	7.0	8.0	5.7	6.9
ZEON	7.0	8.0	5.7	6.9
DALZ 1707	5.7	8.0	6.7	6.8
FZ 1723	7.0	7.7	5.3	6.7
FZ 1732	6.7	8.0	5.3	6.7
FZ 1422	6.0	7.7	6.0	6.6
DALZ 1613	6.3	7.3	6.0	6.6
FZ 1727	6.3	8.0	5.3	6.6
DALZ 1408	.	7.7	5.3	6.5
FZ 1722	6.5	7.7	5.3	6.5
UGA GZ 17-4	.	7.3	5.7	6.5
DALZ 1614	6.3	8.0	5.0	6.4
DALZ 1802	.	8.0	4.7	6.3
FAES 1319	5.7	7.3	6.0	6.3
FZ 1368	.	6.3	6.3	6.3
15-TZ-11715	6.0	7.7	5.0	6.2
DALZ 1808	5.7	7.0	6.0	6.2
DALZ 1806	.	6.7	5.7	6.2
DALZ 1409	.	7.0	5.0	6.0
DALZ 1701	6.0	7.0	5.0	6.0
DALZ 1714	.	5.7	6.3	6.0
FZ 1410	4.0	7.0	7.0	6.0
FZ 1367	.	6.7	5.0	5.8
16-TZ-13463	6.0	6.7	4.7	5.8
16-TZ-12783	5.0	6.3	6.0	5.8
DALZ 1311	4.0	7.0	6.0	5.7
FAES 1335	5.0	6.0	6.0	5.7
FZ 1440	5.0	6.3	5.7	5.7
FZ 1407	4.0	7.0	5.7	5.6
FZ 1436	.	5.3	5.7	5.5
DALZ 1603	4.0	6.7	5.7	5.4
DALZ 1601	4.0	7.0	5.3	5.4
FZ 1327	4.0	7.0	5.3	5.4
DALZ 1713	6.0	5.0	5.0	5.3
FZ 1728	.	4.3	5.7	5.0
EMPIRE	4.0	6.3	4.3	4.9
DALZ 1807	.	4.7	5.0	4.8
MEYER	5.0	5.0	4.3	4.8
FZ 1721	.	2.7	4.7	3.7
LSD VALUE	0.6	1.5	2.8	1.2
C.V. (%)	6.2	13.6	31.4	20.7

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. FALL DENSITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

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

NAME	TN1
EMERALD	7.0
FZ 1422	6.7
FZ 1727	6.7
DALZ 1808	6.3
FAES 1335	6.3
FZ 1722	6.3
FZ 1723	6.3
MEYER	6.3
16-TZ-13463	6.0
DALZ 1603	6.0
16-TZ-12783	5.7
DALZ 1408	5.7
DALZ 1409	5.7
DALZ 1707	5.7
FZ 1410	5.7
FZ 1440	5.7
FZ 1728	5.7
DALZ 1601	5.3
DALZ 1613	5.3
DALZ 1614	5.3
DALZ 1806	5.3
FZ 1327	5.3
ZEON	5.3
DALZ 1713	5.0
FZ 1407	5.0
FZ 1436	5.0
FZ 1732	5.0
15-TZ-11715	4.7
DALZ 1311	4.7
DALZ 1714	4.7
EMPIRE	4.7
FAES 1319	4.7
FZ 1368	4.7
FZ 1721	4.7
UGA GZ 17-4	4.7
DALZ 1807	4.3
FZ 1367	4.3
DALZ 1701	4.0
DALZ 1802	4.0
LSD VALUE	3.1
C.V. (%)	35.4

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 16. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	TN1
DALZ 1714	51.3
FZ 1440	51.0
FZ 1422	48.0
16-TZ-12783	45.3
DALZ 1601	43.3
FZ 1728	43.3
DALZ 1603	42.3
MEYER	39.7
DALZ 1806	39.3
DALZ 1613	38.7
DALZ 1701	38.7
DALZ 1807	36.0
FZ 1327	32.7
15-TZ-11715	31.7
DALZ 1802	31.7
FZ 1407	29.7
FZ 1723	28.3
FZ 1721	27.7
FZ 1722	27.7
FZ 1410	27.3
FZ 1367	26.0
DALZ 1707	25.7
FAES 1335	23.7
FZ 1732	23.3
EMERALD	22.3
FZ 1727	20.3
FZ 1368	18.7
DALZ 1408	18.0
FZ 1436	16.0
ZEON	15.7
DALZ 1409	15.3
EMPIRE	15.3
DALZ 1713	14.7
DALZ 1808	12.7
UGA GZ 17-4	12.0
DALZ 1614	11.7
FAES 1319	8.3
16-TZ-13463	7.7
DALZ 1311	4.7
LSD VALUE	26.3
C.V. (%)	59.9

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 17. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	TN1
FZ 1422	94.3
FZ 1728	93.3
FAES 1319	93.0
ZEON	93.0
DALZ 1408	92.7
DALZ 1707	92.7
DALZ 1808	92.7
FAES 1335	92.7
DALZ 1613	92.0
EMERALD	92.0
FZ 1368	92.0
FZ 1407	92.0
16-TZ-12783	91.7
UGA GZ 17-4	91.7
DALZ 1714	91.3
DALZ 1806	91.3
DALZ 1601	91.0
FZ 1436	91.0
FZ 1722	91.0
FZ 1732	91.0
FZ 1327	90.7
FZ 1723	90.7
16-TZ-13463	90.3
DALZ 1713	90.3
FZ 1727	90.3
DALZ 1807	90.0
FZ 1410	90.0
DALZ 1603	89.7
DALZ 1802	89.3
FZ 1367	89.3
FZ 1440	89.3
FZ 1721	89.0
15-TZ-11715	88.0
EMPIRE	88.0
DALZ 1614	87.3
DALZ 1701	87.3
DALZ 1409	86.0
MEYER	84.0
DALZ 1311	64.7
LSD VALUE	13.4
C.V. (%)	9.3

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

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

TABLE 18. PERCENT LIVING GROUND COVER (FALL) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	TN1
16-TZ-13463	70.0
UGA GZ 17-4	65.7
FZ 1410	65.0
FZ 1727	64.3
FAES 1335	63.7
DALZ 1614	63.3
EMERALD	63.0
FZ 1723	63.0
DALZ 1603	62.3
DALZ 1408	59.3
15-TZ-11715	58.3
DALZ 1601	58.0
FZ 1440	58.0
DALZ 1713	57.0
FZ 1327	56.7
FZ 1407	55.0
DALZ 1613	54.7
DALZ 1707	54.7
DALZ 1409	54.3
ZEON	54.0
FZ 1728	53.7
16-TZ-12783	53.0
DALZ 1806	53.0
FZ 1436	52.3
FZ 1722	52.0
EMPIRE	51.7
FAES 1319	51.7
FZ 1732	51.0
DALZ 1714	50.7
FZ 1721	49.3
FZ 1367	49.0
DALZ 1311	48.7
DALZ 1808	48.0
DALZ 1701	47.7
FZ 1368	46.3
FZ 1422	46.0
DALZ 1807	42.7
DALZ 1802	41.3
MEYER	38.3
LSD VALUE	24.5
C.V. (%)	27.9

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 19.

WINTER COLOR RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

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

NAME	FL1
FZ 1368	6.7
UGA GZ 17-4	6.3
16-TZ-12783	6.0
16-TZ-13463	6.0
DALZ 1408	6.0
DALZ 1713	5.7
DALZ 1714	5.7
DALZ 1807	5.7
FAES 1319	5.3
FAES 1335	5.3
FZ 1722	5.3
15-TZ-11715	5.0
DALZ 1409	5.0
DALZ 1701	5.0
DALZ 1707	5.0
DALZ 1802	5.0
DALZ 1806	5.0
FZ 1436	5.0
FZ 1723	5.0
FZ 1728	5.0
EMERALD	4.7
FZ 1440	4.7
FZ 1732	4.7
DALZ 1808	4.3
FZ 1327	4.3
FZ 1721	4.3
ZEON	4.3
DALZ 1311	4.0
DALZ 1601	4.0
DALZ 1603	4.0
DALZ 1614	4.0
EMPIRE	4.0
FZ 1407	4.0
FZ 1410	4.0
FZ 1422	4.0
FZ 1367	3.7
MEYER	3.7
DALZ 1613	3.0
FZ 1727	3.0
LSD VALUE	1.2
C.V. (%)	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 20.

PERCENT WINTER KILL RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

## PERCENT WINTER KILL RATINGS: LOCATIONS 2/

NAME	IN1
FZ 1367	99.0
FZ 1436	99.0
DALZ 1806	95.0
UGA GZ 17-4	91.0
FZ 1728	87.0
FAES 1335	83.0
16-TZ-12783	78.7
FZ 1722	74.7
16-TZ-13463	66.3
FZ 1440	62.0
FZ 1727	49.7
FZ 1732	45.7
FZ 1723	41.3
15-TZ-11715	37.0
DALZ 1713	37.0
FZ 1327	37.0
DALZ 1613	33.3
DALZ 1311	33.0
DALZ 1614	29.0
EMPIRE	29.0
FZ 1410	29.0
FAES 1319	25.0
DALZ 1603	24.7
DALZ 1601	20.7
EMERALD	20.7
FZ 1407	20.7
FZ 1422	18.5
DALZ 1707	16.3
MEYER	16.3
ZEON	16.3
DALZ 1808	12.0
DALZ 1701	8.0
LSD VALUE	25.4
C.V. (%)	32.8

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 21.

DROUGHT TOLERANCE (WILTING) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

DROUGHT TOLERANCE (WILTING) RATINGS 1-9; 9=NO WILTING 2/

NAME	KS1
15-TZ-11715	9.0
DALZ 1311	9.0
DALZ 1408	9.0
DALZ 1409	9.0
DALZ 1601	9.0
DALZ 1701	9.0
DALZ 1713	9.0
DALZ 1714	9.0
EMPIRE	9.0
FAES 1335	9.0
FZ 1407	9.0
FZ 1410	9.0
FZ 1422	9.0
FZ 1721	9.0
ZEON	9.0
DALZ 1603	8.7
DALZ 1613	8.7
DALZ 1808	8.7
EMERALD	8.7
FZ 1327	8.7
FZ 1367	8.5
DALZ 1707	8.3
FZ 1440	8.3
FZ 1728	8.3
FZ 1732	8.3
DALZ 1806	8.0
FAES 1319	8.0
FZ 1436	8.0
FZ 1722	8.0
FZ 1723	8.0
FZ 1727	8.0
UGA GZ 17-4	8.0
16-TZ-12783	7.3
DALZ 1614	7.3
16-TZ-13463	6.7
MEYER	6.0
LSD VALUE	1.3
C.V. (%)	8.2

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 22.

DOLLAR SPOT RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

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

NAME	NC1
15-TZ-11715	8.7
DALZ 1707	8.3
EMPIRE	8.0
FZ 1410	8.0
FZ 1732	8.0
MEYER	7.7
DALZ 1311	7.3
FZ 1407	7.3
DALZ 1601	7.0
DALZ 1603	7.0
DALZ 1701	7.0
DALZ 1713	7.0
DALZ 1808	6.7
FAES 1319	6.7
FZ 1723	6.7
DALZ 1613	6.3
FZ 1327	6.3
FZ 1727	6.3
16-TZ-13463	6.0
FZ 1422	6.0
FZ 1722	5.7
DALZ 1807	5.0
EMERALD	5.0
FAES 1335	5.0
DALZ 1408	4.7
DALZ 1614	4.7
FZ 1728	4.7
FZ 1367	4.3
FZ 1440	4.3
DALZ 1714	4.0
FZ 1436	4.0
FZ 1721	4.0
UGA GZ 17-4	4.0
16-TZ-12783	3.7
DALZ 1802	3.7
DALZ 1806	3.7
FZ 1368	3.7
ZEON	3.7
DALZ 1409	3.0
LSD VALUE	2.3
C.V. (%)	25.1

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 23.

FALL COLOR (SEPTEMBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

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

NAME	GA1	TN1	MEAN
16-TZ-13463	6.7	5.0	5.8
DALZ 1713	6.7	5.0	5.8
FZ 1367	6.7	5.0	5.8
15-TZ-11715	6.7	4.7	5.7
DALZ 1409	6.3	5.0	5.7
DALZ 1603	6.3	5.0	5.7
DALZ 1613	6.3	5.0	5.7
DALZ 1707	6.3	5.0	5.7
DALZ 1802	6.3	5.0	5.7
FAES 1335	6.3	5.0	5.7
FZ 1327	6.3	5.0	5.7
FZ 1368	6.3	5.0	5.7
FZ 1422	6.3	5.0	5.7
FZ 1440	6.3	5.0	5.7
FZ 1727	6.3	5.0	5.7
FZ 1728	6.3	5.0	5.7
MEYER	6.0	5.3	5.7
16-TZ-12783	6.0	5.0	5.5
DALZ 1311	6.0	5.0	5.5
DALZ 1408	6.0	5.0	5.5
DALZ 1601	6.0	5.0	5.5
DALZ 1614	6.0	5.0	5.5
DALZ 1806	6.0	5.0	5.5
DALZ 1807	6.0	5.0	5.5
DALZ 1808	6.0	5.0	5.5
EMERALD	6.0	5.0	5.5
FAES 1319	6.0	5.0	5.5
FZ 1407	6.0	5.0	5.5
FZ 1410	6.0	5.0	5.5
FZ 1436	6.0	5.0	5.5
FZ 1721	6.0	5.0	5.5
FZ 1722	6.0	5.0	5.5
FZ 1723	6.0	5.0	5.5
FZ 1732	6.0	5.0	5.5
ZEON	6.0	5.0	5.5
DALZ 1714	6.0	4.7	5.3
EMPIRE	6.0	4.7	5.3
UGA GZ 17-4	6.0	4.7	5.3
DALZ 1701	6.3	4.3	5.3
LSD VALUE	0.6	0.4	0.4
C.V. (%)	6.2	5.6	6.0

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

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

TABLE 24.

FALL COLOR (OCTOBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

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

NAME	GA1	IN1	KS1	TN1	MEAN
FZ 1727	6.7	6.7	7.0	4.0	6.1
DALZ 1613	6.0	7.3	7.0	4.0	6.1
DALZ 1614	6.0	7.0	7.0	4.3	6.1
UGA GZ 17-4	6.0	7.5	6.5	4.3	6.1
FZ 1327	6.0	6.7	7.0	4.3	6.0
FZ 1367	6.7	.	7.0	4.3	6.0
FZ 1732	6.0	7.3	6.7	4.0	6.0
FAES 1319	6.0	7.0	6.7	4.0	5.9
FAES 1335	6.0	6.7	6.7	4.3	5.9
DALZ 1701	6.0	7.0	6.3	4.3	5.9
FZ 1722	6.0	7.0	6.3	4.3	5.9
EMERALD	6.0	6.0	6.7	4.7	5.8
16-TZ-13463	6.7	6.3	6.0	4.3	5.8
DALZ 1806	6.0	7.0	6.3	4.0	5.8
DALZ 1409	6.0	.	7.0	4.3	5.8
ZEON	6.0	5.7	7.0	4.3	5.8
16-TZ-12783	6.0	6.3	6.3	4.3	5.8
FZ 1440	6.7	5.5	6.7	4.0	5.7
15-TZ-11715	6.3	5.7	6.7	4.0	5.7
DALZ 1707	6.3	5.7	6.7	4.0	5.7
DALZ 1714	6.0	.	7.0	4.0	5.7
FZ 1436	6.0	.	6.7	4.3	5.7
FZ 1721	6.0	.	7.0	4.0	5.7
DALZ 1408	6.0	6.0	6.3	4.3	5.7
DALZ 1601	6.0	5.3	7.0	4.3	5.7
DALZ 1713	6.3	5.0	7.0	4.3	5.7
FZ 1407	6.0	6.3	6.3	4.0	5.7
DALZ 1311	6.0	5.7	6.7	4.0	5.6
DALZ 1603	6.0	5.3	7.0	4.0	5.6
FZ 1723	6.0	6.3	5.3	4.7	5.6
EMPIRE	6.0	5.7	6.3	4.0	5.5
FZ 1410	6.0	5.3	6.3	4.3	5.5
FZ 1728	6.0	5.7	6.0	4.0	5.4
DALZ 1808	6.0	5.0	6.3	4.3	5.4
FZ 1422	6.3	4.3	6.0	4.7	5.3
FZ 1368	6.3	.	.	4.0	5.2
DALZ 1802	6.0	.	.	4.0	5.0
DALZ 1807	6.0	.	.	4.0	5.0
MEYER	6.0	4.3	3.7	4.3	4.6
LSD VALUE	0.4	1.7	1.0	0.7	0.5
C.V. (%)	4.5	15.5	9.0	10.1	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 25.

FALL COLOR (NOVEMBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

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

NAME	OK1	TN1	MEAN
DALZ 1802	5.0	3.7	4.3
DALZ 1807	5.0	3.7	4.3
DALZ 1806	4.0	4.0	4.0
15-TZ-11715	4.0	3.7	3.8
DALZ 1613	3.3	4.0	3.7
FZ 1722	3.3	4.0	3.7
FZ 1723	3.3	4.0	3.7
16-TZ-13463	3.7	3.7	3.7
DALZ 1714	3.7	3.7	3.7
ZEON	3.7	3.7	3.7
DALZ 1409	3.0	4.0	3.5
DALZ 1601	3.3	3.7	3.5
DALZ 1603	3.0	4.0	3.5
EMERALD	3.3	3.7	3.5
FAES 1319	3.0	4.0	3.5
FZ 1410	3.0	4.0	3.5
FZ 1721	3.3	3.7	3.5
DALZ 1701	3.0	3.7	3.3
DALZ 1707	2.7	4.0	3.3
DALZ 1808	2.7	4.0	3.3
FAES 1335	2.7	4.0	3.3
FZ 1407	3.0	3.7	3.3
FZ 1422	2.7	4.0	3.3
FZ 1728	2.7	4.0	3.3
DALZ 1311	3.0	3.3	3.2
16-TZ-12783	2.7	3.7	3.2
DALZ 1614	2.7	3.7	3.2
EMPIRE	2.7	3.7	3.2
FZ 1727	2.7	3.7	3.2
DALZ 1713	2.3	3.7	3.0
FZ 1327	2.3	3.7	3.0
FZ 1367	2.0	4.0	3.0
FZ 1732	2.0	4.0	3.0
MEYER	2.0	4.0	3.0
UGA GZ 17-4	2.7	3.3	3.0
FZ 1368	2.3	3.3	2.8
DALZ 1408	2.0	3.7	2.8
FZ 1440	2.0	3.7	2.8
FZ 1436	2.0	3.3	2.7
LSD VALUE	1.1	0.7	0.7
C.V. (%)	23.4	11.8	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 26.

SEEDHEAD RATINGS OF ZOYSIAGRASS CULTIVARS 1/  
2023 DATA

NAME	SEEDHEAD RATINGS 1-9; 9=NONE 2/			
	CA3	KS1	OK1	MEAN
16-TZ-13463	6.3	9.0	9.0	8.1
16-TZ-12783	6.0	9.0	9.0	8.0
FAES 1335	6.0	8.7	9.0	7.9
DALZ 1808	8.0	6.3	9.0	7.8
DALZ 1807	6.3	.	9.0	7.7
ZEON	5.0	8.3	9.0	7.4
FZ 1368	5.3	8.0	9.0	7.4
DALZ 1409	4.0	9.0	9.0	7.3
DALZ 1613	4.3	8.7	9.0	7.3
FZ 1440	4.7	9.0	8.0	7.2
15-TZ-11715	4.0	8.7	9.0	7.2
FZ 1727	3.7	9.0	9.0	7.2
UGA GZ 17-4	3.7	9.0	9.0	7.2
FZ 1422	6.0	6.3	9.0	7.1
DALZ 1713	4.0	9.0	8.0	7.0
DALZ 1806	3.0	9.0	9.0	7.0
FZ 1436	3.0	9.0	9.0	7.0
FZ 1728	5.3	9.0	6.7	7.0
DALZ 1714	2.3	9.0	9.0	6.8
FZ 1367	2.7	9.0	8.7	6.8
FZ 1722	2.7	8.7	9.0	6.8
DALZ 1614	2.0	9.0	9.0	6.7
FZ 1721	4.0	7.0	9.0	6.7
EMERALD	4.0	6.7	9.0	6.6
FAES 1319	5.0	6.0	8.7	6.6
FZ 1723	2.0	8.3	9.0	6.4
DALZ 1603	5.7	5.7	7.0	6.1
DALZ 1408	3.0	6.0	9.0	6.0
DALZ 1802	3.0	.	9.0	6.0
FZ 1327	3.7	6.7	7.7	6.0
EMPIRE	4.3	6.3	7.0	5.9
FZ 1732	1.3	9.0	7.0	5.8
DALZ 1311	5.3	5.3	6.3	5.7
DALZ 1601	4.3	6.7	5.7	5.6
FZ 1407	4.0	6.0	6.3	5.4
FZ 1410	4.0	6.0	6.3	5.4
MEYER	3.3	6.3	6.7	5.4
DALZ 1707	1.3	6.3	8.3	5.3
DALZ 1701	1.3	4.7	9.0	5.0
LSD VALUE	1.8	1.3	1.8	1.0
C.V. (%)	27.9	9.0	13.3	15.3

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.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR ZOYSIAGRASS CULTIVARS \*/  
2023 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF \*\*/

NAME	QUALITY	MAXIMUM
	MEAN 1/	IN TOP 25% 2/
15-TZ-11715	5.8	10
16-TZ-12783	5.5	20
16-TZ-13463	5.5	10
DALZ 1311	5.9	10
DALZ 1408	5.7	30
DALZ 1409	5.8	20
DALZ 1601	6.1	30
DALZ 1603	6.1	20
DALZ 1613	6.0	10
DALZ 1614	5.9	30
DALZ 1701	6.4	60
DALZ 1707	6.3	60
DALZ 1713	5.6	20
DALZ 1714	5.1	0
DALZ 1802	4.8	10
DALZ 1806	4.8	20
DALZ 1807	4.4	10
DALZ 1808	6.5	60
EMERALD	6.3	60
EMPIRE	5.8	10
FAES 1319	6.4	40
FAES 1335	5.7	40
FZ 1327	6.1	20
FZ 1367	5.4	20
FZ 1368	4.9	10
FZ 1407	5.9	30
FZ 1410	6.0	10
FZ 1422	6.3	50
FZ 1436	5.2	10
FZ 1440	5.5	10
FZ 1721	4.2	0
FZ 1722	6.0	60
FZ 1723	6.0	20
FZ 1727	6.0	30
FZ 1728	5.0	0
FZ 1732	6.1	20
MEYER	5.6	10
UGA GZ 17-4	5.3	20
ZEON	6.0	20
LSD VALUE	0.3	
C.V. (%)	10.9	

\*/ 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.