

NATIONAL TURFGRASS EVALUATION PROGRAM

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

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

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

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A Guide to NTEP Turfgrass Ratings

Introduction

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

General Considerations

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

Turfgrass Quality

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

Turfgrass quality ratings are grouped and presented by region, management level, a particular stress (shade, traffic, etc.) and in some cases, by individual location (starting with 2007 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>.

2007 NATIONAL ZOYSIAGRASS TEST

LOCATIONS SUBMITTING DATA FOR 2007-12

<u>State</u>	<u>Location</u>	<u>Code</u>
California	Riverside	CA3
Florida	Gainesville	FL1
Indiana	West Lafayette	IN1
Kansas	Manhattan	KS1
New Mexico	Las Cruces (Salt Tolerance)	NM1
North Carolina	Raleigh	NC1
Texas	Dallas	TX1

2007 NATIONAL ZOYSIAGRASS TEST

Entries and Sponsors

Entry No.	Name	Type	Sponsor
* 1	Zenith	seeded	Standard entry
* 2	Meyer	vegetative	Standard entry
* 3	Zorro	vegetative	Standard entry
4	DALZ 0501	vegetative	Texas A&M Dallas & Phillip Jennings Turf
5	DALZ 0701	vegetative	Texas A&M Dallas
6	DALZ 0702	vegetative	Texas A&M Dallas
* 7	Shadowturf	vegetative	Ivey Gardens
8	L1F	vegetative	Bladerunner Farms
9	29-2	vegetative	Bladerunner Farms
10	240	vegetative	Bladerunner Farms
11	380-1	vegetative	Bladerunner Farms

* COMMERCIALY AVAILABLE IN THE USA IN 2013.

TABLE A. Taken from the 2007 Zoysiagrass test - final data report with permission from NTEP
 2007-12 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
 THE 2007 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	0-150	1.1-2.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
FL1	SAND	6.6-7.0	-	-	0.0-1.0	FULL SUN	1.6-2.0	TO PREVENT STRESS
IN1	SANDY CLAY LOAM	7.1-7.5	61-150	241-375	2.1-3.0	FULL SUN	0.6-1.0	ONLY DURING SEVERE STRESS
KS1	SANDY CLAY LOAM	6.6-7.0	61-150	241-375	1.1-2.0	FULL SUN	0.6-1.0	TO PREVENT DORMANCY
NC1	SILTY CLAY AND CLAY	6.1-6.5	61-150	0-150	3.1-4.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NM1	LOAMY SAND	7.6-8.5	-	-	5.1-6.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
TX1	SILTY CLAY AND CLAY	7.6-8.5	151-270	241-375	3.1-4.0	FULL SUN	1.6-2.0	TO PREVENT DORMANCY

TABLE B. LOCATIONS AND DATA COLLECTED IN 2007-12

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
FL1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
IN1				X	X	X	X	X	X	X			X	X	X
KS1					X	X	X	X	X				X	X	X
NC1				X	X	X	X	X	X	X	X		X	X	X
NM1			X	X	X	X	X	X	X	X	X		X	X	
TX1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2007-12

LOCATION	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	FROST TOLERANCE	WINTER COLOR	PERCENT WINTER KILL	DROUGHT TOLERANCE WILTING	DROUGHT TOLERANCE DORMANCY	DOLLAR SPOT	BROWN PATCH COOL TEMP.	BILLBUG RATINGS
CA3	X	X	X	X				X	X						
FL1		X	X	X	X	X			X				X	X	
IN1						X				X					
KS1					X	X				X					X
NC1			X		X	X			X				X		
NM1					X	X	X								
TX1		X	X	X					X		X	X			

LOCATIONS AND DATA COLLECTED IN 2007-12

LOCATION	FALL COLOR SEPTEMBER	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	FALL COLOR DECEMBER	SEEDHEAD RATINGS	POA ANNUA	PERCENT ESTABLISHMENT	WEED RATINGS	MOLE CRICKET DAMAGE	LARGE PATCH NOV	BROWN PATCH DEC	PERCENT ESTABLISHMENT MAY	PERCENT ESTABLISHMENT JUN	PERCENT ESTABLISHMENT JUL	PERCENT ESTABLISHMENT AUG	PERCENT ESTABLISHMENT SEP	PERCENT ESTABLISHMENT OCT	PERCENT ESTABLISHMENT NOV	
CA3			X	X		X	X	X											
* FL1	X	X	X	X					X	X	X								
IN1																			
KS1		X	X				X												
* NC1		X	X	X		X													
NM1	X	X	X									X	X	X	X	X	X	X	X
TX1	X	X	X	X															

* MORE DOLLAR SPOT DATA AT "NC1" IN TABLE 41 AND MORE PERCENT ESTABLISHMENT DATA AT "FL1" IN TABLE 42.

TABLE 1. TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
 Taken from the 2007 Zoysiagrass test - final data report with permission from NTEP
 GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 **/

2010 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NC1	IN1	KS1	MEAN
* MEYER	7.2	7.2	6.7	7.0
29-2	6.8	6.8	6.2	6.6
* ZENITH	6.0	6.2	5.7	6.0
240	5.8	5.5	5.7	5.7
380-1	7.5	3.6	5.8	5.6
* ZORRO	7.2	3.4	3.3	4.6
DALZ 0702	7.3	4.9	1.4	4.5
L1F	7.2	4.7	1.0	4.3
DALZ 0501	7.0	4.6	1.0	4.2
* SHADOWTURF	6.8	4.3	1.2	4.1
DALZ 0701	6.3	3.0	1.0	3.4
LSD VALUE	0.9	0.9	0.9	0.9
C.V. (%)	8.4	11.7	16.3	11.3

TABLE 2. TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
 GROWN AT THREE LOCATIONS IN THE U.S. FOR AMMI GROUP 2 **/

2010 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	TX1	CA3	MEAN
ZORRO	6.3	6.8	6.6
DALZ 0701	5.9	6.5	6.2
DALZ 0702	6.2	5.1	5.7
L1F	6.1	4.8	5.5
DALZ 0501	5.9	4.6	5.3
380-1	5.5	4.5	5.0
SHADOWTURF	5.6	4.4	5.0
29-2	3.9	5.0	4.4
MEYER	3.8	3.3	3.6
ZENITH	3.0	4.1	3.6
240	2.7	3.3	3.0
LSD VALUE	0.9	0.9	0.9
C.V. (%)	11.5	12.1	11.8

* COMMERCIALY AVAILABLE IN THE USA IN 2013.

** ENTRIES WITHIN THIS TABLE ARE ORDERED BY THE OVERALL MEAN AND HAVE SIMILAR TURF QUALITY PERFORMANCES IN ALL TEST LOCATIONS INCLUDED IN THIS AMMI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE AN AMMI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON AMMI, GO TO WWW.NTEP.ORG/AMMI_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/
 Taken from the 2007 Zoysiagrass test - final data report with permission from NTEP
 GROWN AT FIVE LOCATIONS IN THE U.S. FOR AMMI GROUP 1 */

2011 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	KS1	IN1	NC1	FL1	CA3	MEAN
ZORRO	7.7	7.0	8.4	5.7	6.1	7.0
380-1	7.5	6.3	7.4	4.6	4.9	6.1
29-2	7.1	5.7	6.7	3.8	4.1	5.5
MEYER	7.1	5.4	6.2	3.2	3.5	5.1
DALZ 0702	2.1	4.1	7.4	5.5	6.0	5.0
DALZ 0701	1.4	3.8	7.3	5.5	6.0	4.8
ZENITH	6.7	5.0	5.9	2.9	3.2	4.8
240	6.3	4.8	5.7	2.8	3.1	4.5
L1F	1.2	3.5	6.9	5.1	5.7	4.5
DALZ 0501	1.2	3.5	6.9	5.0	5.6	4.4
SHADOWTURF	0.9	3.2	6.6	4.8	5.4	4.2
LSD VALUE	1.1	1.1	1.1	1.1	1.1	1.1
C.V. (%)	14.7	13.8	9.6	14.8	13.5	12.9

TABLE 4. TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
 GROWN AT ONE LOCATION IN THE U.S. FOR AMMI GROUP 2 */

2011 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	TX1
DALZ 0701	6.2
DALZ 0702	6.2
L1F	5.9
DALZ 0501	5.8
ZORRO	5.7
SHADOWTURF	5.6
380-1	4.4
29-2	3.6
MEYER	2.9
ZENITH	2.6
240	2.5
LSD VALUE	1.1
C.V. (%)	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 AMMI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE AN AMMI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON AMMI, GO TO WWW.NTEP.ORG/AMMI_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. TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
 Taken from the 2007 Zoysiagrass test - final data report with permission from NTEP GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 */

2012 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	FL1	TX1	KS1	CA3	MEAN
ZORRO	5.2	6.5	7.8	5.8	6.3
L1F	5.2	6.3	5.3	5.6	5.6
DALZ 0702	5.1	6.5	4.1	5.5	5.3
DALZ 0501	4.8	6.2	4.9	5.2	5.3
SHADOWTURF	4.9	6.5	2.5	5.3	4.8
DALZ 0701	4.9	6.5	2.0	5.2	4.7
380-1	4.6	4.2	4.4	4.6	4.4
29-2	3.7	3.0	5.7	3.8	4.0
MEYER	3.7	2.4	5.1	3.6	3.7
ZENITH	3.1	2.4	5.4	3.2	3.5
240	3.1	2.3	3.0	3.0	2.8
LSD VALUE	1.2	1.2	1.2	1.2	1.2
C.V. (%)	17.2	15.7	16.5	16.3	16.4

TABLE 6. TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
 GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */

2012 DATA
 TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NC1	IN1	MEAN
380-1	7.3	5.2	6.3
ZORRO	7.3	5.2	6.2
L1F	7.2	5.0	6.1
DALZ 0702	7.1	4.7	5.9
MEYER	6.9	4.9	5.9
SHADOWTURF	6.8	4.4	5.6
29-2	6.5	4.6	5.6
DALZ 0501	6.7	4.4	5.5
DALZ 0701	6.6	4.2	5.4
ZENITH	6.1	4.1	5.1
240	6.0	3.9	4.9
LSD VALUE	1.2	1.2	1.2
C.V. (%)	11.1	16.4	13.3

- */ 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
- 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 RATINGS OF ZOYSIAGRASS CULTIVARS
 Taken from the 2007 Zoysiagrass test - final data report with permission from NTEP
 AT RIVERSIDE, CA 1/
 2008-12 DATA

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

NAME	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
ZORRO	6.8	6.5	6.3	6.7	7.2	7.2	7.2	7.3	6.5	7.0	6.9
DALZ 0701	6.3	6.0	5.7	5.9	6.3	6.8	7.0	7.3	6.6	7.7	6.6
DALZ 0702	5.0	5.7	5.0	5.4	5.7	5.8	6.2	6.6	5.7	7.0	5.9
DALZ 0501	5.0	5.8	4.4	5.3	5.8	5.7	5.7	6.1	5.7	7.0	5.7
L1F	5.0	5.5	4.6	5.3	5.8	5.5	5.8	6.5	5.7	6.7	5.7
SHADOWTURF	4.3	5.5	4.3	5.2	6.1	5.7	5.4	6.4	5.1	7.0	5.6
29-2	4.7	5.7	4.4	4.8	5.0	5.7	5.2	4.8	4.7	6.0	5.2
380-1	4.0	5.0	4.5	4.4	4.7	5.0	5.1	5.2	4.3	5.3	4.9
ZENITH	4.5	5.7	3.6	4.0	4.1	4.9	4.2	4.1	4.2	6.0	4.5
MEYER	3.5	4.2	3.7	3.4	3.3	3.8	3.8	4.0	3.4	5.0	3.9
240	2.7	4.2	2.8	3.0	3.0	4.3	3.9	3.3	3.6	5.0	3.7
LSD VALUE	1.7	1.8	1.0	0.6	0.7	0.7	0.8	0.7	1.0	0.7	0.7
C.V. (%)	29.6	22.5	28.6	18.1	17.7	20.4	23.5	17.0	29.0	6.7	19.1

TABLE 8. MEAN TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS
 AT GAINESVILLE, FL 1/
 2007-12 DATA

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

NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
DALZ 0701	4.1	3.8	4.7	5.0	4.4	5.7	5.1	5.7	5.8	6.3	6.3	5.8	5.4
DALZ 0702	3.9	3.8	4.3	4.8	5.1	6.3	6.0	6.6	5.5	6.1	5.7	6.3	5.4
L1F	4.1	3.9	3.8	4.3	5.0	5.8	6.1	6.4	6.2	6.1	6.2	6.1	5.4
SHADOWTURF	3.9	3.1	3.7	4.2	4.8	5.4	5.4	5.9	6.3	5.9	5.8	6.2	5.3
ZORRO	3.3	3.1	4.6	5.1	5.0	5.4	5.6	5.6	5.6	4.8	5.3	5.0	4.8
DALZ 0501	3.6	3.3	3.6	4.1	3.8	4.8	4.9	4.7	5.2	5.8	5.0	6.2	4.7
380-1	2.1	2.4	3.9	4.2	3.8	4.9	4.7	5.8	5.2	3.8	3.1	3.4	3.9
ZENITH	2.1	1.9	2.7	3.0	3.1	4.7	5.0	4.6	4.9	4.6	3.7	3.5	3.9
29-2	2.3	1.9	2.4	2.7	3.2	5.0	4.8	4.3	4.1	3.8	3.8	3.9	3.7
240	1.8	1.6	2.0	2.4	2.9	4.1	4.6	4.0	4.2	3.6	3.7	3.5	3.3
MEYER	1.9	1.3	1.9	2.1	2.4	3.3	3.3	3.1	3.6	3.2	3.1	3.3	3.0
LSD VALUE	1.4	0.8	1.0	1.0	1.2	1.4	1.5	1.2	0.9	1.0	0.9	1.1	0.6
C.V. (%)	47.1	33.9	32.0	29.7	31.9	27.1	28.2	25.7	23.1	23.9	25.4	30.3	17.9

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

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

3/ TURFGRASS QUALITY RATED IN 2008-09 AND 2011-12 FOR FL.

TABLE 9. MEAN TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS
 Taken from the 2007 Zoysiagrass test - final data report with permission from NTEP
 AT WEST LAFAYETTE, IN 1/
 2007-12 DATA

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

NAME	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
MEYER	6.7	6.0	6.1	6.5	6.1	7.1	5.9	6.2
29-2	6.7	5.9	5.8	5.8	6.3	6.8	6.0	6.0
ZENITH	6.0	5.7	5.8	5.7	6.1	6.8	5.9	5.8
240	4.3	4.3	4.7	4.7	5.5	5.8	5.0	4.9
ZORRO	2.0	3.1	3.4	3.8	5.2	4.7	3.2	4.0
380-1	2.3	3.0	3.2	3.9	4.5	4.1	2.8	3.8
DALZ 0701	1.0	1.9	1.6	2.4	2.6	2.8	1.8	2.3
DALZ 0501	.	1.0	1.7	1.7	2.0	2.0	2.0	1.7
L1F	.	1.0	1.0	1.3	1.7	1.7	1.7	1.4
SHADOWTURF	.	1.0	1.3	1.0	1.0	1.0	1.0	1.3
DALZ 0702	.	1.0	1.0	1.0	1.0	1.0	1.0	1.0
LSD VALUE	1.7	1.6	1.8	1.5	1.8	1.7	1.3	1.4
C.V. (%)	19.6	37.5	40.8	31.9	33.0	31.0	28.2	30.3

TABLE 10. MEAN TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS
 AT MANHATTAN, KS 1/
 2007-12 DATA

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

NAME	MAY	JUN	JUL	AUG	SEP	MEAN
ZORRO	2.5	5.5	6.6	7.3	7.9	6.7
380-1	3.8	5.8	6.9	6.6	6.4	6.3
29-2	5.7	5.8	6.1	6.3	6.7	6.2
MEYER	6.2	6.5	6.2	6.2	5.9	6.2
ZENITH	6.0	5.2	5.7	5.7	6.1	5.7
240	4.8	5.2	5.4	5.2	5.2	5.2
DALZ 0702	1.3	4.0	4.0	4.5	3.9	3.9
DALZ 0701	1.8	4.7	4.2	4.1	3.3	3.7
DALZ 0501	1.7	3.6	3.6	4.0	3.1	3.4
SHADOWTURF	1.0	2.7	2.9	3.5	3.3	2.9
L1F	1.0	1.1	0.9	1.4	1.8	1.3
LSD VALUE	1.1	1.4	1.4	1.5	1.6	1.1
C.V. (%)	31.8	36.5	39.9	42.2	40.3	34.9

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. MEAN TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS
 Taken from the 2007 Zoysiagrass test - final data report with permission from NTEP
 AT RALEIGH, NC 1/
 2007-12 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/									
NAME	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
380-1	6.7	7.7	7.7	8.0	7.6	7.2	6.9	6.8	7.4
ZORRO	6.8	7.5	6.5	6.9	7.7	7.7	7.7	8.0	7.4
DALZ 0702	7.0	6.9	6.3	6.7	7.2	7.5	7.6	7.5	7.1
DALZ 0501	5.7	6.3	6.5	6.9	7.4	7.5	7.7	6.9	7.0
MEYER	5.7	6.5	7.0	7.6	7.5	6.9	7.1	7.0	7.0
L1F	5.3	5.8	6.9	7.1	7.4	7.3	7.1	6.3	6.8
DALZ 0701	6.7	6.3	5.5	6.0	6.9	7.2	7.5	7.4	6.7
SHADOWTURF	6.2	5.9	6.2	6.7	7.1	7.1	7.3	6.2	6.6
29-2	5.0	5.3	6.6	6.8	6.4	6.1	5.9	6.3	6.1
240	4.8	5.3	6.3	6.2	6.5	5.9	5.6	5.3	5.8
ZENITH	5.8	5.3	5.9	5.7	5.5	5.5	5.8	5.3	5.6
LSD VALUE	1.6	0.6	0.7	0.6	0.6	0.5	0.6	0.5	0.4
C.V. (%)	19.8	14.6	15.2	14.0	12.4	10.4	12.2	11.2	9.1

TABLE 12. MEAN TURFGRASS QUALITY RATINGS OF ZOYSIAGRASS CULTIVARS
 AT DALLAS, TX 1/
 2007-12 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=BEST 2/													
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
DALZ 0702	4.6	4.5	4.7	5.3	6.1	6.5	7.3	7.1	7.0	7.2	7.1	6.5	6.2
ZORRO	4.1	4.2	5.0	5.3	6.1	6.8	6.9	7.1	6.9	6.9	6.9	6.4	6.1
DALZ 0501	4.7	4.6	4.9	4.8	5.4	5.8	6.6	7.0	6.9	7.0	7.2	6.5	6.0
L1F	4.7	4.6	4.7	4.6	5.3	5.9	6.8	6.9	6.9	7.3	7.6	6.3	6.0
DALZ 0701	4.4	4.3	4.7	5.2	5.7	6.2	6.5	6.2	6.5	6.7	6.9	6.3	5.8
SHADOWTURF	4.3	4.3	4.5	4.9	5.5	6.0	6.7	6.6	6.9	7.0	7.1	6.1	5.8
380-1	3.1	3.2	4.3	5.0	5.3	5.8	6.2	6.2	5.7	6.0	5.1	4.8	5.1
29-2	2.1	2.2	3.2	3.6	4.0	4.4	4.9	4.9	4.7	4.7	4.1	3.6	3.9
MEYER	2.2	1.8	3.0	3.4	3.7	4.1	4.5	4.2	4.3	4.1	3.7	3.1	3.5
240	2.1	2.3	2.9	3.3	3.4	3.5	3.9	3.9	3.7	3.6	3.6	3.5	3.3
ZENITH	2.3	2.1	2.9	3.3	3.2	3.6	4.2	4.1	3.7	3.9	3.6	3.1	3.3
LSD VALUE	0.9	0.8	1.0	1.2	1.1	0.7	0.9	0.8	0.7	0.9	0.9	0.6	0.6
C.V. (%)	38.1	35.9	35.7	37.3	32.1	20.1	22.1	20.9	20.0	22.8	23.2	18.7	18.6

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. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS
 Taken from the 2007 Zoysiagrass test - final data report with permission from NTEP

NAME	GENETIC COLOR	SPRING GREENUP	PERCENT COVER			QUALITY RATINGS							MEAN	
			SPRING	SUMMER	FALL	APR	MAY	JUN	JUL	AUG	SEP	OCT		NOV
L1F	7.4	3.0	50.2	66.7	96.7	4.2	4.6	4.9	5.6	6.2	5.8	5.7	5.7	5.6
SHADOWTURF	7.1	3.3	42.8	78.0	95.0	3.9	4.4	4.3	5.5	5.8	5.8	5.3	5.2	5.4
DALZ 0501	6.7	2.0	30.0	43.0	94.7	4.1	4.7	4.7	4.9	5.1	5.1	4.8	4.8	4.9
DALZ 0701	6.9	3.3	42.8	59.0	87.5	4.2	4.3	4.4	5.0	5.2	5.0	4.8	4.7	4.9
380-1	6.9	3.7	42.0	61.5	68.2	4.3	4.8	4.9	5.0	5.3	4.6	4.2	3.5	4.8
DALZ 0702	6.6	2.7	32.8	70.2	92.5	4.0	4.4	4.6	5.0	5.2	4.8	4.7	4.8	4.8
ZORRO	5.5	1.3	12.2	49.3	67.3	3.4	3.8	4.6	4.6	4.9	4.8	4.0	4.0	4.3
240	6.0	2.0	23.3	29.5	23.5	3.0	2.8	2.9	3.6	3.6	3.5	3.0	3.3	3.3
ZENITH	5.1	1.3	18.0	11.3	31.2	2.9	3.1	3.1	3.3	3.5	3.3	3.1	3.5	3.2
29-2	5.6	2.3	21.3	13.5	22.8	2.6	2.7	2.4	2.9	3.1	3.1	2.7	3.0	2.9
MEYER	5.3	1.7	7.0	7.5	23.0	2.7	2.9	3.0	2.7	2.8	2.8	2.9	3.7	2.8
LSD VALUE	0.8	0.8	71.3	41.7	19.7	1.0	1.0	1.3	1.0	1.0	1.1	1.1	1.7	0.9
C.V. (%)	19.2	19.3	102.8	75.3	29.3	29.3	28.2	33.3	29.0	29.3	31.2	35.1	30.8	28.2

TABLE 13. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF ZOYSIAGRASS CULTIVARS
 (CONT'D)
 GROWN UNDER SALT STRESS AT LAS CRUCES, NM 1/
 2008-12 DATA
 TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/

NAME	FALL COLOR			PERCENT ESTABLISHMENT RATINGS IN 2008					
	SEPTEMBER	OCTOBER	NOVEMBER	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER
L1F	7.8	7.8	5.4	12.7	21.3	48.0	68.0	92.7	87.0
SHADOWTURF	7.2	7.2	4.7	14.7	35.7	59.0	85.7	93.7	96.3
DALZ 0501	7.3	7.8	5.6	12.0	12.3	28.3	44.0	60.0	70.3
DALZ 0701	6.8	6.8	5.3	13.0	23.3	34.7	63.0	88.3	91.7
380-1	5.5	5.5	2.7	8.0	6.7	20.7	53.3	64.7	66.7
DALZ 0702	6.7	7.2	5.1	23.3	37.7	68.7	75.7	93.3	91.7
ZORRO	5.8	6.3	3.0	6.7	7.7	15.0	34.3	44.7	46.0
240	2.8	2.8	1.6	6.3	10.7	31.3	43.0	55.0	54.3
ZENITH	2.8	3.2	1.8	6.0	3.0	7.3	16.0	20.7	25.7
29-2	2.5	2.8	1.9	6.7	8.0	14.3	31.3	59.3	53.3
MEYER	2.8	2.7	1.4	4.7	2.7	4.7	14.7	18.3	20.7
LSD VALUE	2.0	1.8	1.8	7.8	17.7	24.0	33.1	23.3	21.1
C.V. (%)	33.9	30.8	56.1	42.6	65.0	47.1	38.9	23.0	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.

*/ THE FOLLOWING IS INFORMATION ON SALINITY AT THIS SITE:
 WATER QUALITY: PH 7.9, TOTAL DISSOLVED SOLIDS 1800, SAR 2.06
 SOIL QUALITY (MEASURED IN JUNE, NOV.; 0-4 INCH DEPTH): PH 7.8, 7.8; EC (dS/m) 2.1, 5.2; SAR 2.1, 8.5
 SOIL QUALITY (MEASURED IN JUNE, NOV.; 4-8 INCH DEPTH): PH 8.4, 8.0; EC (dS/m) 1.6, 2.4; SAR 2.2, 4.1

TABLE 14. GENETIC COLOR RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

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

NAME	CA3	FL1	IN1	KS1	NC1	TX1	MEAN
380-1	6.3	8.0	7.5	8.0	8.2	8.0	7.7
29-2	7.1	7.3	7.3	6.7	7.3	7.1	7.2
MEYER	6.2	6.7	7.1	7.0	7.1	7.5	7.1
240	7.3	6.8	7.3	7.7	7.3	5.4	6.8
DALZ 0702	5.4	7.3	.	7.0	5.8	6.9	6.4
ZORRO	6.2	6.5	7.6	7.0	5.2	7.2	6.4
SHADOWTURF	5.0	7.2	.	7.0	6.1	6.9	6.4
L1F	5.1	6.9	6.0	.	6.0	6.9	6.3
DALZ 0701	5.2	7.3	6.8	7.3	5.3	6.9	6.3
ZENITH	6.8	6.3	6.6	7.0	6.1	5.5	6.3
DALZ 0501	5.2	6.5	5.3	7.3	6.2	6.5	6.2
LSD VALUE	1.1	1.1	0.9	0.6	1.0	1.5	0.6
C.V. (%)	11.6	10.0	7.2	5.1	9.7	14.1	10.6

TABLE 15. SPRING GREENUP RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

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

NAME	CA3	FL1	IN1	KS1	NC1	TX1	MEAN
29-2	2.9	5.0	5.9	6.8	6.0	4.9	5.2
380-1	3.7	5.4	4.0	3.8	6.9	5.9	5.2
ZENITH	3.0	4.4	5.8	6.9	6.5	4.4	5.1
DALZ 0701	5.3	6.4	3.3	3.3	5.1	5.1	5.0
ZORRO	5.1	6.1	3.1	3.3	5.1	5.8	5.0
MEYER	2.9	4.0	5.7	5.4	6.5	4.4	4.9
240	1.9	3.2	4.8	5.2	5.9	5.0	4.5
DALZ 0702	4.5	6.3	1.0	2.0	4.9	4.9	4.4
L1F	4.6	5.0	1.0	0.0	3.1	4.9	3.7
DALZ 0501	4.3	5.1	1.0	0.3	2.9	5.1	3.7
SHADOWTURF	3.9	5.7	1.0	0.0	2.9	4.5	3.5
LSD VALUE	1.1	1.5	1.1	1.2	1.0	1.2	0.6
C.V. (%)	19.0	18.1	20.5	16.7	12.8	12.9	16.5

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

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

TABLE 16. LEAF TEXTURE RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

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

NAME	CA3	FL1	IN1	KS1	NC1	TX1	MEAN
SHADOWTURF	8.2	7.8	.	8.7	8.7	7.1	8.2
L1F	8.1	7.9	.	8.3	8.6	7.3	8.1
DALZ 0501	7.7	7.8	.	8.6	8.4	6.9	7.8
ZORRO	7.4	7.4	8.8	8.7	8.0	6.5	7.8
DALZ 0702	8.1	7.5	.	8.2	8.1	6.8	7.8
DALZ 0701	7.8	7.8	4.3	8.7	8.1	6.9	7.3
380-1	6.3	7.2	8.5	8.1	7.5	6.1	7.3
MEYER	4.6	5.2	7.0	6.5	6.7	5.3	6.0
240	3.6	5.3	6.6	5.9	5.8	5.1	5.4
29-2	4.1	5.3	6.6	5.9	5.9	4.9	5.4
ZENITH	2.8	4.5	4.6	5.0	5.1	4.4	4.6
LSD VALUE	0.9	0.6	1.0	1.0	0.6	0.8	0.4
C.V. (%)	9.4	5.3	8.4	7.1	5.0	8.2	6.8

TABLE 17. SEEDLING VIGOR RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007 DATA

SEEDLING VIGOR RATINGS 1-9; 9=MAXIMUM VIGOR 2/

NAME	CA3
ZENITH	4
LSD VALUE	0
C.V. (%)	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 18. SPRING DENSITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

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

NAME	CA3	FL1	TX1	MEAN
ZORRO	6.7	5.4	6.9	6.2
DALZ 0701	6.3	5.9	6.6	6.1
DALZ 0702	5.3	5.8	6.7	6.0
DALZ 0501	6.0	4.9	6.5	5.7
L1F	4.7	5.6	6.2	5.7
SHADOWTURF	4.7	6.0	6.1	5.7
380-1	5.0	4.2	6.1	5.2
29-2	5.0	3.1	4.4	4.0
ZENITH	5.7	3.1	3.9	3.9
MEYER	4.3	3.0	3.9	3.7
240	3.7	2.9	3.5	3.1
LSD VALUE	1.2	1.8	1.5	1.2
C.V. (%)	13.8	25.9	20.8	22.3

TABLE 19. SUMMER DENSITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

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

NAME	CA3	FL1	NC1	TX1	MEAN
L1F	7.3	6.9	7.3	8.0	7.5
DALZ 0702	7.0	6.7	7.2	8.4	7.4
ZORRO	7.7	5.6	7.5	8.3	7.2
SHADOWTURF	7.3	6.6	6.8	7.7	7.1
DALZ 0501	7.0	5.8	7.2	8.0	7.0
DALZ 0701	8.0	6.2	6.8	7.5	6.9
380-1	6.3	4.9	7.1	6.5	6.3
29-2	5.0	4.9	6.7	5.5	5.7
ZENITH	4.3	5.6	6.2	4.6	5.5
MEYER	5.3	3.6	7.3	5.2	5.5
240	3.0	4.6	6.2	4.1	4.8
LSD VALUE	1.0	2.1	1.3	2.1	1.2
C.V. (%)	9.7	23.5	12.4	19.7	18.1

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

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

TABLE 20. FALL DENSITY RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

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

NAME	CA3	FL1	TX1	MEAN
L1F	7.8	7.2	8.5	7.9
DALZ 0701	7.3	7.3	8.0	7.7
SHADOWTURF	7.5	6.9	8.2	7.7
DALZ 0501	7.7	6.6	8.5	7.7
DALZ 0702	7.5	6.8	8.3	7.6
ZORRO	7.0	6.8	8.3	7.6
380-1	5.3	4.8	6.7	5.8
29-2	4.5	4.8	6.4	5.6
ZENITH	3.0	4.8	5.4	4.9
MEYER	3.8	4.2	5.3	4.7
240	3.5	4.5	4.5	4.5
LSD VALUE	1.1	1.8	1.8	1.2
C.V. (%)	11.0	19.4	17.4	16.6

TABLE 21. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	FL1	KS1	NC1	MEAN
ZENITH	41.7	90.0	99.0	69.4
ZORRO	55.0	38.3	97.7	67.6
DALZ 0701	62.5	26.7	99.0	66.9
29-2	44.2	88.3	88.0	65.2
DALZ 0702	61.7	18.3	92.7	63.9
SHADOWTURF	62.5	3.0	97.7	62.2
DALZ 0501	55.8	18.3	96.0	61.4
380-1	46.7	65.0	75.0	60.6
MEYER	30.8	86.7	85.0	59.2
240	21.7	88.3	94.7	58.2
L1F	57.5	0.0	93.3	57.2
LSD VALUE	19.6	19.6	8.9	15.4
C.V. (%)	25.3	25.7	6.0	20.4

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

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

TABLE 22. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	FL1	IN1	KS1	NC1	MEAN
ZENITH	98.0	94.3	99.0	99.0	97.7
MEYER	90.0	93.3	99.0	93.3	92.6
29-2	88.3	91.7	99.0	94.7	91.7
240	90.3	70.0	99.0	96.3	89.4
ZORRO	86.7	45.0	88.3	97.7	81.8
DALZ 0701	90.0	0.0	66.7	99.0	72.6
380-1	76.7	16.0	93.0	91.7	71.8
DALZ 0702	90.0	0.0	51.7	97.7	69.9
DALZ 0501	88.3	21.7	33.3	99.0	69.8
SHADOWTURF	93.3	0.0	11.7	99.0	65.1
L1F	93.3	6.7	1.7	97.7	64.3
LSD VALUE	10.0	22.1	10.6	3.7	9.1
C.V. (%)	7.0	34.5	9.8	2.4	10.0

TABLE 23. FROST TOLERANCE RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

FROST TOLERANCE RATINGS 1-9; 9=NO INJURY 2/ 3/

NAME	CA3
DALZ 0701	5.0
DALZ 0501	4.3
DALZ 0702	4.3
ZORRO	4.0
L1F	3.0
SHADOWTURF	2.7
380-1	2.0
240	1.0
29-2	1.0
MEYER	1.0
ZENITH	1.0
LSD VALUE	0.5
C.V. (%)	11.3

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ FROST TOLERANCE RATED IN 2011 ONLY.

TABLE 24. WINTER COLOR RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

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

NAME	CA3	FL1	NC1	TX1	MEAN
DALZ 0702	4.8	5.0	5.7	4.2	5.1
DALZ 0501	5.4	4.7	5.2	4.5	5.1
DALZ 0701	5.7	4.2	4.7	4.2	4.8
L1F	4.4	4.7	5.1	4.2	4.7
ZORRO	3.7	3.7	6.1	4.0	4.7
SHADOWTURF	4.4	4.7	5.1	4.0	4.7
MEYER	1.0	2.0	7.8	2.0	4.5
ZENITH	1.3	2.1	7.0	2.0	4.2
29-2	1.3	2.7	6.8	1.5	4.1
240	1.0	2.2	6.5	2.3	3.9
380-1	1.8	1.9	6.1	2.3	3.7
LSD VALUE	1.3	1.4	1.0	1.2	0.8
C.V. (%)	25.5	25.4	10.4	28.4	17.3

TABLE 25. PERCENT WINTER KILL RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/ 3/

NAME	IN1	KS1	MEAN
L1F	99.0	99.0	99.0
SHADOWTURF	99.0	99.0	99.0
DALZ 0501	99.0	96.3	97.7
DALZ 0702	99.0	68.3	83.7
DALZ 0701	97.3	66.7	82.0
380-1	83.0	26.7	54.8
ZORRO	80.7	14.7	47.7
240	22.3	0.0	11.2
ZENITH	2.7	5.0	3.8
29-2	4.0	0.0	2.0
MEYER	1.7	0.0	0.8
LSD VALUE	13.0	10.6	11.8
C.V. (%)	12.9	15.2	14.1

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

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

3/ PERCENT WINTER KILL RATED IN 2008-09.

TABLE 26. DROUGHT TOLERANCE (WILTING) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

DROUGHT TOLERANCE (WILTING) RATINGS 1-9; 9=NO WILTING 2/ 3/

NAME	TX1
380-1	7.3
29-2	6.7
DALZ 0501	6.7
DALZ 0702	6.7
L1F	6.7
240	6.3
DALZ 0701	6.3
SHADOWTURF	6.3
ZENITH	6.3
ZORRO	6.0
MEYER	5.3
LSD VALUE	2.8
C.V. (%)	27.1

TABLE 27. DROUGHT TOLERANCE (DORMANCY) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

DROUGHT TOLERANCE (DORMANCY) RATINGS 1-9; 9=NO DORMANCY 2/ 3/

NAME	TX1
DALZ 0501	6.3
L1F	6.3
SHADOWTURF	6.3
ZORRO	5.7
DALZ 0701	5.3
DALZ 0702	5.3
MEYER	4.3
29-2	4.0
380-1	4.0
ZENITH	3.7
240	2.7
LSD VALUE	3.0
C.V. (%)	37.4

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ DROUGHT TOLERANCE (WILTING) RATED IN 2010 AND DROUGHT TOLERANCE (DORMANCY) RATED IN 2012.

TABLE 28. DOLLAR SPOT RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	FL1	NC1	MEAN
ZENITH	6.7	9.0	7.8
240	6.3	9.0	7.7
29-2	6.3	8.7	7.5
ZORRO	7.0	7.7	7.3
380-1	6.0	8.3	7.2
MEYER	5.7	8.7	7.2
DALZ 0501	5.3	8.7	7.0
SHADOWTURF	5.7	7.7	6.7
DALZ 0702	5.7	7.3	6.5
L1F	5.0	7.7	6.3
DALZ 0701	5.3	6.7	6.0
LSD VALUE	1.3	1.1	1.2
C.V. (%)	14.1	8.3	11.2

TABLE 29. BROWN PATCH (COOL TEMPERATURE) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	FL1
DALZ 0501	7.7
L1F	7.7
DALZ 0702	7.3
SHADOWTURF	7.3
ZORRO	6.7
DALZ 0701	6.3
240	3.7
29-2	3.3
380-1	3.3
MEYER	3.0
ZENITH	3.0
LSD VALUE	1.8
C.V. (%)	20.9

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ DOLLAR SPOT RATED IN 2008 & 2012 AND BROWN PATCH RATED IN 2009.

TABLE 30. BILLBUG DAMAGE RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

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

NAME	KS1
29-2	9.0
380-1	9.0
DALZ 0501	9.0
DALZ 0701	9.0
DALZ 0702	9.0
L1F	9.0
MEYER	9.0
SHADOWTURF	9.0
ZORRO	9.0
240	7.3
ZENITH	7.3
LSD VALUE	0.8
C.V. (%)	5.7

TABLE 31. FALL COLOR (SEPTEMBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

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

NAME	FL1	TX1	MEAN
380-1	5.7	8.8	7.3
DALZ 0701	6.5	7.5	7.0
SHADOWTURF	6.0	7.7	6.8
29-2	6.2	7.3	6.8
DALZ 0702	6.0	7.2	6.6
L1F	5.7	7.5	6.6
MEYER	4.8	7.5	6.2
ZORRO	5.2	7.0	6.1
DALZ 0501	5.2	6.8	6.0
ZENITH	4.8	6.0	5.4
240	4.8	5.8	5.3
LSD VALUE	2.0	1.1	1.5
C.V. (%)	23.0	9.3	16.2

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

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

3/ BILLBUG DAMAGE RATED IN 2010.

TABLE 32. FALL COLOR (OCTOBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

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

NAME	FL1	KS1	NC1	TX1	MEAN
DALZ 0702	6.5	5.9	7.0	7.7	6.5
SHADOWTURF	5.7	5.2	8.0	7.7	6.1
L1F	6.2	1.0	7.7	8.0	6.1
29-2	5.3	5.2	7.0	8.0	5.9
DALZ 0501	5.3	4.5	8.0	7.0	5.8
ZORRO	3.8	5.7	6.0	7.3	5.6
380-1	4.0	4.7	6.0	8.7	5.3
ZENITH	3.8	5.1	5.3	6.7	5.0
240	3.7	4.3	5.3	7.3	4.8
DALZ 0701	6.2	3.2	7.3	7.7	4.8
MEYER	3.0	4.1	6.3	8.0	4.5
LSD VALUE	1.9	1.6	0.9	0.7	1.1
C.V. (%)	23.4	25.8	8.6	6.0	18.7

TABLE 33. FALL COLOR (NOVEMBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

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

NAME	CA3	FL1	KS1	NC1	TX1	MEAN
L1F	4.7	6.7	2.3	7.5	7.6	7.1
DALZ 0701	5.7	6.3	2.0	7.7	7.3	7.1
DALZ 0501	4.0	5.3	2.3	7.4	7.3	6.7
SHADOWTURF	3.7	6.6	2.0	6.8	7.2	6.6
DALZ 0702	5.3	6.7	2.0	7.0	7.0	6.6
ZORRO	4.3	5.3	2.3	6.3	7.1	6.0
380-1	3.0	5.8	2.7	5.7	5.8	5.4
29-2	2.7	6.3	5.0	5.0	4.7	5.2
MEYER	2.3	4.8	2.0	4.6	5.2	4.5
ZENITH	2.7	4.8	4.0	4.1	4.1	4.3
240	2.0	5.2	2.7	4.1	4.8	4.2
LSD VALUE	0.9	1.4	0.8	1.0	1.9	0.9
C.V. (%)	14.1	14.9	18.5	10.1	19.2	14.3

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 34. FALL COLOR (DECEMBER) RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

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

NAME	CA3	FL1	NC1	TX1	MEAN
DALZ 0702	4.8	6.7	5.8	6.8	6.1
DALZ 0501	5.2	6.6	5.8	6.8	6.1
DALZ 0701	5.7	5.9	6.0	6.5	6.0
L1F	4.7	6.5	5.4	6.3	5.8
SHADOWTURF	4.3	6.3	4.8	5.8	5.4
ZORRO	4.3	4.7	5.2	6.4	5.0
380-1	2.5	3.6	4.4	5.9	4.2
29-2	2.5	4.2	3.8	4.8	3.8
240	2.0	3.4	2.8	4.7	3.1
ZENITH	2.3	3.6	2.6	4.2	3.0
MEYER	2.0	3.1	2.7	4.3	2.9
LSD VALUE	0.9	1.2	0.9	1.5	0.8
C.V. (%)	15.3	15.6	13.2	17.3	15.7

TABLE 35. SEEDHEAD RATINGS OF ZOYSIAGRASS CULTIVARS 1/
2007-12 DATA

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

NAME	NC1
DALZ 0501	9.0
DALZ 0701	9.0
L1F	9.0
SHADOWTURF	9.0
ZORRO	9.0
DALZ 0702	8.9
380-1	8.2
ZENITH	4.3
MEYER	4.2
29-2	3.6
240	3.2
LSD VALUE	0.6
C.V. (%)	5.0

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

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

3/ SEEDHEAD RATED IN 2009-10 AND 2012.

POA ANNUA RATINGS 1-9; 9=NONE 2/ 3/

NAME	CA3
DALZ 0702	7.7
L1F	7.0
SHADOWTURF	7.0
ZORRO	7.0
DALZ 0501	6.7
DALZ 0701	6.7
29-2	6.0
380-1	6.0
ZENITH	6.0
240	5.0
MEYER	4.3
LSD VALUE	1.5
C.V. (%)	14.6

TABLE 37. PERCENT ESTABLISHMENT RATINGS OF ZOYSIAGRASS CULTIVARS 1/
 2007 DATA 2/

NAME	CA3	KS1	MEAN
ZORRO	30.0	65.0	47.5
29-2	26.7	66.7	46.7
DALZ 0701	43.3	50.0	46.7
SHADOWTURF	30.0	55.0	42.5
240	23.3	58.3	40.8
DALZ 0702	20.0	55.0	37.5
MEYER	23.3	50.0	36.7
ZENITH	40.0	31.7	35.8
DALZ 0501	23.3	41.7	32.5
L1F	23.3	38.3	30.8
380-1	20.0	40.0	30.0
LSD VALUE	18.8	9.0	10.4
C.V. (%)	42.3	11.1	23.5

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ POA ANNUA RATED IN 2011.

WEED RATINGS 1-9; 9=NONE 2/

NAME	CA3
SHADOWTURF	3.7
380-1	2.7
ZENITH	2.3
240	2.0
29-2	2.0
DALZ 0501	2.0
DALZ 0701	2.0
DALZ 0702	2.0
L1F	2.0
MEYER	2.0
ZORRO	2.0
LSD VALUE	1.3
C.V. (%)	35.6

TABLE 39. MOLE CRICKET DAMAGE RATINGS OF ZOYSIAGRASS CULTIVARS 1/
 2007-12 DATA

MOLE CRICKET DAMAGE RATINGS 1-9; 9=NO DAMAGE 2/ 3/

NAME	FL1
380-1	7.2
L1F	6.8
SHADOWTURF	6.5
ZENITH	6.5
ZORRO	6.5
DALZ 0702	6.3
MEYER	6.3
240	5.8
DALZ 0501	5.8
29-2	5.7
DALZ 0701	5.5
LSD VALUE	1.6
C.V. (%)	16.2

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ MOLE CRICKET DAMAGE RATED IN 2009 AND 2011.

TABLE 40. LARGE BROWN PATCH RATINGS OF ZOYSIAGRASS CULTIVARS
 Taken from the 2007 Zoysiagrass test - final data report with permission from NTEP
 AT GAINESVILLE, FL 1/
 2012 DATA

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

NAME	NOVEMBER	DECEMBER	MEAN
DALZ 0701	7.0	7.0	7.0
L1F	7.0	7.0	7.0
DALZ 0501	6.0	7.0	6.5
DALZ 0702	6.0	7.0	6.5
SHADOWTURF	6.3	6.7	6.5
ZORRO	6.0	5.0	5.5
380-1	4.3	4.7	4.5
29-2	5.3	3.3	4.3
MEYER	4.7	3.3	4.0
240	4.7	2.7	3.7
ZENITH	4.0	3.0	3.5
LSD VALUE	2.2	1.2	1.3
C.V. (%)	19.5	14.2	14.6

TABLE 41. DOLLAR SPOT RATINGS OF ZOYSIAGRASS CULTIVARS
 AT RALEIGH, NC 1/
 2008-12 DATA

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

NAME	2008	JULY 2009	OCTOBER 2009	MAY 2010	SEPTEMBER 2010	JUNE 2012	JULY 2012	AUGUST 2012	MEAN
ZENITH	9.0	9.0	7.3	8.7	9.0	9.0	8.7	8.7	8.7
240	9.0	9.0	7.3	8.0	9.0	8.3	8.7	9.0	8.6
MEYER	8.7	9.0	8.0	8.7	8.3	8.3	9.0	9.0	8.6
29-2	8.7	9.0	7.3	8.3	9.0	8.7	8.7	8.7	8.5
380-1	8.3	8.7	7.0	9.0	8.7	8.3	7.3	7.3	8.2
DALZ 0501	8.7	6.3	7.3	7.3	8.3	5.7	6.0	6.7	7.4
SHADOWTURF	7.7	6.0	7.3	6.3	8.0	5.7	5.7	6.7	6.9
L1F	7.7	5.0	7.0	6.3	8.7	3.7	7.0	7.7	6.8
ZORRO	7.7	5.7	7.0	7.3	7.0	5.0	4.3	4.7	6.5
DALZ 0702	7.3	4.0	5.0	7.0	7.0	4.0	3.7	3.7	5.7
DALZ 0701	6.7	3.7	4.7	6.0	5.0	4.0	4.0	4.3	5.1
LSD VALUE	1.1	1.3	1.6	2.8	1.4	1.5	1.9	1.9	0.8
C.V. (%)	7.7	12.2	13.1	16.9	10.6	14.6	17.3	16.3	14.3

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 42. Taken from the 2007 Zoysiagrass test - final data report with permission from NTEP
 PERCENT ESTABLISHMENT RATINGS OF ZOYSIAGRASS CULTIVARS 1/
 AT GAINESVILLE, FL 2/
 2007-08 DATA

NAME	NOVEMBER 2007	DECEMBER 2007	JANUARY 2008	FEBRUARY 2008	MARCH 2008	APRIL 2008	MAY 2008	JUNE 2008	JULY 2008	AUGUST 2008	SEPTEMBER 2008	OCTOBER 2008	NOVEMBER 2008	DECEMBER 2008
SHADOWTURF	5.0	10.0	16.7	15.0	16.7	23.3	26.7	43.3	66.7	78.3	90.0	96.3	90.0	95.0
DALZ 0701	8.3	15.0	20.0	11.7	21.7	30.0	35.0	51.7	68.3	78.3	89.7	94.3	88.3	88.3
L1F	5.0	10.0	15.0	15.0	15.0	21.7	26.7	48.3	65.0	76.7	88.3	91.3	83.3	85.0
DALZ 0702	6.7	16.7	20.0	16.7	21.7	26.7	28.3	38.3	58.3	71.7	80.0	85.0	81.7	81.7
DALZ 0501	8.3	15.0	20.0	16.7	18.3	26.7	18.3	31.7	53.3	63.3	75.0	81.7	73.3	71.7
ZENITH	0.7	1.3	2.3	2.0	1.7	20.0	20.0	36.7	56.7	63.3	80.0	76.7	76.7	48.3
29-2	5.0	5.0	10.0	10.0	10.0	5.0	10.0	25.0	38.3	60.0	73.3	76.7	70.0	66.7
ZORRO	5.0	8.3	10.0	10.0	13.3	11.7	16.7	35.0	55.0	61.7	80.0	86.7	86.7	78.3
MEYER	5.0	6.7	10.0	10.0	10.0	10.0	15.0	21.7	40.0	50.0	68.3	66.7	60.0	43.3
240	5.0	5.0	10.0	10.0	6.7	5.0	10.0	18.3	36.7	48.3	66.7	66.7	61.7	51.7
380-1	5.0	6.7	10.0	10.0	11.7	10.0	15.0	23.3	43.3	56.7	70.0	70.0	56.7	45.0
LSD VALUE	2.6	2.7	1.7	6.3	4.0	4.3	8.2	10.3	13.3	19.4	29.5	22.6	21.0	18.2
C.V. (%)	27.9	19.3	8.7	30.3	19.3	15.9	24.6	18.6	14.9	15.8	15.7	13.9	14.8	16.1

TABLE 43. PERCENT ESTABLISHMENT RATINGS OF ZOYSIAGRASS CULTIVARS 1/
 AT RALEIGH, NC 2/
 2007 DATA

NAME	SEP	OCT	NOV	MEAN
ZENITH	73.3	80.0	80.0	77.8
SHADOWTURF	58.3	70.0	76.7	68.3
ZORRO	51.7	58.3	58.3	56.1
DALZ 0701	40.0	53.3	55.0	49.4
240	46.7	48.3	48.3	47.8
29-2	46.7	46.7	46.7	46.7
DALZ 0501	36.7	45.0	46.7	42.8
DALZ 0702	36.7	45.0	45.0	42.2
MEYER	31.7	33.3	33.3	32.8
L1F	25.0	31.7	36.7	31.1
380-1	20.0	23.3	23.3	22.2
LSD VALUE	13.2	18.7	17.8	15.8
C.V. (%)	19.2	22.9	21.4	20.4

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

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