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.

CURRENT POLICY COMMITTEE MEMBERS:

Mr. Aaron Kuenzi, Mountain View Seeds
Mr. Bo Lacy, Barenbrug USA.
Dr. Cole Thompson, USGA Green Section
Dr. Charles Fontanier, Oklahoma State University
Dr. Alec Kowalewski, Oregon State University
Mr. Mike Selman, Buena Vista Turf Farm
Mr. Mark Johnson, Golf Course Superintendents Assoc. of America
Dr. Aaron Patton, Purdue University
Mr. Austin Fricker, Pure-Seed Testing, Inc.
Mr. Steve Rackliffe, University of Connecticut
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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*.

2018 NATIONAL LOW INPUT WARM-SEASON TEST

LOCATIONS SUBMITTING DATA FOR 2020

State	Location	Code
Florida	Jay	FL3
Florida	Citra	FL4
Mississippi	Mississippi State	MS1
New Mexico	Las Cruces	NM1
North Carolina	Raleigh	NC1
Oklahoma	Stillwater	OK1
Texas	College Station	TX2
Utah	Logan	UT1

2018 National Low Input Warm-Season Test
Entries and Sponsors

Entry No.	Name	Species	Seeded/ Vegetative	Sponsors
*1	Meyer	Zoysia	Vegetative	Standard Entry
*2	Tifway	Bermuda	Vegetative	Standard Entry
*3	Midiron	Bermuda	Vegetative	Standard Entry
4	16-TZ-14114	Zoysia	Vegetative	University of Georgia
*5	Habiturf	Buffalo Curly Mesquite Blue grama	Vegetative	Lady Bird Johnson Wildflower Ctr.
6	XZ 14069	Zoysia	Vegetative	North Carolina State University
*7	ASC-117	Bermuda	Seeded	Allstar Seed Co.
*8	Cody	Buffalo	Seeded	Standard Entry
9	FAES 1322	Zoysia	Vegetative	University of Florida
10	FB 1628	Bermuda	Vegetative	University of Florida

*Commercially available in 2021 in the US or any other country

TABLE A. 2020 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 2018 NATIONAL LOW INPUT WARM-SEASON 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
FL3	SAND	5.6-6.0	61-150	0-150	1.1-2.0	FULL SUN	2.1-2.5	TO PREVENT DORMANCY
FL4	-	-	-	-	-	-	-	-
MS1	SANDY LOAM	7.6-8.5	271-450	501+	1.1-2.0	FULL SUN	2.1-2.5	ONLY DURING SEVERE STRESS
NC1	SILTY CLAY LOAM	6.1-6.5	61-150	0-150	0.0-1.0	FULL SUN	2.1-2.5	TO PREVENT STRESS
NM1	SANDY LOAM	8.6+	-	-	-	-	-	-
OK1	LOAM	7.1-7.5	61-150	241-375	1.1-2.0	FULL SUN	2.6-3.0	TO PREVENT DORMANCY
TX2	-	7.6-8.5	-	-	0.0-1.0	FULL SUN	1.6-2.0	ONLY DURING SEVERE STRESS
UT1	SILT LOAM AND SILT	-	-	-	-	FULL SUN	3.1-3.5	TO PREVENT DORMANCY

TABLE B. LOCATIONS AND DATA COLLECTED IN 2020

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
FL3			X	X	X	X	X	X	X	X					
FL4	X	X	X	X	X	X	X	X	X	X	X				
MS1				X	X	X	X	X	X	X	X		X	X	
NC1				X	X	X	X	X	X	X	X				
NM1				X	X	X	X	X	X	X	X		X		
OK1			X	X	X	X	X	X	X	X	X		X	X	X
TX2					X	X	X	X	X	X	X				
UT1				X		X			X		X				

TABLE B. (CONT'D) LOCATIONS AND DATA COLLECTED IN 2020

LOCATION	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT LIVING GROUND COVER RATINGS JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
FL3														
FL4				X	X	X	X	X	X	X	X	X	X	X
MS1							X		X					X
NC1							X	X	X	X	X	X	X	X
NM1									X	X	X	X	X	X
OK1	X	X	X											
TX2							X	X	X		X	X	X	
UT1							X		X			X		

TABLE B. (CONT'D) LOCATIONS AND DATA COLLECTED IN 2020

LOCATION	CANOPY HEIGHT MEASUREMENTS JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV
* FL3											
* FL4	X	X	X				X	X	X	X	
MS1											
* NC1					X	X	X	X	X	X	
* NM1				X	X	X	X	X	X	X	
* OK1					X	X	X	X	X	X	X
* TX2						X	X	X	X	X	
* UT1									X		

* MORE DATA FOR FL3, FL4, NC1, NM1, OK1, TX2 AND UT1 IN TABLE 6, 7, 9, 10, 11, 12 AND 12.

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER 1/
LOW INPUT IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2020 DATA

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

	NAME		ENTRY #	MS1	OK1	NM1	UT1	MEAN
	FB 1628	BERMUDA	10	5.9	5.5	6.5	5.9	6.0
*	TIFWAY	BERMUDA	2	5.8	5.4	6.7	5.5	5.9
*	MIDIRON	BERMUDA	3	5.6	5.3	7.0	4.9	5.7
	XZ 14069	ZOYSIA	6	5.5	4.8	6.0	5.3	5.4
	16-TZ-14114	ZOYSIA	4	5.3	4.7	5.9	4.5	5.1
*	CODY	BUFFALO	8	5.6	4.8	5.8	4.2	5.1
*	HABITURF	MIXTURE	5	5.2	4.7	4.9	4.4	4.8
	FAES 1322	ZOYSIA	9	4.6	4.1	5.0	5.5	4.8
*	MEYER	ZOYSIA	1	4.8	5.1	3.9	5.2	4.7
*	ASC-117	BERMUDA	7	4.5	4.0	5.0	2.1	3.9
	LSD VALUE			0.8	0.8	0.8	0.8	0.8
	C.V. (%)			9.3	10.2	8.7	10.4	9.6

*/ COMMERCIALLY AVAILABLE IN THE USA IN 2021.

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

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

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

TABLE 2. MEAN TURFGRASS QUALITY RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER 1/
LOW INPUT IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2020 DATA

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

NAME		ENTRY #	NC1	FL3	FL4	TX2	MEAN
XZ 14069	ZOYSIA	6	6.1	6.6	6.4	6.3	6.3
16-TZ-14114	ZOYSIA	4	5.9	6.7	5.4	6.2	6.0
FAES 1322	ZOYSIA	9	5.9	6.1	5.3	5.7	5.7
TIFWAY	BERMUDA	2	5.1	6.6	5.4	5.7	5.7
MEYER	ZOYSIA	1	5.4	6.6	4.8	5.7	5.6
FB 1628	BERMUDA	10	5.1	6.4	4.1	6.0	5.4
MIDIRON	BERMUDA	3	4.9	6.4	1.1	6.1	4.6
HABITURF	MIXTURE	5	4.3	5.2	1.0	6.0	4.1
CODY	BUFFALO	8	4.0	5.1	1.1	5.9	4.0
ASC-117	BERMUDA	7	3.6	5.2	1.0	5.0	3.7
LSD VALUE			0.8	0.8	0.8	0.8	0.8
C.V. (%)			9.8	8.1	13.8	8.4	9.6

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

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

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

TABLE 3. GENETIC COLOR RATINGS OF WARM-SEASON CULTIVARS 1/
GROWN UNDER LOW INPUT IN THE U.S.
2020 DATA

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

NAME		MS1	NM1	OK1	MEAN
FB 1628	BERMUDA	5.7	4.7	6.0	5.4
CODY	BUFFALO	6.0	6.0	3.3	5.1
TIFWAY	BERMUDA	5.7	4.0	5.7	5.1
FAES 1322	ZOYSIA	5.3	6.0	4.0	5.1
ASC-117	BERMUDA	5.0	5.7	4.0	4.9
MIDIRON	BERMUDA	5.7	4.0	4.7	4.8
HABITURF	MIXTURE	5.0	5.0	4.0	4.7
16-TZ-14114	ZOYSIA	5.0	4.7	4.0	4.6
MEYER	ZOYSIA	4.7	5.0	4.0	4.6
XZ 14069	ZOYSIA	4.7	4.7	4.0	4.4
LSD VALUE		0.7	2.1	1.2	0.8
C.V. (%)		8.5	25.7	17.7	18.5

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 4. SPRING GREENUP RATINGS OF WARM-SEASON CULTIVARS 1/
GROWN UNDER LOW INPUT IN THE U.S.
2020 DATA

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

NAME		MS1	OK1	MEAN
XZ 14069	ZOYSIA	5.0	6.7	5.8
HABITURF	MIXTURE	6.3	3.3	4.8
MEYER	ZOYSIA	5.3	4.3	4.8
CODY	BUFFALO	6.3	3.0	4.7
16-TZ-14114	ZOYSIA	3.0	3.3	3.2
MIDIRON	BERMUDA	4.0	2.3	3.2
ASC-117	BERMUDA	3.7	2.3	3.0
FB 1628	BERMUDA	4.7	1.3	3.0
TIFWAY	BERMUDA	3.3	1.0	2.2
FAES 1322	ZOYSIA	2.0	1.0	1.5
LSD VALUE		0.7	1.1	0.6
C.V. (%)		10.2	23.0	15.6

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 5. LEAF TEXTURE RATINGS OF WARM-SEASON CULTIVARS 1/
GROWN UNDER LOW INPUT IN THE U.S.
2020 DATA

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

NAME		OK1
FB 1628	BERMUDA	7.0
XZ 14069	ZOYSIA	7.0
TIFWAY	BERMUDA	6.7
CODY	BUFFALO	6.0
FAES 1322	ZOYSIA	6.0
HABITURF	MIXTURE	6.0
MIDIRON	BERMUDA	6.0
MEYER	ZOYSIA	5.3
16-TZ-14114	ZOYSIA	5.0
ASC-117	BERMUDA	5.0
LSD VALUE		0.4
C.V. (%)		4.3

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 6. PERCENT WEEDS RATINGS OF WARM-SEASON CULTIVARS 1/
GROWN UNDER LOW INPUT AT JAY, FL 2/
2020 DATA

NAME		JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	MEAN
ASC-117	BERMUDA	15.0	63.3	60.0	60.0	56.7	51.0
CODY	BUFFALO	10.0	40.0	50.0	66.7	70.0	47.3
HABITURF	MIXTURE	13.3	41.7	38.3	66.7	66.7	45.3
FB 1628	BERMUDA	5.0	11.7	8.3	11.7	6.7	8.7
FAES 1322	ZOYSIA	5.0	13.3	6.7	6.7	5.0	7.3
MIDIRON	BERMUDA	1.7	3.3	3.3	13.3	8.3	6.0
TIFWAY	BERMUDA	5.0	5.0	5.0	5.0	3.3	4.7
XZ 14069	ZOYSIA	3.3	5.0	5.0	5.0	3.3	4.3
MEYER	ZOYSIA	5.0	0.0	3.3	3.3	3.3	3.0
16-TZ-14114	ZOYSIA	0.0	0.0	0.0	0.0	0.0	0.0
LSD VALUE		9.9	17.4	19.0	26.2	21.3	15.7
C.V. (%)		78.8	58.7	64.7	66.7	59.4	54.9

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

TABLE 7. PERCENT LIVING GROUND COVER AND OTHER RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER LOW INPUT AT CITRA, FL 1/
2020 DATA

CANOPY HEIGHT MEASURED IN CENTIMETERS 2/

NAME		JANUARY	FEBRUARY	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	MEAN
XZ 14069	ZOYSIA	93.0	93.0	94.7	96.0	93.0	93.0	99.0	96.0	89.7	73.3	90.0	91.9
TIFWAY	BERMUDA	90.0	90.0	86.7	93.0	93.0	96.0	90.0	90.0	80.0	83.3	83.3	88.7
FAES 1322	ZOYSIA	83.3	83.3	81.7	86.7	86.7	90.0	90.0	93.0	90.0	76.7	90.0	86.5
16-TZ-14114	ZOYSIA	86.7	76.7	97.7	93.0	89.7	93.0	96.0	86.0	86.7	76.7	63.3	85.9
MEYER	ZOYSIA	86.7	76.7	86.7	86.7	86.7	86.7	93.0	86.7	89.7	73.3	73.3	84.2
FB 1628	BERMUDA	73.3	63.3	70.0	70.0	50.0	73.3	86.7	70.0	76.7	60.0	53.3	67.9
MIDIRON	BERMUDA	10.0	10.0	0.0	10.0	10.0	10.0	16.7	10.0	10.0	10.0	10.0	9.7
CODY	BUFFALO	3.3	6.7	3.3	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	8.5
HABITURF	MIXTURE	3.3	3.3	6.7	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	8.5
ASC-117	BERMUDA	3.3	3.3	0.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	10.0	7.9
LSD VALUE		7.9	7.6	8.4	7.7	8.6	5.8	5.6	12.1	9.3	20.0	18.4	6.4
C.V. (%)		9.7	9.7	10.4	8.8	10.4	6.5	6.0	14.0	10.9	26.2	23.8	7.7

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

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

TABLE 7. (CONT'D) PERCENT LIVING GROUND COVER AND OTHER RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER LOW INPUT AT CITRA, FL 1/
2020 DATA

CANOPY HEIGHT MEASURED IN CENTIMETERS 2/

NAME		JANUARY	FEBRUARY	MARCH	JULY	AUGUST	SEPTEMBER	OCTOBER	% WEED SUMMER
XZ 14069	ZOYSIA	2.7	2.3	3.0	4.0	4.0	4.3	5.0	10.0
TIFWAY	BERMUDA	7.7	7.3	7.0	7.0	7.0	6.7	7.7	20.0
FAES 1322	ZOYSIA	2.0	2.0	2.3	4.0	4.0	4.0	5.0	10.0
16-TZ-14114	ZOYSIA	7.3	6.3	7.0	6.3	6.3	8.0	7.3	10.0
MEYER	ZOYSIA	5.0	5.7	6.3	6.3	5.7	6.0	6.0	16.7
FB 1628	BERMUDA	2.3	2.7	2.7	2.7	5.0	6.3	5.0	33.3
MIDIRON	BERMUDA	6.3	6.0	6.0	.	.	.	.	56.7
CODY	BUFFALO	5.7	4.3	5.3	.	.	.	.	56.7
HABITURF	MIXTURE	6.3	5.0	5.0	.	.	.	.	50.0
ASC-117	BERMUDA	6.7	5.7	5.3	.	.	.	.	56.7
LSD VALUE		1.5	1.4	1.1	1.6	2.0	2.6	3.0	17.4
C.V. (%)		17.9	18.5	13.9	17.9	19.1	22.3	23.6	33.4

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 8. PERCENT LIVING GROUND COVER RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER LOW INPUT AT MISS. ST., MS 1/ 2020 DATA 2/

NAME		APRIL	JUNE	NOVEMBER	MEAN
XZ 14069	ZOYSIA	76.7	91.7	99.0	89.1
HABITURF	MIXTURE	96.0	90.0	50.0	78.7
MEYER	ZOYSIA	93.0	76.7	56.7	75.4
CODY	BUFFALO	93.0	90.0	40.0	74.3
FB 1628	BERMUDA	76.7	95.0	43.3	71.7
16-TZ-14114	ZOYSIA	23.3	95.0	83.3	67.2
ASC-117	BERMUDA	66.7	90.0	40.0	65.6
TIFWAY	BERMUDA	63.3	93.3	33.3	63.3
FAES 1322	ZOYSIA	13.3	88.3	80.0	60.6
MIDIRON	BERMUDA	56.7	93.3	20.0	56.7
LSD VALUE		12.0	12.4	14.8	8.3
C.V. (%)		11.7	6.6	17.2	7.2

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

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

TABLE 9. PERCENT LIVING GROUND COVER AND OTHER RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER LOW INPUT AT RALEIGH, NC 1/ 2020 DATA 2/

NAME		APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	MEAN
XZ 14069	ZOYSIA	95.0	86.7	99.0	99.0	99	99	91.7	97.0	95.8
16-TZ-14114	ZOYSIA	96.0	93.0	99.0	99.0	99	99	83.3	91.7	95.0
FAES 1322	ZOYSIA	88.0	90.0	97.7	99.0	99	99	91.7	95.7	95.0
FB 1628	BERMUDA	88.0	93.3	99.0	99.0	99	99	73.3	85.0	92.0
TIFWAY	BERMUDA	86.7	91.7	97.7	99.0	99	99	70.0	85.0	91.0
MEYER	ZOYSIA	81.3	94.7	96.3	93.0	99	99	76.7	78.3	89.8
MIDIRON	BERMUDA	85.0	88.3	97.7	99.0	99	99	71.7	71.7	88.9
HABITURF	MIXTURE	93.3	93.3	88.3	94.7	99	99	66.7	65.0	87.4
ASC-117	BERMUDA	93.0	76.7	76.7	94.0	99	99	80.0	78.3	87.1
CODY	BUFFALO	86.7	71.7	90.0	94.7	99	99	55.0	55.0	81.4
LSD VALUE		24.1	13.7	4.7	5.1	0	0	11.6	11.5	4.5
C.V. (%)		10.2	8.2	3.1	2.7	0	0	9.1	8.8	3.0

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 9. (CONT'D) PERCENT LIVING GROUND COVER AND OTHER RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER LOW INPUT AT RALEIGH, NC 1/ 2020 DATA 2/

NAME		CANOPY MAY	CANOPY JUNE	CANOPY JULY	CANOPY AUGUST	CANOPY SEPTEMBER	CANOPY OCTOBER	SEEDHEAD JULY	SEEDHEAD AUGUST	SEEDHEAD SEPTEMBER
XZ 14069	ZOYSIA	4.3	3.0	3.3	3.0	3.3	2.7	0.3	0.0	0.0
16-TZ-14114	ZOYSIA	4.0	5.7	5.3	5.7	5.3	3.0	46.7	51.7	73.3
FAES 1322	ZOYSIA	2.3	3.3	3.7	3.7	4.0	3.0	58.3	33.3	70.0
FB 1628	BERMUDA	4.3	3.7	3.3	3.7	4.0	2.3	50.0	43.3	66.7
TIFWAY	BERMUDA	3.7	4.0	4.3	3.3	3.0	2.0	13.3	8.3	1.0
MEYER	ZOYSIA	3.0	3.7	3.3	4.0	4.3	3.0	0.0	0.0	0.0
MIDIRON	BERMUDA	5.0	6.0	6.0	5.3	4.3	3.0	38.3	38.3	18.3
HABITURF	MIXTURE	3.3	8.0	7.3	8.0	7.3	4.3	25.0	35.0	45.0
ASC-117	BERMUDA	4.7	9.0	7.7	8.0	5.0	3.0	40.0	20.0	25.0
CODY	BUFFALO	5.3	7.3	7.0	7.3	7.3	3.0	20.0	28.3	36.7
LSD VALUE		3.6	1.6	1.4	1.0	1.2	0.5	20.5	17.1	14.6
C.V. (%)		36.7	18.1	16.5	12.7	16.0	11.2	42.1	40.1	27.6

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 9. (CONT'D) PERCENT LIVING GROUND COVER AND OTHER RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER LOW INPUT AT RALEIGH, NC 1/ 2020 DATA 2/

NAME		% WEEDS FEBRUARY	% WEEDS APRIL	BROADLEAF WEEDS FROM MAY-NOVEMBER MAY	JUNE	JULY	AUGUST	SEPT	OCTOBER	NOV	GRASSY WEEDS FROM JUNE-NOVEMBER JUNE	JULY	AUGUST	SEPT	OCT	NOV
XZ 14069	ZOYSIA	18.3	33.3	18.3	15.0	9.3	2.0	0.3	1.0	3.7	1.3	0.3	3.7	1.3	2.0	4.0
16-TZ-14114	ZOYSIA	15.0	28.3	16.7	2.7	0.0	0.7	0.3	0.0	1.0	0.0	0.0	0.3	0.7	0.3	0.7
FAES 1322	ZOYSIA	36.7	25.0	23.3	12.3	5.7	10.0	1.0	2.0	4.3	4.0	3.7	5.0	5.3	2.3	1.3
FB 1628	BERMUDA	11.7	26.7	12.0	10.7	12.0	10.0	7.0	8.7	10.0	3.0	3.7	7.3	7.3	5.3	4.7
TIFWAY	BERMUDA	28.3	30.0	16.7	15.0	13.3	8.7	7.0	13.3	14.3	2.0	3.7	5.0	6.7	6.3	5.3
MEYER	ZOYSIA	33.3	25.0	13.3	10.7	5.3	2.0	1.7	2.0	5.3	1.0	2.0	3.0	3.7	1.3	1.0
MIDIRON	BERMUDA	13.3	28.3	22.0	13.3	2.7	2.7	4.0	17.0	25.0	1.0	2.7	10.7	15.0	12.3	6.7
HABITURF	MIXTURE	38.3	28.3	20.0	18.3	12.3	10.7	11.0	25.0	32.5	5.0	11.7	16.7	21.7	16.7	5.7
ASC-117	BERMUDA	41.7	48.3	16.7	28.3	31.7	38.3	21.7	35.0	36.7	2.7	10.0	20.0	23.3	8.3	4.0
CODY	BUFFALO	30.0	48.3	26.7	17.3	12.0	11.0	8.7	18.3	30.0	1.0	4.7	11.7	13.3	7.7	5.3
LSD VALUE		23.2	22.4	27.7	26.7	19.3	16.4	13.8	17.7	12.3	2.1	7.0	11.6	12.0	15.1	7.3
C.V. (%)		43.5	32.5	53.4	74.2	90.4	94.2	109.9	79.7	46.2	55.8	86.1	69.2	67.6	107.4	79.5

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 10. PERCENT LIVING GROUND COVER AND OTHER RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER LOW INPUT AT LAS CRUCES, NM 1/
2020 DATA

COLOR AND OTHER RATINGS 1-9; 9=BEST 2/

NAME		SPRING GREENUP	PERCENT GROUND COVER JUNE-NOVEMBER JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	MEAN
MIDIRON	BERMUDA	95.3	97.3	98.3	97.3	82.7	47.7	5.3	71.4
FB 1628	BERMUDA	74.7	90.7	94.7	91.0	67.0	35.0	22.0	66.7
TIFWAY	BERMUDA	61.3	81.3	88.0	88.7	59.3	25.3	13.0	59.3
XZ 14069	ZOYSIA	67.7	73.0	87.0	71.0	69.3	37.7	15.7	58.9
16-TZ-14114	ZOYSIA	56.7	79.3	86.7	59.7	68.0	39.7	14.7	58.0
FAES 1322	ZOYSIA	74.3	74.3	79.0	59.7	58.0	41.0	32.0	57.3
ASC-117	BERMUDA	82.7	75.0	72.0	77.0	64.7	29.0	12.7	55.1
CODY	BUFFALO	60.3	76.3	90.0	48.0	40.3	5.7	1.0	43.6
HABITURF	MIXTURE	55.7	67.0	76.3	40.3	50.3	10.3	2.3	41.1
MEYER	ZOYSIA	29.7	38.0	54.7	58.7	42.0	13.7	1.3	34.7
LSD VALUE		34.2	24.2	20.0	28.2	38.1	42.4	18.8	20.0
C.V. (%)		26.6	17.6	13.2	22.6	28.2	65.9	80.8	19.3

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

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

TABLE 10. (CONT'D) PERCENT LIVING GROUND COVER AND OTHER RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER LOW INPUT AT LAS CRUCES, NM 1/
2020 DATA

COLOR AND OTHER RATINGS 1-9; 9=BEST 2/

CANOPY HEIGHT MILLIMETERS

NAME		CANOPY HEIGHT FROM APRIL-OCTOBER APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	PERCENT WEEDS FROM APRIL-OCTOBER APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER
MIDIRON	BERMUDA	20.7	22.7	26.3	33.3	33.3	16.7	20.7	6.7	1.7	0.7	0.7	0.7	0.3	0.0
FB 1628	BERMUDA	17.7	16.7	19.3	18.7	25.0	20.7	14.7	3.3	3.3	0.3	0.3	0.0	0.7	0.0
TIFWAY	BERMUDA	23.7	28.0	30.0	33.7	33.7	21.3	20.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
XZ 14069	ZOYSIA	16.3	16.7	19.0	21.7	22.0	17.3	12.7	6.7	1.7	0.7	8.7	0.7	0.3	0.3
16-TZ-14114	ZOYSIA	20.0	20.0	24.0	25.3	27.0	19.7	19.0	3.3	1.7	1.7	1.7	0.3	0.0	0.0
FAES 1322	ZOYSIA	19.7	16.7	17.0	17.0	18.3	19.0	13.3	6.7	2.0	8.7	10.0	15.0	3.7	3.3
ASC-117	BERMUDA	25.3	28.3	30.7	32.7	31.0	22.3	21.3	26.7	8.3	20.0	20.0	30.0	11.7	3.3
CODY	BUFFALO	23.7	24.3	28.0	28.3	27.0	18.3	13.3	8.3	2.0	0.3	3.3	5.3	2.0	11.7
HABITURF	MIXTURE	19.7	23.7	27.3	29.0	27.0	15.3	15.7	20.0	6.7	4.0	15.3	5.3	2.0	3.3
MEYER	ZOYSIA	22.7	19.3	21.0	21.7	21.0	22.7	15.3	21.7	5.0	10.3	25.0	6.7	2.0	3.3
LSD VALUE		8.9	12.5	11.0	9.3	16.5	12.7	8.7	29.0	6.7	9.0	23.2	8.5	5.6	6.1
C.V. (%)		18.5	26.1	22.1	19.6	26.8	24.6	24.2	120.8	96.4	108.3	126.7	81.1	133.4	128.6

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 10. (CONT'D)

PERCENT LIVING GROUND COVER AND OTHER RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER LOW INPUT AT LAS CRUCES, NM 1/
2020 DATA

COLOR AND OTHER RATINGS 1-9; 9=BEST 2/

NAME		MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER
MIDIRON	BERMUDA	3.7	3.3	4.0	3.3	2.7	2.3	4.0	2.0	2.3
FB 1628	BERMUDA	2.0	4.3	4.3	4.3	3.0	3.7	4.7	3.0	3.7
TIFWAY	BERMUDA	3.3	3.3	4.3	4.0	2.7	2.3	4.0	2.7	3.0
XZ 14069	ZOYSIA	4.3	4.0	4.0	5.0	4.3	4.0	4.7	4.3	4.3
16-TZ-14114	ZOYSIA	3.3	3.7	3.7	3.7	3.3	3.3	4.7	2.0	2.0
FAES 1322	ZOYSIA	4.0	6.3	5.7	6.3	5.7	6.0	6.0	3.3	3.7
ASC-117	BERMUDA	3.3	5.3	5.0	4.7	3.7	3.3	5.7	4.0	4.3
CODY	BUFFALO	4.3	6.3	6.3	5.3	5.0	5.0	6.0	5.0	3.7
HABITURF	MIXTURE	3.7	4.0	5.0	5.3	4.3	4.0	5.0	2.3	3.3
MEYER	ZOYSIA	1.7	3.3	3.0	3.0	1.7	3.3	5.0	4.0	3.0
LSD VALUE		2.7	3.1	2.8	4.3	3.9	4.7	3.3	3.6	2.5
C.V. (%)		35.2	32.2	27.7	38.2	46.4	49.6	25.9	46.6	31.8

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 11.

CANOPY HEIGHT MEASUREMENTS AND OTHER RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER LOW INPUT AT STILLWATER, OK 1/
2020 DATA

HEIGHT MEASURED IN CENTIMETERS 2/
COLOR AND OTHER RATINGS 1-9; 9=BEST

NAME		DENSITY SPRING	DENSITY SUMMER	DENSITY FALL	COLOR SEPT	COLOR OCT	COLOR NOV	CANOPY HEIGHT MEASUREMENTS FROM MAY-NOVEMBER MAY	JUN	JUL	AUG	SEP	OCT	NOV	MEAN
HABITURF	MIXTURE	4.0	4.0	4.0	4.3	3.7	3.0	7.7	13.7	8.0	7.0	8.7	8.7	5.7	8.5
ASC-117	BERMUDA	3.3	4.0	3.0	4.0	3.0	2.7	7.7	11.7	8.3	7.0	7.7	8.3	6.7	8.2
CODY	BUFFALO	4.0	5.0	4.7	3.3	3.0	2.0	7.7	12.0	8.3	7.3	7.7	7.3	5.3	8.0
MIDIRON	BERMUDA	6.0	6.0	5.3	4.3	3.7	2.3	5.3	7.7	8.3	5.7	6.7	7.3	5.0	6.6
MEYER	ZOYSIA	7.0	7.0	6.0	4.0	4.0	3.7	6.3	8.0	6.0	6.0	6.3	6.7	6.3	6.5
16-TZ-14114	ZOYSIA	6.0	6.0	6.0	4.3	4.0	4.0	5.0	6.7	6.3	6.0	5.7	6.0	5.3	5.9
FB 1628	BERMUDA	6.3	6.0	6.0	6.0	5.3	4.0	4.7	5.3	7.3	5.7	6.0	6.3	5.3	5.8
TIFWAY	BERMUDA	7.0	6.7	5.7	5.7	5.0	4.0	5.0	5.3	7.0	5.3	5.7	6.0	5.3	5.7
XZ 14069	ZOYSIA	7.0	6.0	6.0	4.0	5.0	5.3	4.3	5.0	5.3	4.0	5.3	5.0	3.7	4.7
FAES 1322	ZOYSIA	4.0	4.7	6.0	4.0	4.7	5.0	4.7	5.3	5.0	3.7	4.3	4.7	4.3	4.6
LSD VALUE		0.8	0.4	0.5	1.3	0.8	1.0	1.3	1.3	1.7	1.2	1.2	2.2	2.0	0.9
C.V. (%)		9.5	4.8	5.9	16.0	11.7	16.4	13.3	10.2	14.0	12.2	11.5	17.6	17.9	8.4

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

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

TABLE 12. PERCENT LIVING GROUND COVER AND OTHER RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER LOW INPUT AT COLLEGE STATION, TX 1/
2020 DATA

NAME		APRIL	MAY	JUNE	AUGUST	SEPTEMBER	OCTOBER	MEAN
MIDIRON	BERMUDA	91.7	99.0	94.7	93.3	94.7	99.0	95.4
FB 1628	BERMUDA	94.7	96.0	91.3	88.3	91.7	92.7	92.4
16-TZ-14114	ZOYSIA	93.0	97.7	94.3	91.3	88.3	86.3	91.8
CODY	BUFFALO	91.7	90.0	91.7	90.0	94.7	83.0	90.2
TIFWAY	BERMUDA	91.7	96.0	88.3	85.0	90.0	89.7	90.1
HABITURF	MIXTURE	91.7	91.7	86.3	86.7	88.3	81.7	87.7
XZ 14069	ZOYSIA	88.0	91.3	93.0	78.0	84.7	89.7	87.4
MEYER	ZOYSIA	93.0	93.0	83.3	86.7	85.0	78.3	86.6
FAES 1322	ZOYSIA	86.7	90.0	93.3	75.0	78.3	85.0	84.7
ASC-117	BERMUDA	76.7	80.0	78.3	80.0	81.7	50.0	74.4
LSD VALUE		17.5	16.4	14.7	27.0	19.4	20.5	13.3
C.V. (%)		8.2	7.8	7.5	12.2	9.2	13.4	7.3

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 12. (CONT'D) PERCENT LIVING GROUND COVER AND OTHER RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER LOW INPUT AT COLLEGE STATION, TX 1/
2020 DATA

CANOPY HEIGHT MEASURED IN CENTIMETERS 2/

NAME		CANOPY JUNE	CANOPY JULY	CANOPY AUGUST	CANOPY SEPTEMBER	CANOPY OCTOBER	% WEED MAY	% WEED JULY	% WEED SEPTEMBER	% WEED OCTOBER	% WEED NOVEMBER
MIDIRON	BERMUDA	5.7	6.7	7.3	5.3	5.0	6.7	3.3	3.3	6.7	10.0
FB 1628	BERMUDA	3.3	5.0	5.0	5.0	5.3	3.3	3.3	6.7	5.0	8.3
16-TZ-14114	ZOYSIA	5.0	7.3	5.7	5.3	5.0	3.3	3.3	1.7	1.7	10.0
CODY	BUFFALO	8.3	6.7	7.0	8.0	5.3	6.7	8.3	5.0	8.3	13.3
TIFWAY	BERMUDA	4.7	5.0	5.0	5.0	5.0	3.3	0.0	1.7	1.7	0.0
HABITURF	MIXTURE	12.0	7.3	7.7	8.0	6.0	10.0	11.7	8.3	10.0	11.7
XZ 14069	ZOYSIA	3.7	4.7	3.7	3.7	3.3	3.3	3.3	3.3	5.0	5.0
MEYER	ZOYSIA	3.3	6.0	3.3	4.0	4.3	30.0	18.3	25.0	16.7	18.3
FAES 1322	ZOYSIA	3.0	3.7	3.0	4.3	3.0	5.0	3.3	1.7	1.7	1.7
ASC-117	BERMUDA	11.0	9.0	7.3	8.0	6.7	33.3	25.0	18.3	18.3	31.7
LSD VALUE		1.7	2.9	2.8	2.0	3.0	17.4	8.4	10.6	7.9	15.8
C.V. (%)		18.3	24.5	28.0	20.2	27.7	90.7	62.4	80.0	59.8	75.9

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 13. PERCENT LIVING GROUND COVER AND OTHER RATINGS OF WARM-SEASON CULTIVARS GROWN UNDER LOW INPUT AT LOGAN, UT 1/
2020 DATA

CANOPY HEIGHT MEASURED IN CENTIMETERS 2/

NAME		CANOPY SEPTEMBER	% WEED SUMMER	% WINTER SURVIVAL	PERCENT GROUND COVER SPRING	SUMMER	FALL	MEAN
HABITURF	MIXTURE	16.7	3.3	70.0	86.7	83.3	93.0	87.7
MIDIRON	BERMUDA	9.3	0.0	56.7	80.0	86.7	96.0	87.6
CODY	BUFFALO	14.3	0.0	63.3	86.3	80.0	93.0	86.4
FB 1628	BERMUDA	6.7	0.0	73.3	83.0	83.3	80.0	82.1
TIFWAY	BERMUDA	8.7	0.0	50.0	70.0	79.7	86.7	78.8
ASC-117	BERMUDA	9.0	10.0	50.0	70.0	70.0	70.0	70.0
16-TZ-14114	ZOYSIA	9.0	6.7	46.7	50.0	50.0	60.0	53.3
MEYER	ZOYSIA	8.3	6.7	66.7	46.7	50.0	63.3	53.3
FAES 1322	ZOYSIA	8.3	16.7	53.3	30.0	46.7	66.7	47.8
XZ 14069	ZOYSIA	7.3	16.7	56.7	30.0	36.7	40.0	35.6
LSD VALUE		1.3	14.0	35.6	23.2	22.3	15.0	17.1
C.V. (%)		7.9	113.0	22.6	20.1	17.9	11.2	13.9

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.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR WARM-SEASON CULTIVARS GROWN UNDER LOW INPUT 2020 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME		QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
16-TZ-14114	ZOYSIA	5.6	12.5
ASC-117	BERMUDA	3.8	0.0
CODY	BUFFALO	4.6	0.0
FAES 1322	ZOYSIA	5.3	12.5
FB 1628	BERMUDA	5.7	37.5
HABITURF	MIXTURE	4.5	0.0
MEYER	ZOYSIA	5.2	0.0
MIDIRON	BERMUDA	5.2	25.0
TIFWAY	BERMUDA	5.8	75.0
XZ 14069	ZOYSIA	5.9	50.0
LSD VALUE		0.3	
C.V. (%)		9.6	

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

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

1/ MEAN AN AVERAGE OF ALL THE TURFGRASS QUALITY RATINGS FROM ALL LOCATIONS.

2/ MAXIMUM IN TOP 25%. THE PERCENTAGE OF LOCATIONS WHERE THAT ENTRY FINISHED IN THE TOP 25% OF ALL ENTRIES.