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. Sean Chaney, DLF North America
Mr. Micah Gould, Barenbrug USA.
Dr. Cole Thompson, USGA Green Section
Dr. Barry Stewart, Mississippi State University
Dr. Chas Schmid, Oregon State University
Dr. Casey Reynolds, Turfgrass Producers International
Mr. Mark Johnson, Golf Course Superintendents Assoc. of America
Dr. Doug Soldat, University of Wisconsin
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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 cannot 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*.

2023 NATIONAL SEASHORE PASPALUM TEST

LOCATIONS SUBMITTING DATA FOR 2024

State	Location	Code
California	Riverside	CA3
Florida	Jay (3 Mowing Heights)	FL3
Florida	Fort Lauderdale	FL5
Georgia	Griffin	GA1
Mississippi	Mississippi State	MS1
Texas	College Station	TX2

2023 NATIONAL SEASHORE PASPALUM TEST

ENTRIES AND SPONSORS

Entry No.	Name	Sponsor
1	MVP-DCC	MVP Genetics
2	UGA 16-1253	University of Georgia
3	UGA 17-330	University of Georgia
4	UGA 16-111	University of Georgia
5	UGP 430	University of Georgia
6	UGP 312	University of Georgia
*7	Sea Isle I	Standard entry

*Commercially available in the USA in 2025 or any other country.

TABLE A. 2024 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 2023 NATIONAL SEASHORE PASPALUM 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	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
FL3	SANDY LOAM	5.6-6.0	151-270	0-150	3.1-4.0	FULL SUN	2.33333	TO PREVENT STRESS
FL5	SAND	6.6-7.0	-	-	-	FULL SUN	0.6-1.0	TO PREVENT STRESS
GA1	SANDY CLAY LOAM	4.6-5.5	-	-	3.1-4.0	FULL SUN	1.1-1.5	TO PREVENT STRESS
MS1	SANDY LOAM	7.1-7.5	271-450	241-375	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
TX2	SILTY CLAY LOAM	-	-	-	-	FULL SUN	2.6-3.0	TO PREVENT STRESS

TABLE A. (2023) 2023 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 2023 NATIONAL SEASHORE PASPALUM TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	POTASSIUM (LBS/ACRE)	SUN NITROGEN (LBS/1000 SQ FT)	MOWING OR SHADE	HEIGHT (IN)	IRRIGATION PRACTICED
CA3	SANDY LOAM	7.1-7.5	0-60	241-375	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
FL3	SANDY LOAM	5.6-6.0	151-270	0-150	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
FL5	SAND	6.6-7.0	-	-	-	FULL SUN	0.6-1.0	TO PREVENT STRESS
MS1	SANDY LOAM	7.1-7.5	271-450	241-375	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
TX2	SILTY CLAY LOAM	-	-	-	-	FULL SUN	2.6-3.0	TO PREVENT STRESS

TABLE B. LOCATIONS AND DATA COLLECTED IN 2024

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
FL3						X	X	X	X	X	X		X		X
FL5	X	X	X	X	X	X	X	X	X	X	X	X	X		X
GA1					X	X	X	X	X	X			X		
MS1				X	X	X	X	X	X	X	X		X		
TX2	X	X	X	X	X	X	X	X	X	X	X	X		X	

TABLE B. (CONT'D) LOCATIONS AND DATA COLLECTED IN 2024

LOCATION	SEEDLVIG	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	FALL COLOR SEPTEMBER	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	FALL COLOR DECEMBER	SEEDHEAD RATINGS	PERCENT ESTABLISHMENT RATINGS MAR	APR	MAY	SPRING	SUMMER	FALL
CA3		X	X	X	X					X	X							
FL3			X	X						X			X	X	X			
FL5		X	X	X	X	X	X											
GA1					X			X	X									
MS1	X				X					X		X						
TX2																X	X	X

TABLE B. (2023) LOCATIONS AND DATA COLLECTED IN 2023

LOCATION	AUGUST QUALITY RATING	OCTOBER QUALITY RATING	NOVEMBER QUALITY RATING	DECEMBER QUALITY RATING	LEAF TEXTURE	FALL DENSITY	PERCENT ESTABLISH-MENT	PERCENT ESTABLISHMENT RATINGS JUL	AUG	SEP	OCT	NOV
CA3			X		X			X	X	X		X
FL3									X	X	X	X
FL5						X	X					
MS1										X	X	
TX2	X	X	X	X			X					

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF SEASHORE PASPALUM CULTIVARS GROWN AT TWO LOCATIONS IN THE U.S. 1/
2024 DATA

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

NAME	CA3	FL3	FL5	GA1	MS1	TX2	MEAN
UGA 16-1253	6.2	7.8	6.1	5.8	6.0	5.5	6.2
UGA 16-111	6.2	7.4	5.6	5.7	5.8	5.4	6.0
UGP 312	5.6	7.5	5.9	5.7	5.9	5.0	5.9
UGP 430	5.5	7.8	5.3	5.5	6.0	5.2	5.9
UGA 17-330	5.9	7.3	5.4	5.3	5.7	5.1	5.8
SEA ISLE I	5.6	7.6	5.5	5.6	5.7	4.8	5.8
MVP-DCC	4.7	7.3	5.8	5.3	5.8	5.3	5.7
LSD VALUE	0.2	1.2	0.6	0.4	0.5	0.6	0.3
C.V. (%)	2.5	9.8	6.4	4.4	4.8	6.8	6.8

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 2A. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS
USING 0.5 INCH MOWING HEIGHT AT JAY, FL 1/
2024 DATA

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

NAME	GENETIC GENCOLOR	LEAF LEAFTEX	SUMMER SUMDENS	FALL FALLDENS	COLOR COLOROCT	QUALITY RATINGS JUN	JUL	AUG	SEP	OCT	NOV	MEAN
UGA 16-1253	7.7	6.3	7.3	7.0	6.7	7.7	7.3	8.0	7.7	8.0	8.0	7.8
UGP 430	7.7	5.7	7.3	7.7	7.7	6.3	7.0	7.7	8.7	8.7	8.3	7.8
SEA ISLE I	7.3	4.7	7.0	7.3	6.7	7.0	7.0	7.3	7.7	7.7	9.0	7.6
UGP 312	7.0	5.7	7.0	8.0	6.3	6.7	7.0	7.3	8.0	8.3	7.7	7.5
UGA 16-111	7.7	6.0	6.7	7.3	7.3	7.0	7.3	8.0	7.3	7.7	7.3	7.4
MVP-DCC	7.0	5.7	6.7	7.7	7.7	6.3	7.0	7.3	8.0	8.0	7.3	7.3
UGA 17-330	7.3	6.7	7.7	7.3	8.0	6.3	7.3	8.3	7.3	7.3	7.3	7.3
LSD VALUE	1.9	5.2	1.2	1.4	1.6	3.1	1.7	2.0	1.3	1.4	1.4	0.9
C.V. (%)	9.9	33.5	7.6	7.5	10.4	18.0	8.6	10.3	7.7	7.6	8.7	4.8

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 2A. (CONT'D) MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS
USING 0.5 INCH MOWING HEIGHT AT JAY, FL 1/
2024 DATA

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

NAME	PERCENT ESTABLISHMENT AUGUST-NOVEMBER 2023 AUG 2023	SEPT 2023	OCT 2023	NOV 2023	PERCENT ESTABLISHMENT MARCH-MAY 2024 MARCH	APRIL	MAY
UGA 16-1253	26.7	53.3	70.0	78.3	90.0	94.7	97.7
UGP 430	23.3	50.0	70.0	81.7	88.3	95.0	99.0
SEA ISLE I	20.0	53.3	73.3	83.3	93.3	96.3	99.0
UGP 312	30.0	66.7	86.7	93.3	95.0	97.7	99.0
UGA 16-111	26.7	46.7	66.7	75.0	86.7	95.0	99.0
MVP-DCC	30.0	53.3	73.3	80.0	88.3	93.0	99.0
UGA 17-330	20.0	50.0	66.7	75.0	85.0	93.3	99.0
LSD VALUE	19.2	24.0	23.1	24.5	13.7	7.4	2.1
C.V. (%)	31.0	19.0	13.9	12.7	6.4	3.2	0.9

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 2B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS USING 1 INCH MOWING HEIGHT AT JAY, FL 1/
2024 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	SUMMER DENSITY	FALL DENSITY	COLOR NOVEMBER	QUALITY RATINGS JUN	JUL	AUG	SEP	OCT	NOV	MEAN
SEA ISLE I	7.7	4.7	7.7	7.3	6.7	7.3	7.3	7.7	6.7	7.0	7.7	7.3
UGA 16-111	7.7	6.0	8.0	7.0	6.7	7.3	7.7	7.7	7.0	6.7	7.3	7.3
UGA 17-330	7.7	6.7	7.3	7.0	7.3	7.7	7.3	7.0	6.7	6.7	6.7	7.0
UGP 430	8.0	5.3	7.3	6.7	7.0	7.3	6.7	7.7	6.7	7.0	6.3	6.9
MVP-DCC	8.0	6.3	7.7	7.3	7.3	6.7	7.0	7.7	7.0	6.7	6.0	6.8
UGA 16-1253	7.7	6.3	7.7	6.7	6.7	7.3	7.0	7.0	6.7	6.0	6.7	6.8
UGP 312	7.3	5.7	7.3	7.0	7.0	6.3	6.7	7.3	6.3	6.7	7.3	6.8
LSD VALUE	1.8	4.8	1.5	1.6	2.4	1.8	1.6	1.7	1.9	1.7	1.5	0.9
C.V. (%)	8.9	31.2	7.6	8.9	13.2	10.7	9.1	9.0	10.7	10.1	10.3	5.2

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 2C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS USING 2 INCH MOWING HEIGHT AT JAY, FL 1/
2024 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	SUMMER DENSITY	FALL DENSITY	COLOR NOVEMBER	QUALITY RATINGS JUN	JUL	AUG	SEP	OCT	NOV	MEAN
SEA ISLE I	7.3	4.7	7.0	8.0	6.7	7.3	7.0	7.0	7.0	7.3	7.0	7.1
UGP 312	7.0	5.3	7.7	8.0	6.7	6.7	7.0	6.7	7.3	7.7	7.0	7.1
UGA 17-330	7.7	6.7	7.7	7.7	7.7	6.3	6.7	7.3	7.0	7.7	6.3	6.9
UGA 16-111	7.3	5.7	7.0	8.0	6.0	6.7	6.7	6.7	7.0	7.3	6.3	6.8
UGA 16-1253	7.3	7.0	7.0	7.3	6.3	7.0	6.3	6.7	7.0	7.0	6.0	6.7
UGP 430	7.7	6.0	7.0	7.3	7.0	6.3	6.0	6.7	7.0	7.3	6.3	6.6
MVP-DCC	7.3	6.0	7.3	7.7	6.7	6.7	6.0	6.7	7.0	6.3	5.7	6.4
LSD VALUE	2.1	5.3	1.8	1.4	2.2	2.3	1.8	1.6	2.1	1.4	2.2	1.2
C.V. (%)	10.4	34.7	9.7	7.3	13.3	13.4	11.5	9.0	10.9	8.4	14.3	7.1

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 3. GENETIC COLOR RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

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

NAME	CA3	FL3	FL5	GA1	MS1	MEAN
UGA 17-330	7.7	7.3	7.0	8	6.7	7.3
MVP-DCC	6.7	7.0	8.0	8	6.7	7.3
UGA 16-1253	7.0	7.7	6.7	8	6.3	7.1
UGP 430	6.7	7.7	6.3	8	6.3	7.0
UGA 16-111	6.0	7.7	6.3	8	6.3	6.9
UGP 312	6.0	7.0	7.0	8	6.3	6.9
SEA ISLE I	6.0	7.3	6.7	8	6.0	6.8
LSD VALUE	1.1	1.4	0.7	0	1.1	0.4
C.V. (%)	10.0	12.2	6.4	0	10.3	8.7

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

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

TABLE 4. SPRING GREENUP RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

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

NAME	CA3	TX2	MEAN
UGP 430	6.3	4.7	5.5
UGA 16-1253	6.7	3.0	4.8
UGA 16-111	6.3	2.3	4.3
MVP-DCC	4.0	4.3	4.2
SEA ISLE I	6.7	1.3	4.0
UGA 17-330	5.7	2.0	3.8
UGP 312	6.7	1.0	3.8
LSD VALUE	1.2	1.9	1.1
C.V. (%)	12.5	43.3	22.4

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

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

TABLE 5. LEAF TEXTURE RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

	LEAF TEXTURE RATINGS 1-9; 9=VERY FINE 2/			
NAME	CA3	FL3	FL5	MEAN
UGA 16-1253	6.7	6.3	7.0	6.7
UGA 16-111	6.7	6.0	6.7	6.4
UGA 17-330	6.0	6.7	6.7	6.4
UGP 312	6.3	5.7	6.0	6.0
SEA ISLE I	6.0	4.7	6.3	5.7
UGP 430	5.3	5.7	6.0	5.7
MVP-DCC	5.0	5.7	6.0	5.6
LSD VALUE	0.7	3.0	0.6	1.0
C.V. (%)	7.3	31.9	5.9	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 6. SEEDLING VIGOR RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

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

NAME	MS1
SEA ISLE I	5.7
UGA 16-1253	5.7
MVP-DCC	5.3
UGA 17-330	5.3
UGP 430	5.3
UGP 312	4.7
UGA 16-111	4.0
LSD VALUE	1.4
C.V. (%)	16.4

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 7. SPRING DENSITY RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

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

NAME	CA3	FL5	MEAN
UGA 16-111	6.3	7.7	7.0
UGA 16-1253	5.7	8.0	6.8
MVP-DCC	5.0	8.3	6.7
SEA ISLE I	5.3	7.7	6.5
UGA 17-330	6.0	7.0	6.5
UGP 312	5.0	8.0	6.5
UGP 430	5.0	7.7	6.3
LSD VALUE	0.6	1.1	0.6
C.V. (%)	6.9	8.9	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 8. SUMMER DENSITY RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

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

NAME	CA3	FL3	FL5	MEAN
UGA 16-111	8.0	6.7	7.7	7.4
UGA 16-1253	6.7	7.3	8.3	7.4
UGA 17-330	7.0	7.7	7.7	7.4
UGP 312	6.0	7.0	8.0	7.0
SEA ISLE I	6.0	7.0	7.7	6.9
UGP 430	5.7	7.3	7.7	6.9
MVP-DCC	6.0	6.7	6.7	6.4
LSD VALUE	0.5	1.3	1.4	0.7
C.V. (%)	4.8	11.5	11.0	9.9

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

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

TABLE 9. FALL DENSITY RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

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

NAME	CA3	FL3	FL5	MEAN
UGA 16-111	7.7	7.3	7.7	7.6
UGA 17-330	6.7	7.3	8.0	7.3
UGP 312	6.3	8.0	7.7	7.3
UGA 16-1253	6.7	7.0	7.7	7.1
SEA ISLE I	6.3	7.3	7.0	6.9
UGP 430	3.7	7.7	6.3	5.9
MVP-DCC	3.3	7.7	6.3	5.8
LSD VALUE	1.5	1.2	1.2	0.7
C.V. (%)	16.4	9.7	10.0	11.8

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

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

TABLE 10. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	CA3	FL5	GA1	MS1	MEAN
UGA 16-1253	98.3	75.0	50.0	93.0	79.1
SEA ISLE I	96.7	68.3	43.3	99.0	76.8
UGP 430	97.7	73.3	40.0	93.0	76.0
MVP-DCC	88.3	85.0	43.3	76.7	73.3
UGP 312	98.0	80.0	36.7	76.3	72.8
UGA 16-111	97.3	73.3	46.7	59.7	69.3
UGA 17-330	93.3	71.7	36.7	53.3	63.8
LSD VALUE	5.8	15.9	17.9	34.3	10.6
C.V. (%)	3.7	13.1	26.3	27.1	18.0

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 11. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	FL5
UGA 16-1253	88.3
SEA ISLE I	83.3
UGA 16-111	83.3
UGP 312	83.3
UGP 430	80.0
UGA 17-330	76.7
MVP-DCC	75.0
LSD VALUE	9.9
C.V. (%)	7.6

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

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

TABLE 12. PERCENT LIVING GROUND COVER (FALL) RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	FL5
UGA 16-1253	83.3
UGP 312	81.7
SEA ISLE I	78.3
UGA 16-111	76.7
UGP 430	75.0
UGA 17-330	73.3
MVP-DCC	68.3
LSD VALUE	19.9
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.

TABLE 13. FALL COLOR (SEPTEMBER) RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

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

NAME	GA1
UGA 16-111	8.3
UGA 17-330	8.3
MVP-DCC	8.0
SEA ISLE I	8.0
UGA 16-1253	8.0
UGP 312	8.0
UGP 430	8.0
LSD VALUE	0.5
C.V. (%)	3.8

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 14. FALL COLOR (OCTOBER) RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

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

NAME	GA1
MVP-DCC	8
SEA ISLE I	8
UGA 16-111	8
UGA 16-1253	8
UGA 17-330	8
UGP 312	8
UGP 430	8
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 15. FALL COLOR (NOVEMBER) RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

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

NAME	CA3	FL3	MS1	MEAN
UGA 17-330	6.7	8.0	6.0	6.9
UGA 16-111	6.7	7.3	6.3	6.8
UGA 16-1253	6.0	6.7	6.3	6.3
SEA ISLE I	5.7	6.7	6.0	6.1
UGP 312	5.7	6.3	6.0	6.0
UGP 430	3.3	7.7	6.0	5.7
MVP-DCC	3.0	7.7	6.0	5.6
LSD VALUE	1.0	1.2	0.5	0.5
C.V. (%)	11.7	10.5	5.1	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 16. FALL COLOR (DECEMBER) RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

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

NAME	CA3
UGA 16-111	5.7
UGA 17-330	5.3
SEA ISLE I	4.7
UGP 312	4.7
UGA 16-1253	4.3
UGP 430	2.7
MVP-DCC	2.0
LSD VALUE	1.1
C.V. (%)	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 17. SEEDHEAD RATINGS OF SEASHORE PASPALUM CULTIVARS 1/
2024 DATA

SEEDHEAD RATINGS 1-9; 9=NONE 2/

NAME	MS1
UGA 16-111	9.0
UGA 16-1253	9.0
UGA 17-330	9.0
UGP 430	9.0
MVP-DCC	8.7
UGP 312	6.7
SEA ISLE I	4.7
LSD VALUE	2.2
C.V. (%)	17.0

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. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS AT RIVERSIDE, CA 1/
2023 DATA

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

NAME	LEAF TEXTURE	PERCENT ESTABLISHMENT FROM JULY-NOVEMBER JULY	AUGUST	SEPTEMBER	NOVEMBER	QUALITY NOVEMBER
UGP 430	6.3	8.3	63.0	98.0	97.0	6.7
SEA ISLE I	6.0	13.3	56.7	97.3	95.7	6.3
UGA 16-111	6.3	9.7	53.7	98.3	96.0	6.0
UGA 16-1253	7.0	4.7	55.0	96.3	95.0	6.0
UGP 312	6.0	7.0	50.7	95.7	93.3	6.0
UGA 17-330	8.0	6.0	34.7	82.0	88.3	5.7
MVP-DCC	5.0	8.3	57.0	93.0	80.0	5.0
LSD VALUE	0.8	4.7	16.2	3.8	14.3	0.7
C.V. (%)	7.4	29.6	15.5	2.4	7.4	6.2

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

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

TABLE 19. PERCENT ESTABLISHMENT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
UNDER 0.5 INCH MOWING HEIGHT AT JAY, FL 2/
2023-24 DATA

	PERCENT ESTABLISHMENT AUGUST-NOVEMBER 2023				PERCENT ESTABLISHMENT MARCH-MAY 2024			
NAME	AUG 2023	SEPT 2023	OCT 2023	NOV 2023	MARCH	APRIL	MAY	MEAN
UGA 17-330	20.0	50.0	66.7	75.0	85.0	93.3	99.0	72.7
UGA 16-111	26.7	46.7	66.7	75.0	86.7	95.0	99.0	73.7
UGP 430	23.3	50.0	70.0	81.7	88.3	95.0	99.0	75.2
UGA 16-1253	26.7	53.3	70.0	78.3	90.0	94.7	97.7	75.6
MVP-DCC	30.0	53.3	73.3	80.0	88.3	93.0	99.0	76.3
SEA ISLE I	20.0	53.3	73.3	83.3	93.3	96.3	99.0	76.9
UGP 312	30.0	66.7	86.7	93.3	95.0	97.7	99.0	83.2
LSD VALUE	19.2	24.0	23.1	24.5	13.7	7.4	2.1	44.5
C.V. (%)	31.0	19.0	13.9	12.7	6.4	3.2	0.9	28.2

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 20. PERCENT ESTABLISHMENT AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS AT FORT LAUDERDALE, FL 1/
2023 DATA

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

NAME	SPRING DENSITY	PERCENT ESTABLISHMENT
UGA 16-1253	7.2	71.7
UGA 17-330	7.2	68.3
SEA ISLE I	6.5	65.0
UGA 16-111	7.0	65.0
UGP 312	7.0	65.0
MVP-DCC	6.2	63.3
UGP 430	5.8	56.7
LSD VALUE	1.3	15.0
C.V. (%)	13.3	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 21. PERCENT ESTABLISHMENT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/
AT MISS. ST., MS 2/
2023 DATA

NAME	SEPTEMBER	OCTOBER	MEAN
UGA 16-1253	56.7	96.0	76.3
UGP 430	53.3	93.0	73.2
SEA ISLE I	50.0	89.7	69.8
MVP-DCC	46.7	73.3	60.0
UGP 312	40.0	76.7	58.3
UGA 17-330	33.3	70.0	51.7
UGA 16-111	23.3	70.0	46.7
LSD VALUE	27.8	24.7	21.2
C.V. (%)	30.5	14.7	17.1

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 22. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF SEASHORE PASPALUM CULTIVARS IN THE 2023 NATIONAL SEASHORE PASPALUM TEST AT COLLEGE STATION, TX 1/
2023 DATA

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

NAME	PERCENT ESTABLISHMENT FALL	QUALITY RATINGS AUG	OCT	NOV	DEC	MEAN
UGP 430	41.7	6.7	5.7	6.3	6.3	6.3
UGA 16-111	23.3	5.7	6.0	6.7	6.0	6.1
UGA 16-1253	30.0	5.3	6.0	6.3	6.3	6.0
MVP-DCC	33.3	5.3	5.0	6.7	6.7	5.9
UGA 17-330	23.3	5.3	5.7	6.3	5.7	5.8
UGP 312	18.3	4.7	6.0	6.3	5.7	5.7
SEA ISLE I	18.3	5.0	5.7	5.7	5.3	5.4
LSD VALUE	16.2	1.3	1.8	1.9	2.2	1.0
C.V. (%)	30.2	12.1	12.7	11.7	14.8	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 22. (CONT'D) PERCENT ESTABLISHMENT RATINGS OF ST. AUGUSTINEGRASS CULTIVARS 1/ AT COLLEGE STATION, TX 2/
2024 DATA

NAME	SPRING	SUMMER	FALL	MEAN
UGP 430	48.3	71.7	64.7	61.6
UGA 16-1253	31.7	53.3	76.3	53.8
MVP-DCC	28.3	53.3	70.0	50.6
UGA 17-330	26.7	33.3	76.7	45.6
UGA 16-111	23.3	33.3	70.0	42.2
SEA ISLE I	20.0	25.0	63.3	36.1
UGP 312	18.3	30.0	55.0	34.4
LSD VALUE	21.2	43.0	82.1	40.9
C.V. (%)	36.8	46.6	44.5	36.5

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

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

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR SEASHORE PASPALUM CULTIVARS IN THE 2023 NATIONAL SEASHORE PASPALUM TEST */
2024 DATA

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

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
MVP-DCC	5.6	0.0
SEA ISLE I	5.7	16.7
UGA 16-111	6.0	16.7
UGA 16-1253	6.1	83.3
UGA 17-330	5.8	0.0
UGP 312	5.9	0.0
UGP 430	5.8	0.0
LSD VALUE	0.3	
C.V. (%)	6.8	

*/ 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.