

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 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>.

2014 NATIONAL BENTGRASS TEST
(Fairway/Tee)

LOCATIONS SUBMITTING DATA FOR 2018

State	Location	Code
Illinois	Urbana	IL1
Indiana	West Lafayette (Reduced Irrigation)	IN1
Iowa	Ames	IA1
Kansas	Manhattan	KS1
Kentucky	Lexington	KY1
Massachusetts	Amherst (Traffic)	MA1
Maryland	College Park	MD1
Michigan	East Lansing	MI1
Missouri	Columbia	MO1
New Jersey	North Brunswick	NJ1
North Dakota	Fargo (Winter Tolerance)	ND1
Utah	Logan (Reduced Irrigation)	UT1
Virginia	Blacksburg (Traffic)	VA2

2014 NATIONAL BENTGRASS TEST
(Fairway/Tee)

Entries and Sponsors

Entry No	Name	Species	Sponsor
1	DLFPS-AT/3026	Colonial	DLF Pickseed USA
*2	007	Creeping	Standard
*3	Penncross	Creeping	Standard
*4	Crystal Blue Links	Creeping	Standard
*5	Greentime	Colonial	Standard
*6	L-93XD	Creeping	Jacklin Seed by Simplot®
*7	Armor	Creeping	Jacklin Seed by Simplot®
*8	Kingdom	Creeping	Jacklin Seed by Simplot®
*9	Nightlife	Creeping	Jacklin Seed by Simplot®
*10	V-8	Creeping	Jacklin Seed by Simplot®
*11	Piranha (DC-1)	Creeping	Mountain View Seeds & Toyo Green Co. Ltd.
*12	Musket (PPG-AT 104)	Colonial	Mountain View Seeds
*13	Chinook (H10G-OP)	Creeping	Vista Seed Partners LLC
*14	Shark	Creeping	Mountain View Seeds
*15	Barracuda	Creeping	Mountain View Seeds
16	PST-0RBS	Creeping	Pure Seed Testing Inc
*17	PC2.0 (PST-0CV6)	Creeping	Tee-2-Green

* Commercially Available in the US or any Other Country in 2019.

TABLE A.

2018 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2014 NATIONAL BENTGRASS (FAIRWAY/TEE) TEST

LOCATION	SOIL	SOIL PH	SOIL	SOIL	NITROGEN (LBS/1000 SQ FT)	SUN	MOWING	IRRIGATION PRACTICED
	TEXTURE		PHOSPHOROUS (LBS/ACRE)	POTASSIUM (LBS/ACRE)		OR SHADE	HEIGHT (IN)	
IA1	SANDY CLAY LOAM	7.1-7.5	0-60	0-150	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IL1	SILT LOAM AND SILT	6.1-6.5	0-60	376-500	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IN1	SAND	7.6-8.5	61-150	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
KS1	-	-	-	-	-	-	-	-
KY1	SILT LOAM AND SILT	5.6-6.0	271-450	241-375	0.0-1.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
MA1	LOAM	5.6-6.0	0-60	241-375	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MD1	SILT LOAM AND SILT	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MI1	-	-	-	-	-	-	-	-
MO1	-	-	-	-	-	-	-	-
ND1	SILTY CLAY AND CLAY	7.1-7.5	0-60	151-240	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
NJ1	SANDY LOAM	6.1-6.5	451+	151-240	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
UT1	SILT LOAM AND SILT	7.1-7.5	-	-	-	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
VA2	SILTY CLAY LOAM	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT DORMANCY

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2018

LOCATION	MARCH	APRIL	MAY	JUNE	JULY	AUGUST	SEPTEMBER	OCTOBER	NOVEMBER	DECEMBER	GENETIC COLOR	SPRING GREENUP	LEAF TEXTURE	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY
	QUALITY RATING	QUALITY RATING	QUALITY RATING	QUALITY RATING	QUALITY RATING	QUALITY RATING	QUALITY RATING	QUALITY RATING	QUALITY RATING	QUALITY RATING						
IA1			X	X	X	X	X	X			X					
IL1		X	X	X	X	X	X	X			X	X				
IN1		X	X	X	X	X	X	X	X				X		X	
KS1																
KY1	X	X	X	X	X	X	X	X	X							
MA1		X	X	X	X	X	X	X	X	X						
MD1			X	X	X	X	X	X	X							
MI1			X	X	X		X	X			X	X				
MO1		X	X	X	X	X	X	X								
ND1			X	X	X	X	X							X	X	X
NJ1		X	X	X	X	X	X	X			X	X	X			X
UT1		X	X	X	X	X	X	X			X	X				
VA2			X	X	X	X	X									

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2018

LOCATION	PERCENT	PERCENT	PERCENT	DOLLAR	BROWN	FALL	FALL	PERCENT	PERCENT	DOLLAR SPOT		WEAR TOLERANCE RATINGS		
	COVER	COVER	COVER		PATCH	COLOR	COLOR	CRABGRASS	POA	JULY	AUGUST	MAY	JULY	OCTOBER
	SPRING	SUMMER	FALL	SPOT	WARM TEMP.	OCTOBER	NOVEMBER	AUGUST	ANNUA					
IA1				X										
IL1							X							
IN1				X					X		X			
KS1														
KY1														
MA1												X	X	X
MD1				X	X			X						
MI1						X								
MO1														
ND1	X	X	X											
NJ1			X	X	X						X	X		
UT1														

* VA2

* MORE DATA FOR VA2 IN TABLE 4.

TABLE 1A. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
 A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
 2018 DATA

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

NAME	# ENTRY	NJ1	KY1	IA1	KS1	MEAN
DLFPS-AT/3026	1	7.1	6.9	6.8	5.1	6.4
* PIRANHA (DC-1)	11	7.4	6.8	6.7	4.3	6.3
* CHINOOK (H10G-OP)	13	7.5	6.7	6.7	4.3	6.3
* 007	2	7.0	6.7	6.7	4.2	6.2
* V-8	10	6.5	6.7	6.7	4.1	6.0
* BARRACUDA	15	6.0	6.7	6.7	4.2	5.9
* L-93XD	6	6.9	6.5	6.5	3.7	5.9
* MUSKET (PPG-AT 104)	12	6.4	6.2	6.2	3.8	5.7
* GREENTIME	5	4.7	6.5	6.4	5.0	5.6
* PENNCROSS	3	4.5	6.5	6.4	5.1	5.6
* SHARK	14	5.5	6.5	6.5	3.9	5.6
* CRYSTAL BLUE LINKS	4	4.5	6.6	6.7	4.1	5.5
* NIGHTLIFE	9	4.6	6.5	6.6	4.0	5.4
* PC2.0 (PST-0CV6)	17	4.1	6.6	6.6	4.3	5.4
* KINGDOM	8	4.2	6.3	6.4	3.8	5.2
PST-ORBS	16	3.5	6.4	6.4	4.0	5.1
* ARMOR	7	3.6	6.2	6.3	3.9	5.0
LSD VALUE		0.9	0.9	0.9	0.9	0.9
C.V. (%)		10.4	8.8	8.8	13.6	10.0

*/ COMMERCIALLY AVAILABLE IN THE USA IN 2019

**/ 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 1B. MEAN TURFGRASS QUALITY RATINGS OF CREEPING BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 */
2018 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	# ENTRY	NJ1	KY1	IA1	KS1	MEAN
* PIRANHA (DC-1)	11	7.4	6.8	6.7	4.3	6.3
* CHINOOK (H10G-OP)	13	7.5	6.7	6.7	4.3	6.3
* 007	2	7.0	6.7	6.7	4.2	6.2
* V-8	10	6.5	6.7	6.7	4.1	6.0
* BARRACUDA	15	6.0	6.7	6.7	4.2	5.9
* L-93XD	6	6.9	6.5	6.5	3.7	5.9
* PENNCROSS	3	4.5	6.5	6.4	5.1	5.6
* SHARK	14	5.5	6.5	6.5	3.9	5.6
* CRYSTAL BLUE LINKS	4	4.5	6.6	6.7	4.1	5.5
* NIGHTLIFE	9	4.6	6.5	6.6	4.0	5.4
* PC2.0 (PST-0CV6)	17	4.1	6.6	6.6	4.3	5.4
* KINGDOM	8	4.2	6.3	6.4	3.8	5.2
* PST-ORBS	16	3.5	6.4	6.4	4.0	5.1
* ARMOR	7	3.6	6.2	6.3	3.9	5.0
LSD VALUE		0.9	0.9	0.9	0.9	0.9
C.V. (%)		10.6	8.8	8.7	13.8	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 1C. MEAN TURFGRASS QUALITY RATINGS OF COLONIAL BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 */
2018 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	# ENTRY	NJ1	KY1	IA1	KS1	MEAN
DLFPS-AT/3026	1	7.1	6.9	6.8	5.1	6.4
* MUSKET (PPG-AT 104)	12	6.4	6.2	6.2	3.8	5.7
* GREENTIME	5	4.7	6.5	6.4	5.0	5.6
LSD VALUE		0.9	0.9	0.9	0.9	0.9
C.V. (%)		9.4	8.8	8.9	12.5	9.7

*/ 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 2A. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
 A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
 2018 DATA

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

NAME	# ENTRY	MD1	IL1	MI1	MO1	MEAN
V-8	10	6.6	7.4	6.9	5.3	6.5
BARRACUDA	15	6.3	7.4	6.9	5.3	6.5
CRYSTAL BLUE LINKS	4	5.7	7.6	6.9	5.6	6.5
007	2	6.5	7.3	6.8	5.1	6.4
L-93XD	6	6.8	7.1	6.6	5.0	6.4
NIGHTLIFE	9	5.7	7.4	6.8	5.4	6.3
PIRANHA (DC-1)	11	6.5	7.2	6.7	5.0	6.3
SHARK	14	6.2	7.3	6.7	5.2	6.3
CHINOOK (H10G-OP)	13	6.4	7.1	6.6	4.9	6.3
PC2.0 (PST-0CV6)	17	5.0	7.5	6.7	5.4	6.2
KINGDOM	8	5.4	7.2	6.5	5.2	6.1
PST-0RBS	16	5.0	7.4	6.6	5.3	6.1
ARMOR	7	4.8	7.2	6.5	5.1	5.9
MUSKET (PPG-AT 104)	12	5.9	6.8	6.2	4.6	5.9
DLFPS-AT/3026	1	5.0	7.2	6.4	4.5	5.8
GREENTIME	5	3.3	7.0	6.0	4.3	5.1
PENNCROSS	3	3.1	7.1	6.1	4.3	5.1
LSD VALUE		0.9	0.9	0.9	0.9	0.9
C.V. (%)		10.4	7.9	8.7	11.4	9.4

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

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

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

TABLE 2B. MEAN TURFGRASS QUALITY RATINGS OF CREEPING BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2018 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	# ENTRY	MD1	IL1	MI1	MO1	MEAN
V-8	10	6.6	7.4	6.9	5.3	6.5
BARRACUDA	15	6.3	7.4	6.9	5.3	6.5
CRYSTAL BLUE LINKS 007	4	5.7	7.6	6.9	5.6	6.5
L-93XD	2	6.5	7.3	6.8	5.1	6.4
NIGHTLIFE	6	6.8	7.1	6.6	5.0	6.4
PIRANHA (DC-1)	9	5.7	7.4	6.8	5.4	6.3
SHARK	11	6.5	7.2	6.7	5.0	6.3
CHINOOK (H10G-OP)	14	6.2	7.3	6.7	5.2	6.3
PC2.0 (PST-0CV6)	13	6.4	7.1	6.6	4.9	6.3
KINGDOM	17	5.0	7.5	6.7	5.4	6.2
PST-ORBS	8	5.4	7.2	6.5	5.2	6.1
ARMOR	16	5.0	7.4	6.6	5.3	6.1
PENNCROSS	7	4.8	7.2	6.5	5.1	5.9
	3	3.1	7.1	6.1	4.3	5.1
LSD VALUE		0.9	0.9	0.9	0.9	0.9
C.V. (%)		10.0	7.9	8.6	11.2	9.3

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

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

TABLE 2C. MEAN TURFGRASS QUALITY RATINGS OF COLONIAL BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2018 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						
NAME	# ENTRY	MD1	IL1	MI1	MO1	MEAN
MUSKET (PPG-AT 104)	12	5.9	6.8	6.2	4.6	5.9
DLFPS-AT/3026	1	5.0	7.2	6.4	4.5	5.8
GREENTIME	5	3.3	7.0	6.0	4.3	5.1
LSD VALUE		0.9	0.9	0.9	0.9	0.9
C.V. (%)		12.2	8.2	9.2	12.9	10.3

*/ 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 3A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2018 DATA

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

NAME	WEAR TOLERANCE RATINGS			QUALITY RATINGS									MEAN
	MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PIRANHA (DC-1)	6.3	6.7	7.3	6.0	6.0	6.7	6.7	6.7	6.7	7.0	6.3	5.7	6.4
KINGDOM 007	7.0	6.3	7.7	5.3	5.7	6.7	6.7	6.0	6.3	5.7	6.0	5.7	6.0
NIGHTLIFE	5.7	6.3	6.0	5.0	6.0	6.0	6.3	6.3	6.0	5.7	5.7	5.7	5.9
CHINOOK (H10G-OP)	6.0	7.3	6.0	5.0	5.3	6.0	6.3	6.7	6.3	6.0	6.0	5.7	5.9
SHARK	5.0	5.0	5.7	5.7	5.7	5.7	5.7	6.0	5.7	5.7	5.7	5.7	5.7
ARMOR	5.0	5.7	5.7	5.0	6.3	6.3	5.7	6.0	5.3	5.7	5.3	5.3	5.7
L-93XD	5.7	5.7	6.7	5.0	6.0	6.3	6.7	6.3	5.3	5.3	5.0	4.7	5.6
PC2.0 (PST-OCV6)	5.3	5.0	6.0	5.3	6.0	6.0	5.3	5.3	5.7	5.3	5.7	5.3	5.6
MUSKET (PPG-AT 104)	4.7	5.3	6.0	5.0	5.0	5.3	6.0	5.7	5.7	5.3	6.0	5.3	5.5
V-8	4.3	5.3	6.3	4.3	6.7	6.7	7.0	5.3	5.7	5.0	4.0	3.7	5.4
BARRACUDA	4.7	5.0	5.0	5.0	6.0	6.0	5.7	5.3	5.0	5.3	5.0	5.0	5.4
DLFPS-AT/3026	4.7	5.3	5.3	4.3	5.7	5.0	5.0	6.0	5.3	5.0	5.3	5.7	5.3
PST-ORBS	3.7	4.3	4.7	4.3	6.3	6.7	7.0	5.0	5.3	5.0	4.0	4.0	5.3
CRYSTAL BLUE LINKS	5.3	5.7	6.3	5.0	5.3	5.7	6.0	5.7	5.0	4.7	5.3	5.0	5.3
GREENTIME	4.3	4.7	5.7	3.7	4.3	5.7	5.3	5.3	5.3	4.7	4.0	4.7	4.8
PENNCROSS	3.7	5.0	4.3	4.3	5.0	5.3	5.3	4.7	5.0	4.3	3.7	4.0	4.6
	3.3	4.0	4.0	3.0	4.0	4.0	4.3	4.3	4.0	4.3	4.0	4.0	4.0
LSD VALUE	0.8	0.7	1.0	0.9	1.2	0.7	1.0	0.8	0.6	0.8	0.7	0.7	0.4
C.V. (%)	10.0	8.0	10.7	10.8	11.5	7.3	9.6	8.4	6.8	9.2	9.0	8.5	4.4

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 3B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS
GROWN UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2018 DATA

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

NAME	WEAR TOLERANCE RATINGS			QUALITY RATINGS									MEAN
	MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PIRANHA (DC-1)	6.3	6.7	7.3	6.0	6.0	6.7	6.7	6.7	6.7	7.0	6.3	5.7	6.4
KINGDOM	7.0	6.3	7.7	5.3	5.7	6.7	6.7	6.0	6.3	5.7	6.0	5.7	6.0
007	5.7	6.3	6.0	5.0	6.0	6.0	6.3	6.3	6.0	5.7	5.7	5.7	5.9
NIGHTLIFE	6.0	7.3	6.0	5.0	5.3	6.0	6.3	6.7	6.3	6.0	6.0	5.7	5.9
CHINOOK (H10G-OP)	5.0	5.0	5.7	5.7	5.7	5.7	5.7	6.0	5.7	5.7	5.7	5.7	5.7
SHARK	5.0	5.7	5.7	5.0	6.3	6.3	5.7	6.0	5.3	5.7	5.3	5.3	5.7
ARMOR	5.7	5.7	6.7	5.0	6.0	6.3	6.7	6.3	5.3	5.3	5.0	4.7	5.6
L-93XD	5.3	5.0	6.0	5.3	6.0	6.0	5.3	5.3	5.7	5.3	5.7	5.3	5.6
PC2.0 (PST-0CV6)	4.7	5.3	6.0	5.0	5.0	5.3	6.0	5.7	5.7	5.3	6.0	5.3	5.5
V-8	4.7	5.0	5.0	5.0	6.0	6.0	5.7	5.3	5.0	5.3	5.0	5.0	5.4
BARRACUDA	4.7	5.3	5.3	4.3	5.7	5.0	5.0	6.0	5.3	5.0	5.3	5.7	5.3
PST-ORBS	5.3	5.7	6.3	5.0	5.3	5.7	6.0	5.7	5.0	4.7	5.3	5.0	5.3
CRYSTAL BLUE LINKS	4.3	4.7	5.7	3.7	4.3	5.7	5.3	5.3	5.3	4.7	4.0	4.7	4.8
PENNCROSS	3.3	4.0	4.0	3.0	4.0	4.0	4.3	4.3	4.0	4.3	4.0	4.0	4.0
LSD VALUE	0.8	0.7	1.0	0.8	1.1	0.6	1.1	0.9	0.6	0.9	0.7	0.7	0.4
C.V. (%)	9.4	8.2	9.8	10.3	11.2	6.6	10.6	8.5	6.6	9.7	8.1	7.6	4.2

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 3C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COLONIAL BENTGRASS CULTIVARS
GROWN UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2018 DATA

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

NAME	WEAR TOLERANCE RATINGS			QUALITY RATINGS									MEAN
	MAY	JULY	OCTOBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
MUSKET (PPG-AT 104)	4.3	5.3	6.3	4.3	6.7	6.7	7.0	5.3	5.7	5.0	4.0	3.7	5.4
DLFPS-AT/3026	3.7	4.3	4.7	4.3	6.3	6.7	7.0	5.0	5.3	5.0	4.0	4.0	5.3
GREENTIME	3.7	5.0	4.3	4.3	5.0	5.3	5.3	4.7	5.0	4.3	3.7	4.0	4.6
LSD VALUE	0.8	0.8	0.8	1.3	1.9	1.5	0.8	0.9	0.9	0.8	1.5	0.8	0.6
C.V. (%)	8.6	6.8	6.5	13.3	13.6	10.7	5.2	8.2	7.7	7.0	17.1	8.6	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 4A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2018 DATA

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

NAME	QUALITY RATINGS BEFORE TRAFFIC					MEAN	DISEASE	QUALITY RATINGS				
	MAY	JUN	JUL	AUG	SEP			NO TRAFFIC OCTOBER 18	NO TRAFFIC OCTOBER 30	TRAFFIC OCTOBER 31	NO TRAFFIC OCTOBER 31	TRAFFIC NOVEMBER
007	7.3	7.7	7.7	7.3	7.7	7.5	2.7	5.3	5.7	6.0	8.0	6.0
ARMOR	7.7	7.3	7.0	7.3	7.7	7.4	2.7	5.3	5.3	5.7	8.0	6.0
CRYSTAL BLUE LINKS	7.7	8.0	7.3	7.7	7.7	7.7	2.7	5.7	5.7	6.0	8.0	6.0
DLFPS-AT/3026	8.0	8.0	7.0	8.0	8.0	7.8	2.0	5.3	4.3	6.0	6.3	6.0
GREENTIME	7.7	7.3	7.3	7.0	7.7	7.4	2.7	5.7	5.7	6.0	7.7	6.0
KINGDOM	7.7	7.3	7.3	7.3	7.3	7.4	2.3	5.0	5.3	5.7	8.3	6.0
L-93XD	7.7	7.3	7.7	7.7	7.7	7.6	2.7	6.0	6.3	6.0	8.7	6.0
MUSKET (PPG-AT 104)	8.0	8.0	7.3	7.7	7.3	7.7	2.3	5.7	5.7	6.0	8.0	6.0
PC2.0 (PST-0CV6)	7.7	7.7	7.3	7.7	7.7	7.6	3.0	6.0	6.0	6.3	8.0	6.0
PENNCROSS	7.7	7.3	7.3	7.3	7.7	7.5	2.7	5.7	6.3	5.7	8.3	6.0
PIRANHA (DC-1)	7.7	7.7	7.3	7.7	8.0	7.7	2.7	5.7	6.0	6.3	8.0	6.0
PST-0RBS	7.7	7.3	7.3	7.3	7.3	7.4	2.7	6.0	6.0	6.0	8.0	6.0
SHARK	8.0	7.7	7.7	8.0	8.0	7.9	2.3	5.0	5.3	6.0	8.7	6.0
V-8	7.7	7.3	7.7	7.3	8.0	7.6	2.7	6.0	6.3	6.0	8.0	6.0
BARRACUDA	7.7	7.3	7.3	7.3	7.3	7.4	2.5	6.0	6.0	6.0	8.3	5.7
CHINOOK (H10G-OP)	7.3	7.3	7.3	7.7	8.0	7.5	2.7	5.3	4.7	5.7	8.0	5.7
NIGHTLIFE	8.0	7.7	7.7	7.3	8.0	7.7	2.7	5.3	5.3	6.0	8.3	5.7
LSD VALUE	1.5	1.2	2.0	1.4	1.4	1.0	1.6	1.9	2.7	2.2	2.2	1.6
C.V. (%)	6.0	5.6	7.8	6.4	6.2	4.2	19.2	11.5	17.0	10.1	10.1	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 4B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS
GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2018 DATA

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

NAME	QUALITY RATINGS BEFORE TRAFFIC					MEAN	DISEASE	QUALITY RATINGS				
	MAY	JUN	JUL	AUG	SEP			NO TRAFFIC OCTOBER 18	NO TRAFFIC OCTOBER 30	TRAFFIC OCTOBER 31	NO TRAFFIC OCTOBER 31	TRAFFIC NOVEMBER
007	7.3	7.7	7.7	7.3	7.7	7.5	2.7	5.3	5.7	6.0	8.0	6.0
ARMOR	7.7	7.3	7.0	7.3	7.7	7.4	2.7	5.3	5.3	5.7	8.0	6.0
CRYSTAL BLUE LINKS	7.7	8.0	7.3	7.7	7.7	7.7	2.7	5.7	5.7	6.0	8.0	6.0
KINGDOM	7.7	7.3	7.3	7.3	7.3	7.4	2.3	5.0	5.3	5.7	8.3	6.0
L-93XD	7.7	7.3	7.7	7.7	7.7	7.6	2.7	6.0	6.3	6.0	8.7	6.0
PC2.0 (PST-0CV6)	7.7	7.7	7.3	7.7	7.7	7.6	3.0	6.0	6.0	6.3	8.0	6.0
PENNCROSS	7.7	7.3	7.3	7.3	7.7	7.5	2.7	5.7	6.3	5.7	8.3	6.0
PIRANHA (DC-1)	7.7	7.7	7.3	7.7	8.0	7.7	2.7	5.7	6.0	6.3	8.0	6.0
PST-0RBS	7.7	7.3	7.3	7.3	7.3	7.4	2.7	6.0	6.0	6.0	8.0	6.0
SHARK	8.0	7.7	7.7	8.0	8.0	7.9	2.3	5.0	5.3	6.0	8.7	6.0
V-8	7.7	7.3	7.7	7.3	8.0	7.6	2.7	6.0	6.3	6.0	8.0	6.0
BARRACUDA	7.7	7.3	7.3	7.3	7.3	7.4	2.5	6.0	6.0	6.0	8.3	5.7
CHINOOK (H10G-OP)	7.3	7.3	7.3	7.7	8.0	7.5	2.7	5.3	4.7	5.7	8.0	5.7
NIGHTLIFE	8.0	7.7	7.7	7.3	8.0	7.7	2.7	5.3	5.3	6.0	8.3	5.7
LSD VALUE	1.6	1.3	2.0	1.4	1.3	1.0	1.7	1.8	2.7	2.2	0.9	1.6
C.V. (%)	6.4	5.9	8.1	6.2	6.0	4.3	19.1	11.7	16.1	11.1	4.4	8.0

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 4C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COLONIAL BENTGRASS CULTIVARS
GROWN UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2018 DATA

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

NAME	QUALITY RATINGS BEFORE TRAFFIC					MEAN	DISEASE	QUALITY RATINGS				
	MAY	JUN	JUL	AUG	SEP			NO TRAFFIC OCTOBER 18	NO TRAFFIC OCTOBER 30	TRAFFIC OCTOBER 31	NO TRAFFIC OCTOBER 31	TRAFFIC NOVEMBER
DLFPS-AT/3026	8.0	8.0	7.0	8.0	8.0	7.8	2.0	5.3	4.3	6	6.3	6
GREENTIME	7.7	7.3	7.3	7.0	7.7	7.4	2.7	5.7	5.7	6	7.7	6
MUSKET (PPG-AT 104)	8.0	8.0	7.3	7.7	7.3	7.7	2.3	5.7	5.7	6	8.0	6
LSD VALUE	0.8	0.8	0.8	0.8	0.9	0.6	0.9	1.5	3.1	0	4.1	0
C.V. (%)	4.2	4.3	4.6	4.4	5.3	3.2	17.5	12.0	25.5	0	24.3	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 5A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS IN THE
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT WEST LAFAYETTE, IN 1/
2018 DATA

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

NAME	LEAF TEXTURE	SUMMER DENSITY	DOLLAR SPOT JUNE	DOLLAR SPOT AUGUST	PERCENT POA ANNUA	QUALITY RATINGS							MEAN	
						APR	MAY	JUN	JUL	AUG	SEP	OCT		NOV
L-93XD	7.0	8.3	8.0	6.3	3.0	7.3	7.0	7.7	7.0	5.7	5.7	7.3	7.3	6.9
007	6.3	8.0	7.7	6.3	7.0	6.7	6.7	7.3	6.7	5.3	6.0	8.0	7.3	6.8
CHINOOK (H10G-OP)	7.3	7.7	8.7	7.7	2.7	7.0	6.7	6.7	6.7	5.7	6.0	7.3	7.3	6.7
PIRANHA (DC-1)	7.0	8.3	7.3	5.3	3.7	7.0	7.0	7.0	6.3	5.3	5.7	7.3	7.3	6.6
SHARK	7.0	8.0	8.0	4.7	2.3	7.0	6.3	7.3	5.7	4.7	5.7	8.0	7.3	6.5
PC2.0 (PST-OCV6)	7.0	7.7	6.0	4.3	3.3	7.3	7.0	7.3	6.7	4.0	5.0	7.0	7.0	6.4
PST-0RBS	7.7	7.7	8.0	4.7	9.0	7.3	6.7	6.3	5.0	4.7	5.7	7.7	7.7	6.4
CRYSTAL BLUE LINKS	7.0	6.3	7.0	5.7	8.3	6.7	6.3	7.0	6.3	4.3	5.7	7.0	7.0	6.3
NIGHTLIFE	7.3	7.7	7.3	5.7	8.0	7.0	6.7	7.0	5.7	4.3	5.0	7.3	7.0	6.3
V-8	7.0	7.0	8.0	6.7	7.7	5.3	6.0	7.0	6.3	5.3	6.0	7.3	7.0	6.3
ARMOR	7.0	7.3	4.3	3.7	7.0	7.0	6.7	7.3	5.0	3.7	5.3	7.0	7.3	6.2
BARRACUDA	7.0	7.7	7.7	5.3	6.0	6.3	6.3	6.3	5.7	5.0	6.0	7.0	7.0	6.2
MUSKET (PPG-AT 104)	8.3	8.3	9.0	6.3	23.3	5.7	5.7	6.7	6.0	5.7	5.7	6.7	7.0	6.1
KINGDOM	7.0	7.7	7.0	6.0	10.0	6.3	6.0	7.0	5.0	5.3	5.0	6.7	6.7	6.0
DLFPS-AT/3026	8.0	8.0	9.0	7.3	31.7	5.0	5.7	6.3	6.0	5.3	5.7	6.7	6.3	5.9
GREENTIME	6.7	7.0	7.0	5.7	26.7	4.7	5.7	5.3	6.0	4.7	5.3	6.7	6.0	5.5
PENNCROSS	5.3	5.7	6.0	4.0	21.7	5.3	5.7	6.0	5.3	4.0	5.0	6.0	6.7	5.5
LSD VALUE	0.7	1.7	2.4	1.6	14.3	1.7	1.3	1.3	1.8	0.9	1.1	1.5	1.1	0.6
C.V. (%)	6.4	11.0	16.5	16.3	76.1	13.8	9.6	9.7	13.7	11.1	8.7	9.4	7.1	5.6

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 5B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS IN THE
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT WEST LAFAYETTE, IN 1/
2018 DATA

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

NAME	LEAF TEXTURE	SUMMER DENSITY	DOLLAR SPOT JUNE	DOLLAR SPOT AUGUST	PERCENT POA ANNUA	APR	MAY	JUN	JUL	QUALITY RATINGS				MEAN
										AUG	SEP	OCT	NOV	
L-93XD	7.0	8.3	8.0	6.3	3.0	7.3	7.0	7.7	7.0	5.7	5.7	7.3	7.3	6.9
007	6.3	8.0	7.7	6.3	7.0	6.7	6.7	7.3	6.7	5.3	6.0	8.0	7.3	6.8
CHINOOK (H10G-OP)	7.3	7.7	8.7	7.7	2.7	7.0	6.7	6.7	6.7	5.7	6.0	7.3	7.3	6.7
PIRANHA (DC-1)	7.0	8.3	7.3	5.3	3.7	7.0	7.0	7.0	6.3	5.3	5.7	7.3	7.3	6.6
SHARK	7.0	8.0	8.0	4.7	2.3	7.0	6.3	7.3	5.7	4.7	5.7	8.0	7.3	6.5
PC2.0 (PST-0CV6)	7.0	7.7	6.0	4.3	3.3	7.3	7.0	7.3	6.7	4.0	5.0	7.0	7.0	6.4
PST-0RBS	7.7	7.7	8.0	4.7	9.0	7.3	6.7	6.3	5.0	4.7	5.7	7.7	7.7	6.4
CRYSTAL BLUE LINKS	7.0	6.3	7.0	5.7	8.3	6.7	6.3	7.0	6.3	4.3	5.7	7.0	7.0	6.3
NIGHTLIFE	7.3	7.7	7.3	5.7	8.0	7.0	6.7	7.0	5.7	4.3	5.0	7.3	7.0	6.3
V-8	7.0	7.0	8.0	6.7	7.7	5.3	6.0	7.0	6.3	5.3	6.0	7.3	7.0	6.3
ARMOR	7.0	7.3	4.3	3.7	7.0	7.0	6.7	7.3	5.0	3.7	5.3	7.0	7.3	6.2
BARRACUDA	7.0	7.7	7.7	5.3	6.0	6.3	6.3	6.3	5.7	5.0	6.0	7.0	7.0	6.2
KINGDOM	7.0	7.7	7.0	6.0	10.0	6.3	6.0	7.0	5.0	5.3	5.0	6.7	6.7	6.0
PENNCROSS	5.3	5.7	6.0	4.0	21.7	5.3	5.7	6.0	5.3	4.0	5.0	6.0	6.7	5.5
LSD VALUE	0.8	1.7	2.7	1.4	19.7	1.9	1.6	1.6	1.7	1.0	0.9	1.4	1.6	0.7
C.V. (%)	6.3	10.9	18.0	15.4	107.4	12.6	9.5	9.4	13.7	11.5	8.2	8.8	7.6	5.4

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 5C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COLONIAL BENTGRASS CULTIVARS IN THE
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT WEST LAFAYETTE, IN 1/
2018 DATA

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

NAME	LEAF TEXTURE	SUMMER DENSITY	DOLLAR SPOT JUNE	DOLLAR SPOT AUGUST	PERCENT POA ANNUA	APR	MAY	JUN	JUL	QUALITY RATINGS				MEAN
										AUG	SEP	OCT	NOV	
MUSKET (PPG-AT 104)	8.3	8.3	9.0	6.3	23.3	5.7	5.7	6.7	6.0	5.7	5.7	6.7	7.0	6.1
DLFPS-AT/3026	8.0	8.0	9.0	7.3	31.7	5.0	5.7	6.3	6.0	5.3	5.7	6.7	6.3	5.9
GREENTIME	6.7	7.0	7.0	5.7	26.7	4.7	5.7	5.3	6.0	4.7	5.3	6.7	6.0	5.5
LSD VALUE	0.9	2.4	1.3	3.1	26.7	2.3	1.6	1.5	2.1	1.2	1.5	1.6	0.8	1.0
C.V. (%)	5.3	13.6	6.9	20.7	42.2	19.0	12.5	10.9	15.2	10.1	12.0	10.6	5.2	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 6A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT LOGAN, UT 1/
2018 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	APR	MAY	JUN	QUALITY RATINGS				MEAN
						JUL	AUG	SEP	OCT	
NIGHTLIFE	6.7	5.3	5.7	7.3	6.3	7.0	6.3	6.0	6.7	6.5
ARMOR	7.0	5.3	6.0	6.7	7.0	6.3	5.7	6.0	6.3	6.3
KINGDOM	6.3	5.3	5.0	7.3	6.3	6.3	6.0	6.0	6.3	6.2
PST-0RBS	4.3	4.3	5.0	6.7	7.0	5.7	6.3	5.3	6.0	6.0
PIRANHA (DC-1)	4.7	5.0	5.3	6.0	6.3	6.0	5.7	5.3	5.7	5.8
CHINOOK (H10G-OP)	4.7	5.3	4.7	6.0	6.3	5.7	5.7	5.3	6.3	5.7
MUSKET (PPG-AT 104)	6.0	6.0	6.0	6.3	6.3	5.3	5.3	5.0	5.3	5.7
BARRACUDA	4.7	5.3	5.3	5.3	6.3	6.3	4.7	5.0	5.7	5.5
V-8	5.0	3.7	4.3	5.7	5.7	6.0	6.0	5.3	5.3	5.5
DLFPS-AT/3026	6.0	6.7	6.0	6.3	6.0	4.7	5.0	4.7	5.0	5.4
PC2.0 (PST-0CV6)	4.0	5.0	5.3	5.0	6.3	6.0	5.0	4.7	5.3	5.4
SHARK	4.7	4.0	4.3	5.7	5.7	6.0	5.0	4.7	5.7	5.3
007	4.3	5.7	5.0	4.7	5.7	5.7	5.3	4.7	5.7	5.2
CRYSTAL BLUE LINKS	3.0	6.0	4.7	5.7	6.7	5.0	4.7	4.3	5.3	5.2
PENNCROSS	4.3	5.0	4.3	3.3	3.7	5.0	5.3	3.7	4.3	4.2
L-93XD	4.0	4.0	4.7	4.3	5.0	4.7	3.3	3.3	3.7	4.1
GREENTIME	6.7	6.0	5.3	5.0	4.3	3.0	3.0	4.0	3.7	4.0
LSD VALUE	1.1	3.2	4.4	2.0	2.9	2.6	2.0	2.6	1.5	1.5
C.V. (%)	13.8	23.9	25.7	18.7	20.4	20.8	19.2	22.2	15.4	14.4

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 6B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT LOGAN, UT 1/
2018 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	APR	MAY	JUN	QUALITY RATINGS				MEAN
						JUL	AUG	SEP	OCT	
NIGHTLIFE	6.7	5.3	5.7	7.3	6.3	7.0	6.3	6.0	6.7	6.5
ARMOR	7.0	5.3	6.0	6.7	7.0	6.3	5.7	6.0	6.3	6.3
KINGDOM	6.3	5.3	5.0	7.3	6.3	6.3	6.0	6.0	6.3	6.2
PST-ORBS	4.3	4.3	5.0	6.7	7.0	5.7	6.3	5.3	6.0	6.0
PIRANHA (DC-1)	4.7	5.0	5.3	6.0	6.3	6.0	5.7	5.3	5.7	5.8
CHINOOK (H10G-OP)	4.7	5.3	4.7	6.0	6.3	5.7	5.7	5.3	6.3	5.7
BARRACUDA	4.7	5.3	5.3	5.3	6.3	6.3	4.7	5.0	5.7	5.5
V-8	5.0	3.7	4.3	5.7	5.7	6.0	6.0	5.3	5.3	5.5
PC2.0 (PST-0CV6)	4.0	5.0	5.3	5.0	6.3	6.0	5.0	4.7	5.3	5.4
SHARK	4.7	4.0	4.3	5.7	5.7	6.0	5.0	4.7	5.7	5.3
007	4.3	5.7	5.0	4.7	5.7	5.7	5.3	4.7	5.7	5.2
CRYSTAL BLUE LINKS	3.0	6.0	4.7	5.7	6.7	5.0	4.7	4.3	5.3	5.2
PENNCROSS	4.3	5.0	4.3	3.3	3.7	5.0	5.3	3.7	4.3	4.2
L-93XD	4.0	4.0	4.7	4.3	5.0	4.7	3.3	3.3	3.7	4.1
LSD VALUE	1.3	3.3	3.6	2.1	3.3	3.0	2.3	2.3	1.6	1.6
C.V. (%)	15.7	24.0	23.4	19.6	21.7	18.4	19.1	20.6	14.7	14.0

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 6C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COLONIAL BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT LOGAN, UT 1/
2018 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	APR	MAY	JUN	QUALITY RATINGS				MEAN
						JUL	AUG	SEP	OCT	
MUSKET (PPG-AT 104)	6.0	6.0	6.0	6.3	6.3	5.3	5.3	5.0	5.3	5.7
DLFPS-AT/3026	6.0	6.7	6.0	6.3	6.0	4.7	5.0	4.7	5.0	5.4
GREENTIME	6.7	6.0	5.3	5.0	4.3	3.0	3.0	4.0	3.7	4.0
LSD VALUE	0.8	2.8	0.8	2.3	1.5	2.5	2.4	3.6	2.5	1.8
C.V. (%)	5.4	19.3	5.8	16.5	12.0	24.9	23.7	34.3	23.1	15.2

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 7A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER LOW TEMPERATURE/WINTER TOLERANCE AT FARGO, ND 1/
2018 DATA

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

NAME	DENSITY RATINGS			PERCENT GROUND COVER			QUALITY RATINGS					MEAN
	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	
SHARK	6.0	7.0	8.0	95.0	99	99	5.0	6.7	7.0	7.0	7.0	6.5
PENNCROSS	5.3	6.0	7.0	95.0	95	99	5.0	6.0	7.0	7.0	6.3	6.3
007	4.0	6.0	7.0	95.0	99	99	6.0	6.0	6.0	6.7	6.0	6.1
DLFPS-AT/3026	4.0	6.0	7.0	90.0	95	99	5.0	6.0	6.3	6.3	7.0	6.1
KINGDOM	5.0	6.0	7.0	93.3	99	99	5.0	6.0	6.7	7.0	6.0	6.1
PC2.0 (PST-0CV6)	4.0	6.0	7.0	95.0	99	99	5.0	6.0	6.7	7.0	6.0	6.1
BARRACUDA	5.0	7.0	8.0	95.0	99	99	4.0	6.0	6.0	7.0	7.0	6.0
CHINOOK (H10G-OP)	5.0	6.0	7.0	91.7	99	99	5.0	6.0	6.0	7.0	6.0	6.0
CRYSTAL BLUE LINKS	6.0	6.0	8.0	91.7	99	99	5.0	6.0	6.0	7.0	6.0	6.0
PIRANHA (DC-1)	5.0	6.0	6.0	93.3	95	99	4.0	6.0	6.0	7.0	7.0	6.0
PST-0RBS	4.0	6.0	8.0	95.0	99	99	5.0	6.0	6.0	7.0	6.0	6.0
ARMOR	5.0	6.0	6.7	83.3	99	99	5.0	6.0	6.3	6.0	6.0	5.9
L-93XD	5.0	7.0	7.0	85.0	99	99	4.0	5.3	6.0	7.0	6.3	5.7
V-8	4.0	6.0	7.0	93.3	95	99	4.0	5.7	6.0	6.7	6.0	5.7
GREENTIME	4.7	5.7	7.0	83.3	99	99	4.0	5.0	6.0	6.3	6.7	5.6
MUSKET (PPG-AT 104)	4.0	5.0	7.0	85.0	95	99	3.3	5.0	6.0	7.0	6.0	5.5
NIGHTLIFE	4.0	5.0	7.0	88.3	95	99	4.0	5.3	6.0	6.0	6.0	5.5
LSD VALUE	0.3	0.4	0.2	4.3	0	0	0.2	0.5	0.5	0.5	0.4	0.2
C.V. (%)	4.3	4.6	2.0	2.9	0	0	3.0	4.8	4.5	4.2	3.9	1.8

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 7B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER LOW TEMPERATURE/WINTER TOLERANCE AT FARGO, ND 1/
2018 DATA

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

NAME	DENSITY RATINGS			PERCENT GROUND COVER			QUALITY RATINGS					MEAN
	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	
SHARK	6.0	7	8.0	95.0	99	99	5	6.7	7.0	7.0	7.0	6.5
PENNCROSS	5.3	6	7.0	95.0	95	99	5	6.0	7.0	7.0	6.3	6.3
007	4.0	6	7.0	95.0	99	99	6	6.0	6.0	6.7	6.0	6.1
KINGDOM	5.0	6	7.0	93.3	99	99	5	6.0	6.7	7.0	6.0	6.1
PC2.0 (PST-0CV6)	4.0	6	7.0	95.0	99	99	5	6.0	6.7	7.0	6.0	6.1
BARRACUDA	5.0	7	8.0	95.0	99	99	4	6.0	6.0	7.0	7.0	6.0
CHINOOK (H10G-OP)	5.0	6	7.0	91.7	99	99	5	6.0	6.0	7.0	6.0	6.0
CRYSTAL BLUE LINKS	6.0	6	8.0	91.7	99	99	5	6.0	6.0	7.0	6.0	6.0
PIRANHA (DC-1)	5.0	6	6.0	93.3	95	99	4	6.0	6.0	7.0	7.0	6.0
PST-0RBS	4.0	6	8.0	95.0	99	99	5	6.0	6.0	7.0	6.0	6.0
ARMOR	5.0	6	6.7	83.3	99	99	5	6.0	6.3	6.0	6.0	5.9
L-93XD	5.0	7	7.0	85.0	99	99	4	5.3	6.0	7.0	6.3	5.7
V-8	4.0	6	7.0	93.3	95	99	4	5.7	6.0	6.7	6.0	5.7
NIGHTLIFE	4.0	5	7.0	88.3	95	99	4	5.3	6.0	6.0	6.0	5.5
LSD VALUE	0.2	0	0.2	4.8	0	0	0	0.6	0.5	0.4	0.4	0.1
C.V. (%)	3.2	0	2.1	3.1	0	0	0	5.3	4.4	3.3	3.6	1.6

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 7C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COLONIAL BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER LOW TEMPERATURE/WINTER TOLERANCE AT FARGO, ND 1/
2018 DATA

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

NAME	DENSITY RATINGS			PERCENT GROUND COVER			QUALITY RATINGS					MEAN
	SPRING	SUMMER	FALL	SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	
DLFPS-AT/3026	4.0	6.0	7	90.0	95	99	5.0	6	6.3	6.3	7.0	6.1
GREENTIME	4.7	5.7	7	83.3	99	99	4.0	5	6.0	6.3	6.7	5.6
MUSKET (PPG-AT 104)	4.0	5.0	7	85.0	95	99	3.3	5	6.0	7.0	6.0	5.5
LSD VALUE	0.8	1.5	0	3.9	0	0	0.8	0	0.8	1.2	0.8	0.4
C.V. (%)	7.9	12.0	0	1.9	0	0	8.1	0	5.5	8.0	5.1	2.8

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

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

TABLE 8A.

GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	IA1	IL1	MI1	NJ1	MEAN
BARRACUDA	8.3	7.7	7.0	7.3	7.6
007	8.3	7.3	7.3	7.0	7.5
CHINOOK (H10G-OP)	7.3	7.7	6.7	8.0	7.4
NIGHTLIFE	8.0	7.7	8.0	5.5	7.3
PIRANHA (DC-1)	7.7	7.0	6.7	7.7	7.3
V-8	8.0	7.0	7.0	6.7	7.2
SHARK	7.7	7.3	7.0	6.0	7.0
L-93XD	7.0	7.3	6.3	7.3	7.0
CRYSTAL BLUE LINKS	6.7	7.7	7.0	6.3	6.9
KINGDOM	7.3	7.3	7.3	5.3	6.8
PST-0RBS	8.0	7.7	7.0	4.5	6.8
PENNCROSS	6.7	7.3	7.3	5.0	6.6
ARMOR	6.7	7.0	7.3	5.0	6.5
PC2.0 (PST-0CV6)	7.3	7.0	7.0	4.7	6.5
DLFPS-AT/3026	6.3	6.0	6.3	6.7	6.3
GREENTIME	7.3	6.7	7.0	4.3	6.3
MUSKET (PPG-AT 104)	6.7	6.0	6.3	5.7	6.2
LSD VALUE	1.1	0.7	0.7	1.5	0.5
C.V. (%)	9.5	6.5	6.0	14.3	9.1

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 8B.

GENETIC COLOR RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	IA1	IL1	MI1	NJ1	MEAN
BARRACUDA	8.3	7.7	7.0	7.3	7.6
007	8.3	7.3	7.3	7.0	7.5
CHINOOK (H10G-OP)	7.3	7.7	6.7	8.0	7.4
NIGHTLIFE	8.0	7.7	8.0	5.5	7.3
PIRANHA (DC-1)	7.7	7.0	6.7	7.7	7.3
V-8	8.0	7.0	7.0	6.7	7.2
SHARK	7.7	7.3	7.0	6.0	7.0
L-93XD	7.0	7.3	6.3	7.3	7.0
CRYSTAL BLUE LINKS	6.7	7.7	7.0	6.3	6.9
KINGDOM	7.3	7.3	7.3	5.3	6.8
PST-ORBS	8.0	7.7	7.0	4.5	6.8
PENNCROSS	6.7	7.3	7.3	5.0	6.6
ARMOR	6.7	7.0	7.3	5.0	6.5
PC2.0 (PST-0CV6)	7.3	7.0	7.0	4.7	6.5
LSD VALUE	1.1	0.8	0.7	1.4	0.5
C.V. (%)	9.0	6.6	5.8	12.5	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 8C.

GENETIC COLOR RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	IA1	IL1	MI1	NJ1	MEAN
DLFPS-AT/3026	6.3	6.0	6.3	6.7	6.3
GREENTIME	7.3	6.7	7.0	4.3	6.3
MUSKET (PPG-AT 104)	6.7	6.0	6.3	5.7	6.2
LSD VALUE	1.3	0.5	0.8	1.9	0.6
C.V. (%)	12.0	5.4	7.2	20.8	12.2

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 9A.

SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	IL1	MI1	NJ1	MEAN
CHINOOK (H10G-OP)	7.0	4.0	6.7	5.9
CRYSTAL BLUE LINKS	7.0	5.0	5.7	5.9
007	6.7	4.0	6.3	5.7
BARRACUDA	6.3	4.3	6.3	5.7
PC2.0 (PST-0CV6)	6.3	5.7	5.0	5.7
PIRANHA (DC-1)	6.3	2.7	7.3	5.4
SHARK	6.0	3.3	6.7	5.3
DLFPS-AT/3026	7.0	5.3	3.3	5.2
PENNCROSS	6.3	3.7	5.0	5.0
V-8	6.0	4.3	4.7	5.0
PST-0RBS	6.3	3.7	4.5	4.8
MUSKET (PPG-AT 104)	6.3	5.0	3.0	4.8
L-93XD	6.0	2.7	5.3	4.7
GREENTIME	6.7	4.0	2.7	4.4
ARMOR	6.7	3.3	3.0	4.3
KINGDOM	6.7	4.0	2.0	4.2
NIGHTLIFE	6.3	3.3	2.5	4.1
LSD VALUE	0.7	1.6	1.5	0.8
C.V. (%)	7.2	24.6	18.4	15.8

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 9B.

SPRING GREENUP RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	IL1	MI1	NJ1	MEAN
CHINOOK (H10G-OP)	7.0	4.0	6.7	5.9
CRYSTAL BLUE LINKS	7.0	5.0	5.7	5.9
007	6.7	4.0	6.3	5.7
BARRACUDA	6.3	4.3	6.3	5.7
PC2.0 (PST-0CV6)	6.3	5.7	5.0	5.7
PIRANHA (DC-1)	6.3	2.7	7.3	5.4
SHARK	6.0	3.3	6.7	5.3
PENNCROSS	6.3	3.7	5.0	5.0
V-8	6.0	4.3	4.7	5.0
PST-0RBS	6.3	3.7	4.5	4.8
L-93XD	6.0	2.7	5.3	4.7
ARMOR	6.7	3.3	3.0	4.3
KINGDOM	6.7	4.0	2.0	4.2
NIGHTLIFE	6.3	3.3	2.5	4.1
LSD VALUE	0.7	1.6	1.5	0.8
C.V. (%)	7.2	26.2	16.6	15.7

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 9C.

SPRING GREENUP RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	IL1	MI1	NJ1	MEAN
DLFPS-AT/3026	7.0	5.3	3.3	5.2
MUSKET (PPG-AT 104)	6.3	5.0	3.0	4.8
GREENTIME	6.7	4.0	2.7	4.4
LSD VALUE	0.8	1.4	1.5	0.7
C.V. (%)	7.1	18.5	31.4	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 10A.

LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	NJ1
MUSKET (PPG-AT 104)	8.0
DLFPS-AT/3026	7.7
CHINOOK (H10G-OP)	7.3
L-93XD	7.3
PIRANHA (DC-1)	7.3
V-8	7.0
007	6.7
BARRACUDA	6.3
GREENTIME	6.3
SHARK	5.7
KINGDOM	5.0
ARMOR	4.5
NIGHTLIFE	4.5
CRYSTAL BLUE LINKS	4.3
PC2.0 (PST-0CV6)	4.3
PST-0RBS	4.0
PENNCROSS	3.0
LSD VALUE	1.3
C.V. (%)	12.6

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 10B. LEAF TEXTURE RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	NJ1
CHINOOK (H10G-OP)	7.3
L-93XD	7.3
PIRANHA (DC-1)	7.3
V-8	7.0
007	6.7
BARRACUDA	6.3
SHARK	5.7
KINGDOM	5.0
ARMOR	4.5
NIGHTLIFE	4.5
CRYSTAL BLUE LINKS	4.3
PC2.0 (PST-0CV6)	4.3
PST-0RBS	4.0
PENNCROSS	3.0
LSD VALUE	1.4
C.V. (%)	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 10C. LEAF TEXTURE RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	NJ1
MUSKET (PPG-AT 104)	8.0
DLFPS-AT/3026	7.7
GREENTIME	6.3
LSD VALUE	0.8
C.V. (%)	6.4

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 11A.

FALL DENSITY RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	NJ1
CHINOOK (H10G-OP)	7.7
L-93XD	7.7
BARRACUDA	7.0
MUSKET (PPG-AT 104)	7.0
PIRANHA (DC-1)	7.0
007	6.7
V-8	6.7
DLFPS-AT/3026	6.3
CRYSTAL BLUE LINKS	5.0
GREENTIME	4.7
KINGDOM	4.7
SHARK	4.7
PC2.0 (PST-0CV6)	3.7
ARMOR	3.5
NIGHTLIFE	3.5
PST-0RBS	3.5
PENNCROSS	2.0
LSD VALUE	1.4
C.V. (%)	15.3

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

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

TABLE 11B.

FALL DENSITY RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	NJ1
CHINOOK (H10G-OP)	7.7
L-93XD	7.7
BARRACUDA	7.0
PIRANHA (DC-1)	7.0
007	6.7
V-8	6.7
CRYSTAL BLUE LINKS	5.0
KINGDOM	4.7
SHARK	4.7
PC2.0 (PST-0CV6)	3.7
ARMOR	3.5
NIGHTLIFE	3.5
PST-0RBS	3.5
PENNCROSS	2.0
LSD VALUE	1.5
C.V. (%)	16.0

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 11C.

FALL DENSITY RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	NJ1
MUSKET (PPG-AT 104)	7.0
DLFPS-AT/3026	6.3
GREENTIME	4.7
LSD VALUE	1.2
C.V. (%)	12.4

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 12A. PERCENT LIVING GROUND COVER (FALL) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	NJ1
DLFPS-AT/3026	93.3
PIRANHA (DC-1)	93.3
BARRACUDA	91.7
CHINOOK (H10G-OP)	90.0
MUSKET (PPG-AT 104)	90.0
L-93XD	88.3
V-8	88.3
SHARK	81.7
007	80.0
NIGHTLIFE	70.0
CRYSTAL BLUE LINKS	63.3
KINGDOM	61.7
ARMOR	60.0
PC2.0 (PST-0CV6)	60.0
PST-0RBS	60.0
GREENTIME	56.7
PENNCROSS	50.0
LSD VALUE	15.6
C.V. (%)	11.7

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 12B. PERCENT LIVING GROUND COVER (FALL) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	NJ1
PIRANHA (DC-1)	93.3
BARRACUDA	91.7
CHINOOK (H10G-OP)	90.0
L-93XD	88.3
V-8	88.3
SHARK	81.7
007	80.0
NIGHTLIFE	70.0
CRYSTAL BLUE LINKS	63.3
KINGDOM	61.7
ARMOR	60.0
PC2.0 (PST-0CV6)	60.0
PST-0RBS	60.0
PENNCROSS	50.0
LSD VALUE	16.4
C.V. (%)	12.3

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 12C. PERCENT LIVING GROUND COVER (FALL) RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	NJ1
DLFPS-AT/3026	93.3
MUSKET (PPG-AT 104)	90.0
GREENTIME	56.7
LSD VALUE	12.0
C.V. (%)	9.3

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

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

TABLE 13A.

DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	IA1	MD1	NJ1	MEAN
DLFPS-AT/3026	8.3	8.3	8.0	8.2
CHINOOK (H10G-OP)	8.3	8.0	7.3	7.9
L-93XD	8.7	7.7	7.3	7.9
PIRANHA (DC-1)	9.0	7.3	7.0	7.8
007	9.0	6.7	7.3	7.7
V-8	8.3	7.3	7.0	7.6
MUSKET (PPG-AT 104)	9.0	8.7	5.0	7.6
BARRACUDA	8.7	7.0	5.7	7.1
CRYSTAL BLUE LINKS	8.0	6.7	6.0	6.9
GREENTIME	9.0	7.0	4.3	6.8
NIGHTLIFE	8.0	5.0	5.0	6.0
SHARK	8.3	6.3	2.7	5.8
KINGDOM	6.3	5.0	4.3	5.2
PC2.0 (PST-0CV6)	7.7	5.0	2.7	5.1
PST-0RBS	7.7	5.3	2.0	5.0
PENNCROSS	7.0	3.3	4.0	4.8
ARMOR	5.7	3.3	1.5	3.5
LSD VALUE	1.7	1.5	2.2	1.0
C.V. (%)	13.2	14.6	24.5	16.6

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 13B. DOLLAR SPOT RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

NAME	DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/			
	IA1	MD1	NJ1	MEAN
CHINOOK (H10G-OP)	8.3	8.0	7.3	7.9
L-93XD	8.7	7.7	7.3	7.9
PIRANHA (DC-1)	9.0	7.3	7.0	7.8
007	9.0	6.7	7.3	7.7
V-8	8.3	7.3	7.0	7.6
BARRACUDA	8.7	7.0	5.7	7.1
CRYSTAL BLUE LINKS	8.0	6.7	6.0	6.9
NIGHTLIFE	8.0	5.0	5.0	6.0
SHARK	8.3	6.3	2.7	5.8
KINGDOM	6.3	5.0	4.3	5.2
PC2.0 (PST-0CV6)	7.7	5.0	2.7	5.1
PST-0RBS	7.7	5.3	2.0	5.0
PENNCROSS	7.0	3.3	4.0	4.8
ARMOR	5.7	3.3	1.5	3.5
LSD VALUE	1.8	1.6	2.2	1.1
C.V. (%)	14.3	16.7	24.1	17.6

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 13C. DOLLAR SPOT RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

NAME	DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/			
	IA1	MD1	NJ1	MEAN
DLFPS-AT/3026	8.3	8.3	8.0	8.2
MUSKET (PPG-AT 104)	9.0	8.7	5.0	7.6
GREENTIME	9.0	7.0	4.3	6.8
LSD VALUE	1.1	0.8	2.3	0.9
C.V. (%)	7.6	5.9	25.1	12.8

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 14A.

BROWN PATCH (WARM TEMPERATURE) RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A FAIRWAY OR TEE
 2018 DATA

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

NAME	MD1	NJ1	MEAN
007	9.0	9.0	9.0
BARRACUDA	9.0	9.0	9.0
CHINOOK (H10G-OP)	9.0	9.0	9.0
L-93XD	9.0	9.0	9.0
PIRANHA (DC-1)	9.0	9.0	9.0
SHARK	9.0	9.0	9.0
PST-0RBS	8.7	8.5	8.6
ARMOR	8.0	9.0	8.5
PENNCROSS	9.0	8.0	8.5
V-8	8.3	8.7	8.5
CRYSTAL BLUE LINKS	8.3	8.3	8.3
PC2.0 (PST-0CV6)	7.7	8.7	8.2
KINGDOM	7.0	8.3	7.7
MUSKET (PPG-AT 104)	7.7	7.7	7.7
NIGHTLIFE	6.3	9.0	7.7
DLFPS-AT/3026	7.3	5.0	6.2
GREENTIME	6.0	5.3	5.7
LSD VALUE	1.5	1.6	1.1
C.V. (%)	11.7	11.1	11.4

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 14B. BROWN PATCH (WARM TEMPERATURE) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	MD1	NJ1	MEAN
007	9.0	9.0	9.0
BARRACUDA	9.0	9.0	9.0
CHINOOK (H10G-OP)	9.0	9.0	9.0
L-93XD	9.0	9.0	9.0
PIRANHA (DC-1)	9.0	9.0	9.0
SHARK	9.0	9.0	9.0
PST-0RBS	8.7	8.5	8.6
ARMOR	8.0	9.0	8.5
PENNCROSS	9.0	8.0	8.5
V-8	8.3	8.7	8.5
CRYSTAL BLUE LINKS	8.3	8.3	8.3
PC2.0 (PST-0CV6)	7.7	8.7	8.2
KINGDOM	7.0	8.3	7.7
NIGHTLIFE	6.3	9.0	7.7
LSD VALUE	1.3	0.9	0.8
C.V. (%)	9.9	5.4	8.1

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 14C. BROWN PATCH (WARM TEMPERATURE) RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	MD1	NJ1	MEAN
MUSKET (PPG-AT 104)	7.7	7.7	7.7
DLFPS-AT/3026	7.3	5.0	6.2
GREENTIME	6.0	5.3	5.7
LSD VALUE	2.2	2.9	1.8
C.V. (%)	19.6	29.9	24.6

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 15A.

FALL COLOR (OCTOBER) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	MI1
PIRANHA (DC-1)	8.3
SHARK	8.3
007	8.0
BARRACUDA	8.0
MUSKET (PPG-AT 104)	8.0
PC2.0 (PST-0CV6)	8.0
PST-0RBS	8.0
ARMOR	7.7
CHINOOK (H10G-OP)	7.7
CRYSTAL BLUE LINKS	7.7
DLFPS-AT/3026	7.7
GREENTIME	7.7
PENNCROSS	7.7
V-8	7.7
KINGDOM	7.3
L-93XD	7.3
NIGHTLIFE	7.0
LSD VALUE	1.1
C.V. (%)	8.6

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 15B. FALL COLOR (OCTOBER) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	MI1
PIRANHA (DC-1)	8.3
SHARK	8.3
007	8.0
BARRACUDA	8.0
PC2.0 (PST-0CV6)	8.0
PST-0RBS	8.0
ARMOR	7.7
CHINOOK (H10G-OP)	7.7
CRYSTAL BLUE LINKS	7.7
PENNCROSS	7.7
V-8	7.7
KINGDOM	7.3
L-93XD	7.3
NIGHTLIFE	7.0
LSD VALUE	1.1
C.V. (%)	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 15C. FALL COLOR (OCTOBER) RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	MI1
MUSKET (PPG-AT 104)	8.0
DLFPS-AT/3026	7.7
GREENTIME	7.7
LSD VALUE	1.2
C.V. (%)	9.6

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

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

TABLE 16A.

FALL COLOR (NOVEMBER) RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A FAIRWAY OR TEE
 2018 DATA

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

NAME	IL1
BARRACUDA	7.7
DLFPS-AT/3026	7.7
GREENTIME	7.7
NIGHTLIFE	7.7
PENNCROSS	7.7
SHARK	7.7
007	7.3
CHINOOK (H10G-OP)	7.3
CRYSTAL BLUE LINKS	7.3
KINGDOM	7.3
PST-0RBS	7.3
ARMOR	7.0
L-93XD	7.0
MUSKET (PPG-AT 104)	7.0
PC2.0 (PST-0CV6)	7.0
PIRANHA (DC-1)	7.0
V-8	7.0
LSD VALUE	0.7
C.V. (%)	6.3

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 16B. FALL COLOR (NOVEMBER) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	IL1
BARRACUDA	7.7
NIGHTLIFE	7.7
PENNCROSS	7.7
SHARK	7.7
007	7.3
CHINOOK (H10G-OP)	7.3
CRYSTAL BLUE LINKS	7.3
KINGDOM	7.3
PST-0RBS	7.3
ARMOR	7.0
L-93XD	7.0
PC2.0 (PST-0CV6)	7.0
PIRANHA (DC-1)	7.0
V-8	7.0
LSD VALUE	0.7
C.V. (%)	6.3

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 16C. FALL COLOR (NOVEMBER) RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2018 DATA

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

NAME	IL1
DLFPS-AT/3026	7.7
GREENTIME	7.7
MUSKET (PPG-AT 104)	7.0
LSD VALUE	0.8
C.V. (%)	6.3

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 17A.

PERCENT CRABGRASS (AUGUST) RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A FAIRWAY OR TEE 2/
 2018 DATA

NAME	MD1
GREENTIME	41.7
PENNCROSS	36.7
DLFPS-AT/3026	13.7
PST-0RBS	12.7
PC2.0 (PST-0CV6)	12.0
ARMOR	11.3
KINGDOM	10.7
CRYSTAL BLUE LINKS	8.0
NIGHTLIFE	6.3
CHINOOK (H10G-OP)	4.3
MUSKET (PPG-AT 104)	4.0
V-8	3.7
007	3.0
SHARK	3.0
BARRACUDA	2.7
L-93XD	2.0
PIRANHA (DC-1)	1.7
LSD VALUE	6.1
C.V. (%)	36.1

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 17B. PERCENT CRABGRASS (AUGUST) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE 2/
2018 DATA

NAME	MD1
PENNCROSS	36.7
PST-0RBS	12.7
PC2.0 (PST-0CV6)	12.0
ARMOR	11.3
KINGDOM	10.7
CRYSTAL BLUE LINKS	8.0
NIGHTLIFE	6.3
CHINOOK (H10G-OP)	4.3
V-8	3.7
007	3.0
SHARK	3.0
BARRACUDA	2.7
L-93XD	2.0
PIRANHA (DC-1)	1.7
LSD VALUE	4.7
C.V. (%)	35.0

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 17C. PERCENT CRABGRASS (AUGUST) RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE 2/
2018 DATA

NAME	MD1
GREENTIME	41.7
DLFPS-AT/3026	13.7
MUSKET (PPG-AT 104)	4.0
LSD VALUE	10.2
C.V. (%)	31.9

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 18A.

DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE AT NORTH BRUNSWICK, NJ 1/
2018 DATA

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

NAME	JULY	AUGUST	MEAN
007	7.3	7.7	7.5
ARMOR	1.5	1.5	1.5
BARRACUDA	5.7	6.3	6.0
CHINOOK (H10G-OP)	7.3	8.0	7.7
CRYSTAL BLUE LINKS	6.0	4.0	5.0
DLFPS-AT/3026	8.0	9.0	8.5
GREENTIME	4.3	8.0	6.2
KINGDOM	4.3	4.0	4.2
L-93XD	7.3	7.0	7.2
MUSKET (PPG-AT 104)	5.0	9.0	7.0
NIGHTLIFE	5.0	3.0	4.0
PC2.0 (PST-0CV6)	2.7	4.3	3.5
PENNCROSS	4.0	5.0	4.5
PIRANHA (DC-1)	7.0	5.7	6.3
PST-ORBS	2.0	4.5	3.3
SHARK	2.7	3.0	2.8
V-8	7.0	6.7	6.8
LSD VALUE	2.3	1.5	1.5
C.V. (%)	24.4	14.7	15.2

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 18B.

DOLLAR SPOT RATINGS OF CREEPING BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE AT NORTH BRUNSWICK, NJ 1/
2018 DATA

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

NAME	JULY	AUGUST	MEAN
007	7.3	7.7	7.5
ARMOR	1.5	1.5	1.5
BARRACUDA	5.7	6.3	6.0
CHINOOK (H10G-OP)	7.3	8.0	7.7
CRYSTAL BLUE LINKS	6.0	4.0	5.0
KINGDOM	4.3	4.0	4.2
L-93XD	7.3	7.0	7.2
NIGHTLIFE	5.0	3.0	4.0
PC2.0 (PST-0CV6)	2.7	4.3	3.5
PENNCROSS	4.0	5.0	4.5
PIRANHA (DC-1)	7.0	5.7	6.3
PST-0RBS	2.0	4.5	3.3
SHARK	2.7	3.0	2.8
V-8	7.0	6.7	6.8
LSD VALUE	2.3	1.7	1.6
C.V. (%)	24.0	18.6	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 18C.

DOLLAR SPOT RATINGS OF COLONIAL BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE AT NORTH BRUNSWICK, NJ 1/
2018 DATA

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

NAME	JULY	AUGUST	MEAN
DLFPS-AT/3026	8.0	9	8.5
GREENTIME	4.3	8	6.2
MUSKET (PPG-AT 104)	5.0	9	7.0
LSD VALUE	4.1	0	2.0
C.V. (%)	30.5	0	12.2

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.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE
2018 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	QUALITY	
	MEAN 1/	MAXIMUM IN TOP 25% 2/
007	6.3	37.5
ARMOR	5.5	12.5
BARRACUDA	6.2	37.5
CHINOOK (H10G-OP)	6.3	25.0
CRYSTAL BLUE LINKS	6.0	25.0
DLFPS-AT/3026	6.1	37.5
GREENTIME	5.4	12.5
KINGDOM	5.6	12.5
L-93XD	6.1	12.5
MUSKET (PPG-AT 104)	5.8	12.5
NIGHTLIFE	5.9	12.5
PC2.0 (PST-0CV6)	5.8	12.5
PENNCROSS	5.5	12.5
PIRANHA (DC-1)	6.3	62.5
PST-ORBS	5.7	12.5
SHARK	6.0	12.5
V-8	6.3	50.0
LSD VALUE	0.3	
C.V. (%)	9.7	

*/ 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 VALUE 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.