

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 2016

State	Location	Code
California	Riverside (Reduced Irrigation)	CA3
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
Washington	Pullman	WA1

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-ORBS	Creeping	Pure Seed Testing Inc
17	PST-OCV6	Creeping	Tee-2-Green

* Commercially Available in the USA in 2017

TABLE A. 2016 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN THE 2014 NATIONAL BENTGRASS (FAIRWAY/TEE) 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	2.1-3.0	FULL SUN	0.0-0.5	ONLY DURING SEVERE STRESS
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	SILT LOAM AND SILT	7.1-7.5	61-150	151-240	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
KS1	-	-	-	-	-	-	-	-
KY1	SILT LOAM AND SILT	4.6-5.5	451+	151-240	1.1-2.0	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	5.6-6.0	271-450	241-375	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
UT1	-	-	-	-	-	-	-	-
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
WA1	SILT LOAM AND SILT	5.6-6.0	451+	501+	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2016

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		
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
KS1					X	X	X	X	X				X		
KY1			X	X	X	X	X	X	X	X					
MA1				X	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			X		
MO1			X	X	X	X	X	X	X	X			X		
ND1					X	X	X	X	X						
NJ1			X	X	X	X			X	X			X	X	X
UT1				X	X	X	X	X	X	X				X	
VA2			X		X	X	X	X	X	X					
WA1				X	X	X	X	X	X	X			X	X	

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2016

LOCATION	SPRING DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	DOLLAR SPOT	BROWN PATCH WARM	FALL COLOR TEMP.	DIVOT RECOVERY OCTOBER	SURFACE SMOOTHNESS	WEAR MAY	TOLERANCE JUL	SEPT	DOLLAR JUL	SPOT AUG	SEPT	OCT
CA3																	
IA1																	
IL1																	
IN1	X								X	X							
KS1						X											
KY1								X									
MA1											X	X	X				
MD1							X										
MI1						X								X	X	X	X
MO1						X	X										
ND1	X		X	X	X												
NJ1		X															
UT1																	
* VA2																	
WA1																	

* MORE TRAFFIC DATA FOR VA2 IN TABLE 7

TABLE 1A. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2016 DATA

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

NAME	# ENTRY	NJ1	MD1	IA1	MO1	KS1	MEAN
* PIRANHA (DC-1)	11	8.0	6.8	7.0	5.9	6.6	6.9
* L-93XD	6	7.7	6.6	6.6	5.9	6.4	6.6
* CHINOOK (H10G-OP)	13	7.3	6.6	6.7	5.9	6.6	6.6
* BARRACUDA	15	7.1	6.4	6.7	5.7	6.5	6.5
* 007	2	7.1	6.4	6.6	5.6	6.4	6.4
* V-8	10	6.7	6.2	6.6	5.4	6.4	6.3
* SHARK	14	6.6	6.1	6.6	5.3	6.4	6.2
DLFPS-AT/3026	1	5.9	5.9	5.7	5.4	6.1	5.8
* NIGHTLIFE	9	5.5	5.6	6.6	4.6	6.3	5.7
* CRYSTAL BLUE LINKS	4	5.4	5.6	6.4	4.8	6.3	5.7
* MUSKET (PPG-AT 104)	12	5.5	5.6	5.6	5.1	6.0	5.6
PST-ORBS	16	5.3	5.4	6.3	4.5	6.2	5.5
PST-OCV6	17	5.1	5.4	6.4	4.5	6.2	5.5
* KINGDOM	8	4.6	5.2	6.6	4.3	6.4	5.4
* ARMOR	7	4.1	4.9	6.5	3.9	6.3	5.1
* GREENTIME	5	3.9	4.6	5.3	4.0	5.6	4.7
* PENNCROSS	3	2.6	3.9	5.1	3.3	5.5	4.1
LSD VALUE		0.8	0.8	0.8	0.8	0.8	0.8
C.V. (%)		8.5	8.6	7.8	10.0	7.9	8.5

*/ COMMERCIALLY AVAILABLE IN THE USA IN 2017

**/ 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 */
2016 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NJ1	MD1	IA1	MO1	KS1	MEAN
PIRANHA (DC-1)	8.0	6.8	7.0	5.9	6.6	6.9
L-93XD	7.7	6.6	6.6	5.9	6.4	6.6
CHINOOK (H10G-OP)	7.3	6.6	6.7	5.9	6.6	6.6
BARRACUDA	7.1	6.4	6.7	5.7	6.5	6.5
007	7.1	6.4	6.6	5.6	6.4	6.4
V-8	6.7	6.2	6.6	5.4	6.4	6.3
SHARK	6.6	6.1	6.6	5.3	6.4	6.2
NIGHTLIFE	5.5	5.6	6.6	4.6	6.3	5.7
CRYSTAL BLUE LINKS	5.4	5.6	6.4	4.8	6.3	5.7
PST-ORBS	5.3	5.4	6.3	4.5	6.2	5.5
PST-OCV6	5.1	5.4	6.4	4.5	6.2	5.5
KINGDOM	4.6	5.2	6.6	4.3	6.4	5.4
ARMOR	4.1	4.9	6.5	3.9	6.3	5.1
PENNCROSS	2.6	3.9	5.1	3.3	5.5	4.1
LSD VALUE	0.8	0.8	0.8	0.8	0.8	0.8
C.V. (%)	8.3	8.5	7.6	9.9	7.8	8.3

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 */
2016 DATA
TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/

NAME	NJ1	MD1	IA1	MO1	KS1	MEAN
DLFPS-AT/3026	5.9	5.9	5.7	5.4	6.1	5.8
MUSKET (PPG-AT 104)	5.5	5.6	5.6	5.1	6.0	5.6
GREENTIME	3.9	4.6	5.3	4.0	5.6	4.7
LSD VALUE	0.8	0.8	0.8	0.8	0.8	0.8
C.V. (%)	9.6	9.2	8.9	10.2	8.4	9.2

- */ 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 */
2016 DATA

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

NAME	MI1
DLFPS-AT/3026	6.3
MUSKET (PPG-AT 104)	5.9
CHINOOK (H10G-OP)	5.7
BARRACUDA	5.5
L-93XD	5.4
V-8	5.4
CRYSTAL BLUE LINKS	5.2
GREENTIME	5.2
SHARK	5.2
007	5.2
PIRANHA (DC-1)	5.1
PST-OCV6	4.9
PENNCROSS	4.8
PST-ORBS	4.8
KINGDOM	4.7
NIGHTLIFE	4.6
ARMOR	4.5
LSD VALUE	0.8
C.V. (%)	9.5

*/ 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 */
2016 DATA

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

NAME	MI1
CHINOOK (H10G-OP)	5.7
BARRACUDA	5.5
L-93XD	5.4
V-8	5.4
CRYSTAL BLUE LINKS	5.2
SHARK	5.2
007	5.2
PIRANHA (DC-1)	5.1
PST-OCV6	4.9
PENNCROSS	4.8
PST-ORBS	4.8
KINGDOM	4.7
NIGHTLIFE	4.6
ARMOR	4.5
LSD VALUE	0.8
C.V. (%)	9.7

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 */
2016 DATA

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

NAME	MI1
DLFPS-AT/3026	6.3
MUSKET (PPG-AT 104)	5.9
GREENTIME	5.2
LSD VALUE	0.8
C.V. (%)	8.5

- */ 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 RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2016 DATA

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

NAME	IL1
KINGDOM	7.8
ARMOR	7.8
CHINOOK (H10G-OP)	7.6
PIRANHA (DC-1)	7.6
NIGHTLIFE	7.6
BARRACUDA	7.6
CRYSTAL BLUE LINKS	7.6
V-8	7.6
PST-OCV6	7.6
SHARK	7.5
PST-ORBS	7.5
007	7.5
L-93XD	7.4
DLFPS-AT/3026	7.1
MUSKET (PPG-AT 104)	7.1
PENNCROSS	7.0
GREENTIME	6.9
LSD VALUE	0.8
C.V. (%)	6.6

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

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

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

TABLE 3B. MEAN TURFGRASS QUALITY RATINGS OF CREEPING BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2016 DATA

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

NAME	IL1
KINGDOM	7.8
ARMOR	7.8
CHINOOK (H10G-OP)	7.6
PIRANHA (DC-1)	7.6
NIGHTLIFE	7.6
BARRACUDA	7.6
CRYSTAL BLUE LINKS	7.6
V-8	7.6
PST-OCV6	7.6
SHARK	7.5
PST-ORBS	7.5
007	7.5
L-93XD	7.4
PENNCROSS	7.0
LSD VALUE	0.8
C.V. (%)	6.5

TABLE 3C. MEAN TURFGRASS QUALITY RATINGS OF COLONIAL BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2016 DATA

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

NAME	IL1
DLFPS-AT/3026	7.1
MUSKET (PPG-AT 104)	7.1
GREENTIME	6.9
LSD VALUE	0.8
C.V. (%)	7.0

- */ 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 4A. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 4 */
2016 DATA

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

NAME	KY1
PENNCROSS	6.6
DLFPS-AT/3026	6.5
KINGDOM	6.5
ARMOR	6.4
CRYSTAL BLUE LINKS	6.4
MUSKET (PPG-AT 104)	6.4
GREENTIME	6.4
PST-OCV6	6.3
CHINOOK (H10G-OP)	6.2
PST-ORBS	6.1
V-8	6.1
BARRACUDA	6.1
NIGHTLIFE	6.0
SHARK	6.0
007	5.8
L-93XD	5.7
PIRANHA (DC-1)	5.6
LSD VALUE	0.8
C.V. (%)	8.0

*/ 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 4B. MEAN TURFGRASS QUALITY RATINGS OF CREEPING BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 4 */
2016 DATA

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

NAME	KY1
PENNCROSS	6.6
KINGDOM	6.5
ARMOR	6.4
CRYSTAL BLUE LINKS	6.4
PST-OCV6	6.3
CHINOOK (H10G-OP)	6.2
PST-ORBS	6.1
V-8	6.1
BARRACUDA	6.1
NIGHTLIFE	6.0
SHARK	6.0
007	5.8
L-93XD	5.7
PIRANHA (DC-1)	5.6
LSD VALUE	0.8
C.V. (%)	8.0

TABLE 4C. MEAN TURFGRASS QUALITY RATINGS OF COLONIAL BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 4 */
2016 DATA

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

NAME	KY1
DLFPS-AT/3026	6.5
MUSKET (PPG-AT 104)	6.4
GREENTIME	6.4
LSD VALUE	0.8
C.V. (%)	7.7

- */ 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 5A. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 5 */
2016 DATA

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

NAME	WA1
ARMOR	7.1
KINGDOM	7.1
NIGHTLIFE	6.9
PIRANHA (DC-1)	6.8
PST-OCV6	6.5
PST-ORBS	6.5
SHARK	6.4
007	6.4
CRYSTAL BLUE LINKS	6.3
V-8	6.3
BARRACUDA	6.3
CHINOOK (H10G-OP)	6.2
L-93XD	6.1
PENNCROSS	5.2
GREENTIME	4.9
MUSKET (PPG-AT 104)	4.8
DLFPS-AT/3026	4.6
LSD VALUE	0.8
C.V. (%)	8.0

*/ 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 5B. MEAN TURFGRASS QUALITY RATINGS OF CREEPING BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 5 */
2016 DATA

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

NAME	WA1
ARMOR	7.1
KINGDOM	7.1
NIGHTLIFE	6.9
PIRANHA (DC-1)	6.8
PST-OCV6	6.5
PST-ORBS	6.5
SHARK	6.4
007	6.4
CRYSTAL BLUE LINKS	6.3
V-8	6.3
BARRACUDA	6.3
CHINOOK (H10G-OP)	6.2
L-93XD	6.1
PENNCROSS	5.2
LSD VALUE	0.8
C.V. (%)	7.7

TABLE 5C. MEAN TURFGRASS QUALITY RATINGS OF COLONIAL BENTGRASS CULTIVARS GROWN ON 1/
A FAIRWAY OR TEE GROWN IN LOCATION PERFORMANCE INDEX (LPI) GROUP 5 */
2016 DATA

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

NAME	WA1
GREENTIME	4.9
MUSKET (PPG-AT 104)	4.8
DLFPS-AT/3026	4.6
LSD VALUE	0.8
C.V. (%)	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 6A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2016 DATA

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

NAME	SPRING GREENUP	WEAR TOLERANCE RATINGS			QUALITY RATINGS									MEAN
		MAY	JULY	SEPTEMBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PIRANHA (DC-1)	6.3	6.7	6.3	6.3	5.7	6.3	6.7	7.0	7.0	7.0	7.0	6.0	6.0	6.5
DLFPS-AT/3026	6.7	3.3	3.3	4.7	6.0	7.0	6.0	5.0	7.0	6.3	6.3	6.3	6.7	6.3
KINGDOM	4.0	7.3	7.0	7.0	5.7	6.0	6.7	6.3	6.7	6.7	6.3	5.0	5.0	6.0
L-93XD	5.7	5.3	5.0	5.7	5.3	6.0	6.0	6.3	7.0	6.7	6.0	5.0	5.7	6.0
NIGHTLIFE	5.3	7.3	6.7	6.7	5.7	5.7	6.7	6.0	6.7	6.7	6.3	5.3	5.0	6.0
CHINOOK (H10G-OP)	6.3	5.7	5.3	5.7	5.0	6.0	5.7	6.0	6.0	6.3	6.0	6.0	6.0	5.9
MUSKET (PPG-AT 104)	5.3	3.7	4.3	5.7	5.7	7.0	5.0	5.0	6.3	5.3	5.7	6.0	5.7	5.7
SHARK	5.3	6.3	5.0	5.0	4.3	6.3	6.0	6.0	6.7	6.7	5.7	5.0	5.0	5.7
007	6.7	6.0	5.3	6.0	5.7	5.7	5.0	5.3	6.0	6.0	6.3	5.3	5.0	5.6
ARMOR	4.7	6.3	6.3	6.3	5.3	6.0	6.3	5.7	6.3	6.0	5.3	5.0	4.3	5.6
PST-OCV6	5.7	5.7	5.7	5.3	4.3	5.7	6.3	6.3	6.3	6.0	5.0	5.0	5.7	5.6
BARRACUDA	6.3	6.0	5.0	4.7	5.0	6.3	5.3	5.0	6.0	5.7	5.3	5.0	5.3	5.4
PST-ORBS	5.3	5.3	6.0	6.0	4.7	6.0	6.0	5.3	6.0	6.0	5.0	5.0	4.7	5.4
V-8	5.0	5.3	5.3	5.3	4.7	6.3	5.3	5.3	6.0	5.7	5.0	4.7	4.7	5.3
GREENTIME	4.7	3.3	3.3	4.3	5.0	5.0	5.3	4.7	5.7	4.7	5.3	6.0	5.3	5.2
CRYSTAL BLUE LINKS	4.7	5.0	5.3	4.7	4.0	5.0	5.3	4.7	5.3	5.0	5.0	4.7	5.0	4.9
PENNCROSS	5.3	4.0	3.7	4.0	3.7	4.0	4.0	3.7	4.3	4.3	4.7	4.0	4.3	4.1
LSD VALUE	1.1	0.7	0.7	1.0	0.8	0.7	0.8	0.9	0.9	0.9	0.5	0.4	0.9	0.3
C.V. (%)	11.8	9.0	9.0	10.7	9.2	7.4	8.9	9.6	8.8	9.0	6.1	5.4	9.7	4.0

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 6B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/														
NAME	SPRING GREENUP	WEAR TOLERANCE RATINGS			QUALITY RATINGS									
		MAY	JULY	SEPTEMBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PIRANHA (DC-1)	6.3	6.7	6.3	6.3	5.7	6.3	6.7	7.0	7.0	7.0	7.0	6.0	6.0	6.5
KINGDOM	4.0	7.3	7.0	7.0	5.7	6.0	6.7	6.3	6.7	6.7	6.3	5.0	5.0	6.0
L-93XD	5.7	5.3	5.0	5.7	5.3	6.0	6.0	6.3	7.0	6.7	6.0	5.0	5.7	6.0
NIGHTLIFE	5.3	7.3	6.7	6.7	5.7	5.7	6.7	6.0	6.7	6.7	6.3	5.3	5.0	6.0
CHINOOK (H10G-OP)	6.3	5.7	5.3	5.7	5.0	6.0	5.7	6.0	6.0	6.3	6.0	6.0	6.0	5.9
SHARK	5.3	6.3	5.0	5.0	4.3	6.3	6.0	6.0	6.7	6.7	5.7	5.0	5.0	5.7
007	6.7	6.0	5.3	6.0	5.7	5.7	5.0	5.3	6.0	6.0	6.3	5.3	5.0	5.6
ARMOR	4.7	6.3	6.3	6.3	5.3	6.0	6.3	5.7	6.3	6.0	5.3	5.0	4.3	5.6
PST-OCV6	5.7	5.7	5.7	5.3	4.3	5.7	6.3	6.3	6.3	6.0	5.0	5.0	5.7	5.6
BARRACUDA	6.3	6.0	5.0	4.7	5.0	6.3	5.3	5.0	6.0	5.7	5.3	5.0	5.3	5.4
PST-ORBS	5.3	5.3	6.0	6.0	4.7	6.0	6.0	5.3	6.0	6.0	5.0	5.0	4.7	5.4
V-8	5.0	5.3	5.3	5.3	4.7	6.3	5.3	5.3	6.0	5.7	5.0	4.7	4.7	5.3
CRYSTAL BLUE LINKS	4.7	5.0	5.3	4.7	4.0	5.0	5.3	4.7	5.3	5.0	5.0	4.7	5.0	4.9
PENNCROSS	5.3	4.0	3.7	4.0	3.7	4.0	4.0	3.7	4.3	4.3	4.7	4.0	4.3	4.1
LSD VALUE	1.1	0.8	0.7	0.9	0.8	0.8	0.9	0.8	0.9	0.9	0.5	0.5	1.0	0.3
C.V. (%)	11.6	8.8	7.6	9.7	9.8	8.3	9.4	9.2	8.4	8.7	5.8	5.6	10.2	3.7

TABLE 6C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COLONIAL BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/														
NAME	SPRING GREENUP	WEAR TOLERANCE RATINGS			QUALITY RATINGS									
		MAY	JULY	SEPTEMBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
DLFPS-AT/3026	6.7	3.3	3.3	4.7	6.0	7	6.0	5.0	7.0	6.3	6.3	6.3	6.7	6.3
MUSKET (PPG-AT 104)	5.3	3.7	4.3	5.7	5.7	7	5.0	5.0	6.3	5.3	5.7	6.0	5.7	5.7
GREENTIME	4.7	3.3	3.3	4.3	5.0	5	5.3	4.7	5.7	4.7	5.3	6.0	5.3	5.2
LSD VALUE	1.5	0.8	1.3	1.2	0.8	0	0.8	1.5	1.9	1.5	0.8	0.8	1.2	0.8
C.V. (%)	12.0	9.7	15.7	10.8	6.0	0	6.1	13.6	12.9	12.2	5.8	5.5	8.9	5.7

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

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

TABLE 7A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2016 DATA

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

NAME	PERCENT GROUND COVER RATINGS				QUALITY RATINGS							
	AUG_10	AUG_15	AUG_24	SEPT	MAR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
DLFPS-AT/3026	5.0	16.7	20.0	35.0	7.0	7.7	6.0	7.0	5.0	6.7	6.0	6.5
MUSKET (PPG-AT 104)	15.0	28.3	33.3	35.0	6.7	7.3	6.0	6.3	4.3	6.0	6.3	6.1
CRYSTAL BLUE LINKS	15.0	35.0	40.0	51.7	7.0	6.0	6.0	7.3	5.0	6.0	5.0	6.0
GREENTIME	6.7	15.0	21.7	45.0	6.3	6.0	6.3	6.7	4.7	6.3	6.0	6.0
PIRANHA (DC-1)	15.0	28.3	41.7	45.0	7.0	7.0	6.3	7.3	4.7	5.0	4.7	6.0
SHARK	20.0	28.3	48.3	56.7	7.0	7.7	7.0	8.0	4.3	4.7	3.7	6.0
CHINOOK (H10G-OP)	13.3	23.3	33.3	48.3	7.3	7.0	6.0	7.0	5.0	4.7	4.3	5.9
NIGHTLIFE	11.7	23.3	33.3	58.3	6.0	5.0	6.3	7.7	5.3	6.0	5.0	5.9
PENNCROSS	8.3	21.7	28.3	50.0	6.0	5.0	5.7	6.0	5.3	6.7	5.3	5.7
PST-ORBS	20.0	36.7	53.3	56.7	6.0	5.7	6.0	6.7	4.7	5.3	5.3	5.7
007	16.7	43.3	55.0	70.0	5.7	6.0	6.0	7.3	5.0	4.7	4.7	5.6
L-93XD	18.3	28.3	38.3	43.3	6.0	6.7	6.7	7.7	4.3	3.7	4.3	5.6
V-8	5.0	10.0	25.0	48.3	6.0	6.0	6.7	7.3	5.0	4.7	3.7	5.6
PST-OCV6	11.7	26.7	38.3	55.0	5.3	5.3	6.0	6.3	4.3	5.3	5.7	5.5
BARRACUDA	13.3	30.0	35.0	40.0	6.3	6.0	5.7	6.3	5.0	4.3	3.7	5.3
ARMOR	25.0	36.7	45.0	58.3	5.3	5.0	5.0	7.0	3.7	4.7	4.0	5.0
KINGDOM	20.0	33.3	46.7	63.3	5.7	5.0	5.0	7.0	4.7	4.3	3.7	5.0
LSD VALUE	32.7	70.3	77.7	74.9	4.4	1.2	1.9	3.1	3.1	3.6	1.9	2.0
C.V. (%)	76.2	75.4	62.4	44.1	21.5	11.6	12.6	14.8	20.0	26.3	20.2	12.1

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 7B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/												
NAME	PERCENT GROUND COVER RATINGS							QUALITY RATINGS				
	AUG_10	AUG_15	AUG_24	SEPT	MAR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
CRYSTAL BLUE LINKS	15.0	35.0	40.0	51.7	7.0	6.0	6.0	7.3	5.0	6.0	5.0	6.0
PIRANHA (DC-1)	15.0	28.3	41.7	45.0	7.0	7.0	6.3	7.3	4.7	5.0	4.7	6.0
SHARK	20.0	28.3	48.3	56.7	7.0	7.7	7.0	8.0	4.3	4.7	3.7	6.0
CHINOOK (H10G-OP)	13.3	23.3	33.3	48.3	7.3	7.0	6.0	7.0	5.0	4.7	4.3	5.9
NIGHTLIFE	11.7	23.3	33.3	58.3	6.0	5.0	6.3	7.7	5.3	6.0	5.0	5.9
PENNCROSS	8.3	21.7	28.3	50.0	6.0	5.0	5.7	6.0	5.3	6.7	5.3	5.7
PST-ORBS	20.0	36.7	53.3	56.7	6.0	5.7	6.0	6.7	4.7	5.3	5.3	5.7
007	16.7	43.3	55.0	70.0	5.7	6.0	6.0	7.3	5.0	4.7	4.7	5.6
L-93XD	18.3	28.3	38.3	43.3	6.0	6.7	6.7	7.7	4.3	3.7	4.3	5.6
V-8	5.0	10.0	25.0	48.3	6.0	6.0	6.7	7.3	5.0	4.7	3.7	5.6
PST-OCV6	11.7	26.7	38.3	55.0	5.3	5.3	6.0	6.3	4.3	5.3	5.7	5.5
BARRACUDA	13.3	30.0	35.0	40.0	6.3	6.0	5.7	6.3	5.0	4.3	3.7	5.3
ARMOR	25.0	36.7	45.0	58.3	5.3	5.0	5.0	7.0	3.7	4.7	4.0	5.0
KINGDOM	20.0	33.3	46.7	63.3	5.7	5.0	5.0	7.0	4.7	4.3	3.7	5.0
LSD VALUE	32.5	65.3	75.3	71.7	4.3	1.2	1.8	2.9	2.8	3.6	1.7	2.0
C.V. (%)	71.1	70.2	57.6	41.0	22.6	11.8	13.0	14.6	19.9	26.7	17.9	11.9

TABLE 7C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COLONIAL BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER TRAFFIC STRESS AT BLACKSBURG, VA 1/
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/												
NAME	PERCENT GROUND COVER RATINGS							QUALITY RATINGS				
	AUG_10	AUG_15	AUG_24	SEPT	MAR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
DLFPS-AT/3026	5.0	16.7	20.0	35.0	7.0	7.7	6.0	7.0	5.0	6.7	6.0	6.5
MUSKET (PPG-AT 104)	15.0	28.3	33.3	35.0	6.7	7.3	6.0	6.3	4.3	6.0	6.3	6.1
GREENTIME	6.7	15.0	21.7	45.0	6.3	6.0	6.3	6.7	4.7	6.3	6.0	6.0
LSD VALUE	24.5	47.4	46.0	52.0	1.3	1.3	0.8	1.9	1.3	3.4	3.9	0.9
C.V. (%)	118.6	102.1	79.2	58.3	8.7	8.2	5.5	12.2	12.4	23.2	27.3	6.1

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 8A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT RIVERSIDE, CA 1/
2016 DATA

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

NAME	GENETIC COLOR	QUALITY RATINGS												MEAN
		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PENNCROSS	7.3	6.0	6.3	6.7	7.0	6.7	6.0	6.3	5.7	6.0	6.0	6.3	6.0	6.3
007	7.3	5.3	5.7	6.7	7.3	6.7	6.3	6.3	6.0	6.0	6.3	6.0	5.3	6.2
SHARK	7.0	6.0	5.7	6.0	6.3	6.7	6.3	6.0	6.0	6.7	6.0	6.3	6.0	6.2
PST-ORBS	7.3	5.7	6.0	6.0	7.0	6.7	6.3	7.0	6.0	6.0	5.0	5.7	5.7	6.1
PIRANHA (DC-1)	7.7	5.7	5.3	6.0	6.3	6.7	6.3	6.3	6.0	6.0	6.0	5.7	5.7	6.0
CHINOOK (H10G-OP)	7.3	5.0	5.3	5.7	5.7	6.7	6.0	7.0	6.0	6.7	6.0	5.7	5.0	5.9
KINGDOM	8.0	5.3	5.7	6.0	6.7	6.3	6.0	6.3	5.7	5.7	5.7	6.0	5.3	5.9
L-93XD	7.0	5.3	5.3	5.7	6.7	6.0	6.0	6.7	6.0	6.3	6.3	5.7	5.3	5.9
PST-OCV6	7.7	4.7	5.7	6.3	6.3	7.0	6.0	6.3	6.0	6.0	6.3	5.7	4.7	5.9
BARRACUDA	7.0	5.7	5.7	6.0	6.0	6.3	5.7	6.0	6.0	5.7	5.3	5.7	5.7	5.8
NIGHTLIFE	8.0	4.3	5.3	6.0	6.3	6.7	6.3	6.3	6.0	6.3	6.3	5.7	4.3	5.8
V-8	7.0	5.0	5.0	5.7	6.7	6.7	5.3	6.0	6.0	6.0	5.7	5.7	5.0	5.7
ARMOR	8.0	5.0	5.0	5.0	6.0	6.0	5.7	6.3	6.0	5.7	5.7	5.7	5.0	5.6
CRYSTAL BLUE LINKS	7.7	5.0	5.3	5.7	5.7	6.3	5.7	6.3	5.7	5.7	5.7	5.3	5.0	5.6
MUSKET (PPG-AT 104)	7.0	5.3	5.3	5.7	6.0	6.0	5.7	6.0	6.0	5.7	5.0	5.3	5.3	5.6
DLFPS-AT/3026	7.0	5.0	5.0	5.7	5.7	6.0	5.3	6.3	5.7	5.7	5.3	5.3	5.0	5.5
GREENTIME	7.3	4.7	4.7	5.7	6.0	6.0	5.7	6.3	5.3	5.3	4.7	5.0	4.7	5.3
LSD VALUE	0.9	2.7	1.6	1.5	1.8	1.1	2.1	1.8	3.1	3.1	1.3	1.9	2.7	1.1
C.V. (%)	6.0	16.9	11.3	10.1	11.5	7.1	11.5	9.2	13.8	15.2	10.6	11.1	16.9	7.0

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 8B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT RIVERSIDE, CA 1/
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/														
NAME	GENETIC COLOR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
PENNCROSS	7.3	6.0	6.3	6.7	7.0	6.7	6.0	6.3	5.7	6.0	6.0	6.3	6.0	6.3
007	7.3	5.3	5.7	6.7	7.3	6.7	6.3	6.3	6.0	6.0	6.3	6.0	5.3	6.2
SHARK	7.0	6.0	5.7	6.0	6.3	6.7	6.3	6.0	6.0	6.7	6.0	6.3	6.0	6.2
PST-ORBS	7.3	5.7	6.0	6.0	7.0	6.7	6.3	7.0	6.0	6.0	5.0	5.7	5.7	6.1
PIRANHA (DC-1)	7.7	5.7	5.3	6.0	6.3	6.7	6.3	6.3	6.0	6.0	6.0	5.7	5.7	6.0
CHINOOK (H10G-OP)	7.3	5.0	5.3	5.7	5.7	6.7	6.0	7.0	6.0	6.7	6.0	5.7	5.0	5.9
KINGDOM	8.0	5.3	5.7	6.0	6.7	6.3	6.0	6.3	5.7	5.7	5.7	6.0	5.3	5.9
L-93XD	7.0	5.3	5.3	5.7	6.7	6.0	6.0	6.7	6.0	6.3	6.3	5.7	5.3	5.9
PST-OCV6	7.7	4.7	5.7	6.3	6.3	7.0	6.0	6.3	6.0	6.0	6.3	5.7	4.7	5.9
BARRACUDA	7.0	5.7	5.7	6.0	6.0	6.3	5.7	6.0	6.0	5.7	5.3	5.7	5.7	5.8
NIGHTLIFE	8.0	4.3	5.3	6.0	6.3	6.7	6.3	6.3	6.0	6.3	6.3	5.7	4.3	5.8
V-8	7.0	5.0	5.0	5.7	6.7	6.7	5.3	6.0	6.0	6.0	5.7	5.7	5.0	5.7
ARMOR	8.0	5.0	5.0	5.0	6.0	6.0	5.7	6.3	6.0	5.7	5.7	5.7	5.0	5.6
CRYSTAL BLUE LINKS	7.7	5.0	5.3	5.7	5.7	6.3	5.7	6.3	5.7	5.7	5.7	5.3	5.0	5.6
LSD VALUE	0.9	2.3	1.6	1.5	1.7	1.4	1.9	1.5	3.1	2.9	1.5	1.9	2.3	1.2
C.V. (%)	6.0	15.9	10.7	10.4	10.8	7.6	10.8	8.5	14.4	14.7	10.4	10.5	15.9	6.8

TABLE 8C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COLONIAL BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT RIVERSIDE, CA 1/
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/														
NAME	GENETIC COLOR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
MUSKET (PPG-AT 104)	7.0	5.3	5.3	5.7	6.0	6	5.7	6.0	6.0	5.7	5.0	5.3	5.3	5.6
DLFPS-AT/3026	7.0	5.0	5.0	5.7	5.7	6	5.3	6.3	5.7	5.7	5.3	5.3	5.0	5.5
GREENTIME	7.3	4.7	4.7	5.7	6.0	6	5.7	6.3	5.3	5.3	4.7	5.0	4.7	5.3
LSD VALUE	0.8	2.7	1.9	1.3	2.0	0	0.8	1.8	1.3	2.0	1.3	2.0	2.7	1.2
C.V. (%)	4.7	23.1	16.3	10.2	15.0	0	6.0	12.6	10.2	15.9	11.5	16.9	23.1	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 9A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT WEST LAFAYETTE, IN 1/
2016 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	SPRING DENSITY	DIVOT RECOVERY	SURFACE SMOOTHNESS	APR	MAY	JUN	QUALITY RATINGS				MEAN
									JUL	AUG	SEP	OCT	
NIGHTLIFE	8.0	7.7	8.3	5.3	5.7	7.7	7.3	8.7	7.7	7.0	6.0	5.7	7.1
ARMOR	8.0	7.3	8.3	2.7	3.7	6.7	5.3	7.7	8.0	7.7	6.0	5.3	6.7
PST-OCV6	6.0	7.0	7.7	6.0	5.7	6.3	6.3	7.0	8.0	7.3	6.0	6.0	6.7
CHINOOK (H10G-OP)	7.7	7.7	8.0	3.7	3.0	7.0	6.0	7.3	7.3	5.7	5.7	5.0	6.3
CRYSTAL BLUE LINKS	7.3	6.7	7.3	4.3	7.0	5.3	5.7	6.7	7.0	6.0	5.3	5.7	6.0
KINGDOM	8.3	7.7	8.7	4.7	3.0	6.7	6.3	7.7	7.7	6.0	4.3	3.3	6.0
MUSKET (PPG-AT 104)	6.3	7.0	6.7	3.3	7.0	5.0	4.3	6.3	6.3	6.3	6.0	6.7	5.9
DLFPS-AT/3026	6.3	6.0	6.7	4.3	8.3	5.0	4.7	6.3	6.3	5.7	6.0	6.7	5.8
L-93XD	5.7	7.7	8.0	3.0	3.7	6.0	6.0	7.3	7.3	5.0	4.7	4.3	5.8
PIRANHA (DC-1)	7.3	7.0	8.0	4.0	4.3	6.3	6.0	7.7	8.0	5.3	4.0	3.3	5.8
PENNCROSS	6.0	5.3	5.7	5.3	9.0	4.7	5.3	5.7	6.0	6.0	6.0	6.0	5.7
V-8	7.0	7.7	8.0	4.3	5.0	6.0	5.3	6.7	7.3	5.3	5.3	4.0	5.7
PST-ORBS	7.0	7.3	8.3	4.7	3.7	6.0	5.3	7.7	7.3	5.3	4.0	3.3	5.6
SHARK	6.0	7.7	7.3	4.0	4.3	5.3	5.0	6.7	7.3	5.3	4.7	4.0	5.5
007	7.7	8.0	8.0	3.7	4.3	6.3	5.3	7.3	7.7	5.0	3.7	2.7	5.4
BARRACUDA	6.7	7.3	8.0	3.7	5.0	6.0	5.7	7.0	7.3	4.7	3.7	3.0	5.3
GREENTIME	6.3	7.0	6.3	3.0	8.3	4.3	4.0	5.3	5.0	5.7	5.7	5.7	5.1
LSD VALUE	1.0	1.3	1.0	4.0	2.6	1.3	1.5	1.0	0.9	1.4	1.6	1.8	0.9
C.V. (%)	9.0	9.4	7.8	35.8	29.0	12.9	14.1	8.8	7.5	13.0	17.2	22.2	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 9B.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT WEST LAFAYETTE, IN 1/
2016 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	SPRING DENSITY	DIVOT RECOVERY	SURFACE SMOOTHNESS	QUALITY RATINGS							MEAN
						APR	MAY	JUN	JUL	AUG	SEP	OCT	
NIGHTLIFE	8.0	7.7	8.3	5.3	5.7	7.7	7.3	8.7	7.7	7.0	6.0	5.7	7.1
ARMOR	8.0	7.3	8.3	2.7	3.7	6.7	5.3	7.7	8.0	7.7	6.0	5.3	6.7
PST-OCV6	6.0	7.0	7.7	6.0	5.7	6.3	6.3	7.0	8.0	7.3	6.0	6.0	6.7
CHINOOK (H10G-OP)	7.7	7.7	8.0	3.7	3.0	7.0	6.0	7.3	7.3	5.7	5.7	5.0	6.3
CRYSTAL BLUE LINKS	7.3	6.7	7.3	4.3	7.0	5.3	5.7	6.7	7.0	6.0	5.3	5.7	6.0
KINGDOM	8.3	7.7	8.7	4.7	3.0	6.7	6.3	7.7	7.7	6.0	4.3	3.3	6.0
L-93XD	5.7	7.7	8.0	3.0	3.7	6.0	6.0	7.3	7.3	5.0	4.7	4.3	5.8
PIRANHA (DC-1)	7.3	7.0	8.0	4.0	4.3	6.3	6.0	7.7	8.0	5.3	4.0	3.3	5.8
PENNCROSS	6.0	5.3	5.7	5.3	9.0	4.7	5.3	5.7	6.0	6.0	6.0	6.0	5.7
V-8	7.0	7.7	8.0	4.3	5.0	6.0	5.3	6.7	7.3	5.3	5.3	4.0	5.7
PST-ORBS	7.0	7.3	8.3	4.7	3.7	6.0	5.3	7.7	7.3	5.3	4.0	3.3	5.6
SHARK	6.0	7.7	7.3	4.0	4.3	5.3	5.0	6.7	7.3	5.3	4.7	4.0	5.5
007	7.7	8.0	8.0	3.7	4.3	6.3	5.3	7.3	7.7	5.0	3.7	2.7	5.4
BARRACUDA	6.7	7.3	8.0	3.7	5.0	6.0	5.7	7.0	7.3	4.7	3.7	3.0	5.3
LSD VALUE	1.0	1.2	1.0	4.5	3.1	1.7	1.7	1.2	1.0	1.5	1.8	2.1	1.0
C.V. (%)	8.7	9.0	7.6	38.0	34.2	13.5	13.1	9.0	7.2	13.9	18.6	25.8	8.9

TABLE 9C.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COLONIAL BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT WEST LAFAYETTE, IN 1/
2016 DATA

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

NAME	GENETIC COLOR	LEAF TEXTURE	SPRING DENSITY	DIVOT RECOVERY	SURFACE SMOOTHNESS	QUALITY RATINGS							MEAN
						APR	MAY	JUN	JUL	AUG	SEP	OCT	
MUSKET (PPG-AT 104)	6.3	7.0	6.7	3.3	7.0	5.0	4.3	6.3	6.3	6.3	6.0	6.7	5.9
DLFPS-AT/3026	6.3	6.0	6.7	4.3	8.3	5.0	4.7	6.3	6.3	5.7	6.0	6.7	5.8
GREENTIME	6.3	7.0	6.3	3.0	8.3	4.3	4.0	5.3	5.0	5.7	5.7	5.7	5.1
LSD VALUE	0.0	1.6	1.5	1.2	2.4	0.8	0.9	0.0	0.8	1.2	1.5	1.3	0.5
C.V. (%)	0.0	10.6	10.2	14.8	13.4	7.0	9.4	0.0	5.7	8.9	11.3	9.1	4.0

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 10A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT LOGAN, UT 1/
2016 DATA

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

NAME	SPRING GREENUP	QUALITY RATINGS							MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	
KINGDOM	6.3	6.7	8.0	7.3	8.3	8.3	6.7	8.3	7.7
NIGHTLIFE	6.7	7.0	8.0	7.7	6.7	8.3	6.7	8.3	7.5
007	7.0	7.0	6.0	7.0	7.0	7.7	7.3	6.7	7.0
ARMOR	7.0	6.7	7.7	6.3	6.3	7.7	6.3	8.0	7.0
BARRACUDA	7.0	6.7	6.0	6.3	6.3	7.0	6.7	7.0	6.6
CRYSTAL BLUE LINKS	6.7	7.0	6.0	6.0	6.7	7.3	7.0	6.3	6.6
V-8	5.7	6.7	7.0	5.7	6.7	7.0	6.3	7.0	6.6
L-93XD	6.7	6.7	7.0	6.3	6.0	7.0	6.0	6.3	6.5
PST-OCV6	7.0	7.0	5.7	5.7	7.0	6.7	6.3	6.3	6.4
PST-ORBS	6.7	7.0	6.0	5.7	6.0	7.0	6.0	6.7	6.3
PIRANHA (DC-1)	6.3	6.3	7.0	5.7	5.3	6.0	6.0	7.0	6.2
CHINOOK (H10G-OP)	6.3	6.7	6.3	5.0	5.7	6.7	5.7	7.0	6.1
SHARK	6.3	6.7	6.0	5.3	6.3	6.3	5.3	7.0	6.1
MUSKET (PPG-AT 104)	7.3	6.0	5.3	6.0	7.3	5.3	6.3	6.0	6.0
DLFPS-AT/3026	7.3	5.7	4.7	4.3	5.7	5.0	6.3	4.7	5.2
GREENTIME	7.3	5.7	4.3	3.3	5.7	5.0	5.3	5.0	4.9
PENNCROSS	6.3	5.7	3.0	4.0	4.3	3.7	4.3	4.3	4.2
LSD VALUE	1.2	1.4	0.7	1.0	1.6	1.2	1.8	1.1	0.5
C.V. (%)	8.3	9.6	7.6	11.4	13.9	11.6	13.6	10.6	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 10B. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF CREEPING BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT LOGAN, UT 1/
2016 DATA

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

NAME	SPRING GREENUP	QUALITY RATINGS							MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	
KINGDOM	6.3	6.7	8.0	7.3	8.3	8.3	6.7	8.3	7.7
NIGHTLIFE	6.7	7.0	8.0	7.7	6.7	8.3	6.7	8.3	7.5
007	7.0	7.0	6.0	7.0	7.0	7.7	7.3	6.7	7.0
ARMOR	7.0	6.7	7.7	6.3	6.3	7.7	6.3	8.0	7.0
BARRACUDA	7.0	6.7	6.0	6.3	6.3	7.0	6.7	7.0	6.6
CRYSTAL BLUE LINKS	6.7	7.0	6.0	6.0	6.7	7.3	7.0	6.3	6.6
V-8	5.7	6.7	7.0	5.7	6.7	7.0	6.3	7.0	6.6
L-93XD	6.7	6.7	7.0	6.3	6.0	7.0	6.0	6.3	6.5
PST-0CV6	7.0	7.0	5.7	5.7	7.0	6.7	6.3	6.3	6.4
PST-0RBS	6.7	7.0	6.0	5.7	6.0	7.0	6.0	6.7	6.3
PIRANHA (DC-1)	6.3	6.3	7.0	5.7	5.3	6.0	6.0	7.0	6.2
CHINOOK (H10G-OP)	6.3	6.7	6.3	5.0	5.7	6.7	5.7	7.0	6.1
SHARK	6.3	6.7	6.0	5.3	6.3	6.3	5.3	7.0	6.1
PENNCROSS	6.3	5.7	3.0	4.0	4.3	3.7	4.3	4.3	4.2
LSD VALUE	1.2	1.6	0.7	1.1	1.8	1.3	1.9	1.1	0.6
C.V. (%)	7.8	9.0	7.1	10.9	14.7	11.1	14.3	9.5	5.8

TABLE 10C. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF COLONIAL BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER REDUCED IRRIGATION AT LOGAN, UT 1/
2016 DATA

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

NAME	SPRING GREENUP	QUALITY RATINGS							MEAN
		APR	MAY	JUN	JUL	AUG	SEP	OCT	
MUSKET (PPG-AT 104)	7.3	6.0	5.3	6.0	7.3	5.3	6.3	6.0	6.0
DLFPS-AT/3026	7.3	5.7	4.7	4.3	5.7	5.0	6.3	4.7	5.2
GREENTIME	7.3	5.7	4.3	3.3	5.7	5.0	5.3	5.0	4.9
LSD VALUE	1.3	1.5	1.2	1.2	1.2	1.5	1.3	2.4	0.6
C.V. (%)	7.9	11.5	11.0	11.6	8.5	13.0	9.6	20.2	5.0

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

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

TABLE 11A.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE UNDER LOW TEMPERATURE/WINTER TOLERANCE AT FARGO, ND 1/
2016 DATA

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

NAME	SPRING DENSITY	PERCENT GROUND COVER			QUALITY RATINGS					MEAN
		SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	
SHARK	5.0	83.3	90.0	99.0	5.0	6.7	6.0	7.3	7.0	6.4
BARRACUDA	5.0	90.0	95.0	99.0	5.7	5.7	6.0	7.3	7.0	6.3
CRYSTAL BLUE LINKS	5.3	86.7	91.7	99.0	5.3	6.0	6.3	7.0	7.0	6.3
CHINOOK (H10G-OP)	5.0	83.3	91.7	96.0	5.0	6.3	6.0	6.3	6.7	6.1
KINGDOM	5.0	83.3	93.3	97.7	5.0	5.7	6.0	6.7	7.0	6.1
PIRANHA (DC-1)	5.0	83.3	90.0	95.0	5.0	6.0	6.0	6.7	7.0	6.1
007	4.0	85.0	81.7	96.3	5.3	5.7	6.0	6.7	6.3	6.0
PST-ORBS	4.0	88.3	91.7	95.0	5.3	5.7	6.0	7.0	6.0	6.0
L-93XD	4.3	78.3	83.3	90.0	4.3	5.3	6.7	6.7	6.3	5.9
PENNCROSS	5.0	85.0	86.7	90.0	5.0	5.0	6.3	7.0	6.0	5.9
V-8	4.0	80.0	91.7	99.0	4.7	5.7	6.0	6.7	6.0	5.8
PST-OCV6	4.0	81.7	91.7	95.0	4.7	5.3	6.0	6.3	6.0	5.7
DLFPS-AT/3026	4.0	75.0	83.3	95.0	4.0	4.7	6.3	6.3	6.3	5.5
MUSKET (PPG-AT 104)	4.0	78.3	88.3	96.3	4.0	5.0	6.0	6.3	6.0	5.5
NIGHTLIFE	4.0	85.0	91.7	96.0	5.0	5.3	5.0	6.0	6.0	5.5
ARMOR	5.0	73.3	80.0	90.0	4.0	5.3	5.3	5.7	6.0	5.3
GREENTIME	4.7	73.3	81.7	90.0	3.7	4.7	6.3	6.0	5.7	5.3
LSD VALUE	0.4	9.1	7.3	3.3	1.1	1.1	1.6	1.1	0.5	0.7
C.V. (%)	5.4	5.9	4.7	2.2	12.5	10.2	10.0	8.1	5.0	6.0

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

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

TABLE 11B. 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/
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/										
NAME	SPRING DENSITY	PERCENT GROUND COVER SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	MEAN
SHARK	5.0	83.3	90.0	99.0	5.0	6.7	6.0	7.3	7.0	6.4
BARRACUDA	5.0	90.0	95.0	99.0	5.7	5.7	6.0	7.3	7.0	6.3
CRYSTAL BLUE LINKS	5.3	86.7	91.7	99.0	5.3	6.0	6.3	7.0	7.0	6.3
CHINOOK (H10G-OP)	5.0	83.3	91.7	96.0	5.0	6.3	6.0	6.3	6.7	6.1
KINGDOM	5.0	83.3	93.3	97.7	5.0	5.7	6.0	6.7	7.0	6.1
PIRANHA (DC-1)	5.0	83.3	90.0	95.0	5.0	6.0	6.0	6.7	7.0	6.1
007	4.0	85.0	81.7	96.3	5.3	5.7	6.0	6.7	6.3	6.0
PST-ORBS	4.0	88.3	91.7	95.0	5.3	5.7	6.0	7.0	6.0	6.0
L-93XD	4.3	78.3	83.3	90.0	4.3	5.3	6.7	6.7	6.3	5.9
PENNCROSS	5.0	85.0	86.7	90.0	5.0	5.0	6.3	7.0	6.0	5.9
V-8	4.0	80.0	91.7	99.0	4.7	5.7	6.0	6.7	6.0	5.8
PST-OCV6	4.0	81.7	91.7	95.0	4.7	5.3	6.0	6.3	6.0	5.7
NIGHTLIFE	4.0	85.0	91.7	96.0	5.0	5.3	5.0	6.0	6.0	5.5
ARMOR	5.0	73.3	80.0	90.0	4.0	5.3	5.3	5.7	6.0	5.3
LSD VALUE	0.3	11.3	7.7	3.6	1.3	1.1	1.3	0.9	0.4	0.6
C.V. (%)	4.8	6.2	4.7	2.3	11.6	9.3	9.1	7.1	4.2	5.1

TABLE 11C. 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/
2016 DATA

TURFGRASS QUALITY AND OTHER RATINGS 1-9; 9=BEST 2/										
NAME	SPRING DENSITY	PERCENT GROUND COVER SPRING	SUMMER	FALL	MAY	JUN	JUL	AUG	SEP	MEAN
DLFPS-AT/3026	4.0	75.0	83.3	95.0	4.0	4.7	6.3	6.3	6.3	5.5
MUSKET (PPG-AT 104)	4.0	78.3	88.3	96.3	4.0	5.0	6.0	6.3	6.0	5.5
GREENTIME	4.7	73.3	81.7	90.0	3.7	4.7	6.3	6.0	5.7	5.3
LSD VALUE	0.8	7.7	6.1	3.1	1.8	1.8	2.0	2.0	1.3	1.5
C.V. (%)	7.9	4.4	3.1	1.4	20.1	16.4	14.2	14.2	9.6	11.5

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 12A. GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								
NAME	IA1	IL1	KS1	MI1	MO1	NJ1	WA1	MEAN
KINGDOM	9.0	8.0	7.7	6.3	8.0	8.7	8.0	8.0
NIGHTLIFE	8.7	8.0	6.7	7.0	8.0	8.7	8.0	7.9
ARMOR	8.7	8.0	7.7	6.3	7.3	8.0	8.0	7.7
PIRANHA (DC-1)	8.0	7.0	7.0	6.7	5.0	5.7	6.3	6.5
007	8.0	7.3	6.3	6.3	5.3	5.7	6.7	6.5
CRYSTAL BLUE LINKS	7.3	7.7	6.7	6.0	5.0	6.3	6.3	6.5
CHINOOK (H10G-OP)	7.7	7.7	7.3	6.0	5.0	5.0	6.3	6.4
PST-ORBS	7.7	7.7	6.0	6.0	5.3	6.3	6.0	6.4
PST-OCV6	7.3	7.3	6.7	6.0	5.0	5.3	6.0	6.2
V-8	8.0	7.0	7.0	6.0	5.0	4.7	5.7	6.2
L-93XD	6.3	7.3	7.3	6.0	5.0	5.0	6.0	6.1
BARRACUDA	6.7	7.0	7.0	6.0	4.7	5.3	6.0	6.1
SHARK	7.0	7.0	6.3	6.0	4.7	5.0	6.0	6.0
PENNCROSS	6.7	8.0	6.0	6.0	3.7	4.0	6.0	5.8
GREENTIME	7.3	7.0	5.7	6.0	4.0	2.0	7.0	5.6
DLFPS-AT/3026	6.7	6.0	6.0	5.0	4.0	2.3	7.0	5.3
MUSKET (PPG-AT 104)	6.0	6.0	6.7	5.0	3.7	2.7	7.0	5.3
LSD VALUE	1.1	0.6	1.8	0.5	0.8	0.8	0.5	0.4
C.V. (%)	9.6	4.7	16.8	4.6	9.7	9.8	4.7	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 12B. GENETIC COLOR RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								
NAME	IA1	IL1	KS1	MI1	MO1	NJ1	WA1	MEAN
KINGDOM	9.0	8.0	7.7	6.3	8.0	8.7	8.0	8.0
NIGHTLIFE	8.7	8.0	6.7	7.0	8.0	8.7	8.0	7.9
ARMOR	8.7	8.0	7.7	6.3	7.3	8.0	8.0	7.7
PIRANHA (DC-1)	8.0	7.0	7.0	6.7	5.0	5.7	6.3	6.5
007	8.0	7.3	6.3	6.3	5.3	5.7	6.7	6.5
CRYSTAL BLUE LINKS	7.3	7.7	6.7	6.0	5.0	6.3	6.3	6.5
CHINOOK (H10G-OP)	7.7	7.7	7.3	6.0	5.0	5.0	6.3	6.4
PST-ORBS	7.7	7.7	6.0	6.0	5.3	6.3	6.0	6.4
PST-OCV6	7.3	7.3	6.7	6.0	5.0	5.3	6.0	6.2
V-8	8.0	7.0	7.0	6.0	5.0	4.7	5.7	6.2
L-93XD	6.3	7.3	7.3	6.0	5.0	5.0	6.0	6.1
BARRACUDA	6.7	7.0	7.0	6.0	4.7	5.3	6.0	6.1
SHARK	7.0	7.0	6.3	6.0	4.7	5.0	6.0	6.0
PENNCROSS	6.7	8.0	6.0	6.0	3.7	4.0	6.0	5.8
LSD VALUE	1.1	0.6	1.6	0.5	0.7	0.9	0.6	0.3
C.V. (%)	8.6	5.0	14.6	5.0	8.4	8.9	5.3	8.7

TABLE 12C. GENETIC COLOR RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/								
NAME	IA1	IL1	KS1	MI1	MO1	NJ1	WA1	MEAN
GREENTIME	7.3	7	5.7	6	4.0	2.0	7	5.6
DLFPS-AT/3026	6.7	6	6.0	5	4.0	2.3	7	5.3
MUSKET (PPG-AT 104)	6.0	6	6.7	5	3.7	2.7	7	5.3
LSD VALUE	1.5	0	2.6	0	1.1	0.8	0	0.5
C.V. (%)	14.1	0	26.2	0	17.1	20.2	0	14.2

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 13A. SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	IL1	NJ1	WA1	MEAN
DLFPS-AT/3026	7.3	7.0	6.7	7.0
MUSKET (PPG-AT 104)	7.3	6.7	6.7	6.9
GREENTIME	7.7	6.0	6.7	6.8
BARRACUDA	7.7	4.3	7.0	6.3
L-93XD	6.3	4.7	7.3	6.1
CRYSTAL BLUE LINKS	7.7	3.0	7.3	6.0
SHARK	7.0	4.0	6.7	5.9
CHINOOK (H10G-OP)	6.3	4.3	6.7	5.8
PST-OCV6	7.0	4.0	6.3	5.8
PST-ORBS	6.3	4.0	7.0	5.8
PIRANHA (DC-1)	5.3	4.7	7.0	5.7
V-8	7.7	2.3	7.0	5.7
007	5.7	4.0	7.0	5.6
PENNCROSS	7.7	2.7	6.3	5.6
ARMOR	7.3	2.3	7.0	5.6
KINGDOM	6.7	2.3	7.0	5.3
NIGHTLIFE	6.7	2.3	7.0	5.3
LSD VALUE	1.3	1.5	1.0	0.7
C.V. (%)	11.6	22.7	9.4	13.4

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 13B. SPRING GREENUP RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	IL1	NJ1	WA1	MEAN
BARRACUDA	7.7	4.3	7.0	6.3
L-93XD	6.3	4.7	7.3	6.1
CRYSTAL BLUE LINKS	7.7	3.0	7.3	6.0
SHARK	7.0	4.0	6.7	5.9
CHINOOK (H10G-OP)	6.3	4.3	6.7	5.8
PST-OCV6	7.0	4.0	6.3	5.8
PST-ORBS	6.3	4.0	7.0	5.8
PIRANHA (DC-1)	5.3	4.7	7.0	5.7
V-8	7.7	2.3	7.0	5.7
007	5.7	4.0	7.0	5.6
PENNCROSS	7.7	2.7	6.3	5.6
ARMOR	7.3	2.3	7.0	5.6
KINGDOM	6.7	2.3	7.0	5.3
NIGHTLIFE	6.7	2.3	7.0	5.3
LSD VALUE	1.4	1.4	1.1	0.7
C.V. (%)	12.4	24.1	9.5	13.7

TABLE 13C. SPRING GREENUP RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	IL1	NJ1	WA1	MEAN
DLFPS-AT/3026	7.3	7.0	6.7	7.0
MUSKET (PPG-AT 104)	7.3	6.7	6.7	6.9
GREENTIME	7.7	6.0	6.7	6.8
LSD VALUE	0.9	1.9	0.9	0.8
C.V. (%)	7.8	18.3	8.7	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 14A. LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	NJ1
DLFPS-AT/3026	8.3
L-93XD	8.0
PIRANHA (DC-1)	8.0
MUSKET (PPG-AT 104)	7.7
GREENTIME	7.3
007	7.0
CHINOOK (H10G-OP)	7.0
BARRACUDA	6.3
SHARK	6.3
V-8	6.3
ARMOR	5.7
PST-ORBS	5.7
NIGHTLIFE	5.3
CRYSTAL BLUE LINKS	5.0
KINGDOM	4.7
PST-OCV6	4.3
PENNCROSS	3.0
LSD VALUE	1.3
C.V. (%)	13.3

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 14B. LEAF TEXTURE RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	NJ1
L-93XD	8.0
PIRANHA (DC-1)	8.0
007	7.0
CHINOOK (H10G-OP)	7.0
BARRACUDA	6.3
SHARK	6.3
V-8	6.3
ARMOR	5.7
PST-ORBS	5.7
NIGHTLIFE	5.3
CRYSTAL BLUE LINKS	5.0
KINGDOM	4.7
PST-OCV6	4.3
PENNCROSS	3.0
LSD VALUE	1.4
C.V. (%)	14.8

TABLE 14C. LEAF TEXTURE RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	NJ1
DLFPS-AT/3026	8.3
MUSKET (PPG-AT 104)	7.7
GREENTIME	7.3
LSD VALUE	0.9
C.V. (%)	7.4

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 15A. FALL DENSITY RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	NJ1
PIRANHA (DC-1)	9.0
L-93XD	8.0
CHINOOK (H10G-OP)	7.7
007	7.3
DLFPS-AT/3026	7.0
MUSKET (PPG-AT 104)	7.0
BARRACUDA	6.7
SHARK	6.3
CRYSTAL BLUE LINKS	6.0
GREENTIME	6.0
V-8	5.7
NIGHTLIFE	5.3
KINGDOM	5.0
PST-ORBS	4.7
ARMOR	4.3
PST-OCV6	4.3
PENNCROSS	3.3
LSD VALUE	1.3
C.V. (%)	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 15B. FALL DENSITY RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	NJ1
PIRANHA (DC-1)	9.0
L-93XD	8.0
CHINOOK (H10G-OP)	7.7
007	7.3
BARRACUDA	6.7
SHARK	6.3
CRYSTAL BLUE LINKS	6.0
V-8	5.7
NIGHTLIFE	5.3
KINGDOM	5.0
PST-ORBS	4.7
ARMOR	4.3
PST-OCV6	4.3
PENNCROSS	3.3
LSD VALUE	1.3
C.V. (%)	13.7

TABLE 15C. FALL DENSITY RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	NJ1
DLFPS-AT/3026	7.0
MUSKET (PPG-AT 104)	7.0
GREENTIME	6.0
LSD VALUE	0.9
C.V. (%)	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 16A. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/				
NAME	KS1	MI1	MO1	MEAN
CHINOOK (H10G-OP)	7.7	8.3	9.0	8.3
L-93XD	7.3	8.3	7.3	7.7
V-8	8.0	7.3	7.7	7.7
PIRANHA (DC-1)	5.3	8.7	8.7	7.6
BARRACUDA	6.0	7.7	8.0	7.2
MUSKET (PPG-AT 104)	6.3	8.0	7.3	7.2
007	6.0	8.3	7.0	7.1
DLFPS-AT/3026	6.0	7.7	7.7	7.1
SHARK	6.7	7.0	6.7	6.8
GREENTIME	5.7	5.7	7.7	6.3
KINGDOM	8.0	6.7	3.7	6.1
CRYSTAL BLUE LINKS	6.3	6.3	5.3	6.0
NIGHTLIFE	6.3	6.0	4.3	5.6
PST-ORBS	5.0	6.3	4.3	5.2
PENNCROSS	6.3	5.7	3.0	5.0
PST-OCV6	3.7	6.3	5.0	5.0
ARMOR	6.0	5.7	2.7	4.8
LSD VALUE	3.1	2.2	2.0	1.4
C.V. (%)	30.3	19.3	20.3	23.6

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 16B. DOLLAR SPOT RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/				
NAME	KS1	MI1	MO1	MEAN
CHINOOK (H10G-OP)	7.7	8.3	9.0	8.3
L-93XD	7.3	8.3	7.3	7.7
V-8	8.0	7.3	7.7	7.7
PIRANHA (DC-1)	5.3	8.7	8.7	7.6
BARRACUDA	6.0	7.7	8.0	7.2
007	6.0	8.3	7.0	7.1
SHARK	6.7	7.0	6.7	6.8
KINGDOM	8.0	6.7	3.7	6.1
CRYSTAL BLUE LINKS	6.3	6.3	5.3	6.0
NIGHTLIFE	6.3	6.0	4.3	5.6
PST-ORBS	5.0	6.3	4.3	5.2
PENNCROSS	6.3	5.7	3.0	5.0
PST-OCV6	3.7	6.3	5.0	5.0
ARMOR	6.0	5.7	2.7	4.8
LSD VALUE	2.9	2.4	2.1	1.4
C.V. (%)	28.8	21.1	21.7	24.1

TABLE 16C. DOLLAR SPOT RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/				
NAME	KS1	MI1	MO1	MEAN
MUSKET (PPG-AT 104)	6.3	8.0	7.3	7.2
DLFPS-AT/3026	6.0	7.7	7.7	7.1
GREENTIME	5.7	5.7	7.7	6.3
LSD VALUE	3.6	0.8	1.9	1.4
C.V. (%)	36.9	6.6	15.3	21.3

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. BROWN PATCH (WARM TEMPERATURE) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	MD1	MO1	MEAN
ARMOR	9.0	9.0	9.0
BARRACUDA	9.0	9.0	9.0
KINGDOM	9.0	9.0	9.0
NIGHTLIFE	9.0	9.0	9.0
PIRANHA (DC-1)	9.0	9.0	9.0
007	9.0	8.7	8.8
CHINOOK (H10G-OP)	9.0	8.7	8.8
L-93XD	9.0	8.7	8.8
PENNCROSS	9.0	8.7	8.8
PST-OCV6	9.0	8.7	8.8
CRYSTAL BLUE LINKS	9.0	8.3	8.7
V-8	9.0	8.3	8.7
PST-ORBS	9.0	8.0	8.5
SHARK	8.3	7.7	8.0
MUSKET (PPG-AT 104)	5.0	3.3	4.2
DLFPS-AT/3026	4.3	3.7	4.0
GREENTIME	4.3	2.3	3.3
LSD VALUE	0.8	1.2	0.7
C.V. (%)	5.9	9.9	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 17B. BROWN PATCH (WARM TEMPERATURE) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	MD1	MO1	MEAN
ARMOR	9.0	9.0	9.0
BARRACUDA	9.0	9.0	9.0
KINGDOM	9.0	9.0	9.0
NIGHTLIFE	9.0	9.0	9.0
PIRANHA (DC-1)	9.0	9.0	9.0
007	9.0	8.7	8.8
CHINOOK (H10G-OP)	9.0	8.7	8.8
L-93XD	9.0	8.7	8.8
PENNCROSS	9.0	8.7	8.8
PST-OCV6	9.0	8.7	8.8
CRYSTAL BLUE LINKS	9.0	8.3	8.7
V-8	9.0	8.3	8.7
PST-ORBS	9.0	8.0	8.5
SHARK	8.3	7.7	8.0
LSD VALUE	0.5	0.8	0.5
C.V. (%)	3.4	5.9	4.8

TABLE 17C. BROWN PATCH (WARM TEMPERATURE) RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	MD1	MO1	MEAN
MUSKET (PPG-AT 104)	5.0	3.3	4.2
DLFPS-AT/3026	4.3	3.7	4.0
GREENTIME	4.3	2.3	3.3
LSD VALUE	1.5	2.3	1.4
C.V. (%)	20.7	45.5	31.4

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 18A.

FALL COLOR (OCTOBER) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	KY1
NIGHTLIFE	7.7
ARMOR	7.0
KINGDOM	7.0
007	6.0
BARRACUDA	6.0
CHINOOK (H10G-OP)	6.0
L-93XD	6.0
PENNCROSS	6.0
PIRANHA (DC-1)	6.0
PST-ORBS	6.0
SHARK	6.0
CRYSTAL BLUE LINKS	5.7
GREENTIME	5.7
MUSKET (PPG-AT 104)	5.7
V-8	5.7
PST-OCV6	5.3
DLFPS-AT/3026	5.0
LSD VALUE	0.6
C.V. (%)	5.7

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

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

TABLE 18B. FALL COLOR (OCTOBER) RATINGS OF CREEPING BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	KY1
NIGHTLIFE	7.7
ARMOR	7.0
KINGDOM	7.0
007	6.0
BARRACUDA	6.0
CHINOOK (H10G-OP)	6.0
L-93XD	6.0
PENNCROSS	6.0
PIRANHA (DC-1)	6.0
PST-ORBS	6.0
SHARK	6.0
CRYSTAL BLUE LINKS	5.7
V-8	5.7
PST-0CV6	5.3
LSD VALUE	0.5
C.V. (%)	5.0

TABLE 18C. FALL COLOR (OCTOBER) RATINGS OF COLONIAL BENTGRASS CULTIVARS 1/
GROWN ON A FAIRWAY OR TEE
2016 DATA

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

NAME	KY1
GREENTIME	5.7
MUSKET (PPG-AT 104)	5.7
DLFPS-AT/3026	5.0
LSD VALUE	0.8
C.V. (%)	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 19A.

DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE AT EAST LANSING, MI 1/
2016 DATA

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

NAME	JULY	AUGUST	SEPTEMBER	OCTOBER	MEAN
DLFPS-AT/3026	7.7	8.0	7.7	6.3	7.4
MUSKET (PPG-AT 104)	8.0	5.7	7.7	7.3	7.2
CHINOOK (H10G-OP)	8.3	8.3	7.3	4.3	7.1
V-8	7.3	8.0	6.3	4.7	6.6
L-93XD	8.3	7.0	6.3	4.0	6.4
PIRANHA (DC-1)	8.7	7.3	5.7	4.0	6.4
KINGDOM	6.7	8.0	5.7	4.3	6.2
007	8.3	6.3	4.7	5.0	6.1
BARRACUDA	7.7	6.0	5.3	4.0	5.8
CRYSTAL BLUE LINKS	6.3	6.0	5.0	4.0	5.3
SHARK	7.0	5.7	4.7	3.7	5.3
GREENTIME	5.7	5.7	5.3	3.7	5.1
NIGHTLIFE	6.0	5.7	4.3	4.3	5.1
PENNCROSS	5.7	6.0	4.7	4.0	5.1
PST-ORBS	6.3	5.7	4.3	4.0	5.1
ARMOR	5.7	6.7	3.7	3.0	4.8
PST-OCV6	6.3	5.0	4.3	2.7	4.6
LSD VALUE	2.4	2.5	1.7	4.1	0.9
C.V. (%)	16.9	18.4	18.4	37.8	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 19B. DOLLAR SPOT RATINGS OF CREEPING BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE AT EAST LANSING, MI 1/
2016 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/					
NAME	JULY	AUGUST	SEPTEMBER	OCTOBER	MEAN
CHINOOK (H10G-OP)	8.3	8.3	7.3	4.3	7.1
V-8	7.3	8.0	6.3	4.7	6.6
L-93XD	8.3	7.0	6.3	4.0	6.4
PIRANHA (DC-1)	8.7	7.3	5.7	4.0	6.4
KINGDOM	6.7	8.0	5.7	4.3	6.2
007	8.3	6.3	4.7	5.0	6.1
BARRACUDA	7.7	6.0	5.3	4.0	5.8
CRYSTAL BLUE LINKS	6.3	6.0	5.0	4.0	5.3
SHARK	7.0	5.7	4.7	3.7	5.3
NIGHTLIFE	6.0	5.7	4.3	4.3	5.1
PENNCROSS	5.7	6.0	4.7	4.0	5.1
PST-ORBS	6.3	5.7	4.3	4.0	5.1
ARMOR	5.7	6.7	3.7	3.0	4.8
PST-0CV6	6.3	5.0	4.3	2.7	4.6
LSD VALUE	2.6	2.6	2.1	5.6	1.1
C.V. (%)	17.3	18.8	20.5	42.2	10.8

TABLE 19C. DOLLAR SPOT RATINGS OF COLONIAL BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE AT EAST LANSING, MI 1/
2016 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/					
NAME	JULY	AUGUST	SEPTEMBER	OCTOBER	MEAN
DLFPS-AT/3026	7.7	8.0	7.7	6.3	7.4
MUSKET (PPG-AT 104)	8.0	5.7	7.7	7.3	7.2
GREENTIME	5.7	5.7	5.3	3.7	5.1
LSD VALUE	0.8	2.0	0.8	2.8	0.4
C.V. (%)	4.7	13.7	4.8	20.8	2.5

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 BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE
2016 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	QUALITY MEAN 1/	MAXIMUM IN TOP 25% 2/
007	6.3	22.2
ARMOR	5.7	33.3
BARRACUDA	6.4	44.4
CHINOOK (H10G-OP)	6.5	55.6
CRYSTAL BLUE LINKS	6.0	11.1
DLFPS-AT/3026	5.9	22.2
GREENTIME	5.2	11.1
KINGDOM	5.9	22.2
L-93XD	6.4	33.3
MUSKET (PPG-AT 104)	5.8	22.2
NIGHTLIFE	6.0	22.2
PENNCROSS	4.9	0.0
PIRANHA (DC-1)	6.6	55.6
PST-OCV6	5.9	11.1
PST-ORBS	5.8	0.0
SHARK	6.2	11.1
V-8	6.3	11.1
LSD VALUE	0.3	
C.V. (%)	8.2	

*/ 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.