

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
(Putting Green)

LOCATIONS SUBMITTING DATA FOR 2019

State	Location	Code
Arkansas	Fayetteville	AR1
California	San Francisco (Ca Golf Club of San Francisco)	CA5
California	Los Angeles (Los Angeles C.C.)	CA6
Georgia	Athens	GA3
Illinois	Urbana	IL1
Indiana	West Lafayette	IN1
Iowa	Ames	IA1
Kansas	Manhattan	KS1
Kentucky	Lexington	KY1
Massachusetts	Amherst	MA1
Michigan	East Lansing	MI1
Minnesota	St. Paul	MN1
Missouri	Columbia	MO1
New Jersey	North Brunswick	NJ1
North Carolina	Raleigh	NC1
Oklahoma	Stillwater	OK1
Utah	Logan	UT1
Utah	Logan (Reduced Irrigation)	UT2
Virginia	Blacksburg	VA1

2014 NATIONAL BENTGRASS TEST
(Putting Green)

Entries and Sponsors

Entry No	Name	Species	Sponsor
*1	Luminary	Creeping	Standard
*2	777 (DLFPS-AP/3054)	Creeping	Seed Research of Oregon
*3	Macdonald (DLFPS-AP/3018)	Creeping	DLF Pickseed USA
4	DLFPS-AP/3056	Creeping	DLF Pickseed USA
5	DLFPS-AP/3058	Creeping	SiteOne Landscape Supply
6	DLFPS-AP/3059	Creeping	DLF Pickseed USA
*7	Pure Select	Creeping	Tee-2-Green Corp.
*8	Penn A-1	Creeping	Standard
*9	Penncross	Creeping	Standard
*10	L-93 XD	Creeping	Jacklin Seed by Simplot®
*11	Armor	Creeping	Jacklin Seed by Simplot®
*12	Kingdom	Creeping	Jacklin Seed by Simplot®
*13	Nightlife	Creeping	Jacklin Seed by Simplot®
*14	V-8	Creeping	Standard
*15	Tour Pro (GDE)	Creeping	Semillas Fito
*16	Piranha (DC-1)	Creeping	Mountain View Seeds & Toyo Green Co. Ltd.
*17	Pure Eclipse (PST-ROPS)	Creeping	Pure Seed Testing, Inc
*18	Shark	Creeping	Mountain View Seeds
*19	Barracuda	Creeping	Mountain View Seeds
*20	Declaration	Creeping	Standard

* Commercially Available in the USA in 2020 or any other Country

TABLE A.

2015-19 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 2014 NATIONAL BENTGRASS (PUTTING GREEN) 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
AR1	SAND	6.1-6.5	0-60	0-150	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
CA5	SAND	6.6-7.0	0-60	151-240	0.0-1.0	FULL SUN	0.0-0.5	ONLY DURING SEVERE STRESS
CA6	SAND	7.1-7.5	0-60	151-240	2.1-3.0	LIGHT SHADE	0.0-0.5	TO PREVENT STRESS
GA3	LOAMY SAND	-	-	-	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT 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
IL4	SAND	-	61-150	0-150	-	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	SAND	7.6-8.5	0-60	0-150	2.1-3.0	FULL SUN	0.0-0.5	NO IRRIGATION
KY1	SAND	7.6-8.5	0-60	0-150	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MA1	SAND	5.6-6.0	0-60	241-375	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MI1	-	-	-	-	-	-	-	-
MN1	SAND	7.1-7.5	0-60	0-150	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MO1	-	-	-	-	-	-	-	-
NC1	SILTY CLAY LOAM	6.1-6.5	61-150	0-150	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
NJ1	SAND	6.1-6.5	0-60	0-150	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
OK1	SAND	7.1-7.5	61-150	241-375	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
UT1	SAND	6.6-7.0	0-60	0-150	-	FULL SUN	0.0-0.5	TO PREVENT STRESS
UT2	SAND	6.6-7.0	0-60	0-150	-	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
VA1	SILTY CLAY LOAM	6.1-6.5	61-150	151-240	3.1-4.0	FULL SUN	-	TO PREVENT DORMANCY

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2015-19

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
AR1					X	X	X	X	X				X		
CA5	X	X	X	X	X	X	X	X	X	X	X	X	X		
CA6	X	X	X	X	X	X	X	X	X	X	X	X	X		
GA3	X	X	X	X	X	X	X	X	X	X	X	X	X		
IA1				X	X	X	X	X	X	X			X		
IL4				X	X	X	X	X	X	X			X	X	
IN1					X	X	X	X	X	X	X		X	X	X
KS1				X	X	X	X	X	X	X			X		
KY1			X	X	X	X	X	X	X	X	X				
MA1			X	X	X	X	X	X	X	X	X	X		X	
MI1				X	X	X	X	X	X	X			X	X	
MN1				X	X	X	X	X	X	X			X	X	
MO1			X	X	X	X	X	X	X	X	X				
NC1	X	X	X	X	X	X	X	X	X	X	X		X	X	X
NJ1			X	X	X	X	X	X	X	X	X		X	X	X
OK1	X	X	X	X	X	X	X	X	X	X	X	X	X		X
UT1				X	X	X	X	X	X	X			X	X	
UT2				X	X	X	X	X	X	X			X	X	
VA1			X	X	X	X	X	X	X	X	X		X		

TABLE B.
(CONT'D)

LOCATIONS AND DATA COLLECTED IN 2015-19

LOCATION	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	WINTER COLOR	DOLLAR SPOT	BROWN PATCH WARM TEMP.	ANTHRACNOSE RATINGS	BROWN PATCH COOL TEMP.	FAIRY RING	PINK SNOW MOLD
AR1	X				X	X								
CA5	X		X	X				X						X
CA6	X	X	X					X						
GA3		X	X	X				X	X	X		X		
IA1									X					
IL4														
IN1		X	X					X	X	X				
KS1									X	X				
KY1					X	X			X	X				
MA1										X				
MI1									X					
MN1		X	X	X					X					
MO1	X								X	X			X	X
NC1	X	X	X	X	X	X	X	X	X		X			
NJ1	X			X			X		X	X	X			
OK1		X	X	X	X	X	X	X						
UT1	X													
UT2	X													
VA1					X				X					

TABLE B.
(CONT'D)

LOCATIONS AND DATA COLLECTED IN 2015-19

LOCATION	FALL COLOR SEPTEMBER	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	FALL COLOR DECEMBER	Poa ANNUA	PERCENT ESTABLISH- MENT	PERCENT Poa ANNUA	COPPER SPOT	DOLLER SPOT CENTERS	PERCENT DOLLAR SPOT	MORE PERCENT ESTABLISHMENT
AR1											
CA5											
CA6							X				
GA3	X	X	X	X							
IA1											
IL4		X	X								
IN1									X		
KS1											
KY1						X					
* MA1											
MI1	X	X	X			X					
MN1										X	X
MO1						X		X			
NC1											X
NJ1											
OK1	X	X	X		X						X
UT1			X								
UT2			X								
VA1											

* MORE DATA FOR MA1 IN TABLE 16.

TABLE 1.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2015 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/						MEAN
	NJ1	MO1	NC1	MN1	IN1	MI1	
*L-93 XD	7.7	6.0	7.3	5.8	7.6	6.6	6.8
*777 (DLFPS-AP/3054)	7.4	5.9	7.2	5.8	7.6	6.6	6.7
*MACDONALD (DLFPS-AP/3018)	7.0	5.7	7.1	5.7	7.5	6.5	6.6
*PIRANHA (DC-1)	7.0	5.6	7.1	5.6	7.4	6.4	6.5
*TOUR PRO (GDE)	6.5	5.5	7.0	5.7	7.5	6.6	6.5
DLFPS-AP/3058	6.8	5.5	7.0	5.5	7.4	6.4	6.4
*PURE ECLIPSE (PST-ROPS)	6.7	5.5	6.9	5.5	7.4	6.4	6.4
*V-8	6.4	5.4	6.9	5.6	7.4	6.4	6.4
*SHARK	6.3	5.4	6.9	5.5	7.4	6.4	6.3
DLFPS-AP/3056	6.2	5.3	6.8	5.4	7.3	6.3	6.2
*PURE SELECT	6.2	5.2	6.7	5.4	7.3	6.3	6.2
*BARRACUDA	5.8	5.1	6.7	5.4	7.3	6.3	6.1
*LUMINARY	6.1	5.2	6.7	5.3	7.2	6.2	6.1
*NIGHTLIFE	5.6	5.0	6.6	5.3	7.3	6.3	6.0
*KINGDOM	5.3	4.9	6.5	5.2	7.2	6.2	5.9
DLFPS-AP/3059	4.9	4.6	6.2	5.0	7.0	6.0	5.6
*DECLARATION	4.8	4.6	6.2	5.1	7.0	6.1	5.6
*ARMOR	4.8	4.6	6.2	5.0	7.0	6.0	5.6
*PENN A-1	4.4	4.4	6.1	4.9	6.9	6.0	5.5
*PENNCROSS	1.5	2.7	4.5	3.6	5.8	4.9	3.8
LSD VALUE	0.8	0.8	0.8	0.8	0.8	0.8	0.8
C.V. (%)	8.5	9.8	7.6	9.4	6.9	8.0	8.3

* COMMERCIALY AVAILABLE IN THE USA IN 2020.

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

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

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

TABLE 2.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2015 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					MEAN
	VA1	KY1	KS1	AR1	IA1	
TOUR PRO (GDE)	6.4	6.8	6.1	6.2	5.5	6.2
SHARK	6.3	6.7	5.9	6.1	5.4	6.1
V-8	6.3	6.7	5.9	6.1	5.4	6.1
BARRACUDA	6.3	6.6	5.9	6.0	5.5	6.1
MACDONALD (DLFPS-AP/3018)	6.4	6.6	5.9	6.0	5.3	6.0
NIGHTLIFE	6.2	6.6	5.9	6.0	5.5	6.0
L-93 XD	6.4	6.6	5.9	6.0	5.1	6.0
777 (DLFPS-AP/3054)	6.4	6.6	5.9	6.0	5.2	6.0
DLFPS-AP/3056	6.2	6.6	5.8	6.0	5.4	6.0
KINGDOM	6.1	6.5	5.8	6.0	5.5	6.0
PIRANHA (DC-1)	6.3	6.6	5.8	5.9	5.2	6.0
DECLARATION	6.0	6.5	5.8	5.9	5.5	5.9
PURE SELECT	6.2	6.5	5.8	5.9	5.3	5.9
PURE ECLIPSE (PST-ROPS)	6.2	6.5	5.8	5.9	5.2	5.9
DLFPS-AP/3058	6.2	6.5	5.8	5.9	5.1	5.9
PENN A-1	5.9	6.4	5.7	5.9	5.5	5.9
DLFPS-AP/3059	6.0	6.4	5.7	5.8	5.4	5.9
LUMINARY	6.1	6.4	5.7	5.8	5.2	5.8
ARMOR	5.9	6.4	5.7	5.8	5.4	5.8
PENNCROSS	4.9	5.5	5.0	5.1	5.1	5.1
LSD VALUE	0.8	0.8	0.8	0.8	0.8	0.8
C.V. (%)	8.2	7.7	8.7	8.5	9.4	8.4

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

TABLE 3.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2016 DATA

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

NAME	ENTRY #	NJ1	NC1	GA3	IN1	MI1	IA1	MEAN
*PURE ECLIPSE (PST-ROPS)	17	6.1	7.6	7.2	7.6	6.8	6.8	7.0
*PIRANHA (DC-1)	16	6.5	7.6	6.1	7.2	6.7	6.8	6.8
*PURE SELECT	7	5.6	7.4	6.8	7.2	6.5	6.7	6.7
DLFPS-AP/3058	5	6.0	7.3	6.9	6.9	6.4	6.5	6.7
*L-93 XD	10	7.2	7.6	4.7	7.2	6.7	6.5	6.6
*777 (DLFPS-AP/3054)	2	6.1	7.5	5.9	7.1	6.5	6.6	6.6
*LUMINARY	1	6.0	7.1	6.8	6.7	6.3	6.4	6.6
*MACDONALD (DLFPS-AP/3018)	3	6.0	7.6	4.3	7.2	6.4	6.5	6.3
DLFPS-AP/3056	4	5.7	7.3	5.6	7.0	6.2	6.2	6.3
*SHARK	18	5.5	7.3	5.1	6.9	6.3	6.5	6.3
*V-8	14	5.7	7.5	4.3	7.1	6.3	6.5	6.2
*TOUR PRO (GDE)	15	5.9	7.6	4.1	7.0	6.3	6.5	6.2
*BARRACUDA	19	5.7	7.3	5.0	6.7	6.2	6.3	6.2
*NIGHTLIFE	13	4.4	7.0	6.0	6.8	5.6	5.6	5.9
*ARMOR	11	4.1	6.7	6.0	6.9	5.6	5.6	5.8
DLFPS-AP/3059	6	4.7	6.9	5.0	6.3	5.7	6.2	5.8
*KINGDOM	12	4.4	7.0	4.4	6.9	5.5	5.3	5.6
*PENN A-1	8	4.3	7.0	4.1	6.4	5.6	6.0	5.6
*DECLARATION	20	5.0	7.0	3.5	6.3	5.6	5.9	5.6
*PENNCROSS	9	1.2	5.3	4.8	4.8	4.0	5.2	4.2
LSD VALUE		0.7	0.7	0.7	0.7	0.7	0.7	0.7
C.V. (%)		8.5	6.3	8.5	6.7	7.5	7.3	7.4

* COMMERCIALY AVAILABLE IN THE USA IN 2020.

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

TABLE 4.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2016 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	VA1	KY1	KS1	MEAN
TOUR PRO (GDE)	6.3	6.8	6.3	6.5
MACDONALD (DLFPS-AP/3018)	6.2	6.8	6.1	6.4
V-8	6.2	6.6	6.0	6.3
BARRACUDA	5.9	6.7	6.1	6.2
PIRANHA (DC-1)	5.9	6.9	5.8	6.2
DECLARATION	5.9	6.4	6.2	6.2
PENN A-1	5.9	6.3	6.3	6.2
DLFPS-AP/3058	5.6	6.8	6.0	6.1
DLFPS-AP/3056	5.7	6.7	6.0	6.1
777 (DLFPS-AP/3054)	5.8	6.7	5.7	6.1
PURE SELECT	5.7	6.6	5.7	6.0
DLFPS-AP/3059	5.6	6.3	6.0	6.0
SHARK	5.8	6.4	5.7	6.0
L-93 XD	5.9	6.7	5.4	6.0
PURE ECLIPSE (PST-ROPS)	5.7	6.7	5.5	5.9
KINGDOM	5.5	6.3	6.1	5.9
NIGHTLIFE	5.3	6.4	6.1	5.9
LUMINARY	5.2	6.4	5.3	5.7
ARMOR	4.9	5.7	5.1	5.2
PENNCROSS	4.4	4.9	5.2	4.8
LSD VALUE	0.7	0.7	0.7	0.7
C.V. (%)	8.0	7.0	7.8	7.6

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

TABLE 5.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2016 DATA

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

NAME	MN1	MO1	MEAN
DLFPS-AP/3058	6.1	6.1	6.1
BARRACUDA	6.0	5.8	5.9
PIRANHA (DC-1)	5.9	5.9	5.9
L-93 XD	6.1	5.7	5.9
TOUR PRO (GDE)	5.9	5.7	5.8
DLFPS-AP/3056	5.7	5.7	5.7
DECLARATION	5.8	5.5	5.7
MACDONALD (DLFPS-AP/3018)	5.7	5.5	5.6
777 (DLFPS-AP/3054)	5.5	5.6	5.5
LUMINARY	5.4	5.5	5.5
NIGHTLIFE	5.0	5.4	5.2
V-8	5.2	5.2	5.2
DLFPS-AP/3059	5.1	5.2	5.1
PURE SELECT	4.8	5.3	5.1
KINGDOM	4.9	5.2	5.0
PENN A-1	4.9	5.0	4.9
PURE ECLIPSE (PST-ROPS)	4.6	5.2	4.9
SHARK	4.8	5.0	4.9
ARMOR	3.2	4.1	3.6
PENNCROSS	1.9	2.9	2.4
LSD VALUE	0.7	0.7	0.7
C.V. (%)	8.8	8.6	8.7

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TABLE 6.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 4 */
2016 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/			
NAME	OK1	UT1	MEAN
KINGDOM	6.7	7.6	7.1
NIGHTLIFE	6.7	7.3	7.0
PURE ECLIPSE (PST-ROPS)	6.7	7.0	6.8
ARMOR	6.4	6.9	6.7
DLFPS-AP/3056	6.4	6.7	6.6
MACDONALD (DLFPS-AP/3018)	6.5	6.6	6.5
PURE SELECT	6.5	6.5	6.5
777 (DLFPS-AP/3054)	6.4	6.5	6.4
PIRANHA (DC-1)	6.3	6.4	6.4
V-8	6.5	6.3	6.4
L-93 XD	6.0	6.7	6.3
DLFPS-AP/3058	6.3	6.4	6.3
TOUR PRO (GDE)	6.4	6.2	6.3
BARRACUDA	6.2	6.1	6.2
SHARK	6.3	6.0	6.2
PENN A-1	6.3	5.6	6.0
LUMINARY	5.9	6.0	6.0
DECLARATION	6.0	5.7	5.9
DLFPS-AP/3059	6.1	5.4	5.7
PENNCROSS	5.3	3.0	4.2
LSD VALUE	0.7	0.7	0.7
C.V. (%)	7.2	7.3	7.2

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TABLE 7.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							
NAME	ENTRY #	VA1	NC1	GA3	IN1	KS1	MEAN
DLFPS-AP/3058	5	7.3	8.1	7.2	7.1	7.0	7.4
*PURE SELECT	7	6.6	7.8	7.6	7.2	6.5	7.2
*PURE ECLIPSE (PST-ROPS)	17	6.5	7.9	7.6	7.2	6.4	7.1
*MACDONALD (DLFPS-AP/3018)	3	6.9	8.1	6.2	7.2	6.9	7.1
*NIGHTLIFE	13	6.5	7.8	6.8	7.2	6.6	7.0
*777 (DLFPS-AP/3054)	2	6.7	7.9	6.8	6.9	6.5	6.9
*V-8	14	6.8	7.9	6.0	6.9	6.8	6.9
DLFPS-AP/3056	4	6.7	7.8	6.8	6.7	6.3	6.9
*LUMINARY	1	6.7	7.7	6.8	6.7	6.4	6.9
*TOUR PRO (GDE)	15	7.0	7.8	6.2	6.5	6.7	6.8
*BARRACUDA	19	7.1	7.8	6.1	6.4	6.7	6.8
*PIRANHA (DC-1)	16	6.5	7.9	6.8	6.7	6.0	6.8
*SHARK	18	6.6	7.6	6.5	6.7	6.5	6.8
DLFPS-AP/3059	6	6.7	7.6	6.1	6.6	6.7	6.8
*KINGDOM	12	6.4	7.7	6.0	7.1	6.6	6.8
*PENN A-1	8	6.8	7.4	6.0	6.4	6.8	6.7
*DECLARATION	20	7.0	7.8	4.9	6.4	7.0	6.6
*L-93 XD	10	6.8	8.0	5.3	6.4	6.4	6.6
*ARMOR	11	5.8	7.2	6.9	6.9	5.9	6.6
*PENNCROSS	9	5.9	6.0	5.9	5.6	6.1	5.9
LSD VALUE		0.8	0.8	0.8	0.8	0.8	0.8
C.V. (%)		7.5	6.5	7.8	7.4	7.6	7.3

* COMMERCIALY AVAILABLE IN THE USA IN 2020.

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TABLE 8.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2017 DATA

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

NAME	KY1	MI1	IA1	UT1	MEAN
PIRANHA (DC-1)	7.5	7.6	7.8	6.7	7.4
DLFPS-AP/3058	7.5	7.3	7.6	6.1	7.1
PURE ECLIPSE (PST-ROPS)	7.2	7.1	7.2	6.8	7.1
L-93 XD	7.4	7.1	7.1	6.3	7.0
DLFPS-AP/3056	7.2	7.1	7.3	6.2	6.9
777 (DLFPS-AP/3054)	7.2	7.0	7.1	6.3	6.9
PURE SELECT	7.1	6.9	7.1	6.4	6.9
LUMINARY	7.2	7.0	7.3	6.1	6.9
BARRACUDA	7.2	7.1	7.4	5.5	6.8
MACDONALD (DLFPS-AP/3018)	7.3	6.6	6.5	6.6	6.7
TOUR PRO (GDE)	7.2	6.9	7.1	5.7	6.7
V-8	7.2	6.7	6.6	6.2	6.7
NIGHTLIFE	7.0	6.4	6.3	6.6	6.6
SHARK	6.9	6.6	6.7	5.8	6.5
DLFPS-AP/3059	6.8	6.4	6.4	5.7	6.3
DECLARATION	7.0	6.2	6.1	5.6	6.2
KINGDOM	6.8	5.9	5.6	6.4	6.2
ARMOR	6.4	5.9	5.8	6.2	6.1
PENN A-1	6.5	6.0	6.2	5.0	5.9
PENNCROSS	5.0	4.5	4.8	3.3	4.4
LSD VALUE	0.8	0.8	0.8	0.8	0.8
C.V. (%)	7.2	7.5	7.5	8.4	7.6

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

TABLE 9.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/				
NAME	NJ1	MN1	MO1	MEAN
L-93 XD	6.8	6.7	6.4	6.7
PIRANHA (DC-1)	6.3	6.1	6.2	6.2
DECLARATION	5.8	6.3	5.9	6.0
MACDONALD (DLFPS-AP/3018)	6.0	5.9	5.7	5.9
V-8	5.8	6.0	5.8	5.9
BARRACUDA	5.2	6.2	6.1	5.8
TOUR PRO (GDE)	5.3	6.1	5.9	5.8
DLFPS-AP/3058	5.0	6.0	6.0	5.7
DLFPS-AP/3056	5.3	5.7	5.7	5.6
777 (DLFPS-AP/3054)	5.4	5.7	5.7	5.6
LUMINARY	5.1	5.6	5.7	5.5
PURE ECLIPSE (PST-ROPS)	5.2	5.2	5.4	5.3
DLFPS-AP/3059	4.8	5.5	5.4	5.2
KINGDOM	5.5	5.1	5.0	5.2
NIGHTLIFE	5.3	5.1	5.1	5.2
SHARK	4.7	5.3	5.3	5.1
PURE SELECT	4.6	5.0	5.2	5.0
PENN A-1	4.0	5.2	5.1	4.7
ARMOR	4.3	4.1	4.3	4.3
PENNCROSS	0.9	3.1	3.1	2.4
LSD VALUE	0.8	0.8	0.8	0.8
C.V. (%)	9.8	9.1	9.1	9.3

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

TABLE 10.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2018 DATA

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

NAME	# ENTRY	OK1
*PENNCROSS	9	7.2
DLFPS-AP/3059	6	6.9
DLFPS-AP/3058	5	6.8
*ARMOR	11	6.8
*TOUR PRO (GDE)	15	6.8
*NIGHTLIFE	13	6.7
*PENN A-1	8	6.7
*KINGDOM	12	6.6
*SHARK	18	6.3
*BARRACUDA	19	6.2
*LUMINARY	1	6.2
*MACDONALD (DLFPS-AP/3018)	3	6.2
*V-8	14	6.0
*PURE SELECT	7	5.8
*777 (DLFPS-AP/3054)	2	5.8
*DECLARATION	20	4.9
*PIRANHA (DC-1)	16	4.6
DLFPS-AP/3056	4	4.4
*L-93 XD	10	4.0
*PURE ECLIPSE (PST-ROPS)	17	4.0
LSD VALUE		1.1
C.V. (%)		11.1

* COMMERCIALY AVAILABLE IN THE USA IN 2020.

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TABLE 11.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2018 DATA

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

NAME	# ENTRY	GA3	VA1	KS1	IA1	MEAN
DLFPS-AP/3058	5	7.4	7.5	7.1	7.1	7.3
TOUR PRO (GDE)	15	7.3	7.3	6.9	7.0	7.1
MACDONALD (DLFPS-AP/3018)	3	7.2	7.3	6.9	7.0	7.1
DLFPS-AP/3059	6	7.1	7.1	6.7	6.7	6.9
KINGDOM	12	7.1	7.1	6.7	6.8	6.9
NIGHTLIFE	13	7.1	7.1	6.7	6.7	6.9
PIRANHA (DC-1)	16	6.9	7.0	6.7	7.0	6.9
BARRACUDA	19	7.0	7.1	6.7	6.8	6.9
777 (DLFPS-AP/3054)	2	7.0	7.0	6.7	6.8	6.9
LUMINARY	1	6.9	7.0	6.6	6.7	6.8
SHARK	18	6.8	6.9	6.5	6.5	6.7
V-8	14	6.8	6.9	6.5	6.6	6.7
PURE SELECT	7	6.8	6.8	6.5	6.6	6.7
L-93 XD	10	6.6	6.6	6.4	6.7	6.6
PENN A-1	8	6.8	6.8	6.4	6.4	6.6
ARMOR	11	6.7	6.8	6.3	6.3	6.5
DLFPS-AP/3056	4	6.5	6.5	6.3	6.5	6.4
DECLARATION	20	6.4	6.5	6.2	6.3	6.4
PURE ECLIPSE (PST-ROPS)	17	6.2	6.3	6.1	6.3	6.2
PENNCROSS	9	6.0	6.0	5.5	5.3	5.7
LSD VALUE		1.1	1.1	1.1	1.1	1.1
C.V. (%)		9.6	9.6	10.1	10.0	9.8

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

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

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

TABLE 12.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2018 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/										
NAME	# ENTRY	KY1	IN1	NC1	MN1	MI1	MO1	UT1	NJ1	MEAN
PIRANHA (DC-1)	16	7.2	7.3	7.6	5.5	7.5	6.5	7.2	7.1	7.0
L-93 XD	10	6.9	7.1	7.3	5.3	7.3	6.4	7.0	7.0	6.8
MACDONALD (DLFPS-AP/3018)	3	7.1	7.2	7.4	5.2	7.1	6.1	6.7	6.1	6.6
DLFPS-AP/3058	5	7.1	7.2	7.4	5.1	7.1	6.0	6.6	5.8	6.6
777 (DLFPS-AP/3054)	2	6.9	7.0	7.2	5.0	6.9	5.9	6.5	6.0	6.4
DLFPS-AP/3056	4	6.6	6.8	7.0	4.9	6.9	5.9	6.6	6.3	6.4
TOUR PRO (GDE)	15	7.0	7.1	7.2	4.9	6.9	5.8	6.4	5.6	6.4
PURE ECLIPSE (PST-ROPS)	17	6.5	6.6	6.9	4.8	6.8	5.8	6.5	6.3	6.3
BARRACUDA	19	6.8	6.9	7.1	4.8	6.8	5.7	6.4	5.6	6.3
LUMINARY	1	6.7	6.8	7.0	4.8	6.7	5.7	6.3	5.6	6.2
KINGDOM	12	6.7	6.9	7.0	4.7	6.7	5.6	6.2	5.4	6.1
PURE SELECT	7	6.6	6.7	6.9	4.7	6.7	5.6	6.3	5.6	6.1
DECLARATION	20	6.4	6.6	6.8	4.7	6.6	5.6	6.2	5.8	6.1
V-8	14	6.6	6.7	6.9	4.7	6.6	5.6	6.2	5.5	6.1
NIGHTLIFE	13	6.7	6.8	6.9	4.7	6.6	5.5	6.1	5.3	6.1
DLFPS-AP/3059	6	6.7	6.8	6.9	4.6	6.5	5.5	6.1	5.2	6.0
SHARK	18	6.5	6.7	6.8	4.5	6.5	5.4	6.0	5.2	6.0
PENN A-1	8	6.3	6.4	6.5	4.2	6.1	5.0	5.7	4.7	5.6
ARMOR	11	6.3	6.3	6.4	4.1	6.0	5.0	5.6	4.5	5.5
PENNCROSS	9	5.1	5.2	5.2	2.7	4.6	3.5	4.1	2.6	4.1
LSD VALUE		1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.1
C.V. (%)		9.9	9.7	9.5	14.0	9.9	11.7	10.6	11.9	10.7

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

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

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

TABLE 13.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 1 **/
2019 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/							
NAME	# ENTRY	NJ1	MN1	IA1	MO1	KS1	MEAN
*PIRANHA (DC-1)	16	6.7	5.0	8.0	6.3	5.7	6.3
*L-93 XD	10	6.1	4.9	7.9	6.2	5.7	6.2
*TOUR PRO (GDE)	15	5.2	4.8	7.9	6.1	5.7	5.9
*LUMINARY	1	5.9	4.6	7.7	6.0	5.3	5.9
*DECLARATION	20	5.6	4.7	7.6	5.7	5.7	5.9
DLFPS-AP/3058	5	5.2	4.6	7.8	6.1	5.4	5.8
*MACDONALD (DLFPS-AP/3018)	3	5.9	4.4	7.6	6.0	5.0	5.8
*777 (DLFPS-AP/3054)	2	5.7	4.4	7.6	6.0	5.1	5.8
*BARRACUDA	19	5.1	4.6	7.6	5.9	5.5	5.7
DLFPS-AP/3056	4	5.5	4.1	7.1	5.4	4.8	5.4
*V-8	14	4.7	4.1	7.3	5.6	4.9	5.3
*PURE ECLIPSE (PST-ROPS)	17	5.7	3.8	7.1	5.5	4.3	5.3
DLFPS-AP/3059	6	4.2	4.0	7.2	5.5	5.0	5.2
*PURE SELECT	7	4.8	3.6	7.0	5.6	4.1	5.0
*SHARK	18	4.3	3.7	7.0	5.5	4.3	5.0
*PENN A-1	8	3.9	3.8	6.9	5.2	4.7	4.9
*KINGDOM	12	4.5	3.6	6.9	5.4	4.1	4.9
*NIGHTLIFE	13	4.4	3.3	6.8	5.5	3.8	4.8
*ARMOR	11	3.6	2.8	6.3	4.9	3.2	4.2
*PENNCROSS	9	1.5	3.0	5.7	3.7	4.6	3.7
LSD VALUE		1.0	1.0	1.0	1.0	1.0	1.0
C.V. (%)		12.8	15.4	8.7	11.2	13.0	11.8

* COMMERCIALY AVAILABLE IN THE USA IN 2020.

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

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

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

TABLE 14.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 2 */
2019 DATA

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

NAME	# ENTRY	NC1	OK1	UT1	MEAN
DLFPS-AP/3058	5	7.0	6.5	6.5	6.7
TOUR PRO (GDE)	15	7.0	6.3	6.3	6.6
DLFPS-AP/3059	6	6.4	6.4	5.8	6.4
NIGHTLIFE	13	6.4	6.4	6.6	6.4
SHARK	18	6.4	6.3	6.1	6.3
PURE SELECT	7	6.5	6.0	6.5	6.3
BARRACUDA	19	6.7	5.8	5.9	6.2
KINGDOM	12	6.3	6.0	6.2	6.2
V-8	14	6.5	5.9	5.9	6.2
PENN A-1	8	6.1	6.2	5.5	6.1
777 (DLFPS-AP/3054)	2	6.8	5.4	6.4	6.1
ARMOR	11	5.9	6.3	6.0	6.1
LUMINARY	1	6.8	5.1	6.2	6.0
L-93 XD	10	6.9	5.0	6.2	6.0
MACDONALD (DLFPS-AP/3018)	3	6.8	5.0	6.4	5.9
PIRANHA (DC-1)	16	7.0	4.2	6.2	5.6
DECLARATION	20	6.4	4.2	5.3	5.3
PURE ECLIPSE (PST-ROPS)	17	6.4	4.1	6.1	5.2
DLFPS-AP/3056	4	6.2	4.0	5.5	5.1
PENNCROSS	9	4.5	5.6	3.0	5.1
LSD VALUE		1.0	1.0	1.0	1.0
C.V. (%)		9.8	11.4	10.6	10.5

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

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

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

TABLE 15.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/
A GREEN IN THE U.S. FOR LOCATION PERFORMANCE INDEX (LPI) GROUP 3 */
2019 DATA

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

NAME	# ENTRY	GA3	IN1	MEAN
TOUR PRO (GDE)	15	7.2	7.4	7.3
DLFPS-AP/3058	5	7.2	7.3	7.3
L-93 XD	10	7.0	7.3	7.1
PIRANHA (DC-1)	16	6.9	7.2	7.1
BARRACUDA	19	6.9	7.1	7.0
LUMINARY	1	6.9	7.1	7.0
777 (DLFPS-AP/3054)	2	6.8	7.0	6.9
MACDONALD (DLFPS-AP/3018)	3	6.7	6.9	6.8
DLFPS-AP/3059	6	6.7	6.9	6.8
DECLARATION	20	6.6	6.9	6.7
V-8	14	6.7	6.8	6.7
SHARK	18	6.5	6.6	6.5
PENN A-1	8	6.4	6.6	6.5
PURE SELECT	7	6.5	6.5	6.5
KINGDOM	12	6.4	6.4	6.4
NIGHTLIFE	13	6.4	6.3	6.4
DLFPS-AP/3056	4	6.2	6.4	6.3
PURE ECLIPSE (PST-ROPS)	17	6.2	6.3	6.2
ARMOR	11	5.9	5.9	5.9
PENNCROSS	9	5.4	5.8	5.6
LSD VALUE		1.0	1.0	1.0
C.V. (%)		9.6	9.4	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 AMMI GROUP. IF YOUR STATE IS NOT REPRESENTED, THEN CHOOSE AN AMMI GROUP THAT CONTAINS A LOCATION AND MANAGEMENT SIMILAR TO YOUR PLANTING CONDITIONS. FOR MORE INFORMATION ON AMMI, GO TO WWW.NTEP.OR/AMMI_Q&A.PDF

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

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

TABLE 16.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2015-2018 DATA

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

NAME	SPRING GREENUP	PERCENT ESTABLISH- MENT	DOLLAR SPOT COUNT	QUALITY RATINGS										MEAN
				MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PURE ECLIPSE (PST-ROPS)	4.7	41.7	18.7	2.7	6.6	6.9	6.7	6.7	6.1	5.9	6.5	5.8	6.2	6.1
MACDONALD (DLFPS-AP/3018)	4.8	41.7	24.3	3.7	6.1	6.0	6.6	6.4	6.0	5.8	6.3	6.2	6.3	6.0
TOUR PRO (GDE)	4.8	48.3	10.3	2.0	5.3	6.4	5.9	5.9	5.9	6.3	6.1	6.0	5.8	5.9
PIRANHA (DC-1)	4.2	38.3	8.3	2.7	5.9	6.4	6.2	6.0	5.8	5.7	6.0	5.6	5.8	5.8
L-93 XD	4.3	36.7	24.7	4.0	6.0	6.2	6.1	5.8	5.5	5.7	5.9	5.8	5.7	5.7
777 (DLFPS-AP/3054)	4.3	40.0	7.0	3.3	5.6	6.0	5.7	5.9	5.6	6.0	5.9	5.6	5.8	5.6
BARRACUDA	4.2	45.0	40.3	2.7	5.7	6.1	5.4	5.6	5.3	5.6	5.8	5.7	5.7	5.6
DLFPS-AP/3056	3.5	40.0	16.3	2.7	5.6	6.2	5.8	5.3	5.3	5.6	5.8	5.8	5.5	5.6
KINGDOM	3.7	48.3	5.7	2.0	5.3	6.3	6.1	5.6	5.6	5.8	5.3	5.4	5.2	5.6
PURE SELECT	3.5	40.0	6.7	2.0	5.6	6.2	6.3	5.9	5.4	5.6	6.0	5.4	5.3	5.6
DLFPS-AP/3058	4.3	41.7	11.0	2.7	5.6	6.1	5.7	5.4	5.3	5.5	5.9	5.8	5.7	5.5
LUMINARY	4.3	33.3	5.7	3.3	5.7	5.9	5.8	5.6	5.1	5.6	5.7	5.3	5.7	5.4
NIGHTLIFE	3.2	43.3	10.3	2.0	4.9	6.0	5.7	5.4	5.3	5.8	5.3	5.4	5.0	5.4
DLFPS-AP/3059	3.5	43.3	21.7	2.3	5.1	5.6	5.2	5.1	5.1	5.5	5.6	5.4	5.2	5.3
SHARK	3.5	41.7	17.3	2.0	5.1	5.4	5.8	5.6	5.1	5.7	5.3	5.3	5.2	5.2
V-8	3.7	43.3	16.7	2.3	5.4	6.0	5.7	5.2	5.3	5.3	5.3	4.9	4.5	5.2
ARMOR	3.5	38.3	31.0	2.3	4.6	5.1	5.7	5.2	5.0	5.3	5.3	4.9	4.7	5.0
DECLARATION	4.0	36.7	12.0	2.7	4.4	5.4	5.0	4.8	4.9	5.0	5.1	5.1	5.0	4.9
PENN A-1	2.5	36.7	21.7	2.0	4.3	5.2	5.2	4.7	4.8	4.9	4.8	5.0	4.7	4.8
PENNCROSS	2.2	40.0	30.3	2.0	3.2	4.1	3.7	3.3	3.5	4.0	4.1	4.1	4.2	3.8
LSD VALUE	1.1	6.7	22.4	0.7	0.6	0.6	0.4	0.5	0.6	0.4	0.5	0.5	0.6	0.3
C.V. (%)	24.5	9.0	64.6	16.8	13.4	11.9	9.1	10.6	13.6	10.5	10.9	10.4	10.1	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 16.
(CONT'D)

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN UNDER TRAFFIC STRESS AT AMHERST, MA 1/
2015-2018 DATA

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

NAME	WEAR TOLERANCE RATINGS											
	SEPTEMBER	OCTOBER	NOVEMBER	MAY_2016	JUL_2016	SEP_2016	MAY_2017	JUL_2017	SEP_2017	MAY_2018	JUL_2018	OCT_2018
PURE ECLIPSE (PST-ROPS)	5.3	5.3	4.7	5.7	5.7	6.7	5.3	5.3	6.3	5.3	5.0	6.0
MACDONALD (DLFPS-AP/3018)	6.3	6.3	5.7	6.7	6.3	6.7	5.3	5.3	6.3	4.7	4.7	5.3
TOUR PRO (GDE)	6.7	6.7	6.3	6.3	5.3	5.7	5.7	5.7	6.0	4.0	3.7	5.0
PIRANHA (DC-1)	5.3	5.0	4.7	5.7	5.3	5.3	6.0	6.0	5.7	5.3	5.0	6.0
L-93 XD	4.7	5.3	5.0	5.0	5.7	6.7	6.3	6.3	4.7	4.0	4.0	5.0
777 (DLFPS-AP/3054)	5.3	5.7	5.0	5.3	5.3	5.7	6.3	6.3	5.0	4.7	5.3	6.3
BARRACUDA	5.3	6.0	5.3	5.7	6.3	5.7	5.0	5.0	4.7	4.3	4.7	5.7
DLFPS-AP/3056	6.3	5.0	5.3	6.7	6.0	6.3	5.3	5.3	5.3	5.0	4.7	4.7
KINGDOM	5.3	6.3	5.7	7.7	6.7	6.7	5.3	5.3	5.7	5.3	5.0	4.7
PURE SELECT	5.7	5.3	5.3	5.0	5.0	4.7	5.3	5.3	5.3	3.0	3.7	4.7
DLFPS-AP/3058	5.3	5.0	5.0	5.3	5.3	5.7	4.7	4.7	4.7	4.0	4.0	4.7
LUMINARY	5.0	5.0	5.3	4.7	5.0	5.7	5.7	5.7	4.7	4.0	5.0	5.3
NIGHTLIFE	5.3	6.0	6.7	7.3	6.7	5.7	5.7	5.7	5.3	4.7	4.7	4.7
DLFPS-AP/3059	5.3	6.0	6.0	6.3	5.3	5.3	5.0	5.0	5.0	4.3	4.0	4.7
SHARK	5.0	4.7	5.3	4.7	5.3	5.7	4.3	4.3	5.0	3.3	4.0	5.7
V-8	5.3	5.0	4.3	5.7	5.7	6.3	4.3	4.3	5.0	3.7	4.0	4.3
ARMOR	5.0	5.0	4.7	5.3	5.7	5.3	6.0	6.0	5.7	4.7	4.3	5.0
DECLARATION	5.0	4.7	4.7	5.3	4.3	5.0	5.0	5.0	4.3	3.7	3.3	4.3
PENN A-1	5.0	5.0	5.0	6.0	5.7	6.0	5.0	5.0	4.3	4.0	3.3	4.3
PENNCROSS	3.7	3.7	4.0	3.7	3.7	4.0	3.3	3.3	3.0	2.7	3.7	4.0
LSD VALUE	0.9	1.0	1.4	0.8	0.8	1.0	1.1	1.1	1.0	1.0	1.0	0.8
C.V. (%)	9.8	11.0	13.7	9.2	9.3	9.9	12.4	12.4	11.8	14.6	13.3	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 17.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN UNDER REDUCED IRRIGATION AT LOGAN, UT 1/
2015-19 DATA

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

NAME	QUALITY RATINGS											
	GENETIC COLOR	SPRING GREENUP	SEEDLING VIGOR	COLOR NOVEMBER	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
	6.0	7.0	.	.	6.0	6.0	6.0	6.0	7.0	5.0	6.0	6.0
PIRANHA (DC-1)	5.3	6.8	6.7	6.3	6.0	6.2	6.0	5.7	5.8	6.3	5.9	6.0
KINGDOM	8.0	5.8	5.7	4.7	6.1	6.3	6.3	5.9	5.9	6.3	5.9	5.9
MACDONALD (DLFPS-AP/3018)	5.7	6.7	7.7	6.7	5.4	6.3	6.0	5.6	5.8	6.0	6.0	5.9
PURE SELECT	4.3	5.8	6.7	5.0	5.8	6.3	6.5	5.8	5.8	5.7	5.5	5.9
DLFPS-AP/3058	5.0	6.9	6.7	6.7	5.9	5.9	6.0	6.1	5.8	6.3	6.0	5.8
PURE ECLIPSE (PST-ROPS)	6.0	6.3	7.0	6.0	6.0	5.9	6.0	5.6	5.8	5.8	5.9	5.8
TOUR PRO (GDE)	5.3	6.4	7.3	5.7	5.5	5.7	6.3	5.4	5.8	6.0	5.5	5.8
V-8	6.0	6.5	7.3	6.3	5.4	6.1	6.0	5.6	5.9	6.2	5.7	5.8
777 (DLFPS-AP/3054)	5.7	6.5	6.7	6.0	5.5	6.2	6.2	5.9	5.3	5.7	5.3	5.7
ARMOR	7.7	5.6	6.0	4.7	5.3	5.8	5.8	5.8	5.6	5.8	5.9	5.7
BARRACUDA	5.7	6.7	7.3	6.0	5.5	6.3	5.5	5.4	5.4	5.7	5.6	5.7
NIGHTLIFE	8.3	5.9	6.7	5.0	5.2	6.3	5.9	5.4	5.7	5.4	5.7	5.7
SHARK	5.0	6.3	7.3	5.3	5.4	5.4	5.8	5.2	5.3	5.2	5.2	5.4
DLFPS-AP/3059	4.7	6.3	7.3	6.3	4.5	5.8	5.1	4.7	5.5	5.2	5.3	5.3
L-93 XD	6.5	6.5	6.3	5.3	5.4	5.9	5.7	5.1	5.1	5.2	5.1	5.3
DLFPS-AP/3056	5.3	5.7	7.0	6.7	4.8	5.4	5.7	5.3	4.9	5.4	5.3	5.2
PENN A-1	7.0	5.8	7.7	4.3	4.8	5.4	5.2	4.6	5.1	5.5	4.9	5.1
DECLARATION	6.0	6.5	7.0	5.7	4.9	5.3	5.3	4.6	4.7	5.1	4.8	5.0
LUMINARY	4.7	6.2	6.7	6.3	4.4	5.1	5.6	4.7	5.1	5.3	4.8	5.0
PENNCROSS	4.7	4.8	6.7	3.7	2.5	2.5	2.9	2.6	3.5	3.2	3.1	3.1
LSD VALUE	1.2	3.8	1.3	1.3	0.7	0.8	0.6	0.6	0.8	0.8	0.7	0.4
C.V. (%)	12.7	33.7	9.1	13.5	18.5	18.2	14.8	15.2	19.9	17.6	18.3	11.3

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

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

TABLE 18.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN AT SAN FRANCISCO (CALIFORNIA GOLF CLUB OF SAN FRANCISCO), CA 1/
2015-2019 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	DENSITY RATINGS		WINTER COLOR	PINK SNOW MOLD	QUALITY RATINGS												MEAN
			SUMMER	FALL			JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PURE SELECT	6.1	5.7	7.1	7.0	7.0	6.9	6.6	6.4	6.9	6.9	7.1	7.1	7.0	6.6	6.9	6.9	6.7	7.3	6.9
L-93 XD	6.9	5.3	6.8	6.8	7.0	8.0	6.6	6.7	6.5	7.1	7.2	7.0	6.7	6.7	6.9	6.5	6.7	7.1	6.8
777 (DLFPS-AP/3054)	6.9	5.0	6.9	6.4	7.0	8.5	6.5	6.5	6.3	6.7	7.1	7.0	6.4	6.8	6.7	6.5	6.7	6.7	6.6
KINGDOM	8.3	6.0	6.3	6.5	9.0	8.1	6.4	6.0	6.6	6.5	6.7	6.3	6.5	6.3	6.5	6.5	6.5	6.9	6.5
PURE ECLIPSE (PST-ROPS)	7.0	5.0	7.1	7.0	7.0	6.7	6.0	5.7	5.9	6.4	7.0	7.1	6.3	6.3	6.9	6.5	6.7	7.3	6.5
SHARK	6.7	5.3	6.8	6.7	7.0	7.3	6.3	6.1	6.3	6.3	7.3	6.7	6.4	6.5	6.6	6.5	6.0	6.7	6.5
DLFPS-AP/3058	6.7	5.0	6.7	6.3	7.0	7.2	6.0	6.1	6.0	6.5	6.5	6.4	6.2	6.4	6.5	6.4	6.6	6.8	6.4
MACDONALD (DLFPS-AP/3018)	6.7	5.3	7.0	6.8	7.0	7.1	6.3	6.1	6.2	6.5	6.8	6.9	6.1	6.2	6.5	6.3	6.4	6.9	6.4
NIGHTLIFE	8.3	6.0	6.5	7.0	9.0	8.1	6.7	6.5	6.7	6.3	6.5	6.3	6.3	6.0	6.5	6.2	6.3	6.9	6.4
TOUR PRO (GDE)	6.9	5.3	6.6	6.7	7.0	7.9	6.4	6.1	6.3	6.7	6.7	6.2	6.0	6.0	6.7	6.0	6.0	7.0	6.4
V-8	7.3	5.0	6.7	6.8	7.7	8.1	6.0	6.0	6.1	6.3	6.8	6.7	6.7	6.0	6.7	6.4	6.7	6.6	6.4
ARMOR	8.2	5.7	6.1	6.2	8.7	8.0	6.6	6.3	6.7	6.2	6.6	6.1	6.0	5.9	6.5	5.8	6.2	6.7	6.3
BARRACUDA	6.7	5.7	6.6	6.5	7.0	8.2	6.5	6.3	6.5	6.3	6.7	6.6	6.0	6.0	6.1	6.2	6.0	6.5	6.3
PIRANHA (DC-1)	6.8	5.0	6.9	6.3	7.0	7.1	6.1	6.1	6.0	6.3	6.7	6.7	6.0	6.1	6.3	6.3	6.5	6.7	6.3
DLFPS-AP/3056	7.1	5.0	6.3	6.7	6.3	7.5	6.0	6.0	6.0	6.0	6.7	6.3	5.8	6.1	6.5	6.1	6.4	6.8	6.2
PENN A-1	7.3	5.0	6.1	6.0	7.7	7.5	6.0	5.8	6.0	6.3	6.7	6.2	6.0	5.9	6.2	6.4	6.1	6.5	6.2
LUMINARY	6.5	5.0	6.3	6.2	7.0	7.9	6.0	5.7	6.0	6.3	6.6	6.0	6.0	6.3	6.0	5.9	6.2	6.6	6.1
DLFPS-AP/3059	6.3	5.0	5.8	6.0	7.3	7.9	5.9	5.6	6.0	6.1	6.1	5.9	5.8	5.9	6.1	5.9	6.0	6.1	5.9
DECLARATION	6.9	5.0	5.9	5.8	7.3	7.8	5.9	5.4	6.0	6.1	6.1	5.3	5.5	5.8	5.7	5.4	5.2	5.9	5.7
PENNCROSS	6.0	5.0	4.3	4.4	7.3	8.2	5.2	4.4	5.0	4.9	5.4	4.3	4.3	4.9	4.7	4.3	4.7	4.4	4.7
LSD VALUE	0.4	0.6	0.3	0.3	0.7	0.6	0.3	0.3	0.3	0.3	0.5	0.3	0.3	0.3	0.4	0.5	0.3	0.4	0.1
C.V. (%)	9.1	6.5	8.1	6.4	5.7	10.9	6.6	8.9	6.3	8.2	9.8	7.7	6.9	7.4	10.4	11.5	7.8	8.2	3.7

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 19.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN AT LOS ANGELES (LOS ANGELES COUNTRY CLUB), CA 1/
2015-18 DATA

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

NAME	GENETIC COLOR	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	WINTER COLOR	Poa ANNUA	QUALITY RATINGS										MEAN		
							JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT		NOV	DEC
PURE ECLIPSE (PST-ROPS)	7.3	6.0	7.0	7.1	7.0	2.0	6.3	6.9	7.0	7.3	7.5	7.3	7.8	7.8	8.0	7.7	7.2	7.9	7.3
L-93 XD	6.8	5.7	6.9	7.0	7.0	0.7	6.0	6.4	6.8	7.1	7.4	6.7	7.4	6.9	7.4	6.9	6.6	7.3	6.9
MACDONALD (DLFPS-AP/3018)	6.8	5.7	7.0	6.9	7.0	0.7	5.9	6.5	6.7	7.2	7.3	7.0	7.2	7.0	7.4	7.0	7.1	7.4	6.9
PIRANHA (DC-1)	7.3	6.0	6.9	7.0	7.0	0.7	6.3	6.8	7.0	7.1	7.1	7.0	7.6	7.1	7.1	6.8	6.4	6.9	6.9
SHARK	7.0	6.0	6.6	7.0	7.0	0.7	6.3	6.8	6.6	7.0	7.0	6.6	7.2	6.8	7.1	6.8	6.3	6.8	6.8
777 (DLFPS-AP/3054)	7.1	6.7	6.8	6.7	7.3	4.7	6.3	6.7	6.3	6.8	6.9	6.4	6.8	6.8	7.2	7.1	6.9	7.4	6.7
DLFPS-AP/3056	7.2	6.3	6.8	6.8	7.0	2.7	6.5	6.5	6.5	6.7	7.0	6.7	7.2	6.9	6.9	6.9	6.4	6.8	6.7
LUMINARY	7.1	6.3	6.6	6.8	7.0	4.0	6.5	6.8	6.3	7.1	7.1	6.7	7.1	6.9	7.1	6.8	6.2	6.2	6.7
TOUR PRO (GDE)	7.0	6.7	6.4	6.7	7.0	4.0	6.5	6.4	6.4	6.8	7.0	6.6	7.0	6.8	7.0	6.9	6.3	7.0	6.7
DLFPS-AP/3058	7.0	6.0	6.9	6.9	7.0	2.0	6.1	6.5	6.6	6.9	7.0	6.3	6.8	6.5	7.1	6.8	6.6	7.0	6.6
V-8	7.4	6.7	6.7	6.6	7.7	3.0	6.4	6.6	6.5	6.8	6.8	6.3	6.8	6.5	6.9	6.9	6.6	7.0	6.6
BARRACUDA	7.1	6.0	6.4	6.4	7.0	4.7	6.2	6.4	6.3	6.5	6.5	6.1	6.4	6.6	6.6	6.8	6.2	6.9	6.4
PENN A-1	7.8	6.7	6.3	6.3	8.0	3.0	6.8	7.0	6.6	6.5	6.7	5.9	6.8	6.4	6.6	6.0	5.1	6.3	6.4
NIGHTLIFE	8.3	6.7	6.8	6.1	9.0	5.7	6.0	6.1	6.3	6.9	6.7	6.0	6.8	6.5	6.7	6.3	5.3	5.8	6.3
ARMOR	8.3	5.3	6.7	6.3	9.0	4.7	5.6	6.0	6.4	6.7	6.4	5.8	6.6	6.3	6.8	6.7	5.9	6.6	6.2
DECLARATION	6.5	6.0	6.4	6.0	7.0	3.7	6.1	6.5	6.2	6.3	6.5	5.7	6.3	5.9	6.3	5.9	5.8	5.9	6.1
KINGDOM	8.0	6.0	6.3	6.1	9.0	8.3	5.8	5.8	6.0	6.3	6.3	6.0	6.4	6.1	6.6	6.4	5.9	6.6	6.1
PURE SELECT	7.1	5.7	6.6	6.6	7.3	1.7	6.1	6.1	6.3	6.1	6.3	6.0	6.3	6.0	6.4	6.4	5.9	6.3	6.1
DLFPS-AP/3059	6.8	5.3	6.2	6.1	7.0	3.0	5.8	6.0	5.8	6.2	6.3	5.6	6.2	6.0	6.1	5.8	5.7	6.0	5.9
PENNCROSS	5.8	6.3	5.0	5.7	6.0	5.7	5.7	5.5	5.1	5.3	5.1	4.3	5.1	5.1	5.4	5.3	4.9	4.9	5.0
LSD VALUE	0.3	2.4	0.5	0.4	0.3	2.5	0.6	0.6	0.6	0.6	0.6	0.9	0.6	0.8	0.6	0.5	1.1	0.5	0.5
C.V. (%)	6.3	12.7	7.8	6.5	3.1	46.4	11.0	11.3	11.8	10.5	11.2	18.1	12.3	15.0	10.1	7.9	17.3	8.1	9.4

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 20.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS
GROWN ON A GREEN AT GLENVIEW (NORTH SHORE COUNTRY CLUB), IL 1/
2015-17 DATA

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

NAME	GENETIC COLOR	SPRING GREENUP	FALL COLOR OCTOBER	FALL COLOR NOVEMBER	PERCENT ESTABLISH- MENT	APR	MAY	JUN	QUALITY RATINGS				MEAN
									JUL	AUG	SEP	OCT	
TOUR PRO (GDE)	6.2	7.3	6.7	5.3	86.7	5.1	5.1	6.1	6.1	6.3	7.0	6.7	5.9
777 (DLFPS-AP/3054)	6.5	7.8	5.7	5.7	78.3	5.3	5.2	6.0	5.8	6.5	6.8	6.7	5.8
DLFPS-AP/3056	6.2	7.7	6.0	5.3	68.3	4.9	4.8	5.6	5.9	6.0	6.2	6.2	5.4
PIRANHA (DC-1)	5.8	7.5	5.7	5.3	75.0	4.6	5.1	6.0	5.4	6.2	6.7	5.8	5.4
DLFPS-AP/3059	5.8	7.7	6.0	5.7	71.7	4.8	4.4	5.7	5.7	6.3	6.0	5.7	5.3
PURE ECLIPSE (PST-ROPS)	5.5	7.8	6.0	6.3	85.0	4.8	4.6	5.2	5.8	5.8	6.3	6.2	5.3
MACDONALD (DLFPS-AP/3018)	5.8	7.7	5.3	5.7	76.7	4.7	4.4	5.2	5.6	5.8	6.2	5.8	5.2
PENN A-1	6.3	7.3	6.7	4.7	81.7	4.6	4.7	5.3	5.6	6.0	6.0	5.8	5.2
ARMOR	6.3	7.5	7.0	5.3	78.3	4.4	4.4	4.9	5.6	6.0	5.8	5.8	5.1
BARRACUDA	6.0	7.5	5.7	6.3	90.0	5.1	4.1	4.7	5.3	5.8	6.5	6.2	5.1
DLFPS-AP/3058	5.7	7.5	6.0	6.3	70.0	4.3	4.6	5.0	5.1	5.7	6.5	5.8	5.1
LUMINARY	6.0	7.7	5.3	5.3	65.0	4.4	4.4	5.1	5.7	6.0	5.8	6.0	5.1
SHARK	5.8	7.5	6.7	5.3	75.0	5.0	4.7	5.0	5.2	5.7	6.2	4.8	5.1
V-8	5.8	7.5	6.3	4.7	81.7	4.6	4.2	5.2	5.7	5.8	6.2	5.3	5.1
NIGHTLIFE	6.5	7.3	7.3	5.3	76.7	4.6	4.0	4.6	5.4	5.5	5.8	5.5	4.9
PENNCROSS	5.3	7.7	5.7	5.3	85.0	4.7	4.6	5.1	5.0	4.8	5.7	5.5	4.9
PURE SELECT	6.0	7.5	5.7	5.0	80.0	4.2	4.1	4.9	5.0	5.7	6.5	5.5	4.9
DECLARATION	5.3	7.7	5.7	5.0	75.0	4.4	3.9	4.7	5.0	4.8	5.2	4.7	4.5
KINGDOM	6.8	7.7	7.3	4.7	70.0	3.9	3.8	4.4	4.8	5.3	5.5	5.0	4.5
L-93 XD	5.5	7.7	5.3	5.3	70.0	3.9	4.0	4.1	4.7	5.5	5.3	4.7	4.4
LSD VALUE	2.3	5.6	0.9	1.5	38.0	3.5	4.2	1.8	3.0	3.8	0.9	1.6	1.4
C.V. (%)	17.2	21.8	9.0	12.1	15.9	33.0	39.7	24.9	25.9	24.4	11.8	18.1	18.8

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 21.

GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2015-19 DATA

NAME	GENETIC COLOR RATINGS 1-9; 9=DARK GREEN 2/											MEAN	
	AR1	GA3	IA1	IN1	KS1	MI1	MN1	NC1	NJ1	OK1	UT1		VA1
NIGHTLIFE	8.7	7.7	8.4	8.7	8.3	7.7	8.7	8.5	6.4	6.3	8.4	8.5	8.1
ARMOR	8.7	7.7	8.1	8.7	8.3	7.7	8.3	8.4	6.0	6.3	8.0	8.0	7.9
KINGDOM	8.3	7.4	8.3	8.5	7.3	7.7	8.5	8.4	6.3	6.8	8.3	8.3	7.9
777 (DLFPS-AP/3054)	8.0	7.4	7.3	6.9	7.1	6.3	6.1	6.9	6.6	5.8	6.3	7.0	6.7
PIRANHA (DC-1)	7.0	7.3	7.6	6.9	7.3	6.3	5.8	7.1	6.6	5.9	6.1	6.5	6.7
DLFPS-AP/3056	7.7	7.2	7.3	7.0	6.9	6.5	6.5	7.1	6.0	4.5	6.3	7.0	6.7
LUMINARY	7.3	7.2	6.9	6.7	6.9	6.3	6.3	6.9	6.7	5.8	5.8	6.7	6.6
MACDONALD (DLFPS-AP/3018)	7.3	7.1	7.1	7.0	7.1	6.3	5.6	6.9	6.3	6.0	5.8	6.3	6.6
V-8	8.0	7.1	7.1	7.7	7.0	6.4	5.5	7.0	4.9	6.0	6.3	6.3	6.5
PURE ECLIPSE (PST-ROPS)	8.0	7.3	7.4	7.3	7.1	6.3	5.2	6.9	5.3	4.4	6.3	6.3	6.5
PENN A-1	8.0	7.1	6.5	7.1	7.0	6.4	6.3	7.1	4.5	5.7	6.3	6.5	6.5
DLFPS-AP/3058	7.7	7.3	7.4	6.5	7.1	6.3	4.7	6.9	5.9	5.7	5.9	6.5	6.4
PURE SELECT	7.0	7.0	7.1	7.5	7.0	6.3	5.5	6.8	5.0	5.3	5.8	6.0	6.4
TOUR PRO (GDE)	8.0	7.3	7.0	6.7	7.0	6.3	4.9	6.9	5.9	5.3	5.9	6.5	6.4
SHARK	8.0	7.1	6.7	7.1	6.9	6.3	4.9	6.7	5.5	5.8	5.8	6.5	6.3
L-93 XD	8.0	7.0	7.0	6.3	6.8	6.2	4.6	6.9	7.0	4.5	5.6	6.5	6.3
BARRACUDA	8.0	6.8	6.7	7.0	6.9	6.3	5.3	6.8	4.8	5.8	5.3	6.3	6.2
DLFPS-AP/3059	7.3	6.8	6.8	6.6	7.7	6.3	4.9	6.9	4.4	5.8	5.8	6.5	6.2
DECLARATION	7.7	6.4	6.8	6.5	7.1	6.0	5.1	7.0	5.9	5.3	4.9	6.5	6.2
PENNCROSS	8.0	6.5	6.1	6.2	7.1	5.7	4.5	6.1	2.3	5.7	3.5	6.7	5.4
LSD VALUE	1.5	0.6	1.3	0.8	0.6	0.4	1.0	0.5	1.5	1.6	1.1	1.0	0.4
C.V. (%)	12.1	5.2	11.5	7.4	5.5	3.8	10.8	4.8	16.6	18.3	11.7	9.3	9.8

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 22.

SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2015-19 DATA

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

NAME	IN1	MI1	MN1	NC1	NJ1	UT1	MEAN
DLFPS-AP/3058	7.7	5.3	5.9	7.3	5.9	7.3	6.1
V-8	7.3	5.2	5.3	7.3	5.8	6.9	6.0
PIRANHA (DC-1)	8.0	5.7	5.0	7.4	6.6	6.9	6.0
MACDONALD (DLFPS-AP/3018)	6.7	5.8	4.9	7.3	6.3	6.9	5.9
LUMINARY	8.3	5.3	5.5	7.2	6.4	6.5	5.9
L-93 XD	6.7	5.3	6.1	7.3	6.3	6.7	5.9
777 (DLFPS-AP/3054)	6.0	5.7	5.7	7.1	5.9	6.8	5.9
DECLARATION	7.3	4.3	5.7	7.4	6.9	6.6	5.8
TOUR PRO (GDE)	6.3	5.3	5.8	7.6	6.0	6.8	5.8
BARRACUDA	7.7	4.8	5.3	7.4	6.2	6.8	5.7
SHARK	7.3	5.3	5.5	7.2	5.9	6.2	5.7
PURE ECLIPSE (PST-ROPS)	6.3	5.0	5.8	7.2	5.6	6.4	5.7
DLFPS-AP/3056	5.0	5.5	5.2	7.6	5.9	6.3	5.7
DLFPS-AP/3059	5.7	5.0	4.6	7.4	5.2	6.4	5.4
PURE SELECT	5.7	4.8	4.8	7.6	3.8	5.9	5.2
PENN A-1	7.0	3.7	4.6	7.3	4.1	5.8	5.1
KINGDOM	6.3	4.7	4.6	7.6	2.8	6.3	5.0
NIGHTLIFE	6.7	4.3	4.8	7.6	2.9	6.2	4.8
ARMOR	6.3	4.3	4.3	7.7	2.8	5.9	4.8
PENNCROSS	5.7	3.8	2.4	6.6	3.0	4.6	3.9
LSD VALUE	1.6	1.1	1.4	0.6	1.5	1.1	0.7
C.V. (%)	14.7	15.4	18.0	4.9	18.6	12.2	14.7

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 23.

LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2015-19 DATA

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

NAME	IN1	NC1	NJ1	OK1	MEAN
PURE ECLIPSE (PST-ROPS)	8.9	8.3	7.0	7.8	8.1
PURE SELECT	8.3	8.2	6.8	8.5	7.8
777 (DLFPS-AP/3054)	7.3	8.1	7.5	8.5	7.7
MACDONALD (DLFPS-AP/3018)	7.3	8.3	7.4	8.5	7.7
L-93 XD	7.3	8.2	7.7	7.2	7.7
V-8	7.9	8.1	6.7	8.3	7.6
PIRANHA (DC-1)	7.6	8.3	6.9	8.2	7.6
SHARK	7.5	8.3	6.5	8.5	7.5
TOUR PRO (GDE)	7.3	7.9	6.7	8.5	7.4
DLFPS-AP/3058	7.3	7.8	6.7	8.3	7.3
BARRACUDA	6.9	7.9	6.8	8.5	7.3
NIGHTLIFE	7.3	7.8	6.1	8.5	7.2
DLFPS-AP/3056	7.0	7.5	6.5	8.0	7.1
ARMOR	7.4	7.8	5.8	8.5	7.0
KINGDOM	7.4	7.8	5.5	8.5	7.0
DECLARATION	6.6	7.6	6.2	8.0	6.8
LUMINARY	6.5	7.5	6.1	8.0	6.8
DLFPS-AP/3059	6.4	7.3	5.9	7.8	6.6
PENN A-1	6.4	7.8	4.7	8.5	6.4
PENNCROSS	5.2	5.3	2.4	7.2	4.4
LSD VALUE	1.0	0.6	1.4	0.8	0.6
C.V. (%)	8.7	4.7	14.3	6.2	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 24.

SEEDLING VIGOR RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2014 DATA

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

NAME	AR1	MO1	NC1	NJ1	UT1	MEAN
BARRACUDA	5.3	8.7	7.3	7.0	6.0	6.9
TOUR PRO (GDE)	7.3	7.0	6.7	6.3	6.3	6.7
SHARK	7.3	7.0	6.3	7.0	6.0	6.7
777 (DLFPS-AP/3054)	6.3	7.7	6.7	6.0	6.3	6.6
NIGHTLIFE	6.7	7.7	6.3	5.7	6.7	6.6
DECLARATION	6.0	6.3	6.7	6.7	7.0	6.5
PURE SELECT	5.3	7.7	7.0	5.7	7.0	6.5
PENNCROSS	6.7	7.7	6.0	5.0	7.0	6.5
PENN A-1	6.3	7.0	6.7	5.3	6.7	6.4
DLFPS-AP/3056	5.3	7.3	6.0	6.7	6.0	6.3
V-8	5.7	7.7	6.7	4.7	6.3	6.2
DLFPS-AP/3059	4.7	6.7	6.0	6.3	6.7	6.1
DLFPS-AP/3018	4.7	7.3	7.3	4.7	6.3	6.1
KINGDOM	6.7	7.3	5.7	4.7	5.3	5.9
L-93 XD	6.0	6.0	5.3	5.3	6.7	5.9
DLFPS-AP/3058	4.7	5.7	6.0	5.7	6.7	5.7
PIRANHA (DC-1)	4.3	6.7	4.7	5.3	6.3	5.5
ARMOR	6.0	6.0	5.3	4.0	5.7	5.4
LUMINARY	3.7	5.7	5.7	5.3	6.3	5.3
PURE ECLIPSE (PST-ROPS)	4.7	5.3	4.3	3.3	5.3	4.6
LSD VALUE	3.2	1.8	1.6	1.8	1.3	0.9
C.V. (%)	34.7	15.8	16.3	20.6	13.1	20.8

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 25.

SPRING DENSITY RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2015-19 DATA

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

NAME	GA3	IN1	MN1	NC1	OK1	MEAN
PURE SELECT	7.3	8.2	6.7	7.9	6.7	7.5
PURE ECLIPSE (PST-ROPS)	7.2	8.9	7.7	7.5	6.8	7.4
PIRANHA (DC-1)	7.6	7.9	6.7	7.7	6.4	7.4
DLFPS-AP/3058	7.8	7.3	7.0	7.7	7.0	7.3
V-8	6.6	7.6	7.7	7.7	7.2	7.3
MACDONALD (DLFPS-AP/3018)	6.7	7.4	6.7	7.8	7.5	7.3
777 (DLFPS-AP/3054)	7.0	7.2	6.7	7.8	7.2	7.3
SHARK	6.3	8.1	7.3	7.5	7.7	7.2
NIGHTLIFE	7.3	7.3	6.0	7.5	6.8	7.1
TOUR PRO (GDE)	6.8	7.7	6.7	7.6	6.7	7.1
L-93 XD	6.4	7.7	7.0	7.8	6.3	7.1
BARRACUDA	6.7	6.8	6.7	7.7	7.2	7.1
KINGDOM	6.4	7.8	6.0	7.2	7.2	7.0
DLFPS-AP/3056	6.9	7.3	7.3	7.6	5.3	7.0
PENN A-1	6.3	6.7	6.0	7.6	7.0	6.9
ARMOR	6.9	7.7	6.0	7.2	7.0	6.8
LUMINARY	7.2	6.7	6.0	7.3	6.7	6.8
DLFPS-AP/3059	6.7	7.0	5.3	7.5	6.8	6.8
DECLARATION	5.7	6.4	6.7	7.5	6.8	6.7
PENNCROSS	6.4	5.6	2.3	5.5	6.0	5.6
LSD VALUE	1.1	1.2	1.0	0.9	1.7	0.8
C.V. (%)	10.3	10.0	10.1	7.5	16.2	10.6

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 26.

SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2015-19 DATA

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

NAME	GA3	IN1	MN1	NC1	OK1	MEAN
PURE SELECT	6.8	7.9	6.3	7.9	7.8	7.6
PURE ECLIPSE (PST-ROPS)	6.8	8.7	6.0	8.3	6.3	7.5
SHARK	6.5	7.5	6.3	7.9	7.8	7.4
V-8	6.3	7.7	6.7	7.9	7.6	7.4
NIGHTLIFE	6.8	7.5	6.0	7.9	7.5	7.4
ARMOR	6.6	7.7	6.0	7.7	7.7	7.4
TOUR PRO (GDE)	6.5	7.4	6.3	7.9	7.5	7.3
MACDONALD (DLFPS-AP/3018)	6.4	7.4	6.3	8.3	6.9	7.3
DLFPS-AP/3058	6.9	7.0	6.3	8.0	7.3	7.3
777 (DLFPS-AP/3054)	6.8	7.5	6.3	8.1	6.6	7.2
PIRANHA (DC-1)	6.6	7.7	6.0	8.1	6.5	7.2
KINGDOM	6.7	7.4	6.0	7.7	7.3	7.2
LUMINARY	6.7	6.9	6.0	7.9	7.3	7.1
BARRACUDA	6.3	6.8	6.0	7.9	7.3	7.0
DLFPS-AP/3056	6.8	6.9	6.3	7.9	6.4	7.0
DLFPS-AP/3059	6.3	6.9	6.0	7.8	7.0	7.0
L-93 XD	6.2	7.3	6.0	8.0	5.8	6.9
PENN A-1	6.2	6.3	5.7	7.7	7.2	6.8
DECLARATION	5.9	6.5	6.0	7.5	6.3	6.6
PENNCROSS	5.5	5.4	2.0	5.8	6.3	5.5
LSD VALUE	0.9	1.2	0.6	0.7	1.2	0.5
C.V. (%)	8.0	10.1	6.5	5.7	10.4	9.0

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 27.

FALL DENSITY RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2015-19 DATA

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

NAME	GA3	MN1	NC1	NJ1	OK1	MEAN
777 (DLFPS-AP/3054)	6.3	6.7	8.3	7.0	7.4	7.1
MACDONALD (DLFPS-AP/3018)	5.8	6.7	8.5	7.1	7.6	7.0
DLFPS-AP/3058	6.4	6.7	8.7	6.6	7.3	7.0
PIRANHA (DC-1)	6.2	6.7	8.3	7.1	6.8	6.9
L-93 XD	5.6	6.3	8.5	7.3	7.0	6.8
TOUR PRO (GDE)	5.8	6.3	8.5	6.1	7.7	6.7
PURE SELECT	6.3	5.7	8.7	5.9	7.7	6.7
PURE ECLIPSE (PST-ROPS)	6.2	6.7	8.3	6.4	6.9	6.6
SHARK	6.1	5.3	8.5	5.8	7.8	6.6
LUMINARY	6.3	5.7	8.3	5.7	7.2	6.5
DLFPS-AP/3056	6.3	5.7	8.2	5.9	7.0	6.5
V-8	5.7	6.0	8.3	5.9	7.2	6.4
NIGHTLIFE	6.0	5.3	8.0	5.4	7.6	6.3
BARRACUDA	5.9	6.0	8.5	5.3	7.2	6.3
ARMOR	6.2	4.3	8.2	5.1	7.6	6.2
DLFPS-AP/3059	6.1	4.7	8.3	5.0	7.4	6.2
KINGDOM	5.8	4.3	7.8	4.7	7.8	6.0
DECLARATION	5.5	5.7	7.5	5.6	6.6	6.0
PENN A-1	5.7	4.7	8.3	3.7	7.1	5.5
PENNCROSS	5.6	1.3	6.0	1.4	6.7	4.2
LSD VALUE	1.1	1.0	0.7	1.5	1.4	0.8
C.V. (%)	12.2	11.4	5.1	16.8	12.0	13.1

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 28.

PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2015-19 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	AR1	KY1	NC1	OK1	VA1	MEAN
TOUR PRO (GDE)	93.3	56.7	93.2	97.3	66.7	92.0
SHARK	92.3	48.3	92.1	98.2	70.0	91.7
BARRACUDA	73.0	53.3	94.1	97.2	78.3	91.5
777 (DLFPS-AP/3054)	91.0	58.3	92.2	97.1	63.3	91.4
PENN A-1	80.7	48.3	93.4	97.8	75.0	91.4
MACDONALD (DLFPS-AP/3018)	65.7	65.0	92.6	97.3	66.7	91.0
V-8	84.0	48.3	92.9	96.4	71.7	90.9
DLFPS-AP/3058	72.0	41.7	93.5	97.3	68.3	90.5
DLFPS-AP/3059	52.3	60.0	92.1	97.7	71.7	90.2
NIGHTLIFE	73.7	51.7	91.5	97.1	63.3	89.8
LUMINARY	66.0	51.7	91.9	95.8	68.3	89.5
PURE SELECT	50.0	46.7	93.2	96.5	75.0	89.4
KINGDOM	69.0	43.3	90.1	97.3	68.3	89.0
DECLARATION	81.0	43.3	92.1	94.0	65.0	88.8
ARMOR	66.0	36.7	88.8	97.6	60.0	88.1
PIRANHA (DC-1)	60.0	48.3	91.1	89.9	71.7	86.6
PENNCROSS	92.7	53.3	80.3	97.2	70.0	85.1
PURE ECLIPSE (PST-ROPS)	71.7	48.3	90.9	84.9	68.3	85.0
L-93 XD	83.3	38.3	93.2	78.8	61.7	83.1
DLFPS-AP/3056	79.0	43.3	92.3	77.3	65.0	82.2
LSD VALUE	41.0	12.7	6.1	13.8	12.6	8.8
C.V. (%)	34.1	16.1	4.3	9.2	11.5	10.2

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 29.

PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2015-19 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	AR1	KY1	NC1	OK1	MEAN
TOUR PRO (GDE)	99.0	76.7	99.0	98.6	97.3
SHARK	96.3	73.3	99.0	98.8	97.0
PENN A-1	97.7	73.3	99.0	98.6	97.0
V-8	98.3	70.0	99.0	98.6	96.9
NIGHTLIFE	94.0	70.0	99.0	98.9	96.7
BARRACUDA	98.0	71.7	99.0	98.1	96.4
ARMOR	96.0	60.0	99.0	98.5	96.0
KINGDOM	92.0	65.0	99.0	98.7	96.0
777 (DLFPS-AP/3054)	97.7	71.7	99.0	96.1	95.8
DLFPS-AP/3058	77.7	65.0	99.0	98.8	95.2
PURE SELECT	76.0	65.0	99.0	98.9	95.2
L-93 XD	99.0	66.7	99.0	94.7	94.9
LUMINARY	73.0	70.0	99.0	98.1	94.9
MACDONALD (DLFPS-AP/3018)	77.7	80.0	99.0	95.5	94.2
DLFPS-AP/3059	53.7	71.7	99.0	98.8	94.0
PENNCROSS	96.7	71.7	91.9	98.1	93.9
DECLARATION	93.7	65.0	99.0	92.9	93.7
PIRANHA (DC-1)	68.3	75.0	99.0	91.0	92.1
PURE ECLIPSE (PST-ROPS)	93.3	70.0	99.0	88.5	92.1
DLFPS-AP/3056	97.7	63.3	99.0	86.3	89.7
LSD VALUE	38.1	9.0	1.9	10.0	7.9
C.V. (%)	26.6	8.0	1.2	6.7	7.7

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

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

TABLE 30.

PERCENT LIVING GROUND COVER (FALL) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2015-19 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	NC1	NJ1	OK1	MEAN
SHARK	99.0	81.7	97.0	96.2
PURE SELECT	99.0	81.7	96.4	96.0
DLFPS-AP/3059	99.0	71.7	98.1	95.7
BARRACUDA	99.0	83.3	95.6	95.4
PENN A-1	99.0	66.7	98.3	95.3
TOUR PRO (GDE)	99.0	75.0	96.4	95.3
DLFPS-AP/3058	99.0	68.3	97.3	94.7
NIGHTLIFE	99.0	73.3	95.8	94.3
ARMOR	99.0	53.3	96.8	93.3
KINGDOM	99.0	55.0	96.1	93.0
V-8	98.6	63.3	94.7	92.7
PENNCROSS	94.9	66.7	96.4	92.7
777 (DLFPS-AP/3054)	99.0	80.0	91.0	92.3
MACDONALD (DLFPS-AP/3018)	99.0	66.7	91.1	90.8
LUMINARY	99.0	66.7	88.6	88.3
L-93 XD	99.0	73.3	75.2	83.6
DECLARATION	99.0	78.3	73.4	79.7
PIRANHA (DC-1)	99.0	65.0	70.3	77.5
DLFPS-AP/3056	99.0	83.3	63.2	74.3
PURE ECLIPSE (PST-ROPS)	99.0	55.0	57.4	68.4
LSD VALUE	1.5	18.0	25.0	18.8
C.V. (%)	0.9	15.9	18.3	14.9

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 31.

WINTER COLOR RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2015-19 DATA

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

NAME	GA3	IN1	NC1	OK1	MEAN
LUMINARY	6.8	9.0	6.7	6.0	6.5
TOUR PRO (GDE)	6.7	7.7	6.3	6.1	6.5
777 (DLFPS-AP/3054)	6.8	7.3	6.5	5.8	6.4
MACDONALD (DLFPS-AP/3018)	6.6	7.7	6.8	6.0	6.4
PIRANHA (DC-1)	6.7	8.3	6.3	6.0	6.4
DLFPS-AP/3058	7.0	7.3	6.5	5.8	6.4
BARRACUDA	6.4	7.3	6.3	6.6	6.4
DLFPS-AP/3056	6.3	7.3	6.3	6.4	6.3
PURE ECLIPSE (PST-ROPS)	6.9	7.7	6.3	5.7	6.3
SHARK	6.4	8.0	5.8	6.0	6.2
DLFPS-AP/3059	6.4	6.7	6.0	6.0	6.1
ARMOR	6.9	5.0	5.8	5.7	6.1
PURE SELECT	6.6	8.0	6.2	5.6	6.1
V-8	6.3	7.3	5.5	5.9	6.1
DECLARATION	5.7	8.3	6.2	6.0	6.0
L-93 XD	6.2	6.7	6.2	5.4	6.0
NIGHTLIFE	7.0	4.7	5.8	5.6	6.0
PENN A-1	6.4	5.3	5.3	5.6	5.9
KINGDOM	6.3	5.7	5.2	5.3	5.6
PENNCROSS	6.0	6.3	4.8	5.3	5.5
LSD VALUE	1.0	1.4	0.9	0.7	0.6
C.V. (%)	9.7	12.4	9.0	7.3	8.9

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 32.

DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2015-19 DATA

NAME	DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/											
	GA3	IA1	IN1	KS1	KY1	MI1	MN1	MO1	NC1	NJ1	VA1	MEAN
L-93 XD	8.2	9.0	8.3	8.5	8.3	8.8	6.8	8.7	8.4	7.0	4.7	8.1
TOUR PRO (GDE)	8.7	8.8	8.7	8.4	8.0	8.9	6.7	8.9	7.4	7.5	4.7	8.0
DECLARATION	8.3	9.0	8.6	8.3	9.0	8.9	7.0	9.0	6.9	8.2	4.8	8.0
DLFPS-AP/3058	8.7	9.0	8.4	8.4	8.3	8.9	5.6	8.7	7.7	6.8	4.7	7.9
LUMINARY	8.0	8.7	8.3	8.3	8.3	8.3	6.2	8.5	7.7	6.7	4.2	7.7
BARRACUDA	8.3	9.0	8.2	7.9	7.7	8.4	6.4	7.9	7.8	6.7	4.8	7.7
PIRANHA (DC-1)	8.2	8.7	8.2	7.9	8.3	8.3	5.8	8.3	8.0	6.7	4.5	7.6
MACDONALD (DLFPS-AP/3018)	7.8	8.8	8.0	8.3	8.0	8.1	4.9	7.9	8.3	5.8	4.3	7.5
V-8	8.0	8.8	8.2	7.9	7.7	8.4	4.7	8.6	7.4	7.0	4.7	7.5
PENN A-1	8.2	8.8	8.3	7.8	6.7	8.2	5.6	8.1	7.0	6.5	4.3	7.5
DLFPS-AP/3059	8.6	9.0	8.3	7.2	7.0	7.9	5.2	7.8	7.1	6.7	5.2	7.3
777 (DLFPS-AP/3054)	8.0	8.8	8.0	7.3	7.3	7.6	4.8	6.5	8.0	5.5	4.8	7.1
DLFPS-AP/3056	8.1	8.7	7.6	7.7	8.0	8.0	4.6	7.4	7.0	5.7	3.8	7.1
PENNCROSS	7.8	8.7	7.3	7.5	7.7	7.2	5.6	7.3	6.1	6.8	4.2	7.0
SHARK	8.0	8.3	7.0	6.8	3.3	7.1	3.7	7.2	6.9	5.0	3.8	6.6
PURE ECLIPSE (PST-ROPS)	7.8	7.8	6.2	7.5	5.0	7.3	3.6	6.5	7.6	4.3	3.5	6.5
KINGDOM	7.2	8.0	7.3	7.5	7.0	6.9	3.1	6.9	6.0	4.7	5.0	6.5
PURE SELECT	7.3	8.3	6.2	6.5	6.0	7.4	3.6	7.2	6.9	5.0	4.2	6.5
NIGHTLIFE	8.0	8.5	6.6	6.3	6.7	7.3	3.9	6.2	5.9	4.8	3.3	6.2
ARMOR	6.8	6.2	4.9	3.9	2.3	5.0	2.2	3.9	5.4	3.5	4.8	4.6
LSD VALUE	0.9	0.9	1.4	1.3	1.0	1.2	1.9	1.8	1.5	1.2	1.7	0.6
C.V. (%)	7.1	6.2	11.2	11.4	9.0	9.2	23.9	15.0	13.6	12.8	23.6	12.7

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 33.

BROWN PATCH (WARM TEMPERATURE) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2015-19 DATA

NAME	BROWN PATCH RATINGS 1-9; 9=NO DISEASE 2/						MEAN
	GA3	IN1	KS1	KY1	MO1	NJ1	
PIRANHA (DC-1)	8.0	8.0	8.3	6.0	7.9	7.7	7.9
PURE ECLIPSE (PST-ROPS)	7.9	7.7	7.3	6.7	8.1	7.7	7.8
BARRACUDA	7.9	7.3	8.7	5.7	7.3	6.8	7.6
LUMINARY	8.1	7.7	6.3	6.7	7.1	8.3	7.5
777 (DLFPS-AP/3054)	8.3	7.7	5.7	6.0	8.0	6.2	7.5
TOUR PRO (GDE)	8.1	8.0	8.0	5.7	6.3	7.2	7.4
PENNCROSS	7.3	6.7	8.3	7.0	7.8	5.2	7.4
KINGDOM	7.6	4.7	8.0	6.7	7.8	6.8	7.4
DLFPS-AP/3056	7.9	6.3	8.0	5.0	7.1	6.2	7.4
DLFPS-AP/3058	8.4	8.0	7.3	5.0	6.7	5.8	7.4
SHARK	7.6	8.0	8.3	4.7	6.3	7.5	7.3
ARMOR	7.2	7.3	6.7	5.7	7.4	7.3	7.2
MACDONALD (DLFPS-AP/3018)	8.0	8.0	8.3	4.7	6.0	6.7	7.2
NIGHTLIFE	7.3	6.7	7.0	5.3	7.4	7.0	7.2
PURE SELECT	7.6	6.7	6.7	6.7	7.4	6.5	7.2
V-8	7.8	8.0	8.3	4.0	6.3	6.2	7.2
DLFPS-AP/3059	7.9	8.0	6.0	4.7	6.6	6.2	7.0
DECLARATION	7.6	8.0	6.7	5.0	5.9	6.3	6.9
L-93 XD	8.0	7.7	8.3	4.3	5.8	5.7	6.9
PENN A-1	7.8	7.0	5.7	3.7	4.1	5.8	6.1
LSD VALUE	1.0	2.5	2.6	1.8	3.0	2.2	1.4
C.V. (%)	7.9	20.7	22.2	20.7	27.5	20.5	18.3

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

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

TABLE 34.

ANTHRACNOSE RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2015-2017 DATA

ANTHRACNOSE RATINGS 1-9; 9=NO DISEASE 2/ 3/			
NAME	NC1	NJ1	MEAN
MACDONALD (DLFPS-AP/3018)	7.7	7.8	7.6
L-93 XD	6.7	8.2	7.3
LUMINARY	6.8	7.8	7.3
PIRANHA (DC-1)	6.3	8.2	7.2
777 (DLFPS-AP/3054)	6.0	8.3	7.1
DLFPS-AP/3058	7.2	6.8	6.8
PURE ECLIPSE (PST-ROPS)	5.8	7.5	6.6
V-8	6.7	6.7	6.6
ARMOR	5.8	7.0	6.4
NIGHTLIFE	5.5	6.5	6.4
DLFPS-AP/3059	6.3	6.2	6.3
KINGDOM	6.2	5.5	6.2
SHARK	5.8	7.0	6.2
DLFPS-AP/3056	4.7	7.2	6.1
BARRACUDA	5.8	6.7	6.0
TOUR PRO (GDE)	6.2	6.2	6.0
DECLARATION	6.0	5.0	5.9
PURE SELECT	3.8	7.7	5.6
PENN A-1	5.8	3.8	5.1
PENNCROSS	5.7	1.2	3.4
LSD VALUE	1.8	2.1	1.9
C.V. (%)	18.5	20.6	20.4

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

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

3/ ANTHRACNOSE RATED AT "NC1" IN 2015 AND 2016 ANTHRACNOSE RATED AT "NJ1" IN 2016 AND 2017.

TABLE 35.

BROWN PATCH (COOL TEMPERATURE) RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A GREEN
 2018 DATA

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

NAME	GA3
777 (DLFPS-AP/3054)	9.0
ARMOR	9.0
BARRACUDA	9.0
DECLARATION	9.0
MACDONALD (DLFPS-AP/3018)	9.0
DLFPS-AP/3056	9.0
DLFPS-AP/3058	9.0
DLFPS-AP/3059	9.0
KINGDOM	9.0
L-93 XD	9.0
LUMINARY	9.0
PENN A-1	9.0
PENNCROSS	9.0
TOUR PRO (GDE)	9.0
V-8	9.0
PIRANHA (DC-1)	8.7
NIGHTLIFE	8.3
SHARK	8.3
PURE SELECT	7.0
PURE ECLIPSE (PST-ROPS)	6.7
LSD VALUE	1.2
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 36.

FAIRY RING RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2019 DATA

FAIRY RING RATINGS 1-9; 9=NO DISEASE 2/

NAME	MO1
777 (DLFPS-AP/3054)	9.0
ARMOR	9.0
DECLARATION	9.0
DLFPS-AP/3058	9.0
KINGDOM	9.0
L-93 XD	9.0
PENNCROSS	9.0
BARRACUDA	8.7
DLFPS-AP/3059	8.7
MACDONALD (DLFPS-AP/3018)	8.7
NIGHTLIFE	8.7
PIRANHA (DC-1)	8.7
SHARK	8.7
V-8	8.7
DLFPS-AP/3056	8.3
LUMINARY	8.3
PENN A-1	8.3
PURE ECLIPSE (PST-ROPS)	8.3
PURE SELECT	8.3
TOUR PRO (GDE)	8.0
LSD VALUE	1.0
C.V. (%)	6.8

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

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

TABLE 37.

PINK SNOW MOLD RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A GREEN
 2015 DATA

PINK SNOW MOLD RATINGS 1-9; 9=NO DISEASE 2/

NAME	MOI
DECLARATION	9.0
DLFPS-AP/3018	8.3
KINGDOM	8.3
777 (DLFPS-AP/3054)	8.0
ARMOR	8.0
BARRACUDA	8.0
TOUR PRO (GDE)	8.0
V-8	8.0
PENNCROSS	7.7
PURE ECLIPSE (PST-ROPS)	7.7
SHARK	7.7
NIGHTLIFE	7.3
PIRANHA (DC-1)	7.3
DLFPS-AP/3056	7.0
DLFPS-AP/3058	6.7
DLFPS-AP/3059	6.7
PURE SELECT	6.0
L-93 XD	5.7
PENN A-1	5.0
LUMINARY	3.7
LSD VALUE	2.4
C.V. (%)	20.5

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 38.

FALL COLOR (SEPTEMBER) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2017-18 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	GA3	MI1	OK1	MEAN
ARMOR	7.8	7.0	8.0	7.7
KINGDOM	7.3	7.3	8.0	7.3
777 (DLFPS-AP/3054)	7.3	6.7	7.3	7.1
NIGHTLIFE	7.2	7.7	8.0	7.1
LUMINARY	7.0	7.0	6.3	6.9
MACDONALD (DLFPS-AP/3018)	6.8	7.0	7.0	6.8
PIRANHA (DC-1)	7.3	7.0	6.0	6.8
V-8	6.7	7.0	6.0	6.6
PENN A-1	7.0	7.0	6.0	6.6
TOUR PRO (GDE)	7.0	6.3	6.3	6.6
DLFPS-AP/3058	7.0	6.0	5.7	6.5
DLFPS-AP/3056	6.8	6.7	5.7	6.4
PURE SELECT	6.7	7.0	5.7	6.4
PENNCROSS	7.0	6.0	5.7	6.4
DECLARATION	6.5	6.0	6.5	6.4
DLFPS-AP/3059	6.7	6.3	6.3	6.3
PURE ECLIPSE (PST-ROPS)	6.5	7.0	6.0	6.3
BARRACUDA	6.7	5.7	6.3	6.3
L-93 XD	6.5	6.0	6.0	6.3
SHARK	6.5	6.7	6.0	6.2
LSD VALUE	0.9	0.8	1.8	0.9
C.V. (%)	8.6	7.2	17.0	10.4

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ FALL COLOR (SEPTEMBER) RATED IN "GA3" DURING 2017-18, "MI1" AND "OK1" RATED IN 2018.

TABLE 39.

FALL COLOR (OCTOBER) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2017-18 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	GA3	MI1	OK1	MEAN
777 (DLFPS-AP/3054)	7.5	8.7	7.3	7.8
DLFPS-AP/3058	7.2	8.3	7.0	7.5
LUMINARY	7.2	8.0	7.3	7.5
PIRANHA (DC-1)	7.0	9.0	8.0	7.5
TOUR PRO (GDE)	7.2	9.0	7.0	7.4
V-8	7.0	9.0	6.7	7.4
KINGDOM	7.5	6.7	7.3	7.3
SHARK	7.0	8.7	7.7	7.2
BARRACUDA	6.8	9.0	6.7	7.1
MACDONALD (DLFPS-AP/3018)	6.7	9.0	7.0	7.1
ARMOR	7.3	6.7	7.3	7.1
PURE ECLIPSE (PST-ROPS)	6.7	9.0	7.5	7.1
DLFPS-AP/3059	6.8	9.0	7.0	7.1
NIGHTLIFE	6.8	7.0	7.7	6.9
PURE SELECT	6.5	8.7	6.7	6.8
L-93 XD	6.7	8.7	6.0	6.8
DECLARATION	6.7	8.0	6.5	6.8
DLFPS-AP/3056	6.5	9.0	6.3	6.7
PENN A-1	6.8	7.0	7.0	6.7
PENNCROSS	6.3	5.7	6.0	5.9
LSD VALUE	1.1	0.9	1.0	0.9
C.V. (%)	10.1	6.5	8.7	9.8

- 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.
- 3/ FALL COLOR (OCTOBER) RATED IN "GA3" DURING 2017-18, "MI1" AND "OK1" RATED IN 2018

TABLE 40.

FALL COLOR (NOVEMBER) RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2017-18 DATA

FALL COLOR RATINGS 1-9; 9=COMPLETE COLOR RETENTION 2/ 3/

NAME	GA3	MI1	OK1	UT1	MEAN
MACDONALD (DLFPS-AP/3018)	6.5	8.0	8.0	7.3	7.4
PIRANHA (DC-1)	7.2	8.0	7.5	6.3	7.4
TOUR PRO (GDE)	7.0	8.0	7.3	5.7	7.2
PURE ECLIPSE (PST-ROPS)	7.0	8.0	6.7	6.0	7.1
777 (DLFPS-AP/3054)	7.0	7.3	8.0	6.0	7.1
DLFPS-AP/3056	6.5	8.0	6.7	6.7	7.1
DLFPS-AP/3058	6.7	7.3	7.3	6.3	6.9
BARRACUDA	6.5	7.7	6.7	6.3	6.9
DLFPS-AP/3059	6.2	7.7	7.7	6.0	6.9
V-8	6.8	7.3	7.0	6.0	6.9
LUMINARY	6.8	7.0	7.7	5.7	6.8
L-93 XD	7.0	7.3	6.7	5.3	6.8
ARMOR	7.2	7.0	8.0	4.0	6.7
SHARK	6.7	7.0	7.3	5.7	6.7
NIGHTLIFE	6.5	7.3	7.7	4.7	6.7
PURE SELECT	6.5	6.7	7.7	6.0	6.7
KINGDOM	6.3	7.0	7.3	4.3	6.4
PENN A-1	6.8	6.3	7.3	4.7	6.4
DECLARATION	5.7	7.0	7.0	5.7	6.3
PENNCROSS	6.2	4.3	7.3	4.0	5.4
LSD VALUE	1.1	0.8	1.5	1.1	0.8
C.V. (%)	10.0	7.2	12.3	12.1	9.8

- 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.
- 3/ FALL COLOR (NOVEMBER) RATED IN "GA3" DURING 2017-18. "MI1" AND "UT1" RATED IN 2017. "OK1" RATED IN 2018.

TABLE 41.

FALL COLOR (DECEMBER) RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A GREEN
 2017-18 DATA

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

NAME	GA3
PURE ECLIPSE (PST-ROPS)	7.2
777 (DLFPS-AP/3054)	7.0
PIRANHA (DC-1)	7.0
TOUR PRO (GDE)	7.0
ARMOR	6.8
LUMINARY	6.8
MACDONALD (DLFPS-AP/3018)	6.8
PENN A-1	6.8
NIGHTLIFE	6.8
PURE SELECT	6.7
V-8	6.7
DLFPS-AP/3058	6.7
L-93 XD	6.7
BARRACUDA	6.5
DLFPS-AP/3056	6.5
SHARK	6.5
KINGDOM	6.3
DLFPS-AP/3059	6.3
DECLARATION	6.2
PENNCROSS	6.2
LSD VALUE	0.8
C.V. (%)	7.9

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 42.

Poa ANNUA RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A GREEN
 2017-18 DATA

Poa ANNUA RATINGS 1-9; 9=NONE 2/

NAME	OK1
KINGDOM	8.0
MACDONALD (DLFPS-AP/3018)	8.0
DLFPS-AP/3058	7.8
777 (DLFPS-AP/3054)	7.7
DLFPS-AP/3059	7.7
ARMOR	7.5
NIGHTLIFE	7.5
PIRANHA (DC-1)	7.5
PURE SELECT	7.3
SHARK	7.3
LUMINARY	7.2
PENN A-1	7.2
BARRACUDA	7.0
DLFPS-AP/3056	7.0
TOUR PRO (GDE)	7.0
DECLARATION	6.8
L-93 XD	6.8
PURE ECLIPSE (PST-ROPS)	6.7
V-8	6.7
PENNCROSS	6.3
LSD VALUE	1.9
C.V. (%)	16.3

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 43.

PERCENT ESTABLISHMENT RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN 2/
2015 DATA

NAME	KY1	MI1	MO1	MEAN
DLFPS-AP/3018	40.0	64.3	95.7	66.7
777 (DLFPS-AP/3054)	38.3	56.7	97.7	64.2
PURE SELECT	33.3	58.3	97.0	62.9
SHARK	40.0	49.0	98.3	62.4
V-8	35.0	53.3	98.3	62.2
DLFPS-AP/3056	33.3	54.3	98.3	62.0
BARRACUDA	38.3	48.3	98.3	61.7
DLFPS-AP/3059	40.0	49.3	95.7	61.7
DECLARATION	36.7	47.3	97.7	60.6
TOUR PRO (GDE)	38.3	43.3	97.7	59.8
KINGDOM	31.7	50.0	97.0	59.6
PENNCROSS	35.0	44.3	99.0	59.4
PENN A-1	38.3	40.0	97.3	58.6
PURE ECLIPSE (PST-ROPS)	33.3	44.3	96.0	57.9
NIGHTLIFE	31.7	42.7	99.0	57.8
L-93 XD	30.0	45.0	97.7	57.6
ARMOR	33.3	41.0	97.3	57.2
PIRANHA (DC-1)	35.0	40.0	96.0	57.0
LUMINARY	33.3	35.0	97.3	55.2
DLFPS-AP/3058	33.3	28.7	94.3	52.1
LSD VALUE	7.7	20.7	4.1	7.5
C.V. (%)	13.5	27.5	2.6	13.5

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 44.

PERCENT ESTABLISHMENT RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN AT ST. PAUL, MN 2/
2015 DATA

NAME	OCTOBER 2014	APRIL 2015	MEAN
DLFPS-AP/3056	7.0	6.3	6.7
SHARK	7.0	6.3	6.7
V-8	6.7	6.7	6.7
MACDONALD (DLFPS-AP/3018)	6.7	6.3	6.5
TOUR PRO (GDE)	6.3	6.7	6.5
KINGDOM	6.3	6.7	6.5
PURE SELECT	6.7	6.3	6.5
777 (DLFPS-AP/3054)	6.3	6.3	6.3
BARRACUDA	6.7	6.0	6.3
DECLARATION	6.3	6.3	6.3
NIGHTLIFE	6.3	6.3	6.3
DLFPS-AP/3058	6.0	6.3	6.2
PENNCROSS	6.0	6.0	6.0
PENN A-1	5.3	6.3	5.8
DLFPS-AP/3059	5.3	5.7	5.5
L-93 XD	5.3	5.3	5.3
LUMINARY	5.0	5.3	5.2
ARMOR	4.7	5.0	4.8
PIRANHA (DC-1)	4.7	5.0	4.8
PURE ECLIPSE (PST-ROPS)	3.7	4.7	4.2
LSD VALUE	1.7	1.5	1.4
C.V. (%)	15.2	12.1	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 45.

PERCENT ESTABLISHMENT RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN AT RALEIGH, NC 2/
2015 DATA

NAME	NOVEMBER 2014	DECEMBER 2014	JANUARY 2015	FEBRUARY 2015	MEAN
BARRACUDA	65.0	85.0	90.0	91.7	82.9
TOUR PRO (GDE)	60.0	76.7	85.0	86.7	77.1
PURE SELECT	63.3	76.7	81.7	86.7	77.1
PENNCROSS	51.7	78.3	86.7	90.0	76.7
PENN A-1	51.7	75.0	83.3	90.0	75.0
DECLARATION	55.0	73.3	80.0	85.0	73.3
MACDONALD (DLFPS-AP/3018)	58.3	73.3	78.3	81.7	72.9
DLFPS-AP/3056	55.0	73.3	78.3	81.7	72.1
DLFPS-AP/3058	50.0	73.3	80.0	83.3	71.7
V-8	53.3	73.3	78.3	81.7	71.7
DLFPS-AP/3059	51.7	73.3	78.3	81.7	71.3
777 (DLFPS-AP/3054)	53.3	73.3	76.7	80.0	70.8
NIGHTLIFE	51.7	70.0	76.7	81.7	70.0
SHARK	46.7	70.0	76.7	81.7	68.8
KINGDOM	43.3	70.0	75.0	78.3	66.7
L-93 XD	43.3	66.7	75.0	80.0	66.3
LUMINARY	46.7	66.7	73.3	78.3	66.3
PURE ECLIPSE (PST-ROPS)	33.3	63.3	70.0	75.0	60.4
PIRANHA (DC-1)	38.3	60.0	66.7	75.0	60.0
ARMOR	38.3	61.7	65.0	66.7	57.9
LSD VALUE	15.4	14.3	11.0	12.4	11.0
C.V. (%)	16.4	9.6	7.8	7.7	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 46.

PERCENT ESTABLISHMENT RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN AT STILLWATER, OK 2/
2015 DATA

NAME	3-WEEKS	4-WEEKS	5-WEEKS	MEAN
LUMINARY	31.7	50.0	55.0	45.6
SHARK	30.0	45.0	55.0	43.3
BARRACUDA	31.7	45.0	51.7	42.8
NIGHTLIFE	30.0	46.7	51.7	42.8
V-8	30.0	45.0	50.0	41.7
DLFPS-AP/3056	25.0	38.3	53.3	38.9
777 (DLFPS-AP/3054)	26.7	38.3	48.3	37.8
PENNCROSS	28.3	40.0	45.0	37.8
TOUR PRO (GDE)	25.0	40.0	46.7	37.2
ARMOR	25.0	36.7	43.3	35.0
PENN A-1	25.0	36.7	43.3	35.0
KINGDOM	23.3	33.3	41.7	32.8
DLFPS-AP/3058	21.0	33.3	41.7	32.0
PURE SELECT	21.0	31.7	41.7	31.4
PURE ECLIPSE (PST-ROPS)	20.0	33.3	38.3	30.6
MACDONALD (DLFPS-AP/3018)	16.0	28.3	35.0	26.4
DLFPS-AP/3059	15.0	28.3	35.0	26.1
DECLARATION	14.3	25.0	36.7	25.3
PIRANHA (DC-1)	10.0	25.0	40.0	25.0
L-93 XD	6.0	11.7	23.3	13.7
LSD VALUE	15.6	23.3	21.9	18.7
C.V. (%)	35.0	30.8	22.7	26.8

- 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 47.

COPPER SPOT RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN
2016-17 DATA

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

NAME	MO1
PENNCROSS	8.2
ARMOR	7.7
PIRANHA (DC-1)	7.3
PENN A-1	7.2
777 (DLFPS-AP/3054)	7.0
KINGDOM	6.7
TOUR PRO (GDE)	6.7
DLFPS-AP/3056	6.5
DLFPS-AP/3058	6.5
BARRACUDA	6.3
MACDONALD (DLFPS-AP/3018)	6.3
V-8	6.3
DLFPS-AP/3059	6.2
L-93 XD	6.0
NIGHTLIFE	6.0
PURE ECLIPSE (PST-ROPS)	6.0
SHARK	5.7
LUMINARY	5.3
PURE SELECT	5.0
DECLARATION	4.7
LSD VALUE	2.9
C.V. (%)	29.3

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 48.

DOLLAR SPOT COUNTS OF BENTGRASS CULTIVARS
GROWN ON A GREEN AT WEST LAFAYETTE, IN 1/
2016 DATA

DOLLAR SPOT COUNTS PER PLOT 2/

NAME	JUNE	AUGUST	MEAN
ARMOR	36.7	8.3	22.5
SHARK	14.0	5.3	9.7
NIGHTLIFE	10.0	6.3	8.2
PURE ECLIPSE (PST-ROPS)	7.7	5.3	6.5
KINGDOM	9.3	3.3	6.3
PURE SELECT	9.0	2.7	5.8
V-8	7.3	4.3	5.8
777 (DLFPS-AP/3054)	3.3	5.7	4.5
PENN A-1	8.3	0.3	4.3
LUMINARY	3.7	3.3	3.5
DLFPS-AP/3059	4.3	2.3	3.3
L-93 XD	0.3	6.3	3.3
PENNCROSS	5.7	0.7	3.2
DLFPS-AP/3056	4.7	1.0	2.8
BARRACUDA	2.3	3.0	2.7
MACDONALD (DLFPS-AP/3018)	1.7	3.7	2.7
PIRANHA (DC-1)	1.0	3.7	2.3
DLFPS-AP/3058	1.7	2.7	2.2
TOUR PRO (GDE)	1.0	2.0	1.5
DECLARATION	1.3	0.7	1.0
LSD VALUE	8.4	6.1	3.6
C.V. (%)	78.7	77.0	45.3

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 49.

PERCENT DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS 1/
GROWN ON A GREEN AT ST. PAUL, MN 2/
2015 DATA

NAME	SEP 9	SEP 30	OCTOBER	MEAN
PURE ECLIPSE (PST-ROPS)	28.0	47.0	32.7	35.9
ARMOR	22.7	46.7	28.7	32.7
NIGHTLIFE	19.3	37.0	23.3	26.6
SHARK	17.3	31.3	25.3	24.7
PENNCROSS	19.3	29.0	19.7	22.7
PURE SELECT	17.3	28.3	20.0	21.9
KINGDOM	20.0	26.7	16.7	21.1
PIRANHA (DC-1)	14.0	26.7	18.0	19.6
777 (DLFPS-AP/3054)	16.7	26.3	14.3	19.1
V-8	13.7	21.3	16.0	17.0
BARRACUDA	13.3	22.0	14.3	16.6
L-93 XD	14.0	22.7	11.3	16.0
LUMINARY	12.3	22.3	12.3	15.7
PENN A-1	12.7	20.0	14.0	15.6
DLFPS-AP/3059	11.7	21.0	12.0	14.9
MACDONALD (DLFPS-AP/3018)	10.7	20.0	13.7	14.8
DLFPS-AP/3058	10.0	19.7	10.0	13.2
DLFPS-AP/3056	10.0	18.0	10.3	12.8
TOUR PRO (GDE)	8.3	18.7	10.7	12.6
DECLARATION	10.0	16.0	10.3	12.1
LSD VALUE	9.2	13.9	11.9	10.6
C.V. (%)	32.9	30.3	38.6	31.2

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 50.

PERCENT Poa ANNUA RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A GREEN 2/
 2017 DATA

NAME	OK1
BARRACUDA	31.7
LUMINARY	31.7
NIGHTLIFE	30.0
SHARK	30.0
V-8	30.0
PENNCROSS	28.3
777 (DLFPS-AP/3054)	26.7
ARMOR	25.0
DLFPS-AP/3056	25.0
PENN A-1	25.0
TOUR PRO (GDE)	25.0
KINGDOM	23.3
DLFPS-AP/3058	21.0
PURE SELECT	21.0
PURE ECLIPSE (PST-ROPS)	20.0
MACDONALD (DLFPS-AP/3018)	16.0
DLFPS-AP/3059	15.0
DECLARATION	14.3
PIRANHA (DC-1)	10.0
L-93 XD	6.0
LSD VALUE	12.7
C.V. (%)	34.7

- 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.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR BENTGRASS CULTIVARS
GROWN ON A GREEN
2015-19 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	QUALITY	MAXIMUM
	MEAN 1/	IN TOP 25% 2/
777 (DLFPS-AP/3054)	6.4	35.7
ARMOR	5.7	7.1
BARRACUDA	6.3	28.6
DECLARATION	6.0	21.4
DLFPS-AP/3056	6.2	0.0
DLFPS-AP/3058	6.5	50.0
DLFPS-AP/3059	6.0	0.0
KINGDOM	6.0	14.3
L-93 XD	6.5	57.1
LUMINARY	6.2	14.3
MACDONALD (DLFPS-AP/3018)	6.4	50.0
NIGHTLIFE	6.1	21.4
PENN A-1	5.8	0.0
PENNCROSS	4.4	0.0
PIRANHA (DC-1)	6.5	64.3
PURE ECLIPSE (PST-ROPS)	6.2	35.7
PURE SELECT	6.2	14.3
SHARK	6.1	7.1
TOUR PRO (GDE)	6.4	64.3
V-8	6.2	14.3
LSD VALUE	0.3	
C.V. (%)	9.0	

*/ 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.