

## **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.

Executive Director - Kevin N. Morris, National Turfgrass Evaluation Program, Inc.

### **CURRENT POLICY COMMITTEE MEMBERS:**

Mr. Aaron Kuenzi, Mountain View Seeds.  
Mr. Ryan Jeffries, Columbia Seeds, Inc.  
Dr. Mike Kenna, USGA Green Section  
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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 2017

State	Location	Code
California	San Francisco (California Golf Club)	CA5
California	Los Angeles (Los Angeles C.C.)	CA6
Georgia	Athens	GA3
Illinois	Glenview (North Shore C.C.)	IL4
Indiana	West Lafayette	IN1
Iowa	Ames	IA1
Kansas	Manhattan	KS1
Kentucky	Lexington	KY1
Massachusetts	Amherst (Traffic Study)	MA1
Michigan	East Lansing	MI1
Minnesota	St. Paul	MN1
Missouri	Columbia	MO1
New Jersey	North Brunswick	NJ1
North Carolina	Raleigh	NC1
Utah	Logan	UT1
Utah	Logan (Drought Study)	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	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 2018

TABLE A.

2017 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN  
THE 2014 NATIONAL BENTGRASS (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
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	-	-	-	-	-	-	-	-
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	-	-	-	-	-	-	-	-
KY1	SAND	7.6-8.5	0-60	0-150	3.1-4.0	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	5.1-6.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
NJ1	SAND	-	-	-	6.1-7.0	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	0.6-1.0	TO PREVENT DORMANCY

TABLE B.

## LOCATIONS AND DATA COLLECTED IN 2017

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
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	
IN1					X	X	X	X	X	X	X		X	X	X
KS1				X	X	X	X	X		X					
KY1				X	X	X	X	X	X	X					
MA1			X	X	X	X	X	X	X	X				X	
MI1					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				
NC1		X	X	X	X	X	X	X	X	X	X		X	X	X
NJ1				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	
VA1				X	X		X	X	X	X	X				

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2017

LOCATION	SPRING	SUMMER	FALL	PERCENT	PERCENT	PERCENT	WINTER	DOLLAR	BROWN	ANTHRACNOSE	PINK	FALL	COPPER	DOLLAR	WEAR
	DENSITY	DENSITY	DENSITY	COVER	COVER	COVER	COLOR	SPOT	PATCH	RATINGS	SNOW	COLOR	SPOT	SPOT	TOLERANCE
				SPRING	SUMMER	FALL			WARM	TEMP.	MOLD	NOVEMBER	OCT_17&19		MAY JUL SEP
CA5		X	X								X				
CA6	X	X													
GA3	X	X	X				X	X	X						
IA1								X							
IL4															
IN1		X					X	X							
KS1								X							
KY1															
MA1															X X X
MI1								X				X		X	
MN1															
MO1								X	X				X		
NC1	X	X		X	X	X	X								
NJ1			X												
UT1															
UT2															
VA1								X							

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT FIVE LOCATIONS IN THE U.S. FOR LPI GROUP 1 \*\*/  
2017 DATA

NAME	ENTRY #	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/					MEAN
		VA1	NC1	GA3	IN1	KS1	
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
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 2018.

\*\*/ 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](http://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 AT FOUR LOCATIONS IN THE U.S. FOR 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
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

\*/ 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](http://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 3. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/  
A GREEN AT THREE LOCATIONS IN THE U.S. FOR 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
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

\*/ 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](http://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 4.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN UNDER TRAFFIC STRESS AT AMHERST, MA 1/  
2017 DATA

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

NAME	SPRING GREENUP	WEAR TOLERANCE RATINGS				QUALITY RATINGS							MEAN
		MAY	JULY	SEPTEMBER	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	
DLFPS-AP/3018	4.7	5.3	6.0	6.3	3.7	6.0	5.7	7.0	6.7	5.7	6.3	6.7	6.0
PST-ROPS	4.3	5.3	5.7	6.3	2.7	6.3	6.7	6.7	6.7	6.0	6.3	6.7	6.0
L-93 XD	4.0	6.3	5.0	4.7	4.0	6.0	6.3	6.3	6.0	5.3	6.7	6.3	5.9
777 (DLFPS-AP/3054)	4.3	6.3	5.3	5.0	3.3	5.3	5.3	5.3	5.7	5.0	6.3	5.7	5.3
GDE	4.3	5.7	6.0	6.0	2.0	5.0	6.0	5.7	6.0	5.3	6.3	6.0	5.3
PIRANHA (DC-1)	4.0	6.0	5.7	5.7	2.7	5.3	6.0	5.7	5.3	5.3	6.0	6.0	5.3
PURE SELECT	2.3	5.3	5.3	5.3	2.0	5.7	6.0	6.0	6.0	5.3	6.0	5.7	5.3
LUMINARY	4.0	5.7	5.3	4.7	3.3	5.7	5.3	5.7	5.3	5.0	6.0	5.3	5.2
DLFPS-AP/3058	4.0	4.7	5.3	4.7	2.7	5.7	5.7	5.7	5.3	4.7	5.3	5.7	5.1
BARRACUDA	4.3	5.0	4.7	4.7	2.7	5.7	5.7	5.7	5.3	5.0	5.3	5.0	5.0
DLFPS-AP/3056	3.3	5.3	5.7	5.3	2.7	5.3	5.7	5.7	5.3	5.0	5.7	5.0	5.0
KINGDOM	2.3	5.3	6.3	5.7	2.0	5.0	5.7	6.0	6.0	5.0	5.3	5.0	5.0
NIGHTLIFE	2.3	5.7	5.7	5.3	2.0	4.7	5.0	5.7	5.3	4.7	6.0	5.0	4.8
V-8	2.7	4.3	5.0	5.0	2.3	5.3	5.7	5.7	4.7	4.7	5.3	5.0	4.8
DLFPS-AP/3059	3.3	5.0	5.0	5.0	2.3	5.3	4.7	5.0	5.0	4.7	5.3	4.7	4.6
SHARK	3.0	4.3	4.3	5.0	2.0	5.0	5.3	5.3	4.7	4.3	5.7	4.7	4.6
ARMOR	2.3	6.0	6.0	5.7	2.3	4.3	4.7	5.3	5.0	4.0	5.7	5.0	4.5
DECLARATION	3.3	5.0	4.7	4.3	2.7	4.0	5.0	5.0	4.7	4.0	5.0	4.0	4.3
PENN A-1	2.0	5.0	5.0	4.3	2.0	4.0	5.0	5.3	4.7	4.3	5.0	4.3	4.3
PENNCROSS	2.0	3.3	3.7	3.0	2.0	3.0	3.7	4.0	3.0	3.0	3.3	3.3	3.2
LSD VALUE	0.9	1.1	1.0	1.0	0.7	0.7	0.8	0.8	0.7	0.7	0.8	0.7	0.4
C.V. (%)	17.7	12.4	10.5	11.8	16.8	8.2	9.1	8.7	8.9	8.7	8.7	8.3	5.3

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 5. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN UNDER DROUGHT STRESS AT LOGAN, UT 1/  
2017 DATA

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

NAME	SPRING	QUALITY RATINGS							
	GREENUP	APR	MAY	JUN	JUL	AUG	SEP	OCT	MEAN
DLFPS-AP/3058	7.0	4.7	5.7	5.3	6.3	6.0	7.3	6.3	6.0
KINGDOM	6.7	5.0	6.3	6.0	5.7	6.0	6.0	5.3	5.8
PURE SELECT	7.0	5.3	7.0	6.3	6.0	5.0	6.3	4.3	5.8
777 (DLFPS-AP/3054)	7.7	5.3	6.7	6.7	6.0	4.7	6.3	4.3	5.7
DLFPS-AP/3018	7.3	4.3	6.7	5.7	5.7	5.7	6.3	5.7	5.7
PIRANHA (DC-1)	7.7	5.7	7.0	5.7	5.7	4.7	6.0	5.0	5.7
PST-ROPS	7.3	5.7	6.3	6.3	5.3	4.7	6.3	5.3	5.7
V-8	7.3	5.0	6.0	5.7	5.0	5.3	7.0	5.7	5.7
ARMOR	6.3	4.7	6.0	5.3	5.0	6.3	6.0	5.3	5.5
NIGHTLIFE	6.7	4.7	6.7	5.0	5.0	5.7	5.7	5.3	5.4
BARRACUDA	7.3	5.0	6.0	4.7	5.3	4.7	5.7	5.3	5.2
DLFPS-AP/3056	6.7	5.0	5.3	5.7	5.0	3.7	6.0	5.7	5.2
L-93 XD	7.3	5.7	6.7	5.3	4.7	4.3	5.7	4.0	5.2
GDE	7.0	4.7	5.0	6.0	5.3	4.7	6.0	4.3	5.1
SHARK	7.7	5.0	6.0	5.3	5.3	3.7	5.7	3.7	5.0
DLFPS-AP/3059	6.3	4.0	6.3	4.7	4.3	4.3	5.3	5.0	4.9
PENN A-1	6.3	4.3	5.3	4.7	4.3	4.7	6.3	4.3	4.9
DECLARATION	7.0	4.7	6.0	4.7	5.0	4.3	5.0	3.7	4.8
LUMINARY	6.7	3.3	4.7	5.0	4.3	5.0	6.0	3.7	4.6
PENNCROSS	5.3	3.0	2.0	2.0	2.3	2.7	3.0	2.0	2.4
LSD VALUE	1.0	1.0	1.1	1.1	1.4	3.4	1.0	2.3	0.7
C.V. (%)	8.1	12.1	12.0	13.3	15.5	27.2	10.3	24.1	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 6.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT SAN FRANCISCO (CALIFORNIA GOLF CLUB OF SAN FRANCISCO), CA 1/  
2017 DATA

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

NAME	GENETIC COLOR	SUMMER DENSITY	FALL DENSITY	PINK SNOW MOLD	QUALITY RATINGS												MEAN
					JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
L-93 XD	7.0	6.7	7.0	8.0	6.7	7.0	6.7	7.3	7.3	7.0	6.7	6.7	7.0	7.0	6.7	7.3	6.9
PURE SELECT	5.3	7.3	7.0	6.0	6.3	6.0	7.0	6.7	7.0	7.3	7.0	6.7	7.0	7.7	6.7	7.7	6.9
777 (DLFPS-AP/3054)	7.0	7.0	6.3	8.7	6.7	7.0	6.7	6.7	7.3	7.0	6.3	6.7	6.7	6.7	6.7	7.0	6.8
PST-ROPS	7.0	7.0	7.0	6.0	6.0	5.7	6.0	6.3	7.0	7.0	6.3	6.3	7.0	7.3	6.7	7.3	6.6
DLFPS-AP/3058	6.7	6.3	6.7	6.7	6.0	6.3	6.0	6.7	6.7	6.3	6.3	6.7	6.7	7.0	6.7	7.0	6.5
SHARK	6.7	6.7	6.7	7.0	6.3	6.0	6.3	6.0	7.3	6.7	6.3	6.3	6.7	7.3	6.0	7.0	6.5
ARMOR	8.0	6.0	6.3	7.7	6.7	6.0	6.7	6.0	7.0	6.0	6.3	6.0	6.7	6.0	6.3	7.0	6.4
BARRACUDA	6.7	6.7	6.3	8.0	6.3	6.0	6.7	6.3	6.7	6.7	6.0	6.0	6.3	6.3	6.0	7.0	6.4
DLFPS-AP/3056	7.3	6.0	6.7	7.0	6.0	6.0	6.0	5.7	7.0	6.3	5.7	6.0	6.7	7.0	6.7	7.3	6.4
KINGDOM	8.3	6.0	6.3	8.0	6.0	5.0	6.3	6.3	6.3	6.0	6.7	6.3	6.7	7.0	6.3	7.3	6.4
NIGHTLIFE	8.3	6.0	7.0	8.0	6.7	6.0	7.0	6.3	6.7	6.0	6.3	6.0	6.7	6.3	6.3	7.0	6.4
PIRANHA (DC-1)	7.0	7.0	6.3	6.7	6.0	6.0	6.0	6.0	7.0	6.7	6.0	6.0	6.3	7.0	6.3	7.0	6.4
TOUR PRO (GDE)	6.7	6.3	6.3	7.7	6.3	6.0	6.3	6.7	7.0	6.0	6.0	6.0	7.0	6.0	6.0	7.0	6.4
V-8	7.0	6.7	6.7	8.0	6.0	6.0	6.0	6.0	6.7	6.7	6.7	6.0	7.0	6.7	6.7	7.0	6.4
DLFPS-AP/3018	7.0	7.0	6.7	6.3	6.0	5.7	6.0	6.3	7.0	6.7	6.0	6.0	6.3	6.3	6.3	7.0	6.3
LUMINARY	7.0	6.0	6.0	7.7	6.0	5.3	6.0	6.3	7.0	5.7	6.0	6.3	6.0	6.0	6.3	7.0	6.2
PENN A-1	7.0	5.7	6.0	7.0	6.0	5.7	6.0	6.3	7.0	6.0	6.0	6.0	6.0	6.7	6.0	7.0	6.2
DLFPS-AP/3059	6.7	5.3	6.0	8.0	5.7	5.0	6.0	6.0	6.3	5.7	6.0	6.0	6.0	6.0	6.0	7.0	6.0
DECLARATION	8.0	5.7	5.3	7.3	6.0	5.0	6.0	6.0	6.0	5.0	5.7	5.7	6.0	6.0	5.3	7.0	5.8
PENNCROSS	6.0	4.0	4.7	8.0	5.0	3.3	4.7	4.7	5.7	4.0	4.3	5.0	5.0	4.0	4.7	4.0	4.5
LSD VALUE	0.7	0.6	0.8	1.2	0.7	0.5	0.6	0.8	0.7	0.7	0.8	1.1	0.7	0.7	1.2	0.4	0.3
C.V. (%)	6.3	6.7	7.4	9.1	6.5	5.6	6.0	7.2	6.0	6.9	7.4	8.1	6.4	6.8	9.4	4.1	3.2

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 7.

MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT LOS ANGELES (LOS ANGELES COUNTRY CLUB), CA 1/  
2017 DATA

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

NAME	GENETIC COLOR	SPRING DENSITY	SUMMER DENSITY	QUALITY RATINGS												MEAN
				JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	
PURE ECLIPSE (PST-ROPS)	7.3	7.3	7.3	7.0	7.3	7.3	8.0	8.0	6.7	8.0	8.0	8.0	7.0	5.7	7.7	7.4
DLFPS-AP/3018	6.7	7.3	7.0	6.3	7.0	7.0	7.0	7.3	6.0	7.3	7.0	7.0	7.0	6.7	7.7	6.9
777 (DLFPS-AP/3054)	7.0	7.0	7.0	6.7	7.0	6.7	6.7	7.0	6.0	7.0	6.7	7.0	6.7	5.7	7.3	6.7
DLFPS-AP/3058	7.0	7.3	7.0	6.7	7.0	7.0	7.3	7.0	5.3	7.0	6.3	6.7	7.0	5.7	7.0	6.7
L-93 XD	6.7	7.0	7.0	6.3	7.0	7.3	7.7	7.3	5.0	7.0	6.3	7.0	6.7	5.0	7.3	6.7
PIRANHA (DC-1)	7.3	7.0	7.0	6.3	7.0	7.0	7.0	7.3	5.7	7.3	6.3	6.7	6.3	6.0	7.3	6.7
SHARK	7.0	6.7	7.0	6.7	6.7	7.0	7.0	7.0	5.3	7.7	6.3	7.3	7.0	5.7	7.0	6.7
DLFPS-AP/3056	7.3	7.0	6.7	6.7	6.7	6.7	6.7	7.0	6.0	7.0	6.0	6.7	6.7	6.0	7.0	6.6
V-8	7.3	6.7	6.7	6.7	7.0	7.0	7.0	6.7	5.7	7.0	6.0	6.3	6.7	5.7	7.0	6.6
TOUR PRO (GDE)	7.0	6.7	6.7	6.7	6.7	6.7	6.3	7.0	5.3	7.3	6.3	6.7	6.7	5.0	7.0	6.5
LUMINARY	7.0	6.7	6.7	6.7	7.0	7.0	7.0	6.3	5.0	6.7	6.0	6.7	7.0	5.3	6.0	6.4
BARRACUDA	7.0	6.3	6.3	6.3	6.7	6.7	6.7	6.7	5.0	6.3	6.3	6.3	6.3	5.3	6.7	6.3
PURE SELECT	7.0	6.7	6.7	6.0	6.0	6.3	6.3	7.0	4.7	7.0	6.0	6.7	6.7	5.0	6.3	6.2
ARMOR	8.0	7.0	6.3	6.0	6.3	6.7	6.7	6.3	4.3	6.7	6.0	6.3	6.7	4.3	6.3	6.1
PENN A-1	7.7	6.3	6.3	7.0	7.0	6.7	6.0	6.7	4.3	7.0	5.3	5.3	6.0	3.3	7.0	6.0
DLFPS-AP/3059	6.7	6.3	6.3	6.0	6.3	6.0	5.7	6.0	4.0	6.0	5.3	5.7	5.3	4.3	6.0	5.6
NIGHTLIFE	8.0	7.0	6.0	6.3	6.3	6.7	6.7	6.0	4.0	6.0	5.0	5.7	5.7	4.0	5.3	5.6
DECLARATION	6.3	6.3	6.0	6.0	6.3	6.0	6.0	6.0	4.0	5.7	4.7	5.7	5.7	4.7	5.7	5.5
KINGDOM	7.7	6.3	6.0	6.0	6.0	6.0	6.0	6.0	4.7	6.0	5.0	5.7	5.3	3.7	5.7	5.5
PENNCROSS	5.7	5.0	6.0	6.0	6.0	5.3	5.0	4.0	2.0	4.0	4.0	3.7	4.7	4.0	4.7	4.4
LSD VALUE	0.9	0.8	0.7	1.6	0.7	0.9	0.7	0.6	0.9	0.5	1.1	1.1	1.0	1.4	1.3	0.4
C.V. (%)	7.0	7.1	6.0	8.6	5.8	7.4	6.3	5.6	11.6	5.1	11.0	10.3	9.3	16.0	11.2	4.1

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 8. MEAN TURFGRASS QUALITY AND OTHER RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT GLENVIEW (NORTH SHORE COUNTRY CLUB), IL 1/  
2017 DATA

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

NAME	SPRING	QUALITY RATINGS					MEAN
	GREENUP	APR	MAY	JUN	JUL		
GDE	5.7	4.7	4.0	6.0	6.3	5.3	
777 (DLFPS-AP/3054)	6.7	5.0	3.7	5.0	6.7	5.1	
DLFPS-AP/3056	6.3	4.3	3.3	4.7	6.7	4.8	
DLFPS-AP/3059	6.3	4.0	3.7	4.7	6.3	4.7	
PENN A-1	5.7	4.3	3.0	4.7	6.7	4.7	
PIRANHA (DC-1)	6.0	4.0	3.7	5.0	5.7	4.6	
PST-ROPS	6.7	3.7	3.3	4.7	6.7	4.6	
SHARK	6.0	4.7	3.3	4.0	6.3	4.6	
V-8	6.0	4.3	3.0	4.3	6.7	4.6	
NIGHTLIFE	5.7	4.0	3.0	4.3	6.7	4.5	
PURE SELECT	6.0	3.7	3.0	5.0	6.3	4.5	
DLFPS-AP/3058	6.0	3.7	3.3	4.7	6.0	4.4	
ARMOR	6.0	3.7	3.3	4.3	6.0	4.3	
BARRACUDA	6.0	4.3	3.0	4.0	5.7	4.3	
DLFPS-AP/3018	6.3	3.3	3.3	4.3	6.3	4.3	
LUMINARY	6.3	3.7	3.0	4.0	6.3	4.3	
PENNCROSS	6.3	3.7	3.0	4.7	6.0	4.3	
DECLARATION	6.3	3.3	2.7	3.7	5.7	3.8	
KINGDOM	6.3	4.0	3.0	3.3	4.7	3.8	
L-93 XD	6.3	3.0	2.7	3.3	5.7	3.7	
LSD VALUE	2.7	2.3	2.1	2.7	2.0	1.4	
C.V. (%)	12.0	20.7	20.6	22.2	12.4	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 9. GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2017 DATA

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

NAME	GA3	IA1	IN1	MI1	MN1	NC1	UT1	MEAN
ARMOR	7.7	9.0	9.0	8.0	9.0	9.0	8.0	8.5
NIGHTLIFE	8.0	9.0	9.0	7.7	9.0	9.0	8.0	8.5
KINGDOM	7.0	9.0	8.7	8.0	9.0	8.7	7.3	8.2
DLFPS-AP/3056	7.0	7.3	6.7	6.3	5.7	7.3	6.3	6.7
LUMINARY	7.0	7.0	7.0	6.0	6.0	7.0	5.3	6.5
PENN A-1	7.0	6.7	7.0	6.3	6.0	7.0	5.3	6.5
777 (DLFPS-AP/3054)	7.0	7.3	6.3	6.0	5.7	7.0	6.0	6.5
PURE ECLIPSE (PST-ROPS)	7.0	8.7	5.7	6.0	4.3	7.0	6.3	6.4
DLFPS-AP/3018	7.0	7.3	7.0	6.0	5.0	7.0	5.7	6.4
PIRANHA (DC-1)	7.0	7.7	6.3	6.0	5.0	7.0	5.7	6.4
PURE SELECT	7.0	7.3	7.0	6.0	4.7	7.0	5.7	6.4
V-8	6.7	7.0	7.0	6.3	4.0	7.0	6.3	6.3
DLFPS-AP/3059	6.7	6.7	6.7	6.0	4.3	7.0	5.7	6.1
BARRACUDA	7.0	6.7	6.7	6.0	4.7	7.0	4.7	6.1
DLFPS-AP/3058	7.0	7.3	5.7	6.0	4.0	7.0	5.7	6.1
SHARK	7.0	7.0	6.0	6.0	4.3	7.0	5.3	6.1
TOUR PRO (GDE)	7.0	8.0	5.3	6.0	3.7	7.0	5.3	6.0
DECLARATION	6.0	7.0	6.3	6.0	4.7	7.0	3.7	5.8
L-93 XD	6.3	7.0	5.0	6.0	3.7	7.0	5.3	5.8
PENNCROSS	6.0	6.0	6.3	5.0	2.7	6.3	1.0	4.8
LSD VALUE	0.7	1.4	1.2	0.4	0.9	0.4	1.3	0.4
C.V. (%)	5.9	11.4	10.8	4.1	10.1	3.1	14.5	9.2

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 10. SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2017 DATA

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

NAME	IN1	MI1	MN1	NC1	NJ1	UT1	MEAN
DLFPS-AP/3058	7.7	5.0	5.0	8.0	4.7	7.7	6.3
LUMINARY	8.3	4.7	2.7	8.0	6.3	7.0	6.2
PIRANHA (DC-1)	8.0	4.3	3.7	8.0	5.7	7.3	6.2
V-8	7.3	4.3	3.7	8.0	6.0	7.7	6.2
DECLARATION	7.3	3.3	4.0	8.0	7.7	6.3	6.1
DLFPS-AP/3018	6.7	4.7	3.7	8.0	6.3	7.3	6.1
BARRACUDA	7.7	4.0	4.3	8.0	4.7	7.7	6.1
L-93 XD	6.7	4.3	5.0	8.0	4.3	7.0	5.9
TOUR PRO (GDE)	6.3	4.3	4.3	8.0	4.3	7.3	5.8
777 (DLFPS-AP/3054)	6.0	5.0	4.0	7.7	4.3	7.3	5.7
DLFPS-AP/3056	5.0	4.3	4.3	8.0	6.0	6.7	5.7
PURE ECLIPSE (PST-ROPS)	6.3	4.0	4.0	8.0	4.0	7.7	5.7
SHARK	7.3	4.7	2.7	8.0	4.3	6.3	5.6
DLFPS-AP/3059	5.7	3.3	2.7	8.0	4.7	7.0	5.2
PURE SELECT	5.7	4.0	3.0	8.0	2.0	6.3	4.8
NIGHTLIFE	6.7	3.0	2.0	8.0	1.7	7.0	4.7
PENN A-1	7.0	2.0	3.0	8.0	2.0	6.3	4.7
KINGDOM	6.3	3.0	2.0	8.0	1.3	7.0	4.6
ARMOR	6.3	3.0	1.3	8.0	1.0	6.3	4.3
PENNCROSS	5.7	2.0	1.0	8.0	1.3	5.0	3.8
LSD VALUE	1.6	1.0	1.0	0.2	1.5	0.9	0.5
C.V. (%)	14.7	15.7	18.3	1.6	22.1	7.7	12.5

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 11. LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2017 DATA

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

NAME	IN1	NC1	NJ1	MEAN
L-93 XD	7.7	8.0	7.3	7.7
DLFPS-AP/3018	7.3	8.0	7.3	7.6
PURE ECLIPSE (PST-ROPS)	9.0	8.0	5.3	7.4
777 (DLFPS-AP/3054)	7.3	7.7	7.0	7.3
PIRANHA (DC-1)	7.7	8.0	6.3	7.3
V-8	8.0	7.7	6.0	7.2
SHARK	7.3	8.0	6.3	7.2
PURE SELECT	8.0	7.7	5.7	7.1
TOUR PRO (GDE)	7.3	7.7	6.0	7.0
DLFPS-AP/3058	7.3	7.7	5.7	6.9
BARRACUDA	7.0	7.0	6.3	6.8
DLFPS-AP/3056	7.0	7.0	6.0	6.7
NIGHTLIFE	6.7	8.0	5.3	6.7
DECLARATION	6.3	7.3	6.0	6.6
LUMINARY	6.7	7.0	5.7	6.4
KINGDOM	7.3	7.3	4.7	6.4
ARMOR	7.3	7.0	4.0	6.1
DLFPS-AP/3059	5.7	6.7	5.7	6.0
PENN A-1	6.0	7.0	3.0	5.3
PENNCROSS	5.7	5.3	1.0	4.0
LSD VALUE	1.1	0.6	2.0	0.8
C.V. (%)	9.2	5.2	22.5	12.6

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

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

TABLE 12. SPRING DENSITY RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2017 DATA

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

NAME	GA3	NC1	MEAN
DLFPS-AP/3058	7.7	8.0	7.8
LUMINARY	7.0	8.3	7.7
PURE ECLIPSE (PST-ROPS)	7.0	8.3	7.7
PURE SELECT	7.3	8.0	7.7
NIGHTLIFE	7.0	8.0	7.5
777 (DLFPS-AP/3054)	6.0	8.3	7.2
DLFPS-AP/3056	6.7	7.7	7.2
PIRANHA (DC-1)	6.7	7.7	7.2
ARMOR	6.3	8.0	7.2
DLFPS-AP/3059	5.7	8.0	6.8
L-93 XD	5.0	8.3	6.7
BARRACUDA	5.3	8.0	6.7
DLFPS-AP/3018	5.3	8.0	6.7
PENN A-1	5.3	8.0	6.7
SHARK	5.3	8.0	6.7
V-8	5.3	8.0	6.7
KINGDOM	5.3	7.7	6.5
TOUR PRO (GDE)	5.0	8.0	6.5
DECLARATION	4.0	8.0	6.0
PENNCROSS	6.3	5.7	6.0
LSD VALUE	1.5	0.6	0.8
C.V. (%)	16.0	4.6	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.

TABLE 13. SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2017 DATA

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

NAME	GA3	IN1	NC1	MEAN
PURE ECLIPSE (PST-ROPS)	7.0	8.7	8.3	8.0
PURE SELECT	7.0	7.7	9.0	7.9
777 (DLFPS-AP/3054)	7.0	7.7	8.0	7.6
KINGDOM	6.3	8.3	8.0	7.6
NIGHTLIFE	7.0	7.7	8.0	7.6
ARMOR	6.7	7.7	8.0	7.4
SHARK	6.3	8.0	8.0	7.4
DLFPS-AP/3056	7.3	6.7	8.0	7.3
LUMINARY	7.0	7.0	8.0	7.3
PIRANHA (DC-1)	6.7	7.3	8.0	7.3
TOUR PRO (GDE)	6.0	8.0	8.0	7.3
V-8	6.0	8.0	8.0	7.3
DLFPS-AP/3058	7.0	6.7	7.7	7.1
BARRACUDA	6.0	7.0	8.0	7.0
DLFPS-AP/3018	6.3	6.7	8.0	7.0
DLFPS-AP/3059	6.0	6.3	7.7	6.7
L-93 XD	5.0	6.7	8.0	6.6
PENN A-1	5.7	6.0	8.0	6.6
DECLARATION	5.0	5.7	8.0	6.2
PENNCROSS	5.3	5.7	6.0	5.7
LSD VALUE	1.3	1.1	0.4	0.6
C.V. (%)	13.1	9.7	2.8	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 14. FALL DENSITY RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2017 DATA

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

NAME	GA3	NJ1	MEAN
DLFPS-AP/3018	7.0	7.3	7.2
PIRANHA (DC-1)	7.0	7.0	7.0
777 (DLFPS-AP/3054)	7.0	6.7	6.8
DLFPS-AP/3058	7.0	6.0	6.5
PURE SELECT	7.0	6.0	6.5
DLFPS-AP/3056	7.0	5.7	6.3
SHARK	7.0	5.7	6.3
TOUR PRO (GDE)	6.7	6.0	6.3
DLFPS-AP/3059	6.7	5.7	6.2
LUMINARY	7.0	5.3	6.2
PURE ECLIPSE (PST-ROPS)	7.0	5.3	6.2
V-8	6.3	6.0	6.2
L-93 XD	5.3	6.7	6.0
NIGHTLIFE	7.0	5.0	6.0
BARRACUDA	6.7	5.0	5.8
DECLARATION	5.7	5.7	5.7
ARMOR	7.0	4.3	5.7
KINGDOM	7.0	4.0	5.5
PENN A-1	6.7	3.0	4.8
PENNCROSS	6.0	2.0	4.0
LSD VALUE	1.3	1.9	1.2
C.V. (%)	12.2	22.4	17.0

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

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

TABLE 15. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2017 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	NC1
777 (DLFPS-AP/3054)	99.0
ARMOR	99.0
BARRACUDA	99.0
DECLARATION	99.0
DLFPS-AP/3018	99.0
DLFPS-AP/3056	99.0
DLFPS-AP/3058	99.0
DLFPS-AP/3059	99.0
KINGDOM	99.0
L-93 XD	99.0
LUMINARY	99.0
NIGHTLIFE	99.0
PENN A-1	99.0
PIRANHA (DC-1)	99.0
PURE ECLIPSE (PST-ROPS)	99.0
PURE SELECT	99.0
SHARK	99.0
TOUR PRO (GDE)	99.0
V-8	99.0
PENNCROSS	89.7
LSD VALUE	4.6
C.V. (%)	2.9

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 16. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2017 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	NC1
777 (DLFPS-AP/3054)	99.0
ARMOR	99.0
BARRACUDA	99.0
DECLARATION	99.0
DLFPS-AP/3018	99.0
DLFPS-AP/3056	99.0
DLFPS-AP/3058	99.0
DLFPS-AP/3059	99.0
KINGDOM	99.0
L-93 XD	99.0
LUMINARY	99.0
NIGHTLIFE	99.0
PENN A-1	99.0
PIRANHA (DC-1)	99.0
PURE ECLIPSE (PST-ROPS)	99.0
PURE SELECT	99.0
SHARK	99.0
TOUR PRO (GDE)	99.0
V-8	99.0
PENNCROSS	80.0
LSD VALUE	6.2
C.V. (%)	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 17. PERCENT LIVING GROUND COVER (FALL) RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2017 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	NC1
777 (DLFPS-AP/3054)	99.0
ARMOR	99.0
BARRACUDA	99.0
DECLARATION	99.0
DLFPS-AP/3018	99.0
DLFPS-AP/3056	99.0
DLFPS-AP/3058	99.0
DLFPS-AP/3059	99.0
KINGDOM	99.0
L-93 XD	99.0
LUMINARY	99.0
NIGHTLIFE	99.0
PENN A-1	99.0
PIRANHA (DC-1)	99.0
PURE ECLIPSE (PST-ROPS)	99.0
PURE SELECT	99.0
SHARK	99.0
TOUR PRO (GDE)	99.0
V-8	99.0
PENNCROSS	90.0
LSD VALUE	3.1
C.V. (%)	2.0

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

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

TABLE 18. WINTER COLOR RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2017 DATA

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

NAME	GA3	IN1	NC1	MEAN
LUMINARY	7.0	9.0	8.0	8.0
PIRANHA (DC-1)	6.7	8.3	7.7	7.6
PURE SELECT	7.3	8.0	7.3	7.6
DLFPS-AP/3058	7.3	7.3	7.7	7.4
DLFPS-AP/3018	6.3	7.7	8.0	7.3
PURE ECLIPSE (PST-ROPS)	7.0	7.7	7.3	7.3
DLFPS-AP/3056	6.7	7.3	7.7	7.2
SHARK	6.7	8.0	6.7	7.1
777 (DLFPS-AP/3054)	6.7	7.3	7.3	7.1
BARRACUDA	6.7	7.3	7.3	7.1
TOUR PRO (GDE)	6.3	7.7	7.3	7.1
DECLARATION	5.0	8.3	7.3	6.9
DLFPS-AP/3059	6.3	6.7	7.0	6.7
L-93 XD	5.7	6.7	7.0	6.4
NIGHTLIFE	7.7	4.7	7.0	6.4
V-8	6.0	7.3	6.0	6.4
ARMOR	7.3	5.0	6.3	6.2
PENNCROSS	6.0	6.3	6.0	6.1
KINGDOM	6.3	5.7	6.0	6.0
PENN A-1	6.0	5.3	6.0	5.8
LSD VALUE	1.3	1.4	1.0	0.7
C.V. (%)	12.1	12.4	8.8	11.2

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

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

TABLE 19. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2017 DATA

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

NAME	GA3	IA1	IN1	KS1	MI1	MO1	MEAN
DLFPS-AP/3058	9.0	9.0	9.0	9.0	9.0	9.0	9.0
DECLARATION	9.0	9.0	9.0	9.0	8.7	9.0	8.9
TOUR PRO (GDE)	9.0	8.7	9.0	9.0	9.0	9.0	8.9
L-93 XD	8.7	9.0	8.7	9.0	9.0	7.7	8.7
V-8	8.7	8.7	8.7	8.7	8.7	8.3	8.6
PENN A-1	9.0	8.7	8.0	9.0	8.7	7.3	8.4
DLFPS-AP/3059	9.0	9.0	8.7	8.3	8.0	7.3	8.4
LUMINARY	8.3	8.3	8.3	9.0	8.0	8.0	8.3
PIRANHA (DC-1)	8.7	8.3	8.7	8.3	8.3	7.7	8.3
PENNCROSS	9.0	9.0	8.3	9.0	7.3	6.7	8.2
BARRACUDA	9.0	9.0	8.7	8.3	8.7	5.3	8.2
DLFPS-AP/3056	8.3	8.7	8.0	9.0	8.0	6.7	8.1
DLFPS-AP/3018	8.0	8.7	8.3	8.3	8.0	7.0	8.1
777 (DLFPS-AP/3054)	8.3	8.7	8.3	9.0	8.0	5.7	8.0
SHARK	9.0	7.7	7.7	8.7	7.7	6.3	7.8
KINGDOM	8.7	8.3	7.7	8.3	6.7	6.3	7.7
PURE SELECT	8.3	7.7	6.7	8.0	7.3	7.0	7.5
PURE ECLIPSE (PST-ROPS)	8.0	7.0	6.7	9.0	8.0	5.7	7.4
NIGHTLIFE	9.0	8.0	7.0	6.7	7.7	5.0	7.2
ARMOR	7.7	6.7	5.3	4.7	5.7	1.7	5.3
LSD VALUE	0.6	1.0	1.4	1.0	1.2	2.4	0.6
C.V. (%)	4.5	7.5	11.0	7.0	9.1	21.5	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 20. BROWN PATCH (WARM TEMPERATURE) RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2017 DATA

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

NAME	GA3	MO1	MEAN
ARMOR	8.0	9.0	8.5
KINGDOM	8.7	8.0	8.3
PIRANHA (DC-1)	8.7	8.0	8.3
777 (DLFPS-AP/3054)	8.7	7.3	8.0
NIGHTLIFE	8.7	7.3	8.0
PURE SELECT	8.3	7.7	8.0
DLFPS-AP/3056	8.3	7.3	7.8
PENNCROSS	8.3	7.3	7.8
BARRACUDA	8.7	7.0	7.8
DLFPS-AP/3059	8.3	7.0	7.7
DLFPS-AP/3058	8.7	6.3	7.5
PURE ECLIPSE (PST-ROPS)	8.3	6.7	7.5
V-8	8.0	7.0	7.5
LUMINARY	8.7	5.7	7.2
DLFPS-AP/3018	8.3	5.7	7.0
SHARK	8.0	6.0	7.0
TOUR PRO (GDE)	8.7	5.3	7.0
L-93 XD	8.7	4.3	6.5
PENN A-1	8.3	3.3	5.8
DECLARATION	8.0	3.7	5.8
LSD VALUE	0.8	3.6	1.9
C.V. (%)	6.1	34.8	22.0

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 21. ANTHRACNOSE RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2017 DATA

ANTHRACNOSE RATINGS 1-9; 9=NO DISEASE 2/

NAME	NJ1
NIGHTLIFE	8.0
777 (DLFPS-AP/3054)	7.7
ARMOR	7.7
KINGDOM	7.7
L-93 XD	7.3
PIRANHA (DC-1)	7.3
DECLARATION	7.0
DLFPS-AP/3018	6.7
LUMINARY	6.7
DLFPS-AP/3056	6.3
PURE SELECT	6.3
PURE ECLIPSE (PST-ROPS)	6.0
V-8	6.0
DLFPS-AP/3059	5.7
DLFPS-AP/3058	5.3
SHARK	5.0
TOUR PRO (GDE)	5.0
BARRACUDA	4.7
PENN A-1	4.7
PENNCROSS	1.3
LSD VALUE	2.6
C.V. (%)	26.0

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

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

NAME	MI1
DLFPS-AP/3018	8.0
DLFPS-AP/3056	8.0
PIRANHA (DC-1)	8.0
PURE ECLIPSE (PST-ROPS)	8.0
TOUR PRO (GDE)	8.0
BARRACUDA	7.7
DLFPS-AP/3059	7.7
777 (DLFPS-AP/3054)	7.3
DLFPS-AP/3058	7.3
L-93 XD	7.3
NIGHTLIFE	7.3
V-8	7.3
ARMOR	7.0
DECLARATION	7.0
KINGDOM	7.0
LUMINARY	7.0
SHARK	7.0
PURE SELECT	6.7
PENN A-1	6.3
PENNCROSS	4.3
LSD VALUE	0.8
C.V. (%)	7.2

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

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

TABLE 23. COPPER SPOT RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A GREEN  
2017 DATA

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

NAME	MO1
ARMOR	9.0
DLFPS-AP/3058	8.7
PENNCROSS	8.7
BARRACUDA	8.3
KINGDOM	8.3
PIRANHA (DC-1)	8.3
V-8	8.3
DLFPS-AP/3018	8.0
DLFPS-AP/3056	8.0
NIGHTLIFE	8.0
PENN A-1	8.0
777 (DLFPS-AP/3054)	7.7
L-93 XD	7.7
SHARK	7.7
DLFPS-AP/3059	7.3
PURE ECLIPSE (PST-ROPS)	7.3
LUMINARY	6.7
TOUR PRO (GDE)	6.7
PURE SELECT	6.3
DECLARATION	4.3
LSD VALUE	2.9
C.V. (%)	23.1

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 24. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A GREEN AT EAST LANSING, MI 1/  
2017 DATA

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

NAME	OCT_17	OCT_19	MEAN
TOUR PRO (GDE)	9.0	8.3	8.7
DLFPS-AP/3058	9.0	8.0	8.5
L-93 XD	9.0	8.0	8.5
BARRACUDA	8.7	8.0	8.3
DECLARATION	8.7	8.0	8.3
PENN A-1	8.7	8.0	8.3
V-8	8.7	8.0	8.3
PIRANHA (DC-1)	8.3	8.0	8.2
DLFPS-AP/3056	8.0	7.3	7.7
LUMINARY	8.0	7.3	7.7
DLFPS-AP/3018	8.0	7.0	7.5
DLFPS-AP/3059	8.0	7.0	7.5
NIGHTLIFE	7.7	7.3	7.5
PURE ECLIPSE (PST-ROPS)	8.0	7.0	7.5
777 (DLFPS-AP/3054)	8.0	6.7	7.3
PURE SELECT	7.3	7.3	7.3
SHARK	7.7	7.0	7.3
PENNCROSS	7.3	7.0	7.2
KINGDOM	6.7	5.3	6.0
ARMOR	5.7	4.7	5.2
LSD VALUE	1.2	1.1	1.1
C.V. (%)	8.9	9.4	8.5

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 GREEN  
2017 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	QUALITY	MAXIMUM
	MEAN 1/	IN TOP 25% 2/
777 (DLFPS-AP/3054)	6.6	16.7
ARMOR	5.8	0.0
BARRACUDA	6.6	25.0
DECLARATION	6.3	41.7
DLFPS-AP/3018	6.7	33.3
DLFPS-AP/3056	6.6	8.3
DLFPS-AP/3058	6.9	58.3
DLFPS-AP/3059	6.2	0.0
KINGDOM	6.2	16.7
L-93 XD	6.7	50.0
LUMINARY	6.5	16.7
NIGHTLIFE	6.4	25.0
PENN A-1	5.9	8.3
PENNCROSS	4.5	0.0
PIRANHA (DC-1)	6.9	58.3
PURE ECLIPSE (PST-ROPS)	6.6	41.7
PURE SELECT	6.5	50.0
SHARK	6.3	0.0
TOUR PRO (GDE)	6.5	25.0
V-8	6.6	16.7
LSD VALUE	0.2	
C.V. (%)	7.8	

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

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

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

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