

## 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 Federation, Inc.

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

Dr. Leah Brilman, Seed Research of Oregon  
Ms. Chris McDowell, Pickseed West, Inc.  
Dr. Michael Kenna, USGA Green Section  
Dr. David Williams, University of Kentucky  
Dr. Bernd Leinauer, New Mexico State University  
Mr. Ike Thomas  
Dr. Clark Throssell, Golf Course Superintendents Assoc. of America  
Dr. Brian Horgan, University of Minnesota

### **FOR ADDITIONAL REPORTS OR INFORMATION CONTACT:**

Kevin Morris, Executive Director  
National Turfgrass Evaluation Program  
Beltsville Agricultural Research Center-West  
Building 003, Room 218  
Beltsville, Maryland 20705  
[kmorris@ntep.org](mailto:kmorris@ntep.org)  
[www.ntep.org](http://www.ntep.org)

CONTENTS

2003 National Bentgrass (Fairway/Tee) Test - 2004 data

LOCATIONS SUBMITTING DATA FOR 2004.....1

NATIONAL BENTGRASS (FAIRWAY/TEE) TEST, 2003 - Entries and Sponsors.....2

Table A - 2004 Locations, Site Descriptions and Management Practices  
in the 2003 National Bentgrass (Fairway/Tee) Test.....3

Table B - Locations and Data Collected in 2004.....4

Table 1 - Mean Turfgrass Quality Ratings of Bentgrass Cultivars Grown  
on a Fairway or Tee at Four Locations in the Northeast Region....7

Table 2 - Mean Turfgrass Quality Ratings of Bentgrass Cultivars Grown  
on a Fairway or Tee at Five Locations in the Transition Region...8

Table 3 - Mean Turfgrass Quality Ratings of Bentgrass Cultivars Grown  
on a Fairway or Tee at Nine Locations in the North  
Central Region.....9

Table 4 - Mean Turfgrass Quality Ratings of Bentgrass Cultivars Grown  
on a Fairway or Tee at Pomona, CA.....10

Table 5 - Mean Turfgrass Quality Ratings of Bentgrass Cultivars Grown  
on a Fairway or Tee at Puyallup, WA under Low Maintenance.....11

Table 6 - Genetic Color Ratings of Bentgrass Cultivars Grown  
on a Fairway or Tee.....12

Table 7 - Spring Greenup Ratings of Bentgrass Cultivars Grown  
on a Fairway or Tee.....13

Table 8 - Leaf Texture Ratings of Bentgrass Cultivars Grown  
on a Fairway or Tee.....14

Table 9 - Seedling Vigor Ratings of Bentgrass Cultivars Grown  
on a Fairway or Tee.....15

Table 10 - Spring Density Ratings of Bentgrass Cultivars Grown  
on a Fairway or Tee.....16

Table 11 - Summer Density Ratings of Bentgrass Cultivars Grown  
on a Fairway or Tee.....17

CONTENTS (Continued)

Table 12 - Fall Density Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	18
Table 13 - Percent Living Ground Cover (Spring) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	19
Table 14 - Percent Living Ground Cover (Summer) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	20
Table 15 - Percent Living Ground Cover (Fall) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	21
Table 16 - Winter Color Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	22
Table 17 - Microdochium Patch Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	23
Table 18 - Dollar Spot Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	24
Table 19 - Brown Patch (Warm Temperature) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	25
Table 20 - Pink Snow Mold Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	26
Table 21 - Fall Color (September) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	27
Table 22 - Fall Color (October) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	28
Table 23 - Fall Color (November) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	29
Table 24 - Fall Color (December) Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	30
Table 25 - Poa Annua Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	31
Table 26 - Mowing Quality Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	32

CONTENTS (Continued)

Table 27 - Percent Establishment Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	33
Table 28 - Scalping Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	34
Table 29 - Percent Poa Annua Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	35
Table 30 - Copper Spot Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	36
Table 31 - Dollar Spot Ratings of Bentgrass Cultivars Grown on a Fairway or Tee at Lemont, IL.....	37
Table 32 - Percent Dollar Spot Ratings of Bentgrass Cultivars Grown on a Fairway or Tee at Lexington, KY.....	38
Table 33 - Brown Patch Ratings of Bentgrass Cultivars Grown on a Fairway or Tee at Blacksburg, VA.....	39
Table 34 - Percent Cover Ratings from Divot Recovery of Bentgrass Cultivars Grown on a Fairway or Tee at Stillwater, OK.....	40
Appendix Table - Summary of Turfgrass Quality Ratings of Bentgrass Cultivars Grown on a Fairway or Tee.....	41

## **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 1999-2002 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>.

2003 NATIONAL BENTGRASS TEST  
(Fairway/Tee)

LOCATIONS SUBMITTING DATA FOR 2004

<u>State</u>	<u>Location</u>	<u>Code</u>
California	Pomona	CA7
Illinois	Urbana	IL1
Illinois	Lemont	IL3
Indiana	West Lafayette	IN1
Iowa	Ames	IA1
Kansas	Manhattan	KS1
Kentucky	Lexington	KY1
Maryland	College Park	MD1
Massachusetts	Amherst	MA1
Michigan	East Lansing	MI1
Minnesota	St. Paul	MN1
Nebraska	Mead	NE1
New Jersey	North Brunswick	NJ1
North Dakota	Fargo	ND1
Oklahoma	Stillwater	OK1
Pennsylvania	University Park	PA1
Quebec	Quebec City	QE1
Virginia	Blacksburg	VA1
Washington	Pullman	WA1
Washington	Puyallup (Low Maintenance)	WA3
Wisconsin	Madison	WI1

2003 NATIONAL BENTGRASS TEST  
(Fairway/Tee)

Entries and Sponsors

Entry No.	Name	Species	Sponsor
1	LS-44	creeping	Links Seed, LLC
2	L-93	creeping	Standard Entry
3	Bardot	colonial	Standard Entry
4	Penncross	creeping	Standard Entry
5	EWTR	colonial	Landmark Seed Co.
6	Alpha	creeping	Jacklin Seed by Simplot
7	T-1	creeping	Jacklin Seed by Simplot
8	Princeville	creeping	LESCO, Inc.
9	13-M	creeping	Pennington Seed
10	Declaration	creeping	Lebanon Turf Products
11	Independence	creeping	Lebanon Turf Products
12	Tiger II	colonial	Standard Entry
13	235050	creeping	LESCO, Inc.
14	Bengal	creeping	Barenbrug USA
15	Kingpin (9200)	creeping	ProSeeds Marketing
16	IS-AT 7	colonial	DLF International Seeds
17	IS-AP 14	creeping	DLF International Seeds
18	Shark (23R)	creeping	Mountain View Seeds, Ltd.
19	SR 7150	colonial	Seed Research of Oregon
20	SRX 1GPD	creeping	Seed Research of Oregon
21	SR 1119	creeping	Seed Research of Oregon
22	SRX 1PDH	creeping	Seed Research of Oregon
23	Pennlinks II	creeping	Tee-2-Green Corp.
24	Penneagle II	creeping	Tee-2-Green Corp.
25	PST-OEB	creeping	Pure-Seed Testing, Inc.
26	PST-9NBC	colonial	Pure-Seed Testing, Inc.
27	PST-9VN	colonial	Pure-Seed Testing, Inc.
28	Seaside	creeping	Standard Entry

TABLE A.

2004 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN  
THE 2003 NATIONAL BENTGRASS (FAIRWAY/TEE) TEST

LOCATION	SOIL TEXTURE	SOIL PH	SOIL PHOSPHOROUS (LBS/ACRE)	SOIL POTASSIUM (LBS/ACRE)	NITROGEN (LBS/1000 SQ FT)	SUN OR SHADE	MOWING HEIGHT (IN)	IRRIGATION PRACTICED
CA7	SANDY LOAM	7.1-7.5	0-60	376-500	0.0-1.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
IA1	SANDY CLAY LOAM	7.1-7.5	0-60	241-375	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IL1	SILT LOAM AND SILT	6.1-6.5	0-60	376-500	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IL3	SILTY CLAY LOAM	7.6-8.5	0-60	151-240	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IN1	SILT LOAM AND SILT	6.6-7.0	151-270	241-375	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
KS1	SILT LOAM AND SILT	6.6-7.0	151-270	241-375	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
KY1	SILT LOAM AND SILT	6.1-6.5	61-150	241-375	2.1-3.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
MA1	LOAM	5.6-6.0	0-60	241-375	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
MD1	SILT LOAM AND SILT	5.6-6.0	61-150	0-150	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
MI1	SANDY LOAM	7.1-7.5	61-150	151-240	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT DORMANCY
MN1	SILT LOAM AND SILT	6.6-7.0	61-150	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
ND1	SILTY CLAY AND CLAY	7.6-8.5	0-60	0-150	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
NE1	SILTY CLAY AND CLAY	7.1-7.5	61-150	241-375	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
NJ1	SANDY LOAM	6.1-6.5	151-270	0-150	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
OK1	LOAM	7.6-8.5	61-150	501+	3.1-4.0	PARTIAL SHADE	0.0-0.5	TO PREVENT STRESS
PA1	SILT LOAM AND SILT	6.6-7.0	151-270	0-150	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
QE1	-	-	-	-	-	-	-	-
VA1	SILTY CLAY LOAM	4.6-5.5	0-60	0-150	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WA1	SILT LOAM AND SILT	5.6-6.0	271-450	501+	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WA3	SANDY LOAM	4.6-5.5	151-270	241-375	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WI1	SILT LOAM AND SILT	6.6-7.0	151-270	241-375	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT STRESS



TABLE B.

## LOCATIONS AND DATA COLLECTED IN 2004

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
CA7	X			X	X	X	X						X		
IA1				X	X	X	X	X	X	X			X		X
IL1				X	X	X	X	X	X	X			X	X	
IL3				X	X	X	X	X	X	X				X	
IN1					X	X	X	X	X	X	X		X	X	
KS1					X	X	X	X	X	X			X		
KY1			X	X	X	X	X	X	X	X			X		
MA1						X	X	X	X	X	X	X	X		
MD1								X	X	X	X				
MI1				X	X	X	X	X		X	X			X	X
MN1					X	X	X	X	X	X			X		
ND1							X	X	X	X	X		X		
NE1				X	X	X	X	X	X	X	X		X	X	
NJ1				X	X	X	X	X	X	X	X		X		X
OK1				X	X	X	X	X	X	X		X	X		
PA1					X	X	X	X	X	X			X		
QE1						X	X	X	X	X			X		X
VA1		X	X	X	X	X	X	X	X	X	X		X	X	
WA1															
WA3	X		X	X	X	X	X	X	X	X	X	X	X	X	
WI1					X	X	X	X	X	X			X		

TABLE B. (CONT'D)

## LOCATIONS AND DATA COLLECTED IN 2004

FALL COLOR LOCATION DECEMBER	SEEDLING VIGOR	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT	PERCENT	PERCENT	WINTER COLOR	MICRODOCHIUM PATCH	DOLLAR SPOT	BROWN	PINK	FALL	FALL	FALL
					COVER	COVER	COVER				PATCH	SNOW	COLOR	COLOR	COLOR
					SPRING	SUMMER	FALL				WARMTEMP	MOLD	SEPTEMBER	OCTOBER	NOVEMBER
CA7					X	X									
IA1															
IL1			X												
IL3			X		X							X			
IN1										X					
KS1										X					
KY1	X		X					X							
MA1	X		X					X							
X MD1										X					
MI1	X	X		X	X			X							
MN1			X						X						
ND1	X		X	X		X							X	X	X
NE1		X	X	X											
NJ1				X						X	X				
OK1	X			X	X	X	X								
PA1	X	X								X					
QE1	X		X	X											
VA1			X					X		X		X			
WA1															
WA3	X		X												
WI1					X	X	X			X					

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2004

LOCATION	POA ANNUA	MOWING QUALITY	PERCENT ESTABLISHMENT	SCALPING RATINGS	PERCENT POA ANNUA	COPPER SPOT	DOLLAR SPOT JUNE	DOLLAR SPOT JULY	DOLLAR SPOT AUGUST	DOLLAR SPOT SEPTEMBER	DOLLAR SPOT OCTOBER	BROWN PATCH JUNE	BROWN PATCH JULY
CA7			X										
IA1			X										
IL1			X										
IL3								X		X	X		
IN1													
KS1				X									
KY1							X	X	X				
MA1													
MD1			X										
MI1													
MN1													
ND1	X	X											
NE1													
NJ1			X			X							
* OK1													
PA1				X									
QE1													
VA1			X									X	X
WA1			X										
WA3													
WI1					X								

\* MORE PERCENT COVER RATINGS FROM DIVOT RECOVERY FOR OK1, SEE TABLE 34.

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE AT FOUR LOCATIONS 1/  
IN THE NORTHEAST REGION  
2004 DATA

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

NAME	MA1	NJ1	PA1	QE1	MEAN
* DECLARATION	5.9	7.6	7.1	7.3	7.0
13-M	5.4	6.7	7.7	7.4	6.8
KINGPIN (9200)	5.5	6.8	7.3	7.5	6.8
* T-1	5.6	5.9	7.8	7.7	6.7
235050	5.3	6.3	7.8	7.4	6.7
SRX 1GPD	6.0	6.1	7.3	7.4	6.7
PST-0EB	5.8	5.9	7.6	7.5	6.7
SHARK (23R)	5.5	6.1	7.5	7.3	6.6
IS-AT 7	5.8	6.0	7.0	7.4	6.6
* PENNEAGLE II	5.4	5.8	7.2	7.5	6.5
SRX 1PDH	5.1	6.0	7.2	7.3	6.4
IS-AP 14	4.9	5.8	7.3	7.5	6.4
* ALPHA	5.5	5.5	7.0	7.3	6.3
* LS-44	5.0	5.8	6.9	7.5	6.3
* TIGER II	5.4	5.4	7.0	7.3	6.3
PST-9NBC	5.0	5.6	6.9	7.4	6.3
EWTR	5.5	5.8	6.5	7.2	6.2
* BENGAL	5.5	5.1	6.9	7.4	6.2
* SR 7150	5.1	5.3	6.8	7.3	6.1
* INDEPENDENCE	5.3	4.9	6.7	7.5	6.1
PST-9VN	5.2	5.7	6.4	6.9	6.1
* SR 1119	5.0	5.4	6.5	7.3	6.1
* BARDOT	5.3	5.2	6.4	7.0	6.0
* PENNLINKS II	4.7	5.5	6.0	7.3	5.9
* L-93	4.8	5.4	6.8	5.9	5.7
* PRINCEVILLE	4.4	4.3	5.6	6.6	5.2
* PENNCROSS	5.0	3.4	5.6	6.9	5.2
* SEASIDE	3.0	1.9	3.6	5.9	3.6
LSD VALUE	0.7	0.8	0.5	0.3	0.3
C.V. (%)	7.8	9.1	4.9	2.7	6.1

\* COMMERCIALY AVAILABLE IN THE USA IN 2005.

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  
A FAIRWAY OR TEE AT FIVE LOCATIONS 1/  
IN THE TRANSITION REGION  
2004 DATA

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

NAME	KS1	KY1	MD1	OK1	VA1	MEAN
13-M	6.1	7.3	7.1	7.5	6.1	6.8
KINGPIN (9200)	6.3	7.0	6.0	7.4	5.6	6.5
LS-44	5.9	7.0	5.7	7.6	6.0	6.4
L-93	5.9	6.3	6.6	7.5	5.7	6.4
PENNLINKS II	5.9	7.1	5.7	7.3	6.0	6.4
DECLARATION	5.3	7.0	6.7	7.0	5.8	6.4
PST-OEB	5.7	7.1	6.0	7.5	5.5	6.4
PENNEAGLE II	5.8	7.1	5.8	7.6	5.4	6.3
T-1	6.2	6.7	5.1	7.3	6.2	6.3
SRX 1GPD	5.6	6.5	6.3	7.5	5.5	6.3
SHARK (23R)	5.9	7.0	5.8	7.5	5.1	6.3
235050	5.3	6.7	6.3	7.3	5.6	6.2
ALPHA	5.9	6.3	5.2	7.2	5.8	6.1
SR 1119	6.0	6.5	4.9	7.1	5.8	6.1
SRX 1PDH	5.3	6.6	5.9	7.3	5.2	6.1
IS-AP 14	5.4	6.3	5.8	7.5	5.2	6.0
BENGAL	5.6	6.2	4.5	7.3	5.4	5.8
PRINCEVILLE	5.8	5.8	3.8	6.8	6.3	5.7
INDEPENDENCE	5.0	6.3	4.5	7.4	5.2	5.7
PENNCROSS	6.1	5.6	4.0	7.2	5.3	5.6
BARDOT	5.3	5.9	4.0	6.7	5.7	5.5
EWTR	5.1	7.2	4.2	5.7	5.3	5.5
PST-9NBC	5.7	6.3	4.3	5.4	5.5	5.5
IS-AT 7	5.4	6.6	4.1	5.6	5.6	5.4
PST-9VN	5.4	6.5	4.2	5.1	5.1	5.2
TIGER II	4.9	5.9	4.0	6.5	4.9	5.2
SR 7150	4.8	6.4	3.2	6.1	5.3	5.2
SEASIDE	4.9	4.6	2.8	5.7	5.0	4.6
LSD VALUE	0.7	0.5	0.7	1.0	1.8	0.5
C.V. (%)	8.2	4.6	8.3	9.4	20.1	11.1

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

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

TABLE 3. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE AT NINE LOCATIONS 1/  
IN THE NORTH CENTRAL REGION  
2004 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/									MEAN
	IA1	IL1	IL3	IN1	MI1	MN1	ND1	NE1	WI1	
T-1	7.4	6.1	7.5	7.4	6.7	7.1	5.2	7.0	5.3	6.6
DECLARATION	7.4	5.9	7.2	6.3	6.5	7.1	4.8	7.1	7.0	6.6
SHARK (23R)	7.0	5.7	7.3	6.9	6.8	6.5	4.7	7.3	6.4	6.5
PST-OEB	6.5	6.0	7.4	7.0	6.4	6.9	5.1	6.9	5.6	6.4
KINGPIN (9200)	6.4	5.4	7.5	7.1	6.8	6.2	4.5	7.5	5.3	6.3
235050	6.5	5.8	7.4	7.2	6.6	6.4	4.9	6.0	5.8	6.3
PENNEAGLE II	7.1	5.9	7.4	7.0	6.3	6.6	4.9	5.5	6.0	6.3
ALPHA	6.9	5.6	6.8	7.0	6.3	6.5	5.1	6.8	5.4	6.3
LS-44	6.6	5.5	7.0	7.2	6.5	6.7	4.7	6.3	5.4	6.2
13-M	6.4	5.9	7.1	6.8	6.7	6.5	4.6	6.3	5.4	6.2
IS-AP 14	6.5	5.4	7.1	6.6	6.5	6.5	4.5	6.3	5.6	6.1
SRX 1GPD	6.3	5.4	7.0	6.4	6.5	6.5	4.4	7.3	5.2	6.1
L-93	7.1	5.3	6.7	6.7	6.2	6.2	4.8	6.8	4.9	6.1
BENGAL	6.6	5.4	6.7	6.9	6.6	6.4	4.6	6.3	5.3	6.1
SRX 1PDH	6.3	5.6	7.0	6.3	6.0	6.1	4.7	7.0	5.4	6.0
PENNLINKS II	6.9	5.2	7.3	6.5	6.1	6.1	5.3	5.7	5.1	6.0
SR 1119	6.5	5.3	6.8	6.8	6.0	6.4	4.4	6.2	5.2	6.0
INDEPENDENCE	6.8	5.2	6.4	6.7	6.3	6.6	4.8	5.0	5.2	5.9
PRINCEVILLE	6.2	5.2	6.4	5.3	6.0	5.9	4.7	5.5	4.8	5.6
PENNCROSS	6.3	5.5	6.3	5.3	5.8	5.6	4.7	5.6	4.9	5.6
IS-AT 7	5.6	5.1	6.5	5.3	6.2	5.9	4.9	5.6	4.7	5.5
PST-9NBC	5.0	5.0	6.6	4.9	6.0	6.0	5.2	6.4	4.2	5.5
EWTR	5.5	4.8	6.8	5.1	5.9	5.5	5.0	6.4	3.9	5.4
TIGER II	5.1	5.1	6.5	4.8	5.9	5.6	5.5	6.1	4.0	5.4
SR 7150	5.5	4.7	6.2	4.7	5.5	5.6	4.9	7.5	3.8	5.4
BARDOT	5.2	4.6	5.9	4.5	5.4	5.2	4.5	7.3	3.8	5.2
PST-9VN	5.1	4.7	6.0	4.9	5.7	5.3	5.3	5.5	3.9	5.2
SEASIDE	5.1	3.8	5.7	3.4	5.5	4.9	5.0	5.5	3.8	4.7
LSD VALUE	0.6	0.7	0.5	0.7	0.4	0.4	0.6	0.4	0.7	0.2
C.V. (%)	6.1	7.8	4.6	7.0	4.5	4.2	8.0	4.2	8.7	6.1

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

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

TABLE 4. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS FOR EACH MONTH GROWN  
A FAIRWAY OR TEE AT POMONA, CA 1/  
2004 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS 2/						
NAME	JAN	APR	MAY	JUN	JUL	MEAN
235050	7.3	8.3	7.7	8.0	6.7	7.6
T-1	7.0	7.7	8.0	8.3	7.0	7.6
SHARK (23R)	7.3	8.0	8.0	8.7	6.0	7.6
DECLARATION	7.0	7.7	7.7	8.3	6.7	7.5
PENNEAGLE II	7.0	8.3	7.7	8.0	6.3	7.5
PST-OEB	7.3	7.7	8.0	7.7	6.7	7.5
ALPHA	7.0	7.7	8.0	8.0	6.3	7.4
SRX 1PDH	7.0	7.7	8.0	8.3	6.0	7.4
BENGAL	7.3	7.7	8.0	8.0	6.0	7.4
INDEPENDENCE	7.0	8.0	7.7	7.3	6.7	7.3
IS-AP 14	7.3	8.0	8.0	8.0	5.3	7.3
13-M	7.3	7.7	8.0	8.3	5.0	7.3
SR 1119	7.0	8.0	8.0	8.0	5.3	7.3
LS-44	7.3	7.0	7.7	8.0	5.3	7.1
PENNCROSS	7.3	7.7	7.3	7.3	5.7	7.1
L-93	7.3	7.7	7.3	7.7	5.0	7.0
PST-9NBC	7.3	7.3	7.7	7.3	5.3	7.0
PST-9VN	7.0	6.7	7.7	7.7	6.0	7.0
PENNLINKS II	7.0	7.7	7.3	7.7	5.0	6.9
SR 7150	7.0	7.0	8.0	7.3	5.3	6.9
KINGPIN (9200)	7.0	6.7	7.3	7.7	6.0	6.9
EWTR	7.7	6.3	7.3	7.3	5.7	6.9
TIGER II	6.7	6.7	7.7	8.0	5.3	6.9
IS-AT 7	6.7	7.0	7.7	7.3	5.3	6.8
BARDOT	7.7	6.3	7.0	7.7	5.3	6.8
SRX 1GPD	6.7	7.0	7.7	7.7	4.7	6.7
PRINCEVILLE	7.0	7.7	7.0	7.3	4.0	6.6
SEASIDE	7.0	7.7	7.3	7.0	4.0	6.6
LSD VALUE	0.9	1.1	0.9	0.8	2.2	0.7
C.V. (%)	7.5	9.4	7.1	6.6	24.3	5.9

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 5. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS FOR EACH MONTH GROWN  
A FAIRWAY OR TEE AT PUYALLUP, WA 1/  
UNDER LOW MAINTENANCE  
2004 DATA

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

NAME	JAN	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
EWTR	5.0	7.0	7.0	7.0	6.7	7.3	8.3	8.0	6.7	6.0	6.0	6.8
IS-AP 14	4.3	5.7	7.0	7.0	6.3	6.7	7.0	7.3	8.0	7.0	6.3	6.6
IS-AT 7	5.0	5.7	7.7	6.7	6.7	7.0	7.3	7.3	6.7	6.0	5.7	6.5
SHARK (23R)	4.3	5.7	6.7	7.0	6.3	6.3	7.0	8.0	7.3	6.7	6.3	6.5
SR 7150	5.0	7.0	7.3	7.0	6.3	6.3	7.7	7.3	6.3	5.7	5.0	6.5
PENNEAGLE II	5.0	6.3	7.0	7.0	6.3	6.3	6.3	6.3	7.3	6.3	6.0	6.4
PST-9NBC	5.0	7.0	7.0	7.3	7.0	6.0	7.3	7.0	6.0	5.0	5.3	6.4
T-1	4.0	7.0	6.3	7.0	6.0	6.3	6.7	7.3	7.0	6.3	5.7	6.3
TIGER II	5.3	5.7	6.3	6.7	6.7	6.0	7.0	7.3	6.7	6.3	5.7	6.3
INDEPENDENCE	4.3	6.0	6.3	6.3	6.0	6.7	6.3	7.0	7.3	6.7	6.0	6.3
KINGPIN (9200)	5.0	6.0	5.7	7.0	6.7	6.3	6.3	7.0	6.7	6.3	5.7	6.2
ALPHA	4.7	6.7	6.7	7.0	6.0	6.3	6.7	6.7	6.3	6.0	5.3	6.2
235050	3.3	5.0	5.7	6.3	6.0	6.3	7.0	7.7	7.3	7.0	6.3	6.2
BARDOT	5.3	5.7	6.3	6.7	6.7	6.7	7.3	7.0	5.7	5.3	5.0	6.2
DECLARATION	4.3	5.7	6.7	6.3	6.0	5.7	6.0	6.7	7.0	6.7	6.3	6.1
SR 1119	3.7	6.0	6.7	6.7	6.0	6.0	6.7	7.0	7.3	6.0	5.3	6.1
SRX 1GPD	4.0	6.0	7.0	7.0	6.0	6.0	6.3	6.7	6.7	6.0	5.3	6.1
13-M	4.3	5.7	7.0	6.3	6.0	5.7	6.3	6.7	6.3	6.0	5.7	6.0
BENGAL	3.7	5.7	6.7	7.0	5.7	5.7	6.0	7.0	6.7	6.0	6.0	6.0
PST-OEB	5.0	6.3	6.3	6.7	6.0	6.3	6.7	6.3	5.7	5.0	5.7	6.0
LS-44	4.3	6.3	6.0	6.7	6.3	5.7	6.3	7.0	5.7	5.0	5.7	5.9
SRX 1PDH	3.7	6.0	6.3	5.7	5.3	5.3	6.0	6.7	6.7	5.7	5.3	5.7
PENNLINKS II	4.7	6.0	6.3	6.0	6.0	6.0	5.7	6.3	5.7	4.7	5.0	5.7
PST-9VN	4.7	6.3	6.3	6.3	6.0	5.3	6.7	5.7	6.0	4.7	4.3	5.7
PENNCROSS	4.7	5.0	5.7	5.7	5.7	5.7	6.0	6.7	4.7	5.0	4.7	5.4
L-93	4.3	5.0	5.3	5.3	5.3	5.0	6.0	6.0	6.0	5.3	5.0	5.3
PRINCEVILLE	4.3	4.7	5.0	5.0	6.0	4.7	5.3	6.0	6.3	5.3	5.3	5.3
SEASIDE	5.0	5.3	5.0	5.0	5.0	4.3	5.3	5.7	5.0	4.3	4.3	4.9
LSD VALUE	1.1	1.5	1.3	1.2	1.2	1.4	1.3	1.3	1.4	1.0	1.2	0.8
C.V. (%)	15.1	15.6	12.3	11.3	12.6	14.8	12.7	11.6	13.1	10.8	13.6	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 6.

GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	CA7	IA1	IL1	IN1	KS1	KY1	MA1	MN1	ND1	NE1	NJ1	OK1	PA1	QE1	VA1	WA3	WI1	MEAN
T-1	7.3	9.0	7.7	7.0	8.3	8.3	6.3	8.0	6.7	7.7	7.0	8.0	8.7	8.0	7.7	7.3	7.3	7.7
KINGPIN (9200)	7.3	8.7	7.0	7.0	8.0	8.0	6.3	7.3	7.7	7.3	7.7	8.0	7.7	8.0	5.7	7.0	7.3	7.4
SR 1119	8.0	8.3	6.3	6.7	7.3	8.0	7.0	7.7	7.0	7.0	6.3	8.7	7.3	8.0	7.0	7.0	6.7	7.3
PST-9VN	8.3	7.7	6.7	6.0	5.0	8.0	7.0	5.7	8.0	7.7	6.3	9.0	6.3	7.7	8.0	6.7	8.0	7.2
ALPHA	7.0	8.3	6.0	7.0	7.3	7.7	6.3	7.7	7.7	7.3	6.3	7.0	7.3	8.0	6.7	6.7	7.3	7.2
LS-44	7.3	7.7	5.0	7.0	7.0	9.0	6.3	7.0	7.7	7.0	6.3	7.0	6.7	7.3	8.3	6.3	7.0	7.1
PENNLINKS II	7.3	8.3	6.0	6.7	6.3	7.3	6.3	7.0	7.7	7.0	7.0	8.0	6.3	7.3	8.0	5.7	7.3	7.0
PST-OEB	7.3	8.3	6.0	6.7	6.3	8.0	6.3	7.3	7.3	6.7	7.0	8.0	6.3	7.3	6.3	6.7	7.7	7.0
SR 7150	8.0	8.3	5.7	5.3	5.3	7.7	7.0	5.3	6.0	7.3	6.7	8.0	7.3	7.7	7.3	8.0	8.0	7.0
SHARK (23R)	7.3	8.0	5.0	6.7	6.7	8.3	6.7	6.3	6.7	8.0	6.3	7.0	6.3	7.3	7.7	6.3	7.3	6.9
PST-9NBC	8.3	7.7	5.3	6.0	5.3	9.0	7.0	5.7	6.7	6.0	6.3	7.7	6.0	7.3	7.3	8.3	7.7	6.9
PENNEAGLE II	7.7	8.7	6.3	7.0	7.3	7.7	6.7	6.7	7.3	5.0	6.3	7.3	6.3	7.0	7.0	6.3	6.7	6.9
EWTR	7.7	7.3	4.3	5.3	5.3	8.7	7.0	5.0	7.0	7.7	6.3	8.0	6.7	8.0	7.7	8.0	7.0	6.9
IS-AT 7	7.7	8.0	5.0	6.3	5.3	7.7	7.0	5.3	6.3	7.0	6.7	8.7	6.3	7.3	7.3	7.3	7.7	6.9
13-M	7.3	6.7	6.0	6.7	6.7	8.0	6.7	6.3	6.3	7.3	7.0	7.0	6.0	7.0	8.0	6.3	7.0	6.8
BENGAL	7.3	7.7	6.0	7.3	7.0	7.7	6.0	6.3	7.0	6.7	5.7	7.0	6.0	7.7	7.0	6.3	7.3	6.8
L-93	7.0	7.3	6.0	6.3	6.7	7.7	6.3	7.0	6.7	6.3	7.0	7.7	6.3	7.3	7.3	5.7	7.3	6.8
SRX 1GPD	7.0	7.7	5.7	6.3	6.7	7.3	7.0	6.3	6.7	7.3	7.0	6.0	6.0	7.0	7.7	6.7	7.0	6.8
DECLARATION	7.7	8.0	5.3	5.7	6.7	7.3	7.0	7.0	6.0	7.0	8.0	6.0	6.3	7.0	6.3	6.3	6.7	6.7
235050	7.0	7.7	5.3	6.7	6.7	7.0	6.3	6.3	6.7	6.3	7.0	6.7	6.3	7.0	6.3	7.3	7.7	6.7
TIGER II	7.3	7.3	4.7	5.0	5.3	7.3	6.7	5.0	7.3	7.3	6.3	9.0	6.0	7.0	7.3	8.0	6.7	6.7
INDEPENDENCE	7.0	7.7	4.7	6.0	6.3	7.3	6.7	7.3	6.3	7.3	6.0	6.0	6.3	7.3	6.7	6.3	7.7	6.6
IS-AP 14	6.3	7.0	5.3	6.0	6.0	7.0	6.0	6.7	7.0	7.0	6.7	6.3	5.3	7.3	8.0	6.7	6.3	6.5
SRX 1PDH	7.3	7.3	5.3	6.0	6.0	7.7	6.3	6.3	6.3	6.7	6.3	6.3	5.7	7.0	5.0	6.0	7.3	6.4
PENNCROSS	7.0	7.7	5.0	6.7	6.7	6.7	6.3	6.0	7.0	6.3	5.0	6.0	6.3	7.0	6.7	5.3	6.7	6.4
BARDOT	7.0	7.7	4.3	5.7	5.3	7.0	6.7	4.7	6.7	6.7	6.3	6.7	5.3	6.3	6.7	7.0	7.3	6.3
PRINCEVILLE	6.3	7.7	4.3	6.0	6.3	7.0	6.3	6.3	6.7	6.3	6.0	6.0	5.7	7.0	5.7	5.3	6.0	6.2
SEASIDE	7.0	5.7	3.7	5.7	6.0	5.7	4.3	4.7	6.0	5.3	4.7	6.0	2.3	6.0	5.0	5.3	7.0	5.3
LSD VALUE	1.0	1.1	1.1	1.3	0.9	1.1	0.7	0.8	1.2	0.8	0.9	0.5	0.9	0.6	1.5	1.6	1.2	0.3
C.V. (%)	8.5	8.7	12.7	12.5	8.3	8.8	7.1	8.2	10.4	7.4	8.6	4.5	8.9	5.4	13.3	15.3	10.4	9.6

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

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

TABLE 7. SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	IL1	IL3	IN1	MI1	NE1	VA1	WA3	MEAN
SR 7150	7.0	8.0	8.0	5.0	6.7	8.0	7.0	7.1
TIGER II	6.0	8.0	6.3	5.0	6.0	8.3	8.0	6.8
EWTR	6.0	7.7	7.3	5.0	6.0	8.3	7.0	6.8
BARDOT	6.7	7.3	6.7	5.0	7.0	6.7	7.0	6.6
KINGPIN (9200)	5.0	6.0	7.3	6.0	6.7	8.0	6.0	6.4
IS-AT 7	6.0	8.0	6.0	5.0	6.0	8.0	5.3	6.3
PST-9NBC	3.7	8.0	7.3	5.3	5.7	7.7	6.7	6.3
PST-9VN	3.0	7.7	8.3	5.0	5.3	9.0	5.7	6.3
ALPHA	6.0	5.7	6.7	6.0	6.7	7.7	5.0	6.2
PST-OEB	4.7	4.0	7.0	6.0	7.3	8.0	6.0	6.1
T-1	5.0	6.0	7.3	6.0	6.0	8.0	4.7	6.1
INDEPENDENCE	5.7	6.7	7.0	6.0	4.7	8.0	4.3	6.0
SHARK (23R)	5.3	4.3	6.7	6.0	6.7	7.0	5.0	5.9
PENNEAGLE II	4.3	4.3	7.3	6.0	5.3	8.0	5.7	5.9
DECLARATION	4.0	5.7	6.7	6.0	7.0	7.0	4.3	5.8
BENGAL	5.3	4.7	6.3	6.0	6.7	7.3	4.0	5.8
PENNLINKS II	4.3	4.3	7.0	6.0	5.3	8.3	5.0	5.8
SRX 1GPD	4.7	4.3	7.0	6.0	7.0	7.7	3.7	5.8
SR 1119	4.7	5.7	6.3	6.0	4.7	8.3	4.3	5.7
LS-44	5.0	4.7	6.3	6.0	5.0	7.7	5.0	5.7
13-M	4.0	4.3	7.0	6.0	6.3	7.3	4.0	5.6
IS-AP 14	5.3	5.3	5.7	6.0	5.7	6.3	4.7	5.6
L-93	5.0	5.0	6.0	6.0	4.7	7.3	4.0	5.4
SRX 1PDH	5.7	4.0	6.0	6.0	5.7	6.0	4.3	5.4
PENNCROSS	4.7	4.0	6.7	6.0	5.0	6.7	4.7	5.4
235050	4.0	4.0	7.0	6.0	5.3	7.0	4.0	5.3
PRINCEVILLE	4.7	4.3	5.3	6.0	4.7	7.0	4.7	5.2
SEASIDE	4.0	4.0	3.0	6.0	3.7	4.3	5.0	4.3
LSD VALUE	1.2	1.0	0.9	0.2	0.8	1.1	1.9	0.4
C.V. (%)	15.0	11.4	8.4	1.9	8.8	9.5	22.9	11.9

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 8. LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	IA1	MI1	NJ1	QE1	MEAN
DECLARATION	8.0	7.7	7.3	8.0	7.8
235050	7.7	7.3	6.7	8.0	7.4
SHARK (23R)	8.3	7.0	6.3	8.0	7.4
13-M	7.0	7.3	7.3	8.0	7.4
PENNEAGLE II	7.3	7.3	6.7	8.0	7.3
SRX 1GPD	7.3	7.0	7.0	8.0	7.3
PENNLINKS II	7.7	7.0	6.3	8.0	7.3
INDEPENDENCE	7.3	6.7	6.7	8.0	7.2
BENGAL	7.3	7.0	6.3	8.0	7.2
IS-AP 14	7.3	7.0	6.3	8.0	7.2
T-1	6.7	7.3	6.3	8.0	7.1
L-93	7.7	7.0	6.3	7.0	7.0
SRX 1PDH	6.7	6.7	6.7	8.0	7.0
ALPHA	7.0	7.0	5.7	8.0	6.9
BARDOT	5.3	7.7	6.7	8.0	6.9
KINGPIN (9200)	6.0	6.3	7.3	8.0	6.9
LS-44	7.0	6.3	6.3	8.0	6.9
SR 1119	6.7	6.7	6.0	8.0	6.8
PST-OEB	6.3	6.3	6.7	8.0	6.8
SR 7150	5.7	7.7	5.7	8.0	6.8
IS-AT 7	5.7	7.0	6.0	8.0	6.7
TIGER II	5.3	7.3	6.0	8.0	6.7
EWTR	5.7	6.7	6.3	7.7	6.6
PST-9NBC	5.0	7.3	6.0	8.0	6.6
PST-9VN	5.7	7.3	6.3	7.0	6.6
PENNCROSS	5.7	6.3	5.7	7.3	6.3
PRINCEVILLE	6.3	5.7	5.7	7.0	6.2
SEASIDE	5.7	5.3	4.0	6.0	5.3
LSD VALUE	1.4	1.0	1.0	0.2	0.5
C.V. (%)	12.9	8.9	9.6	2.0	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 9. SEEDLING VIGOR RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	KY1	MA1	MI1	ND1	OK1	PA1	QE1	WA3	MEAN
SEASIDE	8.7	7.3	7.0	7.3	7.7	7.3	6.7	7.0	7.4
PENNCROSS	7.7	7.0	7.3	7.3	5.0	7.7	8.0	9.0	7.4
PRINCEVILLE	8.0	7.3	7.0	6.0	6.7	7.3	7.7	7.3	7.2
IS-AP 14	7.7	7.3	7.0	6.3	6.7	7.0	7.7	7.3	7.1
T-1	7.0	7.7	7.3	6.7	4.7	7.7	7.3	8.3	7.1
LS-44	6.3	7.7	7.3	5.7	5.7	6.7	7.3	8.0	6.8
IS-AT 7	7.0	7.7	7.0	6.7	4.0	7.0	7.3	7.3	6.8
PENNEAGLE II	6.3	6.3	7.0	6.0	6.0	6.3	7.0	7.7	6.6
PENNLINKS II	7.0	6.7	7.0	6.3	4.3	6.7	7.0	7.7	6.6
PST-OEB	7.0	6.7	7.0	6.3	5.7	6.3	7.0	6.3	6.5
ALPHA	6.7	7.0	7.0	6.3	4.3	6.7	6.7	7.7	6.5
L-93	7.3	7.3	7.0	6.7	6.0	7.7	2.3	8.0	6.5
235050	6.7	6.3	7.0	7.0	5.7	6.0	7.0	6.7	6.5
SHARK (23R)	6.7	5.3	7.0	6.3	5.7	7.0	7.0	7.0	6.5
DECLARATION	7.7	7.0	7.0	6.0	4.0	6.0	6.7	7.0	6.4
TIGER II	5.7	7.3	7.3	6.3	5.3	6.3	6.7	6.3	6.4
BENGAL	5.7	7.0	7.3	5.3	5.3	6.7	6.7	7.0	6.4
INDEPENDENCE	6.3	6.0	7.3	6.3	4.0	6.7	6.7	7.7	6.4
13-M	5.7	7.3	6.0	6.3	5.7	6.7	6.3	6.7	6.3
PST-9NBC	7.7	6.0	7.0	6.3	3.3	6.7	6.7	6.7	6.3
PST-9VN	6.7	7.0	7.0	6.0	3.0	6.3	6.7	6.3	6.1
SRX 1PDH	6.0	5.3	7.3	5.7	3.7	6.3	7.0	7.0	6.0
EWTR	6.0	7.7	7.0	6.7	2.7	5.3	7.7	4.7	6.0
SR 7150	5.3	6.7	7.0	6.0	3.3	6.0	6.3	6.0	5.8
SRX 1GPD	6.0	4.3	7.0	6.0	4.7	5.3	6.7	6.0	5.8
BARDOT	3.3	7.3	7.0	6.0	4.7	6.0	6.7	3.3	5.5
KINGPIN (9200)	6.0	3.0	7.0	5.7	4.0	4.7	6.3	5.7	5.3
SR 1119	4.7	2.3	7.7	5.0	4.7	5.3	6.7	4.7	5.1
LSD VALUE	1.3	1.7	0.7	0.8	3.0	1.3	1.2	1.8	0.6
C.V. (%)	12.7	16.1	6.4	8.2	38.4	12.4	11.2	16.2	15.8

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

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

TABLE 10. SPRING DENSITY RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	MI1	NE1	PA1	MEAN
SHARK (23R)	7.0	9.0	9.0	8.3
SRX 1GPD	6.7	8.7	9.0	8.1
IS-AP 14	6.3	9.0	8.3	7.9
T-1	6.3	8.7	8.7	7.9
DECLARATION	7.0	8.3	8.0	7.8
PST-OEB	6.3	9.0	8.0	7.8
SRX 1PDH	6.7	8.7	8.0	7.8
13-M	7.0	8.3	7.7	7.7
ALPHA	6.7	8.3	8.0	7.7
KINGPIN (9200)	6.7	8.7	7.7	7.7
235050	6.7	8.0	8.3	7.7
BENGAL	7.0	8.0	7.7	7.6
PST-9NBC	6.7	8.7	7.3	7.6
IS-AT 7	6.7	8.0	7.7	7.4
PENNEAGLE II	6.7	8.0	7.7	7.4
SR 1119	7.0	8.0	7.3	7.4
BARDOT	6.0	8.7	7.3	7.3
L-93	6.7	8.0	7.3	7.3
SR 7150	6.3	8.0	7.7	7.3
LS-44	6.7	7.7	7.3	7.2
INDEPENDENCE	6.3	7.0	8.3	7.2
PENNLINKS II	6.7	8.0	6.7	7.1
TIGER II	6.3	8.0	7.0	7.1
PENNCROSS	7.0	7.7	6.0	6.9
PST-9VN	6.0	7.7	7.0	6.9
EWTR	6.0	8.0	6.3	6.8
PRINCEVILLE	7.0	7.3	5.7	6.7
SEASIDE	6.7	7.3	4.0	6.0
LSD VALUE	0.7	0.7	0.8	0.4
C.V. (%)	7.0	5.0	6.7	6.2

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

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

TABLE 11.

SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	IL1	IL3	KY1	MA1	MN1	ND1	NE1	QE1	VA1	WA3	MEAN
DECLARATION	7.7	8.0	8.7	7.0	8.0	5.0	8.7	8.0	8.7	6.7	7.6
SHARK (23R)	7.7	7.7	7.0	6.7	8.0	6.0	9.0	8.0	8.3	7.3	7.6
235050	7.3	8.0	6.7	6.7	8.0	6.3	8.3	8.0	8.7	7.3	7.5
SRX 1PDH	7.7	7.0	8.0	6.0	8.0	5.7	9.0	8.0	8.3	6.0	7.4
SRX 1GPD	7.7	7.7	7.3	7.0	8.0	4.7	8.7	8.0	7.7	6.7	7.3
IS-AP 14	7.3	7.3	6.0	5.7	8.0	6.3	9.0	8.0	8.3	7.3	7.3
KINGPIN (9200)	7.7	7.7	7.7	6.0	8.0	4.7	9.0	8.0	7.7	6.7	7.3
PST-9NBC	6.0	6.7	7.7	7.0	7.0	6.7	9.0	8.0	8.7	6.3	7.3
PST-OEB	7.0	7.0	7.0	6.0	8.0	7.0	9.0	8.0	7.7	6.3	7.3
ALPHA	7.3	6.7	6.0	6.3	8.0	6.7	9.0	7.7	8.3	7.0	7.3
13-M	7.3	8.0	7.7	6.0	7.7	5.3	8.3	8.0	8.3	6.0	7.3
T-1	7.3	7.3	5.7	6.3	8.0	5.3	8.7	8.0	8.3	7.3	7.2
LS-44	7.0	7.3	6.3	5.7	8.0	5.7	8.0	8.0	8.7	7.0	7.2
PENNEAGLE II	6.7	7.0	6.3	6.3	8.0	6.7	8.0	8.0	7.7	6.7	7.1
SR 7150	6.7	6.0	5.7	7.3	7.0	5.3	9.0	8.0	8.3	7.7	7.1
IS-AT 7	7.0	6.7	6.7	6.7	7.0	5.7	8.0	8.0	8.7	6.3	7.1
INDEPENDENCE	7.7	6.7	4.7	6.3	8.0	5.7	7.7	8.0	8.3	7.0	7.0
BENGAL	7.0	6.7	5.0	6.3	8.0	5.7	8.3	8.0	8.3	6.3	7.0
EWTR	7.0	6.7	7.3	6.0	7.0	5.0	8.3	8.0	7.7	6.7	7.0
TIGER II	6.3	6.3	6.3	6.7	7.0	6.3	8.0	8.0	8.0	6.7	7.0
SR 1119	7.7	6.7	5.7	5.7	8.0	4.3	8.3	8.0	8.3	6.3	6.9
PENNLINKS II	6.3	7.0	5.7	5.0	7.3	6.7	8.0	8.0	8.3	6.0	6.8
BARDOT	5.7	5.7	6.0	7.0	7.0	4.0	9.0	7.7	8.3	6.3	6.7
L-93	6.7	6.0	6.7	5.0	8.0	4.7	8.7	6.7	8.0	5.7	6.6
PST-9VN	6.3	5.7	6.0	6.3	7.0	6.0	8.0	8.0	7.7	5.0	6.6
PRINCEVILLE	6.3	6.3	5.0	4.3	7.3	5.7	7.7	7.0	9.0	6.0	6.5
PENNCROSS	6.0	5.7	3.7	4.7	7.0	5.3	8.3	8.0	7.0	5.0	6.1
SEASIDE	5.0	5.3	3.0	3.7	7.0	6.0	7.7	6.0	8.3	4.7	5.7
LSD VALUE	0.9	1.1	1.5	1.2	0.3	1.2	0.6	0.3	2.2	1.1	0.4
C.V. (%)	8.1	9.7	15.1	11.9	2.5	13.4	4.7	2.4	16.9	10.3	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 12. FALL DENSITY RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	MI1	ND1	NE1	NJ1	OK1	QE1	MEAN
DECLARATION	7.0	6.3	9.0	8.0	8.7	8.0	7.8
KINGPIN (9200)	7.0	6.0	9.0	7.7	9.0	8.0	7.8
SRX 1GPD	7.0	6.7	9.0	7.0	9.0	8.0	7.8
T-1	7.0	6.7	9.0	7.0	8.7	8.0	7.7
13-M	7.0	6.3	9.0	7.0	9.0	8.0	7.7
PST-OEB	6.7	6.7	9.0	7.0	8.7	8.0	7.7
IS-AP 14	7.0	6.0	9.0	6.7	9.0	8.0	7.6
ALPHA	6.3	7.0	9.0	6.3	9.0	8.0	7.6
235050	6.7	6.3	8.7	7.0	8.7	8.0	7.6
SHARK (23R)	7.0	6.0	9.0	6.3	9.0	8.0	7.6
SRX 1PDH	7.0	6.3	9.0	6.3	8.7	8.0	7.6
BENGAL	7.0	6.3	8.7	5.7	9.0	8.0	7.4
LS-44	6.3	6.7	8.3	6.3	8.7	8.0	7.4
SR 1119	6.7	6.0	9.0	6.3	8.3	8.0	7.4
PENNEAGLE II	6.3	6.3	8.7	6.3	8.7	8.0	7.4
PENNLINKS II	6.3	7.0	8.3	7.0	7.7	8.0	7.4
EWTR	6.0	7.0	9.0	6.3	7.7	8.0	7.3
IS-AT 7	6.0	7.7	8.7	6.7	7.0	8.0	7.3
L-93	6.3	6.3	8.7	7.0	8.7	7.0	7.3
BARDOT	6.0	7.0	9.0	6.3	8.0	7.7	7.3
INDEPENDENCE	6.7	6.3	7.7	6.0	9.0	8.0	7.3
SR 7150	6.0	7.0	9.0	6.7	7.0	8.0	7.3
PST-9NBC	6.0	7.0	9.0	6.3	7.0	8.0	7.2
TIGER II	6.0	7.7	8.3	6.3	6.3	8.0	7.1
PST-9VN	6.0	7.0	8.3	6.3	6.7	8.0	7.1
PRINCEVILLE	6.0	6.7	8.3	6.0	7.7	7.0	6.9
PENNCROSS	6.0	6.3	8.7	5.0	6.7	7.7	6.7
SEASIDE	5.7	7.3	8.3	4.7	6.0	6.0	6.3
LSD VALUE	0.6	1.2	0.6	0.9	0.9	0.2	0.3
C.V. (%)	5.3	10.9	4.5	8.6	7.0	2.0	6.7

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 13. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	CA7	IL3	MI1	OK1	WI1	MEAN
PENNEAGLE II	97.3	93.3	91.7	95.7	88.3	93.3
SHARK (23R)	98.7	86.7	91.7	94.0	92.3	92.7
PENNCROSS	96.0	88.3	95.0	91.0	90.0	92.1
PENNLINKS II	89.0	91.7	93.3	94.0	90.0	91.6
LS-44	96.0	88.3	93.3	86.7	88.3	90.5
SEASIDE	99.0	91.7	88.3	88.0	85.0	90.4
SRX 1PDH	93.7	91.7	91.7	85.0	90.0	90.4
DECLARATION	97.3	88.3	93.3	80.0	90.7	89.9
PRINCEVILLE	97.0	86.7	93.3	84.0	88.3	89.9
L-93	90.7	90.0	91.7	87.0	88.3	89.5
IS-AP 14	93.0	83.3	88.3	89.3	90.0	88.8
INDEPENDENCE	94.0	81.7	93.3	82.3	91.7	88.6
235050	98.7	83.3	90.0	78.3	91.7	88.4
SR 1119	93.7	85.0	95.0	80.0	88.3	88.4
T-1	90.3	90.0	86.7	82.3	88.3	87.5
PST-OEB	91.7	88.3	90.0	75.7	91.7	87.5
ALPHA	91.3	88.3	90.0	78.3	87.3	87.1
13-M	89.3	85.0	78.3	87.7	94.0	86.9
BENGAL	90.7	83.3	93.3	77.7	88.3	86.7
SRX 1GPD	87.0	76.7	88.3	81.7	90.0	84.7
IS-AT 7	89.7	73.3	86.7	81.7	85.7	83.4
TIGER II	85.0	73.3	90.0	90.0	73.3	82.3
KINGPIN (9200)	78.7	78.3	91.7	76.7	81.7	81.4
SR 7150	83.3	76.7	85.0	78.3	81.7	81.0
PST-9NBC	92.0	81.7	91.7	58.3	76.7	80.1
PST-9VN	81.7	71.7	88.3	73.3	81.7	79.3
EWTR	78.0	70.0	88.3	51.7	80.0	73.6
BARDOT	78.3	63.3	81.7	65.0	78.3	73.3
LSD VALUE	12.6	8.9	10.1	29.0	8.1	7.1
C.V. (%)	8.6	6.7	7.0	22.2	5.8	11.4

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

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



TABLE 14. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	CA7	ND1	OK1	WI1	MEAN
SHARK (23R)	99.0	99.0	97.3	90.3	96.4
DECLARATION	99.0	97.7	94.0	94.0	96.2
IS-AP 14	99.0	99.0	96.7	87.7	95.6
ALPHA	97.7	99.0	95.3	89.0	95.3
T-1	96.0	99.0	94.7	91.0	95.2
L-93	96.3	99.0	95.7	88.7	94.9
INDEPENDENCE	97.7	99.0	95.0	87.3	94.8
LS-44	97.7	96.0	96.0	89.0	94.7
235050	97.7	99.0	91.3	89.3	94.3
PENNLINKS II	96.0	99.0	96.0	85.7	94.2
PST-OEB	96.0	99.0	91.0	90.7	94.2
PENNEAGLE II	96.0	99.0	96.7	84.7	94.1
PRINCEVILLE	97.7	99.0	91.7	85.7	93.5
SRX 1PDH	99.0	99.0	95.0	81.0	93.5
13-M	98.7	99.0	96.0	78.7	93.1
SR 1119	97.7	99.0	93.3	81.0	92.8
BENGAL	97.7	96.0	90.0	87.0	92.7
SRX 1GPD	99.0	99.0	92.7	77.3	92.0
KINGPIN (9200)	89.7	99.0	91.7	86.7	91.8
IS-AT 7	97.3	99.0	89.7	79.0	91.3
PENNCROSS	95.0	99.0	96.7	72.7	90.8
SR 7150	97.7	99.0	94.3	71.7	90.7
TIGER II	96.0	99.0	94.7	68.3	89.5
SEASIDE	96.7	99.0	91.7	68.3	88.9
PST-9NBC	99.0	97.0	82.7	75.3	88.5
PST-9VN	97.7	99.0	76.7	75.7	87.3
BARDOT	93.0	96.7	88.7	69.0	86.8
EWTR	91.7	97.7	66.3	84.0	84.9
LSD VALUE	6.6	2.7	15.1	12.4	5.2
C.V. (%)	4.2	1.7	10.2	9.4	7.0

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

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

TABLE 15. PERCENT LIVING GROUND COVER (FALL) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	IN1	MA1	MI1	OK1	WI1	MEAN
DECLARATION	92.0	99.0	98.0	99.0	95.0	96.6
SRX 1PDH	97.7	96.0	99.0	99.0	90.0	96.3
SHARK (23R)	95.7	96.3	98.7	99.0	91.7	96.3
PST-OEB	96.0	99.0	98.7	99.0	88.3	96.2
PENNEAGLE II	96.3	96.3	98.0	99.0	91.3	96.2
ALPHA	94.3	97.7	98.0	99.0	91.3	96.1
SR 1119	95.0	96.3	98.0	99.0	91.7	96.0
KINGPIN (9200)	92.3	99.0	98.0	98.7	91.7	95.9
235050	94.0	94.7	98.3	99.0	93.3	95.9
T-1	95.7	97.7	97.7	99.0	88.3	95.7
INDEPENDENCE	94.0	97.7	97.7	99.0	89.3	95.5
IS-AP 14	96.0	94.7	98.0	99.0	90.0	95.5
L-93	95.0	94.7	98.3	99.0	90.7	95.5
LS-44	93.7	96.3	98.0	99.0	90.0	95.4
13-M	93.0	97.7	97.3	99.0	89.7	95.3
PRINCEVILLE	95.7	96.0	98.0	98.3	88.3	95.3
SRX 1GPD	93.0	97.7	98.0	99.0	88.3	95.2
BENGAL	92.0	97.7	98.0	99.0	89.0	95.1
PENNLINKS II	95.7	96.3	98.0	99.0	85.0	94.8
IS-AT 7	93.0	99.0	98.0	97.0	86.7	94.7
PENNCROSS	92.7	99.0	97.7	99.0	85.0	94.7
BARDOT	93.0	99.0	98.0	99.0	83.3	94.5
PST-9NBC	93.0	96.3	98.0	97.7	81.7	93.3
PST-9VN	92.3	95.0	97.7	97.3	83.3	93.1
SR 7150	92.0	96.3	97.7	97.3	81.7	93.0
TIGER II	89.3	96.0	98.0	98.3	83.3	93.0
EWTR	90.3	99.0	98.0	97.3	80.0	92.9
SEASIDE	95.0	91.7	97.0	97.7	81.7	92.6
LSD VALUE	3.3	4.5	0.9	1.3	4.7	1.5
C.V. (%)	2.2	2.9	0.6	0.9	3.3	2.2

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 16. WINTER COLOR RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	KY1	VA1	MEAN
PST-9NBC	8.7	6.3	7.5
SEASIDE	8.0	6.3	7.2
IS-AT 7	8.3	5.7	7.0
BARDOT	8.3	5.3	6.8
SR 7150	9.0	4.7	6.8
EWTR	8.0	5.0	6.5
PENNLINKS II	7.7	5.3	6.5
PST-9VN	7.7	5.0	6.3
PST-OEB	7.7	4.7	6.2
TIGER II	7.7	4.7	6.2
L-93	7.0	5.0	6.0
BENGAL	7.7	4.0	5.8
PRINCEVILLE	6.7	4.7	5.7
LS-44	7.0	4.3	5.7
ALPHA	6.7	4.3	5.5
DECLARATION	6.7	4.3	5.5
INDEPENDENCE	7.0	4.0	5.5
KINGPIN (9200)	6.7	4.3	5.5
PENNCROSS	6.7	4.3	5.5
SR 1119	7.0	4.0	5.5
13-M	6.7	4.0	5.3
T-1	6.7	4.0	5.3
SHARK (23R)	6.3	4.3	5.3
IS-AP 14	6.0	4.3	5.2
PENNEAGLE II	6.3	4.0	5.2
SRX 1GPD	6.0	4.0	5.0
SRX 1PDH	6.3	3.7	5.0
235050	5.7	4.0	4.8
LSD VALUE	0.9	0.8	0.6
C.V. (%)	7.6	11.4	9.1

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

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

TABLE 17. MICRODOCHIUM PATCH RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	MN1
13-M	9.0
BENGAL	9.0
DECLARATION	9.0
L-93	9.0
LS-44	9.0
PENNCROSS	9.0
PST-OEB	9.0
PENNEAGLE II	8.7
PRINCEVILLE	8.7
SR 1119	8.7
BARDOT	8.3
EWTR	8.3
INDEPENDENCE	8.3
IS-AP 14	8.3
SEASIDE	8.3
SRX 1PDH	8.3
IS-AT 7	8.0
PST-9NBC	8.0
PENNLINKS II	7.7
SHARK (23R)	7.7
SR 7150	7.7
T-1	7.7
TIGER II	7.7
ALPHA	6.7
235050	6.7
SRX 1GPD	6.7
KINGPIN (9200)	6.0
PST-9VN	4.3
LSD VALUE	1.5
C.V. (%)	12.1

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

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

TABLE 18. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

NAME	DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/							MEAN
	IN1	KS1	MD1	NJ1	PA1	VA1	WI1	
DECLARATION	8.7	8.3	7.7	9.0	7.7	5.7	8.3	7.9
EWTR	8.7	7.3	8.3	8.3	7.0	5.0	6.7	7.3
IS-AT 7	8.7	8.0	8.3	8.3	6.3	5.7	6.0	7.3
13-M	8.7	8.7	7.0	7.7	5.7	6.7	6.7	7.3
PST-9VN	8.7	8.7	8.3	8.0	5.3	4.0	7.0	7.1
PENNLINKS II	8.7	7.3	7.0	8.0	5.3	5.7	6.0	6.9
SR 7150	9.0	8.3	7.3	8.3	5.3	3.7	5.3	6.8
BARDOT	9.0	6.3	7.7	8.3	6.3	4.0	5.0	6.7
KINGPIN (9200)	8.3	7.0	4.7	7.7	6.0	5.0	7.3	6.6
TIGER II	7.7	6.3	7.7	8.3	5.7	4.3	5.0	6.4
235050	8.3	8.0	5.0	6.0	6.0	4.7	6.3	6.3
SEASIDE	7.0	5.3	7.3	7.3	6.7	6.0	4.0	6.2
L-93	8.7	6.3	5.0	6.7	5.0	5.7	5.7	6.1
PST-OEB	8.0	7.0	4.0	6.7	5.0	5.0	6.0	6.0
PST-9NBC	7.3	6.3	5.7	7.7	5.7	4.0	4.7	5.9
LS-44	8.3	6.3	4.0	6.0	4.0	6.3	5.7	5.8
SRX 1GPD	7.7	6.7	5.0	5.3	3.3	6.0	5.7	5.7
SRX 1PDH	8.3	6.0	4.3	5.7	4.3	4.7	5.7	5.6
SHARK (23R)	7.3	6.3	3.0	5.7	4.7	5.3	6.3	5.5
PENNEAGLE II	8.0	5.3	4.3	5.3	4.7	5.3	5.7	5.5
PENNCROSS	7.7	6.0	4.7	6.0	4.0	4.0	4.7	5.3
BENGAL	5.7	6.7	3.0	4.7	4.0	7.0	5.7	5.2
T-1	7.0	6.7	2.3	5.0	4.0	6.0	5.7	5.2
ALPHA	7.0	8.3	2.3	4.7	3.7	5.0	4.7	5.1
SR 1119	6.7	4.3	3.0	4.3	4.0	7.7	5.7	5.1
PRINCEVILLE	6.7	6.0	2.3	5.3	3.3	7.0	4.7	5.0
IS-AP 14	8.0	4.0	2.3	4.3	4.0	4.0	6.0	4.7
INDEPENDENCE	6.3	5.3	1.7	3.3	3.0	5.7	4.7	4.3
LSD VALUE	1.4	2.7	2.0	1.3	1.3	2.8	1.5	0.7
C.V. (%)	10.9	25.5	24.8	12.7	16.2	33.3	16.4	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.

TABLE 19. BROWN PATCH (WARM TEMPERATURE) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	IL3	NJ1	MEAN
DECLARATION	9.0	9.0	9.0
IS-AP 14	9.0	9.0	9.0
PENNEAGLE II	9.0	9.0	9.0
T-1	9.0	9.0	9.0
KINGPIN (9200)	9.0	8.7	8.8
SHARK (23R)	8.7	9.0	8.8
ALPHA	8.3	9.0	8.7
SRX 1GPD	8.3	8.7	8.5
BENGAL	9.0	7.7	8.3
PST-OEB	7.3	9.0	8.2
SR 1119	8.7	7.7	8.2
SRX 1PDH	7.3	9.0	8.2
PENNLINKS II	8.0	8.0	8.0
13-M	8.3	7.3	7.8
235050	6.7	9.0	7.8
INDEPENDENCE	7.0	8.3	7.7
LS-44	7.7	7.7	7.7
PENNCROSS	7.7	6.0	6.8
L-93	6.0	5.7	5.8
PRINCEVILLE	5.7	5.7	5.7
EWTR	6.0	3.3	4.7
BARDOT	5.3	3.3	4.3
IS-AT 7	5.0	3.7	4.3
PST-9VN	4.0	4.3	4.2
PST-9NBC	4.3	3.7	4.0
TIGER II	5.3	2.7	4.0
SEASIDE	4.7	3.0	3.8
SR 7150	4.7	1.3	3.0
LSD VALUE	1.4	1.4	1.0
C.V. (%)	12.3	13.3	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 20. PINK SNOW MOLD RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	VA1
BARDOT	8.3
DECLARATION	8.0
IS-AP 14	8.0
PST-9NBC	8.0
ALPHA	7.7
LS-44	7.7
PST-OEB	7.7
13-M	7.3
PENNEAGLE II	7.3
PENNLINKS II	7.3
SRX 1PDH	7.3
PRINCEVILLE	7.0
SR 7150	7.0
L-93	6.7
235050	6.7
SRX 1GPD	6.7
T-1	6.7
EWTR	6.3
INDEPENDENCE	6.3
PENNCROSS	6.3
SEASIDE	6.3
SR 1119	6.3
IS-AT 7	6.0
KINGPIN (9200)	6.0
SHARK (23R)	6.0
BENGAL	5.3
TIGER II	5.3
PST-9VN	4.7
LSD VALUE	3.0
C.V. (%)	27.3

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 21. FALL COLOR (SEPTEMBER) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	ND1
T-1	8.0
PST-9VN	7.3
PENLINKS II	7.0
ALPHA	6.7
KINGPIN (9200)	6.7
PST-9NBC	6.7
SR 7150	6.7
TIGER II	6.7
13-M	6.3
BENGAL	6.3
IS-AT 7	6.3
PST-OEB	6.3
SR 1119	6.3
DECLARATION	6.0
EWTR	6.0
INDEPENDENCE	6.0
IS-AP 14	6.0
L-93	6.0
LS-44	6.0
PENNCROSS	6.0
PENNEAGLE II	6.0
PRINCEVILLE	6.0
SHARK (23R)	6.0
SRX 1GPD	6.0
SRX 1PDH	6.0
BARDOT	5.7
235050	5.7
SEASIDE	5.0
LSD VALUE	0.8
C.V. (%)	7.6

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

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



TABLE 22. FALL COLOR (OCTOBER) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	ND1
T-1	7.3
PST-9VN	6.0
KINGPIN (9200)	5.7
TIGER II	5.7
13-M	5.3
ALPHA	5.3
BENGAL	5.3
IS-AT 7	5.3
L-93	5.3
LS-44	5.3
SRX 1PDH	5.3
DECLARATION	5.0
INDEPENDENCE	5.0
PENNCROSS	5.0
PENNEAGLE II	5.0
PENNLINKS II	5.0
PST-9NBC	5.0
PST-OEB	5.0
SR 1119	5.0
SR 7150	5.0
EWTR	4.7
IS-AP 14	4.7
235050	4.7
PRINCEVILLE	4.7
SHARK (23R)	4.7
SRX 1GPD	4.7
BARDOT	4.3
SEASIDE	4.0
LSD VALUE	1.0
C.V. (%)	12.6

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

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

TABLE 23. FALL COLOR (NOVEMBER) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	ND1
BARDOT	3.0
PST-9NBC	3.0
PST-9VN	3.0
TIGER II	3.0
EWTR	2.7
IS-AT 7	2.7
SEASIDE	2.7
LS-44	2.3
PENNLINKS II	2.3
PST-OEB	2.3
SR 1119	2.3
13-M	2.0
ALPHA	2.0
BENGAL	2.0
DECLARATION	2.0
INDEPENDENCE	2.0
IS-AP 14	2.0
KINGPIN (9200)	2.0
L-93	2.0
PENNCROSS	2.0
PENNEAGLE II	2.0
PRINCEVILLE	2.0
SHARK (23R)	2.0
SR 7150	2.0
SRX 1GPD	2.0
SRX 1PDH	2.0
T-1	2.0
235050	1.7
LSD VALUE	0.5
C.V. (%)	13.7

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 24. FALL COLOR (DECEMBER) RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	MA1
PENNLINKS II	5.0
PST-OEB	5.0
BENGAL	4.3
DECLARATION	4.3
T-1	4.3
IS-AP 14	4.0
ALPHA	3.7
IS-AT 7	3.7
KINGPIN (9200)	3.7
L-93	3.7
LS-44	3.7
235050	3.7
INDEPENDENCE	3.3
PENNEAGLE II	3.3
PRINCEVILLE	3.3
SHARK (23R)	3.3
SRX 1PDH	3.3
TIGER II	3.3
13-M	3.0
PENNCROSS	3.0
SR 1119	3.0
SRX 1GPD	3.0
BARDOT	2.7
SEASIDE	2.7
EWTR	2.3
PST-9VN	2.3
SR 7150	2.3
PST-9NBC	2.0
LSD VALUE	0.9
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 25. POA ANNUA RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

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

NAME	ND1
13-M	9.0
ALPHA	9.0
BARDOT	9.0
DECLARATION	9.0
EWTR	9.0
INDEPENDENCE	9.0
IS-AT 7	9.0
KINGPIN (9200)	9.0
L-93	9.0
PST-9VN	9.0
SHARK (23R)	9.0
SR 1119	9.0
SR 7150	9.0
SRX 1GPD	9.0
T-1	9.0
TIGER II	9.0
IS-AP 14	8.7
PENNCROSS	8.7
PENNEAGLE II	8.7
PENNLINKS II	8.7
235050	8.7
PRINCEVILLE	8.7
PST-9NBC	8.7
PST-OEB	8.7
SEASIDE	8.7
LS-44	8.3
BENGAL	8.0
SRX 1PDH	8.0
LSD VALUE	0.7
C.V. (%)	5.0

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

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

TABLE 26. MOWING QUALITY RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

MOWING QUALITY RATINGS 1-9; 9=CLEANEST CUT 2/

NAME	ND1
TIGER II	6.0
IS-AT 7	5.7
PST-9VN	5.7
SEASIDE	5.7
SR 7150	5.7
ALPHA	5.0
BARDOT	5.0
EWTR	5.0
PENNLINKS II	5.0
PRINCEVILLE	5.0
PST-9NBC	5.0
L-93	4.7
235050	4.7
PST-OEB	4.7
T-1	4.7
13-M	4.3
BENGAL	4.3
DECLARATION	4.3
PENNEAGLE II	4.3
SRX 1GPD	4.3
SRX 1PDH	4.3
INDEPENDENCE	4.0
IS-AP 14	4.0
KINGPIN (9200)	4.0
LS-44	3.7
PENNCROSS	3.7
SHARK (23R)	3.7
SR 1119	3.7
LSD VALUE	1.3
C.V. (%)	17.7

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 27. PERCENT ESTABLISHMENT RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A FAIRWAY OR TEE 2/  
2004 DATA

NAME	CA7	IA1	IL1	MD1	NJ1	VA1	WA1	MEAN
PRINCEVILLE	72.7	70.0	94.7	63.3	98.0	97.7	63.3	80.0
PENNCROSS	63.3	66.7	97.7	48.3	94.3	97.7	66.7	76.4
DECLARATION	70.3	63.3	91.7	41.7	91.0	99.0	73.3	75.8
SEASIDE	50.0	80.0	94.7	43.3	94.3	97.7	70.0	75.7
IS-AP 14	76.7	68.3	96.3	40.0	83.3	97.7	66.7	75.6
13-M	68.3	61.7	96.3	45.0	88.3	99.0	70.0	75.5
PENNEAGLE II	61.7	60.0	96.3	48.3	91.7	96.0	70.0	74.9
SHARK (23R)	70.3	60.0	91.7	41.7	88.3	99.0	70.0	74.4
L-93	50.3	68.3	94.7	56.7	81.7	97.7	70.0	74.2
PENNLINKS II	50.0	63.3	96.3	45.0	95.3	99.0	70.0	74.1
PST-OEB	63.7	51.7	97.7	41.7	95.0	99.0	70.0	74.1
PST-9NBC	70.7	51.7	96.3	38.3	90.0	99.0	70.0	73.7
INDEPENDENCE	60.7	63.3	96.3	38.3	86.0	97.7	70.0	73.2
235050	69.3	57.0	95.0	45.0	85.0	96.3	60.0	72.5
ALPHA	65.0	63.3	95.0	46.7	70.0	99.0	66.7	72.2
T-1	46.7	58.3	97.7	50.0	76.7	99.0	70.0	71.2
LS-44	64.0	63.3	91.3	36.7	85.0	93.0	56.7	70.0
TIGER II	66.0	56.7	86.7	35.0	81.7	96.3	66.7	69.9
SR 7150	64.3	48.3	95.0	30.0	94.3	96.3	60.0	69.8
PST-9VN	52.3	55.0	86.7	28.3	93.3	97.7	70.0	69.0
SRX 1GPD	59.0	60.0	91.7	35.0	71.7	99.0	66.7	69.0
SRX 1PDH	51.0	58.3	93.3	35.0	81.7	97.7	60.0	68.1
IS-AT 7	29.7	56.7	91.7	33.3	95.3	97.7	70.0	67.8
BENGAL	43.3	60.0	97.7	30.0	60.0	98.7	66.7	65.2
EWTR	50.0	60.0	76.7	35.0	71.7	93.0	70.0	65.2
KINGPIN (9200)	54.7	58.3	93.0	26.7	61.7	96.0	60.0	64.3
SR 1119	55.7	58.3	86.7	26.7	51.7	97.7	53.3	61.4
BARDOT	37.3	50.0	66.7	36.7	55.0	93.3	53.3	56.0
LSD VALUE	31.3	10.5	7.9	9.3	16.4	4.4	11.2	5.8
C.V. (%)	33.2	10.8	5.3	14.5	12.4	2.8	10.6	13.4

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

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

TABLE 28. SCALPING RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

SCALPING RATINGS 1-9; 9=NONE 2/

NAME	KS1	PA1	MEAN
BARDOT	9.0	9.0	9.0
EWTR	9.0	9.0	9.0
PST-9NBC	9.0	9.0	9.0
PST-9VN	9.0	9.0	9.0
IS-AT 7	8.7	9.0	8.8
PENNCROSS	8.7	9.0	8.8
SR 7150	8.7	9.0	8.8
SEASIDE	8.3	9.0	8.7
TIGER II	8.3	9.0	8.7
PRINCEVILLE	7.7	9.0	8.3
PENNLINKS II	7.3	9.0	8.2
13-M	7.0	9.0	8.0
SR 1119	7.3	8.7	8.0
ALPHA	7.3	8.3	7.8
LS-44	6.7	9.0	7.8
T-1	7.0	8.7	7.8
L-93	6.7	8.3	7.5
KINGPIN (9200)	7.0	7.7	7.3
SRX 1GPD	6.3	8.3	7.3
BENGAL	6.0	8.3	7.2
PENNEAGLE II	7.7	6.7	7.2
PST-OEB	5.0	9.0	7.0
SHARK (23R)	6.3	7.0	6.7
IS-AP 14	6.0	7.0	6.5
235050	4.0	8.0	6.0
INDEPENDENCE	4.3	6.7	5.5
SRX 1PDH	4.3	6.0	5.2
DECLARATION	4.3	4.0	4.2
LSD VALUE	2.2	1.0	1.2
C.V. (%)	19.7	7.6	14.1

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 29. PERCENT POA ANNUA RATINGS OF BENTGRASS CULTIVARS 1/  
GROWN ON A FAIRWAY OR TEE 2/  
2004 DATA

NAME	WI1
TIGER II	26.0
BARDOT	25.0
SEASIDE	22.7
SR 7150	21.7
PST-9NBC	20.0
SRX 1GPD	20.0
13-M	16.7
PENNCROSS	15.0
SR 1119	15.0
SRX 1PDH	14.0
EWTR	11.7
PST-9VN	11.7
KINGPIN (9200)	11.0
IS-AT 7	10.0
PENNEAGLE II	10.0
PENNLINKS II	9.3
LS-44	8.3
PRINCEVILLE	8.3
IS-AP 14	7.7
BENGAL	7.0
235050	7.0
SHARK (23R)	7.0
T-1	6.7
L-93	6.0
PST-OEB	6.0
ALPHA	5.3
DECLARATION	3.3
INDEPENDENCE	3.0
LSD VALUE	12.0
C.V. (%)	62.2

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 30. COPPER SPOT RATINGS OF BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE 1/  
2004 DATA

COPPER SPOT RATINGS 1-9; 9=NONE 2/

NAME	NJ1
BARDOT	9.0
EWTR	9.0
IS-AT 7	9.0
PST-9NBC	9.0
PST-9VN	9.0
SEASIDE	9.0
SR 7150	9.0
TIGER II	9.0
PENNCROSS	8.7
T-1	8.0
KINGPIN (9200)	6.7
L-93	6.7
SR 1119	6.7
PENNEAGLE II	6.3
SRX 1GPD	6.3
ALPHA	5.7
LS-44	5.3
13-M	5.0
BENGAL	5.0
DECLARATION	5.0
PENNLINKS II	5.0
SRX 1PDH	5.0
PRINCEVILLE	4.7
PST-OEB	4.7
SHARK (23R)	4.0
IS-AP 14	3.7
INDEPENDENCE	2.7
235050	2.7
LSD VALUE	2.5
C.V. (%)	24.7

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 31. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE AT LEMONT, IL 1/  
2004 DATA

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

NAME	JULY	SEPTEMBER	OCTOBER	MEAN
13-M	8.0	8.7	9.0	8.6
EWTR	7.7	9.0	9.0	8.6
TIGER II	7.7	9.0	9.0	8.6
DECLARATION	8.0	8.3	9.0	8.4
SR 7150	7.7	8.7	9.0	8.4
PENNLINKS II	8.0	8.3	8.7	8.3
PST-9NBC	7.0	9.0	9.0	8.3
IS-AT 7	7.7	8.3	8.7	8.2
PST-9VN	7.3	8.3	8.7	8.1
KINGPIN (9200)	7.0	8.0	9.0	8.0
BARDOT	7.0	8.3	8.3	7.9
L-93	7.0	8.7	8.0	7.9
PRINCEVILLE	6.3	8.7	8.3	7.8
235050	6.3	7.7	9.0	7.7
PENNEAGLE II	6.7	8.0	8.3	7.7
SEASIDE	7.0	8.0	7.7	7.6
SRX 1GPD	6.7	7.3	8.3	7.4
SRX 1PDH	7.0	7.7	7.3	7.3
SHARK (23R)	6.7	7.3	7.7	7.2
PST-OEB	6.0	8.0	7.3	7.1
T-1	5.3	7.0	8.0	6.8
LS-44	5.7	7.0	7.3	6.7
SR 1119	5.7	6.7	7.3	6.6
IS-AP 14	5.3	6.7	7.3	6.4
ALPHA	4.7	6.7	7.0	6.1
PENNCROSS	5.3	6.3	6.7	6.1
BENGAL	5.3	6.0	6.3	5.9
INDEPENDENCE	5.3	5.3	6.0	5.6
LSD VALUE	1.2	1.2	2.3	0.9
C.V. (%)	11.3	9.7	13.5	7.8

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 32. PERCENT DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS GROWN ON 1/  
A FAIRWAY OR TEE AT LEXINGTON, KY 2/  
2004 DATA

NAME	JUNE	JULY	AUGUST	MEAN
INDEPENDENCE	8.0	10.0	33.3	17.1
BENGAL	6.0	10.0	30.0	15.3
IS-AP 14	7.3	5.0	27.3	13.2
T-1	6.7	9.3	20.7	12.2
PRINCEVILLE	5.0	7.0	18.3	10.1
LS-44	7.7	6.0	14.3	9.3
SHARK (23R)	5.7	2.0	20.3	9.3
ALPHA	5.3	4.3	17.7	9.1
SR 1119	5.0	5.0	16.7	8.9
L-93	7.3	5.0	13.7	8.7
PENNCROSS	2.0	5.0	18.7	8.6
SRX 1GPD	5.3	2.3	14.7	7.4
235050	4.0	4.0	13.3	7.1
PENNEAGLE II	5.0	3.3	12.7	7.0
PST-OEB	5.3	4.7	10.3	6.8
KINGPIN (9200)	4.3	4.3	7.7	5.4
SRX 1PDH	2.7	0.0	13.3	5.3
PENNLINKS II	4.3	2.7	3.3	3.4
PST-9NBC	0.7	1.7	7.3	3.2
SEASIDE	3.3	2.0	3.3	2.9
SR 7150	2.7	4.3	1.0	2.7
13-M	1.0	0.7	4.0	1.9
PST-9VN	0.0	4.0	1.0	1.7
IS-AT 7	3.7	1.0	0.0	1.6
TIGER II	1.3	0.7	1.0	1.0
BARDOT	0.0	1.0	1.0	0.7
DECLARATION	1.0	0.0	0.7	0.6
EWTR	0.0	0.0	0.0	0.0
LSD VALUE	3.9	6.2	9.6	4.5
C.V. (%)	56.7	84.8	52.8	44.5

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 33. BROWN PATCH RATINGS OF BENTGRASS CULTIVARS GROWN ON  
A FAIRWAY OR TEE AT BLACKSBURG, VA 1/  
2004 DATA

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

NAME	JUNE	JULY	MEAN
L-93	9.0	8.3	8.7
SR 1119	8.7	8.7	8.7
13-M	8.7	8.3	8.5
235050	8.7	8.3	8.5
LS-44	8.7	8.3	8.5
T-1	8.7	8.3	8.5
DECLARATION	8.3	8.3	8.3
INDEPENDENCE	8.0	8.7	8.3
IS-AP 14	8.3	8.3	8.3
PRINCEVILLE	7.7	9.0	8.3
SHARK (23R)	8.3	8.3	8.3
ALPHA	8.3	8.0	8.2
BENGAL	8.0	8.3	8.2
KINGPIN (9200)	8.0	8.3	8.2
SRX 1GPD	8.3	7.7	8.0
SRX 1PDH	8.3	7.7	8.0
SEASIDE	7.7	8.0	7.8
PENNEAGLE II	8.3	7.0	7.7
PENNLINKS II	7.7	7.7	7.7
PST-OEB	8.0	7.0	7.5
PST-9VN	7.0	7.7	7.3
BARDOT	6.3	7.3	6.8
PST-9NBC	7.0	6.7	6.8
SR 7150	6.3	7.3	6.8
IS-AT 7	6.3	7.0	6.7
EWTR	6.0	7.0	6.5
PENNCROSS	6.7	6.0	6.3
TIGER II	6.0	6.3	6.2
LSD VALUE	2.0	2.4	1.7
C.V. (%)	13.0	13.0	11.0

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 34. PERCENT COVER RATINGS FROM DIVOT RECOVERY OF BENTGRASS CULTIVARS GROWN ON 1/  
A FAIRWAY OR TEE AT STILLWATER, OK 2/  
2004 DATA

NAME	PERCENT COVER RATINGS FROM DIVOT RECOVERY: WEEKS AFTER TREATMENT 4/						MEAN
	STUDY 1: CUT JUNE 15 3/		STUDY 2: CUT AUG. 31		STUDY 3: CUT OCT. 7		
	4 WEEKS	7.5 WEEKS	3.5 WEEKS	7 WEEKS	1.5 WEEKS	4 WEEKS	
PENNCROSS	83.7	91.7	85.7	97.0	48.3	88.3	82.4
L-93	70.3	96.7	77.7	98.3	45.7	92.3	80.2
PENNLINKS II	60.0	98.0	89.7	98.7	38.0	84.3	78.1
PRINCEVILLE	58.3	90.7	84.3	99.0	41.0	88.3	76.9
KINGPIN (9200)	64.7	97.0	69.0	98.3	32.3	92.3	75.6
LS-44	68.7	95.7	67.7	98.3	36.0	82.7	74.8
PST-OEB	59.0	95.3	74.0	98.3	32.3	88.0	74.5
T-1	80.0	98.7	54.7	95.0	29.0	89.3	74.4
SR 1119	62.3	98.0	63.3	98.3	32.0	85.0	73.2
INDEPENDENCE	84.3	97.3	56.7	94.7	21.0	82.0	72.7
SEASIDE	44.0	79.0	85.7	95.3	44.3	80.7	71.5
PST-9VN	38.3	74.0	79.0	95.3	50.0	85.7	70.4
BARDOT	65.0	96.0	54.7	94.7	30.7	80.7	70.3
EWTR	50.0	85.3	64.7	98.0	35.3	87.0	70.1
235050	61.7	98.7	52.3	90.0	26.7	88.7	69.7
IS-AP 14	50.7	96.3	64.7	99.0	21.7	82.0	69.1
SRX 1PDH	35.3	97.3	67.0	94.3	30.7	85.3	68.3
DECLARATION	69.3	95.0	44.3	95.3	19.7	85.7	68.2
SHARK (23R)	62.7	98.7	65.0	95.3	19.3	67.3	68.1
BENGAL	70.3	96.3	44.0	93.3	26.0	77.3	67.9
PENNEAGLE II	59.7	98.3	53.7	89.3	21.7	74.3	66.2
ALPHA	65.7	97.0	38.7	81.0	31.7	82.7	66.1
SRX 1GPD	65.7	95.7	49.7	90.7	18.0	73.0	65.4
SR 7150	42.3	79.0	67.7	96.0	25.7	81.0	65.3
13-M	65.3	94.7	48.3	85.7	23.7	68.3	64.3
PST-9NBC	43.3	80.0	59.0	86.7	35.0	80.3	64.1
TIGER II	48.0	75.0	55.7	96.0	24.3	58.3	59.6
IS-AT 7	40.3	74.3	45.7	85.3	32.3	72.3	58.4
LSD VALUE	35.1	20.0	46.5	28.8	30.9	37.9	22.6
C.V. (%)	27.3	10.7	30.5	9.2	39.9	15.7	12.0

- 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.  
ADDITIONAL TRIAL NOTES FOR DIVOT RECOVERY STUDY:
- 3/ STUDY ONE WAS PERFORMED USING A KICK-CUTTER MECHANICAL DEVICE. STUDIES TWO AND THREE WERE PERFORMED USING A MOTORIZED, MODIFIED "EDGER" DEVICE WHICH ALSO SIMULATED UNIFORM DIVOTS.
- 4/ PHOTOS OF EQUIPMENT USED AND/OR DIGITAL FILES FOR THE DIVOTS AT EACH RECOVERY DATE ARE AVAILABLE FROM OSU TURF PROGRAM UPON REQUEST. DURING 2004, HOLLOW TINES WERE USED FOR AERIFICATION.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR BENTGRASS CULTIVARS  
GROWN ON A FAIRWAY OR TEE \*/  
2004 DATA

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

NAME	QUALITY	MAXIMUM
	MEAN 1/	IN TOP 25% 2/
13-M	6.5	45
235050	6.4	45
ALPHA	6.3	15
BARDOT	5.5	5
BENGAL	6.1	5
DECLARATION	6.7	55
EWTR	5.7	5
INDEPENDENCE	6.0	10
IS-AP 14	6.2	15
IS-AT 7	5.8	10
KINGPIN (9200)	6.5	55
L-93	6.1	20
LS-44	6.3	35
PENNCROSS	5.6	5
PENNEAGLE II	6.4	50
PENNLINKS II	6.1	25
PRINCEVILLE	5.6	5
PST-9NBC	5.7	5
PST-9VN	5.5	5
PST-OEB	6.5	65
SEASIDE	4.6	0
SHARK (23R)	6.5	50
SR 1119	6.1	5
SR 7150	5.6	5
SRX 1GPD	6.3	25
SRX 1PDH	6.2	0
T-1	6.6	65
TIGER II	5.6	5
LSD VALUE	0.2	
C.V. (%)	7.6	

\*/ 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.