

NATIONAL TURFGRASS EVALUATION PROGRAM

The National Turfgrass Evaluation Program (NTEP) is designed to develop and coordinate uniform evaluation trials of turfgrass varieties and promising selections in the United States and Canada. Test results can be used by national companies and plant breeders to determine the broad picture of the adaptation of a cultivar. Results can also be used to determine if a cultivar is well adapted to a local area or level of turf maintenance.

Briefly, the NTEP is a self-supporting, non-profit program, sponsored by the Beltsville Agricultural Research Center and the National Turfgrass Federation, Inc. Program policy is made by a policy committee consisting of one member from each of the four (4) Regional Turfgrass Research Committees in the United States, one member from the Lawn Seed Division of the American Seed Trade Association, one member from the United States Golf Association (USGA) Green Section, one member from the Golf Course Superintendents Assoc. of America (GCSAA), one member for the Turfgrass Producers International (TPI), one member from the Turfgrass Breeders Association and an executive director. The program does not make variety recommendations. However, the data from tests can be used by extension specialists and others for making recommendations.

The policy committee is responsible for determining program policy including, (1) requirements for submission of entries, (2) scheduling tests, (3) evaluation methods, (4) selecting standard or control test entries, (5) setting entry fees, (6) coordinating tests in their respective regions, (7) establishing guidelines for publication and data distribution and (8) scheduling committee meetings.

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A Guide to NTEP Turfgrass Ratings

Introduction

The quality and scientific merit of NTEP data is extremely important. However, the evaluation of turfgrass species and cultivars is a difficult and complex issue. Furthermore, turfgrass evaluation is generally a subjective process based on visual estimates of factors, like genetic color, stand density, leaf texture, uniformity and quality. These factors can not be measured in the same way as other agricultural crops. Turfgrass quality is not a measure of yield or nutritive value. Turfgrass quality is a measure of aesthetics (i.e. density, uniformity, texture, smoothness, growth habit and color), and functional use. The most common way of assessing turfgrass quality is a visual rating system that is based on the turfgrass evaluator's judgement.

General Considerations

Most visual ratings collected on NTEP trials are based on a 1 to 9 rating scale. One is the poorest or lowest and 9 is the best or highest rating. However, a few characteristics, such as winter kill or percent living ground cover, are rated on a percentage basis, again by using the evaluator's judgement. Most disease ratings found in NTEP reports will use the 1-9 scale, 9=no disease except where the evaluator made a judgement of the percentage of disease in each plot. Percent disease data will be found in separate tables and will normally not be included with disease data using the 1-9 scale.

Turfgrass Quality

Turfgrass Quality is based on 9 being outstanding or ideal turf and 1 being poorest or dead. A rating of 6 or above is generally considered acceptable. A quality rating value of 9 is reserved for a perfect or ideal grass, but it also can reflect an absolutely outstanding treatment plot. The NTEP requires quality ratings on a monthly basis. Quality ratings take into account the aesthetic and functional aspects of the turf. Quality ratings are not based on color alone, but on a combination of color, density, uniformity, texture, and disease or environmental stress.

Turfgrass quality ratings are grouped and presented by region, management level, a particular stress (shade, traffic, etc.) and in some cases, by individual location (starting with 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>.

LOCATIONS SUBMITTING DATA FOR 2002

<u>State</u>	<u>Location</u>	<u>Code</u>
Illinois	Urbana	IL1
Indiana	West Lafayette	IN1
Iowa	Ames	IA1
Kentucky	Lexington	KY1
Michigan	East Lansing	MI1
Minnesota	St. Paul	MN1
Montana	Bozeman	MT1
New Jersey	North Brunswick	NJ1
New York	Ithaca	NY1
Pennsylvania	University Park	PA1
Quebec	Quebec	QE1
South Dakota	Brookings	SD1
Utah	Logan	UT1
Virginia	Blacksburg	VA1
Washington	Pullman	WA1
Washington	Puyallup (With Fungicides)	WA3
Washington	Puyallup (Without Fungicides)	WA4
Wisconsin	Madison	WI1

1998 NATIONAL BENTGRASS TEST
(Fairway/Tee)

Entries and Sponsors

Entry No.	Name	Species	Sponsor
1	Grand Prix	creeping	LESCO, Inc.
2	Princeville	creeping	LESCO, Inc.
3	Backspin	creeping	Turf Merchants, Inc.
4	Trueline	creeping	Turf Merchants, Inc.
5	L-93	creeping	Simplot / Jacklin Seed
6	ABT-Col-2	colonial	ProSeeds Marketing, Inc.
7	Century	creeping	ProSeeds Marketing, Inc.
8	Imperial	creeping	ProSeeds Marketing, Inc.
9	Seaside	creeping	Standard Entry
10	Tiger	colonial	DLF International Seeds, Inc.
11	Tiger II (CIS-At-5)	colonial	DLF International Seeds, Inc.
12	SRX 7MOBB	colonial	Seed Research of Oregon
13	SR 7150 (SRX 7MODD)	colonial	Seed Research of Oregon
14	SR 7100	colonial	Standard Entry
15	Providence	creeping	Standard Entry
16	SRX 1BPAA	creeping	Seed Research of Oregon
17	Brighton (SRX 1120)	creeping	Seed Research of Oregon
18	SR 1119	creeping	Seed Research of Oregon
19	Golfstar	idaho	Simplot / Jacklin Seed
20	Glory (PST-9HG)	colonial	Pure-Seed Testing, Inc.
21	PST-9PM	colonial	Pure-Seed Testing, Inc.
22	Pennlinks II (PST-0VN)	creeping	Pure-Seed Testing, Inc.
23	Seaside II	creeping	Tee-2-Green Corp.
24	Penncross	creeping	Standard Entry
25	Penn G-6	creeping	Tee-2-Green Corp.
26	Penneagle	creeping	Tee-2-Green Corp.

TABLE A.

2002 LOCATIONS, SITE DESCRIPTIONS AND MANAGEMENT PRACTICES IN
THE 1998 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
IA1	SILTY CLAY LOAM	7.1-7.5	0-60	241-375	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IL1	SILT LOAM AND SILT	6.1-6.5	0-60	376-500	4.1-5.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
IN1	SILT LOAM AND SILT	7.1-7.5	151-270	241-375	3.1-4.0	FULL SUN	0.0-0.5	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
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	SILTY CLAY LOAM	7.1-7.5	151-270	151-240	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
NJ1	SANDY LOAM	5.6-6.0	151-270	151-240	2.1-3.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
NY1	SANDY LOAM	6.1-6.5	151-270	241-375	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
PA1	LOAM	6.6-7.0	61-150	0-150	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
QE1	-	-	-	-	-	-	-	-
SD1	SILTY CLAY LOAM	7.6-8.5	0-60	241-375	4.1-5.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
UT1	SILT LOAM AND SILT	7.6-8.5	0-60	0-150	3.1-4.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
VA1	-	-	-	-	-	-	-	-
WA1	SILT LOAM AND SILT	5.6-6.0	271-450	501+	3.1-4.0	FULL SUN	0.0-0.5	TO PREVENT STRESS
WA3	SILT LOAM AND SILT	5.6-6.0	61-150	151-240	4.1-5.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
WA4	SILT LOAM AND SILT	5.6-6.0	61-150	151-240	4.1-5.0	FULL SUN	0.6-1.0	TO PREVENT STRESS
WI1	SILTY CLAY LOAM	7.1-7.5	61-150	151-240	1.1-2.0	FULL SUN	0.0-0.5	TO PREVENT STRESS

TABLE B.

LOCATIONS AND DATA COLLECTED IN 2002

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
IA1					X	X	X	X	X	X			X	X	X
IL1				X	X	X	X	X	X	X			X	X	
IN1				X	X	X	X	X	X	X	X		X	X	
KY1			X	X	X	X	X	X	X	X					
MI1				X	X	X	X	X	X						X
MN1				X	X	X	X	X	X	X			X	X	X
NJ1				X	X	X	X	X	X	X	X		X		X
NY1				X	X	X	X	X	X	X	X			X	X
PA1					X	X	X	X	X	X			X	X	
QE1					X	X	X	X	X	X			X	X	X
SD1				X	X	X	X	X	X	X			X	X	
UT1				X	X	X	X	X	X	X	X		X		
VA1		X	X	X	X	X	X	X	X	X	X		X	X	
WA1				X	X	X	X	X	X	X			X		
WA3	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
WA4	X	X	X	X	X	X	X	X	X	X	X	X			
WI1				X	X	X	X	X	X	X	X		X	X	

TABLE B. (CONT'D)

LOCATIONS AND DATA COLLECTED IN 2002

LOCATION	SPRING DENSITY	SUMMER DENSITY	FALL DENSITY	PERCENT COVER SPRING	PERCENT COVER SUMMER	PERCENT COVER FALL	PERCENT WINTER KILL	DOLLAR SPOT	BROWN PATCH WARM TEMP.	PINK SNOW MOLD	TAKE-ALL PATCH	FALL COLOR OCTOBER	PERCENT POA ANNJA	SCALPNG INJURY	PINK/GRAY SNOW MOLD
IA1															
IL1	X	X	X												
IN1	X	X	X		X								X		
KY1															
MI1	X	X		X	X	X		X							
MN1			X												
NJ1		X						X							
NY1															
PA1	X		X					X							
QE1	X	X	X												
SD1			X	X			X					X		X	
UT1			X												X
VA1	X	X						X	X						
WA1	X	X	X							X					
WA3	X	X	X												
WA4															
WI1	X	X	X					X			X				

TABLE 1. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE AT THREE LOCATIONS
USING A 3/8 INCH MOWING HEIGHT 1/
2002 DATA

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

NAME	MI1	NJ1	NY1	MEAN
* L-93	5.9	6.0	7.6	6.5
SRX 1BPAA	6.1	5.8	7.2	6.4
* SR 7150 (SRX 7MODD)	5.4	6.6	6.8	6.3
* TIGER II (CIS AT-5)	5.3	6.2	7.1	6.2
* PENN G-6	5.5	5.6	7.3	6.1
* GRAND PRIX	5.7	5.2	7.3	6.1
* IMPERIAL	5.7	5.3	7.2	6.0
* SEASIDE II	5.3	5.3	7.5	6.0
* SR 1119	5.6	5.1	7.4	6.0
SRX 7MOBB	5.3	6.0	6.6	6.0
* BRIGHTON (SRX 1120)	5.5	5.2	7.0	5.9
* GLORY (PST-9HG)	5.5	5.3	6.9	5.9
* TRUELINE	5.6	4.8	7.2	5.9
* PENNLINKS II (PST-OVN)	5.3	4.9	7.3	5.8
* SR 7100	5.8	4.8	6.7	5.8
ABT-COL-2	5.2	5.0	6.9	5.7
* BACKSPIN	5.3	4.5	7.2	5.7
* CENTURY	5.7	4.2	7.1	5.7
PST-9PM	5.5	4.5	6.8	5.6
* PENNEAGLE	5.5	4.0	7.3	5.6
* PENNCROSS	5.5	4.1	7.0	5.5
* TIGER	5.3	4.6	6.5	5.5
* PROVIDENCE	5.2	4.3	6.8	5.4
* PRINCEVILLE	5.3	4.0	7.0	5.4
* GOLFSTAR	5.3	3.8	6.9	5.3
* SEASIDE	5.5	2.3	6.6	4.8
LSD VALUE	0.5	1.1	0.3	0.4
C.V. (%)	6.1	13.7	2.7	7.7

* COMMERCIALY AVAILABLE IN THE USA IN 2003.

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 NINE LOCATIONS
USING A 1/2 INCH MOWING HEIGHT 1/
2002 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/										
NAME	IA1	IL1	IN1	MN1	PA1	QE1	VA1	WA1	WI1	MEAN
TRUELINE	6.8	6.6	5.8	7.6	7.4	6.2	4.0	6.8	5.5	6.3
L-93	6.9	6.2	6.0	7.4	7.8	6.0	4.2	6.0	5.5	6.2
SRX 1BPAA	7.0	6.6	5.3	7.7	7.3	6.0	3.9	6.5	5.5	6.2
PENN G-6	7.3	6.4	5.7	7.2	7.2	5.7	4.5	6.0	5.5	6.2
IMPERIAL	7.7	6.4	5.7	7.3	7.5	5.7	3.9	6.2	5.1	6.2
GRAND PRIX	7.1	6.2	5.8	7.4	7.1	5.9	3.7	6.2	5.4	6.1
SR 1119	6.7	6.6	5.0	7.1	7.6	5.9	4.2	6.3	5.4	6.1
BACKSPIN	6.9	6.4	5.5	6.9	7.2	6.1	4.0	6.2	5.3	6.1
SEASIDE II	6.7	6.1	5.7	6.8	7.6	5.6	4.1	5.9	5.5	6.0
PENNLINKS II (PST-OVN)	7.1	6.2	5.1	6.5	6.8	6.1	4.1	6.4	5.7	6.0
CENTURY	7.1	5.3	6.5	7.4	7.3	5.6	3.4	6.1	5.0	6.0
BRIGHTON (SRX 1120)	7.4	6.4	5.1	7.0	7.0	6.1	3.7	5.6	5.2	6.0
PROVIDENCE	6.4	6.4	5.4	7.2	7.1	5.8	3.5	6.3	5.5	6.0
PRINCEVILLE	6.2	6.4	5.2	7.1	6.6	6.0	4.0	6.1	5.2	5.9
PENNEAGLE	6.2	7.0	4.5	6.6	6.3	5.8	4.2	6.2	5.0	5.8
PENNCROSS	6.8	6.0	4.8	6.1	6.4	6.1	4.2	6.1	5.1	5.7
TIGER II (CIS AT-5)	4.5	5.5	2.5	6.8	7.4	6.5	4.3	5.7	5.4	5.4
GLORY (PST-9HG)	5.4	5.6	2.7	5.5	6.9	6.5	4.1	6.1	5.5	5.4
ABT-COL-2	4.9	5.2	2.5	6.2	5.9	6.6	3.8	5.2	5.3	5.1
SR 7150 (SRX 7MODD)	4.6	5.0	2.2	5.8	6.4	6.8	3.8	5.8	5.3	5.1
SR 7100	4.5	4.6	2.3	6.6	5.7	7.0	3.9	5.0	5.3	5.0
PST-9PM	5.1	5.4	2.4	5.7	4.6	6.6	4.1	5.8	5.0	5.0
SRX 7MOBB	4.9	4.7	2.3	6.0	6.3	6.5	3.6	5.0	5.0	4.9
TIGER	4.8	4.8	3.3	5.8	5.2	6.8	3.4	5.3	5.0	4.9
GOLFSTAR	5.3	5.3	2.1	5.2	5.1	6.7	3.5	5.8	4.6	4.8
SEASIDE	4.2	3.8	3.4	4.8	3.3	5.9	3.2	4.8	4.3	4.2
LSD VALUE	1.0	0.7	1.1	0.6	0.7	0.7	0.5	0.8	0.4	0.2
C.V. (%)	9.8	7.0	15.8	5.5	6.4	7.2	8.6	8.6	4.2	8.2

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 3. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE AT FOUR LOCATIONS
USING A 5/8 INCH MOWING HEIGHT 1/
2002 DATA

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

NAME	KY1	SD1	UT1	WA3	MEAN
GLORY (PST-9HG)	6.0	5.8	4.1	6.6	5.6
ABT-COL-2	5.9	5.7	3.6	6.8	5.5
TIGER II (CIS AT-5)	6.0	5.2	3.5	6.9	5.4
GRAND PRIX	6.3	5.1	4.3	5.7	5.4
SRX 7MOBB	6.0	5.2	3.5	6.3	5.3
PRINCEVILLE	6.7	5.3	4.2	4.8	5.2
SR 7100	5.8	4.8	4.0	6.3	5.2
SR 7150 (SRX 7MODD)	6.4	4.5	3.6	6.4	5.2
TRUELINE	6.8	5.4	3.3	5.3	5.2
PST-9PM	6.0	5.2	3.7	5.8	5.2
TIGER	5.8	5.6	3.7	5.6	5.2
IMPERIAL	6.5	4.4	4.0	5.7	5.2
L-93	6.6	4.9	3.7	5.2	5.1
PENNCROSS	5.5	5.2	4.4	5.3	5.1
PENN G-6	6.5	4.4	4.3	5.2	5.1
PENNEAGLE	6.3	4.9	4.5	4.6	5.1
BACKSPIN	6.1	4.9	3.7	5.4	5.0
BRIGHTON (SRX 1120)	6.5	4.7	3.9	4.9	5.0
SRX 1BPAA	6.5	4.9	3.5	5.1	5.0
SR 1119	6.5	4.6	3.5	5.4	5.0
CENTURY	5.5	4.6	3.7	5.7	4.9
PENNLINKS II (PST-OVN)	6.8	4.2	3.8	4.6	4.9
PROVIDENCE	6.0	3.9	3.8	5.3	4.7
SEASIDE II	6.0	3.8	3.4	5.1	4.6
SEASIDE	4.5	6.0	3.8	3.7	4.5
GOLFSTAR	4.4	5.2	3.7	4.2	4.4
LSD VALUE	0.5	0.8	0.8	0.6	0.4
C.V. (%)	4.7	10.7	13.5	7.0	8.7

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

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

TABLE 4. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE AT TWO LOCATIONS
USING 1.0-2.0 LBS. OF NITROGEN/1000 SQ. FT./YEAR 1/
2002 DATA

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

NAME	PA1	WI1	MEAN
L-93	7.8	5.5	6.6
SEASIDE II	7.6	5.5	6.5
SR 1119	7.6	5.4	6.5
TRUELINE	7.4	5.5	6.4
SRX 1BPAA	7.3	5.5	6.4
TIGER II (CIS AT-5)	7.4	5.4	6.4
PENN G-6	7.2	5.5	6.3
IMPERIAL	7.5	5.1	6.3
PROVIDENCE	7.1	5.5	6.3
PENNLINKS II (PST-OVN)	6.8	5.7	6.2
GRAND PRIX	7.1	5.4	6.2
BACKSPIN	7.2	5.3	6.2
GLORY (PST-9HG)	6.9	5.5	6.2
CENTURY	7.3	5.0	6.1
BRIGHTON (SRX 1120)	7.0	5.2	6.1
PRINCEVILLE	6.6	5.2	5.9
SR 7150 (SRX 7MODD)	6.4	5.3	5.8
PENNCROSS	6.4	5.1	5.7
PENNEAGLE	6.3	5.0	5.7
SRX 7MOBB	6.3	5.0	5.7
ABT-COL-2	5.9	5.3	5.6
SR 7100	5.7	5.3	5.5
TIGER	5.2	5.0	5.1
PST-9EM	4.6	5.0	4.8
GOLFSTAR	5.1	4.6	4.8
SEASIDE	3.3	4.3	3.8
LSD VALUE	0.7	0.4	0.4
C.V. (%)	6.4	4.2	5.7

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

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

TABLE 5. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE AT NINE LOCATIONS
USING 2.1-4.0 LBS. OF NITROGEN/1000 SQ. FT./YEAR 1/
2002 DATA

NAME	TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF 2/									MEAN
	IA1	IN1	KY1	MN1	NJ1	NY1	UT1	VA1	WA1	
L-93	6.9	6.0	6.6	7.4	6.0	7.6	3.7	4.2	6.0	6.1
PENN G-6	7.3	5.7	6.5	7.2	5.6	7.3	4.3	4.5	6.0	6.0
IMPERIAL	7.7	5.7	6.5	7.3	5.3	7.2	4.0	3.9	6.2	6.0
GRAND PRIX	7.1	5.8	6.3	7.4	5.2	7.3	4.3	3.7	6.2	5.9
SRX 1BPAA	7.0	5.3	6.5	7.7	5.8	7.2	3.5	3.9	6.5	5.9
TRUELINE	6.8	5.8	6.8	7.6	4.8	7.2	3.3	4.0	6.8	5.9
PENNLINKS II (PST-OVN)	7.1	5.1	6.8	6.5	4.9	7.3	3.8	4.1	6.4	5.8
BRIGHTON (SRX 1120)	7.4	5.1	6.5	7.0	5.2	7.0	3.9	3.7	5.6	5.7
SR 1119	6.7	5.0	6.5	7.1	5.1	7.4	3.5	4.2	6.3	5.7
SEASIDE II	6.7	5.7	6.0	6.8	5.3	7.5	3.4	4.1	5.9	5.7
BACKSPIN	6.9	5.5	6.1	6.9	4.5	7.2	3.7	4.0	6.2	5.7
CENTURY	7.1	6.5	5.5	7.4	4.2	7.1	3.7	3.4	6.1	5.7
PRINCEVILLE	6.2	5.2	6.7	7.1	4.0	7.0	4.2	4.0	6.1	5.6
PENNEAGLE	6.2	4.5	6.3	6.6	4.0	7.3	4.5	4.2	6.2	5.5
PROVIDENCE	6.4	5.4	6.0	7.2	4.3	6.8	3.8	3.5	6.3	5.5
PENNCROSS	6.8	4.8	5.5	6.1	4.1	7.0	4.4	4.2	6.1	5.4
TIGER II (CIS AT-5)	4.5	2.5	6.0	6.8	6.2	7.1	3.5	4.3	5.7	5.2
GLORY (PST-9HG)	5.4	2.7	6.0	5.5	5.3	6.9	4.1	4.1	6.1	5.1
SR 7150 (SRX 7MODD)	4.6	2.2	6.4	5.8	6.6	6.8	3.6	3.8	5.8	5.1
ABT-COL-2	4.9	2.5	5.9	6.2	5.0	6.9	3.6	3.8	5.2	4.9
PST-9PM	5.1	2.4	6.0	5.7	4.5	6.8	3.7	4.1	5.8	4.9
SRX 7MOBB	4.9	2.3	6.0	6.0	6.0	6.6	3.5	3.6	5.0	4.9
SR 7100	4.5	2.3	5.8	6.6	4.8	6.7	4.0	3.9	5.0	4.8
TIGER	4.8	3.3	5.8	5.8	4.6	6.5	3.7	3.4	5.3	4.8
GOLFSTAR	5.3	2.1	4.4	5.2	3.8	6.9	3.7	3.5	5.8	4.5
SEASIDE	4.2	3.4	4.5	4.8	2.3	6.6	3.8	3.2	4.8	4.2
LSD VALUE	1.0	1.1	0.5	0.6	1.1	0.3	0.8	0.5	0.8	0.3
C.V. (%)	9.8	15.8	4.7	5.5	13.7	2.7	13.5	8.6	8.6	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 6. MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS GROWN ON
A FAIRWAY OR TEE AT FIVE LOCATIONS
USING 4.1+ LBS. OF NITROGEN/1000 SQ. FT./YEAR 1/
2002 DATA

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

NAME	IL1	MI1	QE1	SD1	WA3	MEAN
GLORY (PST-9HG)	5.6	5.5	6.5	5.8	6.6	6.0
TIGER II (CIS AT-5)	5.5	5.3	6.5	5.2	6.9	5.9
ABT-COL-2	5.2	5.2	6.6	5.7	6.8	5.9
TRUELINE	6.6	5.6	6.2	5.4	5.3	5.8
SRX 1BPAA	6.6	6.1	6.0	4.9	5.1	5.7
GRAND PRIX	6.2	5.7	5.9	5.1	5.7	5.7
PST-9PM	5.4	5.5	6.6	5.2	5.8	5.7
SR 7100	4.6	5.8	7.0	4.8	6.3	5.7
L-93	6.2	5.9	6.0	4.9	5.2	5.6
PENNCROSS	6.0	5.5	6.1	5.2	5.3	5.6
SR 1119	6.6	5.6	5.9	4.6	5.4	5.6
SR 7150 (SRX 7MODD)	5.0	5.4	6.8	4.5	6.4	5.6
BACKSPIN	6.4	5.3	6.1	4.9	5.4	5.6
TIGER	4.8	5.3	6.8	5.6	5.6	5.6
SRX 7MOBB	4.7	5.3	6.5	5.2	6.3	5.6
IMPERIAL	6.4	5.7	5.7	4.4	5.7	5.6
PRINCEVILLE	6.4	5.3	6.0	5.3	4.8	5.6
PENNEAGLE	7.0	5.5	5.8	4.9	4.6	5.6
BRIGHTON (SRX 1120)	6.4	5.5	6.1	4.7	4.9	5.5
PENN G-6	6.4	5.5	5.7	4.4	5.2	5.4
CENTURY	5.3	5.7	5.6	4.6	5.7	5.4
GOLFSTAR	5.3	5.3	6.7	5.2	4.2	5.3
PROVIDENCE	6.4	5.2	5.8	3.9	5.3	5.3
PENNLINKS II (PST-OVN)	6.2	5.3	6.1	4.2	4.6	5.3
SEASIDE II	6.1	5.3	5.6	3.8	5.1	5.2
SEASIDE	3.8	5.5	5.9	6.0	3.7	5.0
LSD VALUE	0.7	0.5	0.7	0.8	0.6	0.3
C.V. (%)	7.0	6.1	7.2	10.7	7.0	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 7.

MEAN TURFGRASS QUALITY RATINGS OF BENTGRASS CULTIVARS FOR EACH MONTH GROWN
ON A FAIRWAY OR TEE AT PUYALLUP (WITHOUT FUNGICIDES), WA
2002 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF: MONTHS													
NAME	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	MEAN
TIGER II (CIS AT-5)	5.7	6.0	4.7	6.0	7.0	7.7	6.7	7.3	7.7	7.3	7.0	7.0	6.7
ABT-COL-2	5.7	5.0	4.7	6.3	7.0	7.7	6.7	7.7	7.0	7.7	6.3	5.7	6.4
GLORY (PST-9HG)	5.3	5.0	4.0	5.7	6.7	7.3	6.7	7.3	7.0	7.3	7.0	6.3	6.3
SR 7100	4.7	5.0	4.3	5.3	6.7	7.7	6.7	7.0	7.0	6.7	6.3	5.3	6.1
SRX 7MOBB	4.0	4.3	3.3	5.3	6.0	8.0	6.7	7.0	7.0	7.3	7.0	6.0	6.0
SR 7150 (SRX 7MODD)	4.3	3.7	4.0	5.3	6.3	8.3	6.7	5.7	7.0	7.7	7.0	4.7	5.9
PST-9PM	4.3	4.0	3.3	4.0	5.7	7.3	5.0	6.0	6.7	6.7	7.0	5.3	5.4
IMPERIAL	4.3	4.0	5.0	4.3	5.3	5.7	5.0	5.3	6.7	6.7	6.0	5.7	5.3
GRAND PRIX	4.7	3.7	4.3	4.7	4.7	5.7	6.0	6.0	5.3	6.7	6.0	6.0	5.3
TIGER	4.3	4.0	4.0	4.3	5.7	7.3	4.7	6.3	5.7	5.7	6.0	4.3	5.2
SR 1119	4.3	4.7	4.3	4.3	5.0	5.0	5.0	5.3	6.0	6.3	5.7	6.0	5.2
CENTURY	4.3	4.3	4.0	4.0	4.3	5.7	4.7	5.0	5.7	7.0	6.7	5.7	5.1
PENN G-6	4.0	3.7	4.3	4.3	5.0	5.3	5.3	5.0	6.3	6.0	6.3	5.3	5.1
SEASIDE II	4.3	4.0	4.0	4.7	5.3	5.0	4.3	4.3	5.0	6.3	6.3	6.0	5.0
BACKSPIN	4.7	4.3	3.7	3.7	4.0	4.7	5.0	5.0	6.0	6.7	6.0	5.3	4.9
PROVIDENCE	4.7	4.0	4.0	4.0	4.3	5.0	4.7	5.0	5.3	6.3	6.0	5.7	4.9
TRUELINE	3.7	3.7	3.7	4.0	4.7	5.7	4.7	5.3	5.7	6.0	6.0	5.7	4.9
L-93	4.7	3.7	3.7	3.7	4.3	5.0	4.7	5.0	5.3	6.0	6.0	5.7	4.8
PENNCROSS	4.7	5.0	4.3	4.3	4.0	4.7	4.7	4.7	5.3	5.7	5.3	4.7	4.8
PRINCEVILLE	4.3	3.3	3.7	4.0	4.7	5.7	5.0	5.3	5.3	5.7	5.7	4.7	4.8
BRIGHTON (SRX 1120)	4.0	4.0	3.7	4.0	4.0	5.0	4.3	4.3	5.0	6.0	6.3	6.0	4.7
SRX 1BPAA	4.3	3.7	3.7	3.7	3.7	4.0	4.3	4.3	5.7	5.7	6.3	5.3	4.6
PENNEAGLE	3.7	4.0	3.7	4.0	4.3	4.7	4.3	4.7	4.7	5.7	4.7	4.7	4.4
GOLFSTAR	3.7	3.0	3.0	4.0	4.3	6.0	4.0	4.0	4.3	5.3	4.3	3.3	4.1
SEASIDE	4.0	3.7	3.0	3.7	3.0	3.7	3.3	3.7	3.7	6.0	4.3	4.3	3.9
PENNLINKS II (PST-OVN)	4.0	4.0	3.0	3.7	3.0	4.0	3.3	3.3	4.0	5.0	4.3	4.0	3.8
LSD VALUE	1.2	1.3	1.4	1.4	1.6	1.5	1.2	1.3	1.4	1.3	1.1	1.2	0.7
C.V. (%)	16.6	19.5	21.5	19.1	19.5	16.0	15.1	14.7	14.5	12.8	11.2	14.4	8.8

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 8.

GENETIC COLOR RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

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

NAME	IA1	IL1	IN1	MN1	NJ1	PA1	QE1	SD1	UT1	VA1	WA1	WA3	WI1	MEAN
SR 7150 (SRX 7MODD)	7.0	6.7	5.7	6.0	8.0	7.7	7.7	8.0	4.7	6.7	8.3	9.0	7.3	7.1
SRX 7MOBB	7.0	6.0	6.3	6.7	7.3	7.0	7.3	8.0	4.3	6.0	7.3	8.3	6.7	6.8
GOLFSTAR	7.0	6.0	6.0	5.3	7.0	8.7	7.7	7.7	4.7	6.3	7.7	7.7	6.3	6.8
TIGER II (CIS AT-5)	6.7	5.7	5.7	6.3	6.7	6.3	7.7	7.0	4.3	6.3	7.7	8.0	7.0	6.6
TIGER	7.0	6.0	5.7	5.7	6.7	5.7	8.0	6.7	4.7	6.7	7.3	8.3	6.7	6.5
TRUELINE	6.7	5.7	8.0	8.0	6.3	6.7	6.7	6.0	4.3	7.0	7.0	6.0	5.7	6.5
GLORY (PST-9HG)	7.0	5.0	6.0	5.3	6.3	6.3	7.7	6.7	5.0	6.3	7.7	8.7	5.7	6.4
SRX 1BPAA	6.7	6.0	7.7	6.3	5.7	7.3	6.7	5.3	4.7	7.3	6.7	6.3	6.7	6.4
PST-9PM	6.3	5.7	5.7	5.0	6.3	6.7	8.0	6.7	4.3	7.0	7.3	8.3	6.0	6.4
PENNLINKS II (PST-OVN)	6.7	6.0	7.3	7.3	4.7	7.7	6.7	5.3	5.0	7.0	7.0	6.3	5.7	6.4
L-93	7.0	6.0	7.0	7.0	6.0	6.3	6.7	5.7	5.0	6.7	7.0	5.3	6.7	6.3
PENNCROSS	6.7	6.7	7.0	6.3	5.0	6.3	7.0	5.0	5.0	6.7	7.3	6.3	6.3	6.3
BRIGHTON (SRX 1120)	6.0	6.0	7.3	7.0	6.3	5.7	6.7	5.7	5.0	6.7	7.0	6.0	6.3	6.3
SR 1119	6.7	6.0	7.3	6.7	4.3	6.3	6.7	5.3	4.3	7.0	7.0	5.7	6.3	6.1
PENN G-6	7.0	6.0	7.0	6.3	5.0	5.7	6.7	6.0	5.7	6.3	7.0	5.0	6.0	6.1
IMPERIAL	6.3	6.0	7.0	7.0	6.0	5.7	7.0	4.7	4.7	6.3	7.0	5.3	6.0	6.1
GRAND PRIX	6.7	6.0	6.7	6.3	5.0	5.7	6.7	5.7	4.7	6.3	7.0	6.0	6.0	6.1
CENTURY	7.3	6.0	7.0	7.0	4.0	5.3	6.3	5.3	4.7	6.7	6.7	6.3	5.7	6.0
PRINCEVILLE	6.7	6.0	7.3	6.7	4.3	5.0	6.3	5.0	4.7	6.7	7.3	6.0	6.3	6.0
ABT-COL-2	6.7	6.0	5.7	6.0	4.7	5.0	7.7	6.3	4.0	5.7	7.7	7.7	5.0	6.0
BACKSPIN	6.7	6.0	7.0	6.3	4.7	5.3	6.7	5.7	4.7	6.7	7.3	5.0	6.0	6.0
PROVIDENCE	6.0	6.3	7.0	6.3	3.3	6.3	7.0	5.7	4.7	6.3	7.0	6.0	5.7	6.0
PENNEAGLE	7.3	6.0	7.0	6.0	4.0	5.3	6.7	5.7	5.0	6.3	7.0	5.3	6.0	6.0
SEASIDE II	6.3	6.0	7.3	6.0	5.0	5.3	6.7	5.3	4.7	6.3	6.7	5.0	5.7	5.9
SR 7100	7.0	6.0	6.0	5.0	4.3	5.0	7.3	6.0	4.7	5.3	5.7	7.7	5.3	5.8
SEASIDE	6.0	5.7	6.3	5.0	3.3	3.0	6.0	5.0	4.7	5.7	6.0	5.0	5.7	5.2
LSD VALUE	1.1	0.5	0.8	1.0	2.2	1.1	1.0	1.5	0.8	0.9	0.8	1.1	0.9	0.3
C.V. (%)	10.1	5.0	7.0	9.7	25.0	11.2	9.2	16.0	10.5	8.6	6.8	10.8	9.6	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 9.

SPRING GREENUP RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

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

NAME	IA1	IL1	IN1	MN1	NY1	PA1	QE1	SD1	VA1	WA3	WI1	MEAN
SR 1119	6.7	9.0	4.7	7.7	7.7	6.0	2.0	5.7	5.7	5.7	5.3	6.0
TRUELINE	6.0	8.7	5.7	7.7	8.0	6.3	2.0	5.3	6.0	4.7	4.7	5.9
IMPERIAL	7.3	8.7	5.3	8.0	7.3	5.7	1.7	5.3	5.3	5.3	4.7	5.9
BACKSPIN	7.3	8.7	4.3	7.0	7.7	5.7	2.0	6.3	5.7	5.0	5.0	5.9
CENTURY	7.0	8.7	5.0	7.7	7.0	5.3	2.0	5.3	5.3	5.7	4.7	5.8
GLORY (PST-9HG)	5.3	8.0	3.7	6.7	7.7	7.0	3.0	4.7	5.0	7.0	5.0	5.7
GOLFSTAR	5.0	9.0	3.3	6.3	8.0	6.7	3.3	4.0	7.3	5.3	4.7	5.7
PENNCROSS	5.7	7.7	5.0	7.3	7.0	5.7	2.0	6.7	6.0	5.3	4.7	5.7
SRX 1BPAA	5.3	8.7	5.3	7.3	8.0	5.7	1.7	6.0	5.7	4.7	4.7	5.7
GRAND PRIX	6.7	8.3	4.7	7.3	7.7	5.3	1.7	5.3	5.3	5.3	5.0	5.7
PENN G-6	6.7	8.7	4.7	8.0	8.0	5.3	2.0	4.3	6.0	4.3	4.7	5.7
PRINCEVILLE	6.0	8.7	5.7	7.3	7.0	5.0	1.7	6.7	5.7	4.0	5.0	5.7
BRIGHTON (SRX 1120)	7.0	8.3	4.0	7.7	7.0	5.7	1.7	5.0	6.0	4.7	5.3	5.7
PST-9PM	4.7	7.3	3.7	6.0	7.3	8.0	3.0	4.3	5.7	6.7	5.3	5.6
TIGER	4.3	8.0	4.3	6.3	7.0	7.0	2.7	5.3	5.7	6.7	4.7	5.6
L-93	6.0	8.7	4.0	8.0	8.0	5.3	2.3	4.3	6.0	4.0	5.0	5.6
PROVIDENCE	5.7	8.0	5.0	7.7	7.3	5.7	1.3	4.7	6.0	5.0	5.3	5.6
PENNLINKS II (PST-OWN)	6.0	8.7	4.3	7.3	8.0	6.0	2.0	4.0	5.3	4.3	5.0	5.5
TIGER II (CIS AT-5)	5.3	8.3	2.3	7.0	7.7	6.7	2.3	3.0	5.0	7.0	5.3	5.5
PENNEAGLE	6.3	8.0	4.0	7.0	7.3	5.3	1.7	5.7	5.3	4.3	4.7	5.4
SR 7150 (SRX 7MODD)	4.3	8.3	3.0	6.7	7.7	6.0	2.3	4.0	5.7	5.7	5.3	5.4
SR 7100	5.0	7.3	3.3	7.0	7.0	7.0	2.7	3.0	4.0	6.7	5.0	5.3
SRX 7MOBB	5.3	8.3	2.7	6.0	7.7	5.3	3.0	3.7	4.7	4.7	5.7	5.2
SEASIDE	4.7	6.3	6.0	6.3	6.3	4.3	1.0	7.7	5.0	4.7	4.0	5.1
ABT-COL-2	4.7	7.0	3.3	6.0	6.7	6.0	2.3	4.3	4.0	6.0	5.3	5.1
SEASIDE II	6.3	8.0	3.3	7.0	7.0	4.0	1.0	4.3	6.0	4.0	4.3	5.0
LSD VALUE	1.6	1.2	2.9	0.8	0.7	1.2	0.8	1.7	1.0	1.4	0.9	0.4
C.V. (%)	16.9	8.9	42.2	7.3	5.5	12.2	22.3	21.8	11.1	16.3	11.9	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. LEAF TEXTURE RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

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

NAME	IA1	MI1	MN1	NJ1	NY1	QE1	MEAN
SR 7150 (SRX 7MODD)	7.0	7.3	7.0	8.0	6.3	7.3	7.2
SRX 7MOBB	7.3	7.0	7.3	8.0	5.7	7.7	7.2
ABT-COL-2	7.0	7.7	7.3	7.3	6.0	7.3	7.1
SR 7100	6.0	7.3	8.0	7.7	6.0	7.7	7.1
L-93	7.3	7.3	7.3	5.7	7.0	7.0	6.9
TIGER	7.3	7.7	7.7	6.0	5.7	7.3	6.9
TIGER II (CIS AT-5)	5.7	7.7	7.7	7.7	6.0	7.0	6.9
BRIGHTON (SRX 1120)	7.3	7.3	7.0	6.3	6.7	7.0	6.9
IMPERIAL	7.0	8.0	7.3	5.3	7.0	7.0	6.9
CENTURY	7.3	7.0	7.7	5.3	7.0	7.0	6.9
GRAND PRIX	7.0	7.3	7.3	6.0	6.7	7.0	6.9
SRX 1BPAA	7.0	7.0	7.3	6.0	6.7	7.0	6.8
PST-9PM	6.3	7.7	8.0	5.0	6.3	7.3	6.8
SEASIDE II	6.7	7.3	7.3	5.7	6.7	7.0	6.8
GLORY (PST-9HG)	6.7	7.3	6.7	5.7	6.0	7.3	6.6
PENN G-6	7.0	7.3	6.7	5.3	6.3	7.0	6.6
BACKSPIN	7.0	7.3	7.3	3.7	7.0	7.0	6.6
GOLFSTAR	6.0	7.3	6.7	4.7	7.0	7.3	6.5
SR 1119	6.3	7.7	6.7	4.3	7.0	7.0	6.5
PENNLINKS II (PST-OVN)	6.7	7.3	6.3	4.3	7.0	7.0	6.4
TRUELINE	6.3	7.3	7.7	3.7	6.3	7.3	6.4
PRINCEVILLE	6.7	7.7	7.0	3.3	6.3	7.0	6.3
PROVIDENCE	6.0	7.0	7.0	4.3	6.3	7.0	6.3
PENNEAGLE	7.3	7.3	6.3	1.7	6.0	6.7	5.9
PENNCROSS	6.3	7.3	5.7	2.3	6.0	7.3	5.8
SEASIDE	6.3	7.3	5.3	1.0	6.0	6.7	5.4
LSD VALUE	1.5	0.8	1.2	1.5	0.6	0.7	0.5
C.V. (%)	13.5	7.0	10.6	18.3	6.1	6.2	10.5

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.

SPRING DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/									MEAN
	IL1	IN1	MI1	PA1	QE1	VA1	WA1	WA3	WI1	
GRAND PRIX	7.7	6.3	5.3	7.0	7.0	3.3	8.0	6.7	6.0	6.4
IMPERIAL	7.3	5.7	5.0	7.7	7.3	4.3	7.7	6.3	6.0	6.4
CENTURY	7.0	6.7	5.0	7.3	6.7	3.3	8.0	7.0	6.0	6.3
L-93	7.7	5.7	5.7	7.3	7.0	4.0	7.7	6.0	6.0	6.3
PENN G-6	7.0	5.7	5.0	7.0	6.7	5.3	8.0	6.0	6.0	6.3
TIGER II (CIS AT-5)	5.7	3.0	5.0	8.7	7.3	4.3	8.0	8.0	6.7	6.3
ABT-COL-2	5.3	4.7	5.0	8.0	7.7	4.0	7.3	7.3	7.0	6.3
SRX 7MOBB	5.3	2.7	5.0	9.0	8.0	3.3	7.7	8.0	7.0	6.2
SR 7150 (SRX 7MODD)	5.3	4.0	5.0	8.7	7.3	4.0	7.3	7.7	6.3	6.2
SRX 1BPAA	7.3	5.7	5.3	7.3	6.7	3.7	7.3	6.3	6.0	6.2
SEASIDE II	7.0	5.0	5.0	8.0	6.7	4.7	7.3	5.7	6.0	6.1
SR 1119	6.7	4.7	5.0	7.3	6.7	5.0	7.3	6.7	6.0	6.1
GLORY (PST-9HG)	5.3	3.7	5.0	8.3	7.7	3.3	7.3	8.0	6.3	6.1
BRIGHTON (SRX 1120)	7.0	5.0	5.0	7.0	7.7	4.0	7.3	6.0	5.3	6.0
PST-9PM	5.3	3.7	5.0	6.3	7.3	4.7	7.3	8.0	6.7	6.0
SR 7100	4.0	4.0	5.0	8.0	8.0	3.7	7.7	7.3	6.7	6.0
TRUELINE	6.7	5.7	5.0	7.0	7.0	4.0	7.0	6.0	5.7	6.0
BACKSPIN	6.7	5.3	5.0	7.7	7.0	3.3	7.7	5.7	5.7	6.0
PROVIDENCE	7.0	5.3	5.0	6.3	7.3	3.0	7.3	6.3	5.7	5.9
TIGER	4.7	3.7	5.0	7.7	7.7	2.7	7.7	8.0	6.0	5.9
PRINCEVILLE	7.0	4.7	5.0	6.0	7.0	4.0	7.0	6.0	5.3	5.8
PENNCROSS	6.3	4.3	5.0	5.3	7.3	5.0	7.0	6.0	5.3	5.7
PENNLINKS II (PST-OVN)	6.3	4.7	5.0	6.7	7.0	3.7	7.0	5.7	5.7	5.7
PENNEAGLE	6.7	4.7	5.0	5.3	6.7	5.7	7.0	5.3	5.0	5.7
GOLFSTAR	5.7	3.7	5.0	6.0	8.0	3.0	7.3	6.3	5.7	5.6
SEASIDE	3.3	2.3	5.0	3.0	6.3	3.3	5.0	4.3	4.3	4.1
LSD VALUE	1.3	1.8	0.3	0.9	0.8	1.6	0.7	1.2	0.8	0.4
C.V. (%)	12.8	24.3	3.9	8.3	6.5	25.5	6.2	11.0	8.5	11.8

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 12.

SUMMER DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/									
	IL1	IN1	MI1	NJ1	QE1	VA1	WA1	WA3	WI1	MEAN
TIGER II (CIS AT-5)	6.3	6.7	6.0	7.0	8.0	5.3	8.0	7.3	6.7	6.8
IMPERIAL	6.7	6.3	7.0	4.7	7.7	5.3	8.3	6.7	6.3	6.6
ABT-COL-2	5.3	6.3	6.0	5.3	8.0	5.7	8.0	7.3	7.0	6.6
SR 7150 (SRX 7MODD)	5.7	5.3	6.3	7.0	8.0	4.7	7.7	7.7	6.3	6.5
SEASIDE II	7.3	7.0	6.0	5.3	7.0	6.0	7.0	6.3	6.0	6.4
SRX 1BPAA	6.3	6.7	7.0	4.3	7.3	6.0	8.0	6.3	6.0	6.4
L-93	6.3	6.7	6.7	6.3	7.0	5.7	7.3	5.7	6.0	6.4
SRX 7MOBB	4.7	4.7	6.0	7.3	8.0	5.0	7.3	7.7	6.3	6.3
GRAND PRIX	6.3	7.0	6.3	4.7	7.3	4.3	8.7	6.3	6.0	6.3
SR 1119	6.3	7.0	6.3	4.0	7.3	6.0	8.3	6.0	5.7	6.3
CENTURY	6.3	7.0	6.7	4.0	7.0	4.7	8.7	6.7	6.0	6.3
GLORY (PST-9HG)	5.3	5.3	6.3	5.0	8.0	5.7	8.0	6.7	6.3	6.3
SR 7100	5.3	5.0	7.0	5.0	8.0	5.3	8.0	6.7	6.3	6.3
PENN G-6	5.7	6.0	6.3	4.7	7.3	5.3	8.0	7.0	5.3	6.2
PST-9PM	5.3	6.0	6.0	3.7	7.7	6.0	8.3	7.0	5.3	6.1
PENNLINKS II (PST-OVN)	6.3	6.0	6.0	3.7	7.7	6.3	8.7	5.0	5.7	6.1
PROVIDENCE	6.3	6.0	6.3	4.0	7.0	6.0	8.0	6.0	5.7	6.1
BRIGHTON (SRX 1120)	5.7	6.0	6.3	5.0	7.0	5.0	7.3	6.3	6.0	6.1
TIGER	5.3	5.7	6.0	4.3	8.0	4.7	7.7	6.7	6.3	6.1
BACKSPIN	5.7	6.0	6.0	3.7	7.0	5.3	8.7	6.0	6.0	6.0
TRUELINE	6.3	6.0	6.3	3.3	7.0	5.0	8.3	6.3	5.7	6.0
PENNCROSS	6.3	6.0	6.3	2.3	7.3	6.0	8.3	5.3	5.3	5.9
PRINCEVILLE	5.0	5.3	6.0	3.0	7.3	5.3	7.7	6.3	5.7	5.7
GOLFSTAR	5.7	4.0	6.0	3.7	7.7	5.0	7.3	6.0	5.0	5.6
PENNEAGLE	6.0	4.7	6.3	1.7	7.0	5.7	8.0	5.3	5.3	5.6
SEASIDE	4.0	3.3	7.0	1.3	6.0	4.7	6.3	3.7	4.0	4.5
LSD VALUE	1.4	1.5	0.8	2.0	0.6	2.1	1.0	1.2	0.7	0.5
C.V. (%)	14.5	15.7	8.2	28.1	4.8	24.3	7.7	12.2	7.7	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 13.

FALL DENSITY RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

NAME	DENSITY RATINGS 1-9; 9=MAXIMUM DENSITY 2/										
	IL1	IN1	MN1	PA1	QE1	SD1	UT1	WA1	WA3	WI1	MEAN
IMPERIAL	7.3	6.3	7.7	8.3	8.0	6.0	5.3	8.7	7.0	6.7	7.1
TIGER II (CIS AT-5)	7.7	6.0	7.0	8.7	8.0	6.7	4.0	8.0	7.7	7.0	7.1
CENTURY	5.3	7.3	7.7	8.3	8.0	6.3	4.0	8.7	7.7	7.0	7.0
SEASIDE II	6.7	7.0	7.3	8.7	8.0	5.0	4.0	8.0	7.3	7.7	7.0
PROVIDENCE	7.3	6.7	7.0	7.3	8.0	5.7	5.0	8.0	7.3	7.0	6.9
GRAND PRIX	6.3	6.7	7.0	7.7	8.0	6.0	5.0	8.3	7.0	7.0	6.9
PENN G-6	6.7	7.0	8.0	7.0	8.0	6.0	4.7	8.0	7.0	6.3	6.9
ABT-COL-2	7.0	5.3	7.0	7.3	8.0	7.3	3.7	7.7	7.7	7.0	6.8
BACKSPIN	7.3	6.3	7.3	7.3	8.0	5.0	4.3	8.3	6.3	7.0	6.7
L-93	7.0	6.3	7.3	8.0	8.0	5.7	3.7	8.0	6.0	7.3	6.7
SRX 1BPAA	7.0	6.3	7.3	6.7	8.0	5.7	3.7	8.0	7.7	7.0	6.7
GLORY (PST-9HG)	6.7	5.7	5.7	7.7	7.7	7.3	4.3	8.0	7.0	7.0	6.7
SR 7150 (SRX 7MODD)	6.7	6.0	7.0	8.3	7.7	5.3	4.3	7.0	7.3	6.7	6.6
TRUELINE	7.0	6.0	7.0	7.0	8.0	6.3	3.7	8.0	6.3	7.0	6.6
BRIGHTON (SRX 1120)	7.0	6.3	6.7	7.3	7.7	5.7	4.7	7.3	7.0	6.7	6.6
SR 7100	6.0	5.3	7.3	7.0	7.7	6.3	4.3	7.3	7.7	7.0	6.6
SRX 7MOBB	6.3	5.7	6.7	8.3	7.7	6.3	3.3	7.0	8.0	6.0	6.5
PENNLINKS II (PST-OVN)	7.0	6.0	6.0	6.7	8.0	5.3	5.0	8.3	5.7	6.7	6.5
PRINCEVILLE	7.3	5.3	6.3	7.0	7.7	5.3	5.3	7.7	7.0	5.7	6.5
PST-9PM	6.3	6.0	6.7	6.7	8.0	6.0	4.0	7.7	7.0	6.0	6.4
PENNEAGLE	7.3	5.7	6.7	6.3	7.7	5.7	5.3	7.7	6.0	6.0	6.4
SR 1119	7.0	5.7	6.7	6.7	8.0	5.0	3.7	8.0	6.3	6.3	6.3
PENNCROSS	6.0	5.3	6.0	6.0	7.7	5.7	5.7	7.3	6.7	5.7	6.2
TIGER	6.7	5.3	6.3	7.3	7.7	5.7	3.7	7.0	5.7	6.3	6.2
GOLFSTAR	6.3	5.0	6.3	6.7	7.7	5.7	4.3	8.0	6.0	5.3	6.1
SEASIDE	5.3	3.0	4.3	4.0	7.3	7.0	5.0	6.0	6.0	4.3	5.2
LSD VALUE	1.4	1.0	1.1	1.0	0.6	1.2	1.5	0.8	1.2	0.8	0.3
C.V. (%)	12.9	10.8	10.3	8.3	4.8	12.8	21.9	6.7	10.6	7.6	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 14. PERCENT LIVING GROUND COVER (SPRING) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

PERCENT LIVING GROUND COVER IN SPRING: LOCATIONS 2/

NAME	MI1	SD1	MEAN
PRINCEVILLE	93.0	94.7	93.8
SEASIDE	88.3	91.7	90.0
PENNCROSS	91.7	84.7	88.2
TIGER	96.3	78.0	87.2
BACKSPIN	96.3	76.7	86.5
SR 1119	93.0	80.0	86.5
CENTURY	91.7	78.3	85.0
PENNEAGLE	93.0	75.0	84.0
IMPERIAL	93.3	73.3	83.3
GRAND ERIX	94.7	70.0	82.3
SRX 1BPAA	91.7	71.7	81.7
BRIGHTON (SRX 1120)	94.7	68.3	81.5
TRUELINE	93.0	68.0	80.5
ABT-COL-2	90.0	61.7	75.8
L-93	90.0	61.7	75.8
PROVIDENCE	93.3	58.3	75.8
PENN G-6	93.0	56.7	74.8
GLORY (PST-9HG)	91.7	56.3	74.0
GOLFSTAR	91.7	53.3	72.5
PST-9PM	90.0	55.0	72.5
PENNLINKS II (PST-OVN)	90.0	53.3	71.7
SR 7150 (SRX 7MODD)	91.7	46.7	69.2
SEASIDE II	93.3	45.0	69.2
SRX 7MOBB	94.7	41.7	68.2
TIGER II (CIS AT-5)	94.7	40.0	67.3
SR 7100	93.3	31.7	62.5
LSD VALUE	6.1	32.4	16.5
C.V. (%)	4.1	31.3	18.5

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 15. PERCENT LIVING GROUND COVER (SUMMER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

PERCENT LIVING GROUND COVER IN SUMMER: LOCATIONS 2/

NAME	IN1	MI1	MEAN
CENTURY	96.7	91.7	94.2
PENN G-6	95.3	93.0	94.2
BACKSPIN	94.7	93.3	94.0
TRUELINE	96.0	91.7	93.8
IMPERIAL	94.7	91.7	93.2
PRINCEVILLE	92.7	93.0	92.8
SEASIDE II	92.0	93.3	92.7
GRAND ERIX	93.0	91.7	92.3
PENNLINKS II (PST-OVN)	88.3	96.3	92.3
PROVIDENCE	94.3	90.0	92.2
L-93	92.3	91.7	92.0
PENNEAGLE	90.0	93.3	91.7
SR 1119	89.3	91.7	90.5
BRIGHTON (SRX 1120)	90.0	90.0	90.0
PENNCROSS	88.3	90.0	89.2
SRX 1BPAA	85.0	93.3	89.2
SEASIDE	70.0	91.7	80.8
TIGER	61.7	93.3	77.5
GLORY (PST-9HG)	28.0	91.7	59.8
ABT-COL-2	27.7	91.7	59.7
PST-9PM	19.0	93.0	56.0
SRX 7MOBB	16.7	94.7	55.7
TIGER II (CIS AT-5)	13.3	95.0	54.2
SR 7100	10.0	93.3	51.7
SR 7150 (SRX 7MODD)	9.3	93.3	51.3
GOLFSTAR	5.0	91.7	48.3
LSD VALUE	17.8	5.0	9.3
C.V. (%)	16.6	3.3	10.2

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

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

TABLE 16. PERCENT LIVING GROUND COVER (FALL) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

PERCENT LIVING GROUND COVER IN FALL: LOCATIONS 2/

NAME	MI1
L-93	96.3
BRIGHTON (SRX 1120)	95.0
PENNCROSS	94.7
SRX 1BPAA	94.7
IMPERIAL	93.3
PENNEAGLE	93.3
SEASIDE	93.3
SR 1119	93.3
SR 7100	93.3
SR 7150 (SRX 7MODD)	93.3
TIGER	93.3
TRUELINE	93.3
ABT-COL-2	91.7
BACKSPIN	91.7
CENTURY	91.7
GOLFSTAR	91.7
GRAND PRIX	91.7
PENN G-6	91.7
PRINCEVILLE	91.7
PST-9PM	91.7
SEASIDE II	91.7
SRX 7MOBB	91.7
GLORY (PST-9HG)	90.0
PENNLINKS II (PST-OVN)	90.0
PROVIDENCE	90.0
TIGER II (CIS AT-5)	90.0
LSD VALUE	4.4
C.V. (%)	3.0

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

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

TABLE 17. PERCENT WINTER KILL RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

PERCENT WINTER KILL RATINGS: LOCATIONS 2/

NAME	SD1
SR 7100	68.3
TIGER II (CIS AT-5)	60.0
SRX 7MOBB	58.3
SEASIDE II	55.0
SR 7150 (SRX 7MODD)	53.3
GOLFSTAR	46.7
PENNLINKS II (PST-OVN)	46.7
PST-9PM	45.0
GLORY (PST-9HG)	43.3
PENN G-6	43.3
PROVIDENCE	41.7
ABT-COL-2	38.3
L-93	38.3
BRIGHTON (SRX 1120)	31.7
TRUELINE	31.7
GRAND PRIX	30.0
SRX 1BPAA	28.3
IMPERIAL	26.7
PENNEAGLE	25.0
BACKSPIN	23.3
CENTURY	21.7
TIGER	21.7
SR 1119	20.0
PENNCROSS	15.0
SEASIDE	8.3
PRINCEVILLE	5.0
LSD VALUE	32.6
C.V. (%)	56.8

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 18. DOLLAR SPOT RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

DOLLAR SPOT RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	MI1	NJ1	PA1	VA1	WI1	MEAN
TIGER II (CIS AT-5)	8.0	8.7	8.7	5.7	8.3	7.9
SR 7100	8.0	8.0	8.3	4.3	8.0	7.3
GOLFSTAR	8.0	7.0	9.0	5.0	7.7	7.3
GLORY (PST-9HG)	8.0	6.0	8.0	6.0	8.3	7.3
SR 7150 (SRX 7MODD)	8.0	7.3	8.3	4.7	8.0	7.3
TIGER	8.0	8.0	8.7	3.3	8.0	7.2
PST-9PM	8.0	5.7	9.0	5.0	8.0	7.1
ABT-COL-2	8.0	7.3	8.7	3.7	7.7	7.1
SRX 7MOBB	5.7	8.0	8.3	4.0	8.0	6.8
PENNLINKS II (PST-OVN)	5.7	5.7	8.7	4.3	8.0	6.5
SRX 1BPAA	8.0	5.0	6.7	4.7	7.0	6.3
L-93	8.0	4.3	7.7	4.0	7.3	6.3
PENN G-6	8.0	5.0	7.7	3.0	7.0	6.1
SEASIDE II	8.0	5.0	7.0	3.0	7.7	6.1
TRUELINE	8.0	5.3	7.3	3.0	7.0	6.1
SEASIDE	8.0	5.0	7.7	3.0	6.7	6.1
PENNCROSS	8.0	4.3	7.0	3.3	7.0	5.9
PENNEAGLE	8.0	5.0	7.0	3.0	6.3	5.9
BRIGHTON (SRX 1120)	8.0	4.3	6.0	3.0	6.7	5.6
SR 1119	8.0	4.7	5.7	3.3	6.3	5.6
BACKSPIN	8.0	3.7	6.3	3.3	6.3	5.5
GRAND PRIX	8.0	4.0	5.7	3.7	6.0	5.5
PROVIDENCE	8.0	3.0	6.0	3.7	6.3	5.4
PRINCEVILLE	5.7	4.3	6.0	4.7	6.0	5.3
IMPERIAL	5.7	5.0	5.3	3.3	6.3	5.1
CENTURY	5.7	3.0	4.7	3.0	6.3	4.5
LSD VALUE	2.9	2.0	1.7	1.8	0.8	0.9
C.V. (%)	23.5	22.9	14.4	28.4	6.5	19.2

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.

3/ DOLLAR SPOT CAUSED BY SCLEROTINIA HOMEOCARPA AT "NJ1", "PA1" AND "WI1".

TABLE 19. BROWN PATCH (WARM TEMPERATURE) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

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

NAME	VA1
PENN G-6	8.0
PENNCROSS	8.0
BACKSPIN	7.7
BRIGHTON (SRX 1120)	7.7
GRAND PRIX	7.7
L-93	7.7
SRX 1BPAA	7.3
CENTURY	7.0
IMPERIAL	7.0
PENNEAGLE	6.7
PRINCEVILLE	6.7
PROVIDENCE	6.7
SR 1119	6.7
GOLFSTAR	6.3
SEASIDE	6.3
SEASIDE II	6.3
TIGER	6.3
TRUELINE	6.3
ABT-COL-2	6.0
PENNLINKS II (PST-OWN)	5.0
SR 7100	5.0
GLORY (PST-9HG)	4.7
SRX 7MOBB	4.7
SR 7150 (SRX 7MODD)	4.3
PST-9PM	3.7
TIGER II (CIS AT-5)	3.3
LSD VALUE	2.3
C.V. (%)	22.4

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

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

TABLE 20. PINK SNOW MOLD RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

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

NAME	WA1
TIGER II (CIS AT-5)	7.7
SR 7100	7.0
GLORY (PST-9HG)	6.7
TIGER	6.7
SR 7150 (SRX 7MODD)	6.0
SRX 7MOBB	6.0
PENN G-6	5.7
PENNLINKS II (PST-OVN)	5.7
PENNEAGLE	5.0
PROVIDENCE	5.0
BACKSPIN	4.7
SRX 1BPAA	4.7
ABT-COL-2	4.3
CENTURY	4.3
GOLFSTAR	4.3
PST-9PM	4.3
PENNCROSS	4.0
PRINCEVILLE	4.0
SR 1119	4.0
GRAND PRIX	3.7
SEASIDE	3.3
BRIGHTON (SRX 1120)	3.0
L-93	3.0
SEASIDE II	3.0
TRUELINE	3.0
IMPERIAL	2.3
LSD VALUE	3.9
C.V. (%)	51.4

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 21. TAKE-ALL PATCH RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

TAKE-ALL PATCH RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	WI1
TIGER	6.3
BACKSPIN	6.0
SEASIDE	6.0
GRAND PRIX	5.7
SR 7150 (SRX 7MODD)	5.7
TIGER II (CIS AT-5)	5.7
GLORY (PST-9HG)	5.3
PRINCEVILLE	5.3
SR 7100	5.3
PENNEAGLE	5.0
SR 1119	5.0
SRX 1BPAA	5.0
ABT-COL-2	4.7
BRIGHTON (SRX 1120)	4.7
PENNLINKS II (PST-OWN)	4.7
PST-9PM	4.7
SRX 7MOBB	4.7
TRUELINE	4.7
GOLFSTAR	4.3
IMPERIAL	4.3
PENN G-6	4.3
PROVIDENCE	4.3
CENTURY	4.0
PENNCROSS	4.0
SEASIDE II	4.0
L-93	3.7
LSD VALUE	1.5
C.V. (%)	18.8

- 1/ TO DETERMINE STATISTICAL DIFFERENCES AMONG ENTRIES, SUBTRACT ONE ENTRY'S MEAN FROM ANOTHER ENTRY'S MEAN. STATISTICAL DIFFERENCES OCCUR WHEN THIS VALUE IS LARGER THAN THE CORRESPONDING LSD VALUE (LSD 0.05).
- 2/ C.V. (COEFFICIENT OF VARIATION) INDICATES THE PERCENT VARIATION OF THE MEAN IN EACH COLUMN.
- 3/ TAKE-ALL PATCH CAUSED BY GAEUMANNOMYCES GRAMINIS VAR. AVENAE.

TABLE 22. FALL COLOR (OCTOBER) RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

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

NAME	SD1
PST-9PM	7.7
GOLFSTAR	7.0
SR 7150 (SRX 7MODD)	6.7
BRIGHTON (SRX 1120)	6.3
PENNEAGLE	6.3
SR 1119	6.3
TIGER	6.3
TRUELINE	6.3
L-93	6.0
PROVIDENCE	6.0
SRX 1BPAA	6.0
GLORY (PST-9HG)	5.7
PENN G-6	5.7
SRX 7MOBB	5.7
IMPERIAL	5.3
PENNCROSS	5.3
TIGER II (CIS AT-5)	5.3
ABT-COL-2	5.0
BACKSPIN	5.0
GRAND PRIX	5.0
PENNLINKS II (PST-OVN)	5.0
PRINCEVILLE	5.0
SEASIDE II	5.0
CENTURY	4.7
SEASIDE	4.3
SR 7100	4.3
LSD VALUE	1.4
C.V. (%)	14.8

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 23.

PERCENT POA ANNUA (SPRING) RATINGS OF BENTGRASS CULTIVARS 1/
 GROWN ON A FAIRWAY OR TEE 2/
 2002 DATA

NAME	IN1
SEASIDE	70.0
PST-9PM	51.7
GOLFSTAR	50.0
TIGER	50.0
SR 7100	48.3
SRX 7MOBB	48.3
SR 7150 (SRX 7MODD)	43.3
TIGER II (CIS AT-5)	43.3
GLORY (PST-9HG)	36.7
ABT-COL-2	31.7
SRX 1BPAA	25.0
PENNLINKS II (PST-OWN)	16.7
PENNCROSS	14.3
PENN G-6	11.7
PRINCEVILLE	11.7
BRIGHTON (SRX 1120)	10.0
PROVIDENCE	10.0
SR 1119	10.0
IMPERIAL	8.3
TRUELINE	8.3
L-93	7.7
PENNEAGLE	6.7
SEASIDE II	6.0
GRAND PRIX	5.3
CENTURY	4.3
BACKSPIN	3.0
LSD VALUE	18.7
C.V. (%)	47.9

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 24. SCALPING RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

SCALPING RATINGS 1-9; 9=NONE 2/

NAME	SD1
ABT-COL-2	9.0
GLORY (PST-9HG)	9.0
GOLFSTAR	9.0
PST-9PM	9.0
SEASIDE	9.0
SR 7100	9.0
SRX 7MOBB	9.0
SR 7150 (SRX 7MODD)	8.7
TIGER	8.7
GRAND PRIX	8.0
PRINCEVILLE	8.0
TIGER II (CIS AT-5)	7.7
TRUELINE	7.7
L-93	7.3
PENN G-6	7.0
PENNEAGLE	7.0
BACKSPIN	6.7
BRIGHTON (SRX 1120)	6.7
PENNCROSS	6.3
SR 1119	6.3
CENTURY	6.0
IMPERIAL	6.0
SRX 1BPAA	5.3
PENNLINKS II (PST-OVN)	4.7
PROVIDENCE	4.3
SEASIDE II	4.0
LSD VALUE	2.3
C.V. (%)	19.6

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 25. PINK/GRAY SNOW MOLD RATINGS OF BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE 1/
2002 DATA

PINK/GRAY SNOW MOLD RATINGS 1-9; 9=NO DISEASE 2/ 3/

NAME	UT1
GLORY (PST-9HG)	6.3
GOLFSTAR	5.7
SR 7100	5.7
SRX 7MOBB	5.7
TIGER	5.3
ABT-COL-2	5.0
TIGER II (CIS AT-5)	5.0
PENNCROSS	4.7
SR 7150 (SRX 7MODD)	4.7
PRINCEVILLE	3.7
PST-9PM	3.7
SEASIDE	3.7
SRX 1BPAA	3.7
GRAND PRIX	3.3
L-93	3.3
PENNEAGLE	3.3
SR 1119	3.3
TRUELINE	3.3
BRIGHTON (SRX 1120)	3.0
PENN G-6	3.0
PENNLINKS II (PST-OVN)	3.0
BACKSPIN	2.7
CENTURY	2.7
IMPERIAL	2.7
PROVIDENCE	2.3
SEASIDE II	2.3
LSD VALUE	1.9
C.V. (%)	31.1

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.

3/ PINK/GRAY SNOW MOLD CAUSED BY MICRODOCHIUM NIVALE AND TYPHULA INCARNATA.

APPENDIX TABLE. SUMMARY OF TURFGRASS QUALITY RATINGS FOR BENTGRASS CULTIVARS
GROWN ON A FAIRWAY OR TEE
2002 DATA

TURFGRASS QUALITY RATINGS 1-9; 9=IDEAL TURF

NAME	STATISTICS FOR ALL LOCATIONS						
	ALL LOCATIONS		SUM OF RANKS 3/	RANK 4/	HIGHEST RANK 5/	LOWEST RANK 6/	MAXIMUM IN TOP 25% 7/
	MEAN 1/	RANK 2/					
ABT-COL-2	5.4	20	265	21	2	26	23.5
BACKSPIN	5.7	8	223	11	8	24	0.0
BRIGHTON (SRX 1120)	5.7	9	231	12	2	21	11.8
CENTURY	5.6	12	242	16	1	26	23.5
GLORY (PST-9HG)	5.6	14	201	8	2	24	29.4
GOLFSTAR	4.8	25	351	25	4	26	5.9
GRAND PRIX	5.9	3	162	3	4	20	41.2
IMPERIAL	5.9	4	169	4	1	24	47.1
L-93	5.9	1	149	1	1	18	52.9
PENN G-6	5.8	5	173	6	1	23	41.2
PENNCROSS	5.5	18	248	17	2	24	11.8
PENNEAGLE	5.5	17	240	15	1	23	17.6
PENNLINKS II (PST-OVN)	5.6	15	219	10	1	26	29.4
PRINCEVILLE	5.6	13	234	14	3	24	23.5
PROVIDENCE	5.5	16	256	18	4	26	17.6
PST-9PM	5.2	23	272	22	5	25	5.9
SEASIDE	4.3	26	371	26	1	26	5.9
SEASIDE II	5.6	11	232	13	2	26	23.5
SR 1119	5.8	7	185	7	3	24	29.4
SR 7100	5.2	22	265	21	1	25	23.5
SR 7150 (SRX 7MODD)	5.4	19	261	19	1	25	23.5
SRX 1BPAA	5.8	6	171	5	1	24	41.2
SRX 7MOBB	5.3	21	296	23	4	25	17.6
TIGER	5.1	24	313	24	3	26	11.8
TIGER II (CIS AT-5)	5.6	10	213	9	1	25	29.4
TRUELINE	5.9	2	156	2	1	26	47.1
LSD VALUE	0.2						
C.V. (%)	8.2						

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

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

- 1/ MEAN - AN AVERAGE OF ALL THE TURFGRASS QUALITY RATINGS FROM ALL LOCATIONS.
- 2/ RANK - RANKING OF THE MEAN OF ALL QUALITY RATINGS.
- 3/ SUM OF RANKS - A SUM OF ALL THE RANKINGS FROM THE VARIOUS LOCATIONS.
- 4/ RANK - THE RANKING OF THE SUM OF RANKS.
- 5/ HIGHEST RANK - THE HIGHEST RANKING ACHIEVED BY THAT ENTRY AT ANY ONE LOCATION.
- 6/ LOWEST RANK - THE LOWEST RANKING ACHIEVED BY THAT ENTRY AT ANY ONE LOCATION.
- 7/ MAXIMUM IN TOP 25% - THE PERCENTAGE OF LOCATIONS WHERE THAT ENTRY FINISHED IN THE TOP 25% OF ALL ENTRIES.